

This document contains the corepresentation character tables for 598 spin point groups.
Each page corresponds to one group, showing the group symbol, the class operations, and the character table.

The following symbol definitions apply:

$$\omega = e^{\frac{1}{3}\pi i} = \frac{1}{2} + \frac{\sqrt{3}}{2}i, \quad \omega^* = e^{-\frac{1}{3}\pi i} = \frac{1}{2} - \frac{\sqrt{3}}{2}i$$

$$\theta = e^{\frac{1}{4}\pi i} = \frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2}i, \quad \theta^* = e^{-\frac{1}{4}\pi i} = \frac{\sqrt{2}}{2} - \frac{\sqrt{2}}{2}i$$

$$\tau = e^{\frac{1}{6}\pi i} = \frac{\sqrt{3}}{2} + \frac{1}{2}i, \quad \tau^* = e^{-\frac{1}{6}\pi i} = \frac{\sqrt{3}}{2} - \frac{1}{2}i$$

1_1

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{^d1 \parallel 1\}$

Corep	C_1	C_2
GM1	1	1
GM2	1	-1

-1 -1

Classes:

$C_1: \{1\|1\}$

$C_2: \{^d1\|1\}$

Corep	C_1	C_2
GM1	1	1
GM2GM2	2	-2

$2_{001}\text{-}1$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel -1\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d2_{001}\parallel -1\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
$\overline{\text{GM3}}$	1	-i	-1	i
$\overline{\text{GM4}}$	1	i	-1	-i

m001-1

Classes:

$C_1: \{1||1\}$

$C_2: \{^d1||1\}$

Corep	C_1	C_2
GM1	1	1
GM2	1	-1

1_{-1}

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{1 \parallel -1\}$

$C_3: \{^d1 \parallel 1\}$

$C_4: \{^d1 \parallel -1\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3</u>	1	-1	-1	1
<u>GM4</u>	1	1	-1	-1

-12

Classes:

$C_1: \{1\|1\}$

$C_2: \{^d1\|1\}$

Corep	C_1	C_2
GM1	1	1
GM2GM2	2	-2

$2_{001}2$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel 2_{010}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d2_{001}\parallel 2_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
$\overline{\text{GM3}}$	1	-i	-1	i
$\overline{\text{GM4}}$	1	i	-1	-i

m0012

Classes:

$C_1: \{1||1\}$

$C_2: \{^d1||1\}$

Corep	C_1	C_2
GM1	1	1
GM2	1	-1

12

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{010}\}$

$C_3: \{^d1\|1\}$

$C_4: \{^d1\|2_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3</u>	1	-1	-1	1
<u>GM4</u>	1	1	-1	-1

-1_m

Classes:

$C_1: \{1\|1\}$

$C_2: \{^d1\|1\}$

Corep	C_1	C_2
GM1	1	1
GM2GM2	2	-2

$2_{001}\mathbf{m}$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel \mathbf{m}_{010}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d2_{001}\parallel \mathbf{m}_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
$\overline{\text{GM3}}$	1	-i	-1	i
$\overline{\text{GM4}}$	1	i	-1	-i

$m001m$

Classes:

$C_1: \{1||1\}$

$C_2: \{^d1||1\}$

Corep	C_1	C_2
GM1	1	1
GM2	1	-1

1_m

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{1 \parallel m_{010}\}$

$C_3: \{^d1 \parallel 1\}$

$C_4: \{^d1 \parallel m_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3</u>	1	-1	-1	1
<u>GM4</u>	1	1	-1	-1

$2_{001}2/2_{100}\mathbf{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{2_{001}\|2_{010}\}, \{^d2_{001}\|2_{010}\}$

$C_3: \{2_{010}\|-1\}, \{^d2_{010}\|-1\}$

$C_4: \{2_{100}\|\mathbf{m}_{010}\}, \{^d2_{100}\|\mathbf{m}_{010}\}$

$C_5: \{^d1\|1\}$

Corep	C_1	C_2	C_3	C_4	C_5
GM1	1	1	1	1	1
GM2	1	-1	-1	1	1
GM3	1	-1	1	-1	1
GM4	1	1	-1	-1	1
$\overline{\text{GM5}}$	2	0	0	0	-2

$2_{001}2/-^1m$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel 2_{010}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d2_{001}\parallel 2_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM4</u>	2	0	-2	0

$m_{001}2/2_{001}m$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel m_{010}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d2_{001}\parallel m_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM4</u>	2	0	-2	0

$-12/m001m$

Classes:

$C_1: \{1||1\}$

$C_2: \{2_{001}||-1\}$

$C_3: \{^d1||1\}$

$C_4: \{^d2_{001}||-1\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM4</u>	2	0	-2	0

$2_{001}2/m_{001}m$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel 2_{010}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d2_{001}\parallel 2_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM4</u>	2	0	-2	0

$m_{001}2^{-1}m$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel -1\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d2_{001}\parallel -1\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM4</u>	2	0	-2	0

$-1/2_{001}\text{m}$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel \text{m}_{010}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d2_{001}\parallel \text{m}_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM4</u>	2	0	-2	0

$2_{001}2/m_{100}m$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel 2_{010}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d2_{001}\parallel 2_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
$\overline{\text{GM3}}$	1	-i	-1	i
$\overline{\text{GM4}}$	1	i	-1	-i

$m_{010}2/2_{001}m$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel m_{010}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d2_{001}\parallel m_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
$\overline{\text{GM3}}$	1	-i	-1	i
$\overline{\text{GM4}}$	1	i	-1	-i

$m_{100}2/m_{010}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{2_{001}||-1\}$

$C_3: \{^d1||1\}$

$C_4: \{^d2_{001}||-1\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
$\overline{\text{GM3}}$	1	-i	-1	i
$\overline{\text{GM4}}$	1	i	-1	-i

$$^{-1}2/^{-1}m$$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\| - 1\}$

$C_3: \{^d1\|1\}$

$C_4: \{^d1\| - 1\}$

Corep	C ₁	C ₂	C ₃	C ₄
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM3</u>	2	-2	-2	2
<u>GM4GM4</u>	2	2	-2	-2

$2_{001}2/2_{001}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||-1\}$

$C_3: \{2_{001}||m_{010}\}$

$C_4: \{2_{001}||2_{010}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||-1\}$

$C_7: \{^d2_{001}||m_{010}\}$

$C_8: \{^d2_{001}||2_{010}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

m0012/m001m

Classes:

C₁: {1||1}

C₂: {1||-1}

C₃: {^d1||1}

C₄: {^d1||-1}

Corep	C ₁	C ₂	C ₃	C ₄
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3</u>	1	-1	-1	1
<u>GM4</u>	1	1	-1	-1

$1_2/-1_m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{010}\}$

$C_3: \{^d1||1\}$

$C_4: \{^d1||2_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM3</u>	2	-2	-2	2
<u>GM4GM4</u>	2	2	-2	-2

$1_2/2_{001}\mathbf{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{010}\}$

$C_3: \{2_{001}\| -1\}$

$C_4: \{2_{001}\|\mathbf{m}_{010}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{010}\}$

$C_7: \{^d2_{001}\| -1\}$

$C_8: \{^d2_{001}\|\mathbf{m}_{010}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$12/m001m$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{1\parallel 2_{010}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d1\parallel 2_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
$\overline{\text{GM3}}$	1	-1	-1	1
$\overline{\text{GM4}}$	1	1	-1	-1

$^{-1}2/^{1}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|m_{010}\}$

$C_3: \{^d1\|1\}$

$C_4: \{^d1\|m_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM3</u>	2	-2	-2	2
<u>GM4GM4</u>	2	2	-2	-2

$2_{001}2/1m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||m_{010}\}$

$C_3: \{2_{001}||-1\}$

$C_4: \{2_{001}||2_{010}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||m_{010}\}$

$C_7: \{^d2_{001}||-1\}$

$C_8: \{^d2_{001}||2_{010}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$m_{001}2/1m$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{1\parallel m_{010}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d1\parallel m_{010}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
$\overline{\text{GM3}}$	1	-1	-1	1
$\overline{\text{GM4}}$	1	1	-1	-1

$1_2/1_m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||-1\}$

$C_3: \{1||m_{010}\}$

$C_4: \{1||2_{010}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||-1\}$

$C_7: \{^d1||m_{010}\}$

$C_8: \{^d1||2_{010}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM8}}$	1	1	1	1	-1	-1	-1	-1

$$2_{100}2_{201}2_{200}1_2$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|2_{010}\}, \{^d2_{010}\|2_{010}\}$$

$$C_4: \{2_{100}\|2_{100}\}, \{^d2_{100}\|2_{100}\}$$

$$C_5: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅
GM1	1	1	1	1	1
GM2	1	-1	-1	1	1
GM3	1	-1	1	-1	1
GM4	1	1	-1	-1	1
<u>GM5</u>	2	0	0	0	-2

$$-12^{\text{m}001}2^{2001}2$$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel 2_{001}\}$

$C_3: \{^{\text{d}}1\parallel 1\}$

$C_4: \{^{\text{d}}2_{001}\parallel 2_{001}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM4</u>	2	0	-2	0

$$m_{100}2m_{010}2^2_{001}2$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}$$

$$C_3: \{^d1\|1\}$$

$$C_4: \{^d2_{001}\|2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3</u>	1	-i	-1	i
<u>GM4</u>	1	i	-1	-i

$-12^{-1}2^12$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{1\parallel 2_{001}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d1\parallel 2_{001}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM3</u>	2	-2	-2	2
<u>GM4GM4</u>	2	2	-2	-2

$$2_{001}2^2_{001}2^1_2$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{1 \parallel 2_{001}\}$$

$$C_3: \{2_{001} \parallel 2_{010}\}$$

$$C_4: \{2_{001} \parallel 2_{100}\}$$

$$C_5: \{^d1 \parallel 1\}$$

$$C_6: \{^d1 \parallel 2_{001}\}$$

$$C_7: \{^d2_{001} \parallel 2_{010}\}$$

$$C_8: \{^d2_{001} \parallel 2_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$m_{001}2m_{001}2^12$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{1\parallel 2_{001}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d1\parallel 2_{001}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
$\overline{\text{GM3}}$	1	-1	-1	1
$\overline{\text{GM4}}$	1	1	-1	-1

$1_2 1_2 1_2$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{1\|2_{010}\}$
 $C_4: \{1\|2_{100}\}$
 $C_5: \{^d1\|1\}$
 $C_6: \{^d1\|2_{001}\}$
 $C_7: \{^d1\|2_{010}\}$
 $C_8: \{^d1\|2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM8}}$	1	1	1	1	-1	-1	-1	-1

$$2_{100}\mathbf{m}2_{010}\mathbf{m}2_{001}2$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{{}^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|\mathbf{m}_{010}\}, \{{}^d2_{010}\|\mathbf{m}_{010}\}$$

$$C_4: \{2_{100}\|\mathbf{m}_{100}\}, \{{}^d2_{100}\|\mathbf{m}_{100}\}$$

$$C_5: \{{}^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅
GM1	1	1	1	1	1
GM2	1	-1	-1	1	1
GM3	1	-1	1	-1	1
GM4	1	1	-1	-1	1
<u>GM5</u>	2	0	0	0	-2

$$\bar{1}m^{m001}m^{2001}2$$

Classes:

C₁: {1||1}

C₂: {2₀₀₁||2₀₀₁}

C₃: {^d1||1}

C₄: {^d2₀₀₁||2₀₀₁}

Corep	C ₁	C ₂	C ₃	C ₄
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM4</u>	2	0	-2	0

$$2_{001}\mathbf{m}^{-1}\mathbf{m}^{\mathbf{m}001}2$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|\mathbf{m}_{100}\}$$

$$C_3: \{{}^d1\|1\}$$

$$C_4: \{{}^d2_{001}\|\mathbf{m}_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM4</u>	2	0	-2	0

$$m_{001}m_{200}m^{-1}_2$$

Classes:
 C_1 : $\{1\parallel 1\}$
 C_2 : $\{2_{001}\parallel m_{010}\}$
 C_3 : $\{^d1\parallel 1\}$
 C_4 : $\{^d2_{001}\parallel m_{010}\}$

Corep	C ₁	C ₂	C ₃	C ₄
GM1	1	1	1	1
GM2	1	−1	1	−1
<u>GM3GM4</u>	2	0	−2	0

$$m_{100}m^{m_{010}}m^{2_{001}}2$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}$$

$$C_3: \{^d1\|1\}$$

$$C_4: \{^d2_{001}\|2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3</u>	1	-i	-1	i
<u>GM4</u>	1	i	-1	-i

$2_{001}\mathbf{m}^{\mathbf{m}_{100}}\mathbf{m}^{\mathbf{m}_{010}}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{2_{001}\|\mathbf{m}_{100}\}$

$C_3: \{^d1\|1\}$

$C_4: \{^d2_{001}\|\mathbf{m}_{100}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2	1	-1	1	-1
$\overline{\text{GM3}}$	1	-i	-1	i
$\overline{\text{GM4}}$	1	i	-1	-i

$$\bar{1}m\bar{1}m^12$$

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}

C₃: {^d1||1}

C₄: {^d1||2₀₀₁}

Corep	C ₁	C ₂	C ₃	C ₄
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM3</u>	2	-2	-2	2
<u>GM4GM4</u>	2	2	-2	-2

$2_{001}\mathbf{m}2_{001}\mathbf{m}^12$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|\mathbf{m}_{010}\}$

$C_4: \{2_{001}\|\mathbf{m}_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\|\mathbf{m}_{010}\}$

$C_8: \{^d2_{001}\|\mathbf{m}_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$$m_{001}m^{m_{001}}m^1_2$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{^d1\|1\}$$

$$C_4: \{^d1\|2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3</u>	1	-1	-1	1
<u>GM4</u>	1	1	-1	-1

$$\bar{1}m^1m\bar{1}2$$

Classes:

C₁: {1||1}

C₂: {1||m₀₁₀}

C₃: {^d1||1}

C₄: {^d1||m₀₁₀}

Corep	C ₁	C ₂	C ₃	C ₄
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3GM3</u>	2	-2	-2	2
<u>GM4GM4</u>	2	2	-2	-2

$2_{001}\mathbf{m}^1\mathbf{m}^2_{001}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|\mathbf{m}_{010}\}$

$C_3: \{2_{001}\|2_{001}\}$

$C_4: \{2_{001}\|\mathbf{m}_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|\mathbf{m}_{010}\}$

$C_7: \{^d2_{001}\|2_{001}\}$

$C_8: \{^d2_{001}\|\mathbf{m}_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$$\mathbf{m}^{001}\mathbf{m}^1\mathbf{m}^{001}2$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|\mathbf{m}_{010}\}$$

$$C_3: \{^d1\|1\}$$

$$C_4: \{^d1\|\mathbf{m}_{010}\}$$

Corep	C ₁	C ₂	C ₃	C ₄
GM1	1	1	1	1
GM2	1	-1	1	-1
<u>GM3</u>	1	-1	-1	1
<u>GM4</u>	1	1	-1	-1

$1m1m12$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|m_{010}\}$

$C_4: \{1\|m_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d1\|m_{010}\}$

$C_8: \{^d1\|m_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM8}}$	1	1	1	1	-1	-1	-1	-1

$$-1\mathbf{m}^2_{100}\mathbf{m}^2_{010}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{100}\}, \{^d2_{001}\|2_{100}\}$$

$$C_3: \{2_{010}\|\mathbf{m}_{001}\}, \{^d2_{010}\|\mathbf{m}_{001}\}$$

$$C_4: \{2_{100}\|\mathbf{m}_{010}\}, \{^d2_{100}\|\mathbf{m}_{010}\}$$

$$C_5: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅
GM1	1	1	1	1	1
GM2	1	-1	-1	1	1
GM3	1	-1	1	-1	1
GM4	1	1	-1	-1	1
<u>GM5</u>	2	0	0	0	-2

$$m_{001}m_{200}m_{210}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|m_{010}\}, \{^d2_{001}\|m_{010}\}$$

$$C_3: \{2_{010}\|2_{100}\}, \{^d2_{010}\|2_{100}\}$$

$$C_4: \{2_{100}\|m_{001}\}, \{^d2_{100}\|m_{001}\}$$

$$C_5: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅
GM1	1	1	1	1	1
GM2	1	-1	-1	1	1
GM3	1	-1	1	-1	1
GM4	1	1	-1	-1	1
<u>GM5</u>	2	0	0	0	-2

$$m_{100}m^2_{100}m^{m_{001}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\| -1\}, \{^d2_{001}\| -1\}$$

$$C_3: \{2_{010}\|2_{010}\}, \{^d2_{010}\|2_{010}\}$$

$$C_4: \{2_{100}\|m_{010}\}, \{^d2_{100}\|m_{010}\}$$

$$C_5: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅
GM1	1	1	1	1	1
GM2	1	-1	-1	1	1
GM3	1	-1	1	-1	1
GM4	1	1	-1	-1	1
<u>GM5</u>	2	0	0	0	-2

$$m_{001}m_{210}m^{-1}m$$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{2_{001}\|2_{010}\}, \{^d2_{001}\|2_{010}\}$

C_3 : $\{2_{010}\| - 1\}, \{^d2_{010}\| - 1\}$

C_4 : $\{2_{100}\|m_{010}\}, \{^d2_{100}\|m_{010}\}$

C_5 : $\{^d1\|1\}$

Corep	C_1	C_2	C_3	C_4	C_5
GM1	1	1	1	1	1
GM2	1	-1	-1	1	1
GM3	1	-1	1	-1	1
GM4	1	1	-1	-1	1
$\overline{\text{GM5}}$	2	0	0	0	-2

$$m_{001}m^{-1}m_{100}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|2_{010}\}, \{^d2_{010}\|2_{010}\}$$

$$C_4: \{2_{100}\|2_{100}\}, \{^d2_{100}\|2_{100}\}$$

$$C_5: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅
GM1	1	1	1	1	1
GM2	1	-1	-1	1	1
GM3	1	-1	1	-1	1
GM4	1	1	-1	-1	1
<u>GM5</u>	2	0	0	0	-2

$$2_{100}\mathbf{m}^{\mathbf{m}001}\mathbf{m}^{2_{010}}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{010}\}, \{{}^d2_{001}\|2_{010}\}$$

$$C_3: \{2_{010}\|\mathbf{m}001\}, \{{}^d2_{010}\|\mathbf{m}001\}$$

$$C_4: \{2_{100}\|\mathbf{m}100\}, \{{}^d2_{100}\|\mathbf{m}100\}$$

$$C_5: \{{}^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅
GM1	1	1	1	1	1
GM2	1	-1	-1	1	1
GM3	1	-1	1	-1	1
GM4	1	1	-1	-1	1
<u>GM5</u>	2	0	0	0	-2

$m_{010}m_{001}m_{100}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{2_{001}||2_{010}\}, \{^d2_{001}||2_{010}\}$

$C_3: \{2_{010}||2_{100}\}, \{^d2_{010}||2_{100}\}$

$C_4: \{2_{100}||2_{001}\}, \{^d2_{100}||2_{001}\}$

$C_5: \{^d1||1\}$

Corep	C_1	C_2	C_3	C_4	C_5
GM1	1	1	1	1	1
GM2	1	-1	-1	1	1
GM3	1	-1	1	-1	1
GM4	1	1	-1	-1	1
GM5	2	0	0	0	-2

$$2_{100}\mathbf{m}2_{010}\mathbf{m}2_{001}\mathbf{m}$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||-1\}$$

$$C_3: \{2_{001}||\mathbf{m}_{001}\}, \{\mathbf{d}2_{001}||\mathbf{m}_{001}\}$$

$$C_4: \{2_{001}||2_{001}\}, \{\mathbf{d}2_{001}||2_{001}\}$$

$$C_5: \{2_{010}||\mathbf{m}_{010}\}, \{\mathbf{d}2_{010}||\mathbf{m}_{010}\}$$

$$C_6: \{2_{010}||2_{010}\}, \{\mathbf{d}2_{010}||2_{010}\}$$

$$C_7: \{2_{100}||\mathbf{m}_{100}\}, \{\mathbf{d}2_{100}||\mathbf{m}_{100}\}$$

$$C_8: \{2_{100}||2_{100}\}, \{\mathbf{d}2_{100}||2_{100}\}$$

$$C_9: \{\mathbf{d}1||1\}$$

$$C_{10}: \{\mathbf{d}1||-1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	1	-1
GM3	1	-1	-1	1	1	-1	1	-1	1	-1
GM4	1	-1	1	-1	-1	1	1	-1	1	-1
GM5	1	-1	1	-1	1	-1	-1	1	1	-1
GM6	1	1	-1	-1	-1	-1	1	1	1	1
GM7	1	1	-1	-1	1	1	-1	-1	1	1
GM8	1	1	1	1	-1	-1	-1	-1	1	1
<u>GM9</u>	2	2	0	0	0	0	0	0	-2	-2
<u>GM10</u>	2	-2	0	0	0	0	0	0	-2	2

$$\bar{1}m^{m001}m^{2001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|-1\}$$

$$C_3: \{2_{001}\|m_{001}\}$$

$$C_4: \{2_{001}\|2_{001}\}$$

$$C_5: \{^d1\|1\}$$

$$C_6: \{^d1\|-1\}$$

$$C_7: \{^d2_{001}\|m_{001}\}$$

$$C_8: \{^d2_{001}\|2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
<u>GM5GM6</u>	2	-2	0	0	-2	2	0	0
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$m_{100}m^{m_{010}}m^{2_{001}}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||-1\}$

$C_3: \{2_{001}||m_{001}\}$

$C_4: \{2_{001}||2_{001}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||-1\}$

$C_7: \{^d2_{001}||m_{001}\}$

$C_8: \{^d2_{001}||2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$$2_{100}\mathbf{m}2_{100}\mathbf{m}2_{010}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{2_{001}\|2_{010}\}, \{^d2_{001}\|2_{010}\}$$

$$C_4: \{2_{001}\|2_{100}\}, \{^d2_{001}\|2_{100}\}$$

$$C_5: \{2_{010}\| -1\}, \{^d2_{010}\| -1\}$$

$$C_6: \{2_{010}\|\mathbf{m}_{001}\}, \{^d2_{010}\|\mathbf{m}_{001}\}$$

$$C_7: \{2_{100}\|\mathbf{m}_{010}\}, \{^d2_{100}\|\mathbf{m}_{010}\}$$

$$C_8: \{2_{100}\|\mathbf{m}_{100}\}, \{^d2_{100}\|\mathbf{m}_{100}\}$$

$$C_9: \{^d1\|1\}$$

$$C_{10}: \{^d1\|2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	1	-1	1	-1
GM3	1	-1	-1	1	1	-1	-1	1	1	-1
GM4	1	-1	1	-1	-1	1	-1	1	1	-1
GM5	1	-1	1	-1	1	-1	1	-1	1	-1
GM6	1	1	-1	-1	-1	-1	1	1	1	1
GM7	1	1	-1	-1	1	1	-1	-1	1	1
GM8	1	1	1	1	-1	-1	-1	-1	1	1
<u>GM9</u>	2	2	0	0	0	0	0	0	-2	-2
<u>GM10</u>	2	-2	0	0	0	0	0	0	-2	2

$-1m^{-1}m^{m001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|2_{010}\}$

$C_4: \{2_{001}\|2_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\|2_{010}\}$

$C_8: \{^d2_{001}\|2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
<u>GM5GM6</u>	2	-2	0	0	-2	2	0	0
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$$2_{001}\mathbf{m}2_{001}\mathbf{m}^{-1}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{2_{001}\|\mathbf{m}_{010}\}$$

$$C_4: \{2_{001}\|\mathbf{m}_{100}\}$$

$$C_5: \{^d1\|1\}$$

$$C_6: \{^d1\|2_{001}\}$$

$$C_7: \{^d2_{001}\|\mathbf{m}_{010}\}$$

$$C_8: \{^d2_{001}\|\mathbf{m}_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
<u>GM5GM6</u>	2	-2	0	0	-2	2	0	0
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$$m_{001}m^{m_{001}}m^{2_{001}}m$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{1 \parallel 2_{001}\}$$

$$C_3: \{2_{001} \parallel -1\}$$

$$C_4: \{2_{001} \parallel m_{001}\}$$

$$C_5: \{^d1 \parallel 1\}$$

$$C_6: \{^d1 \parallel 2_{001}\}$$

$$C_7: \{^d2_{001} \parallel -1\}$$

$$C_8: \{^d2_{001} \parallel m_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
<u>GM5GM6</u>	2	-2	0	0	-2	2	0	0
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$m_{001}m_{m001}m^{-1}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|2_{010}\}$

$C_4: \{2_{001}\|2_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\|2_{010}\}$

$C_8: \{^d2_{001}\|2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
<u>GM5GM6</u>	2	-2	0	0	-2	2	0	0
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$$^{-1}\mathbf{m}^{-1}\mathbf{m}^{2_{001}}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{2_{001}\| -1\}$$

$$C_4: \{2_{001}\|\mathbf{m}_{001}\}$$

$$C_5: \{^d1\|1\}$$

$$C_6: \{^d1\|2_{001}\}$$

$$C_7: \{^d2_{001}\| -1\}$$

$$C_8: \{^d2_{001}\|\mathbf{m}_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
<u>GM5GM6</u>	2	-2	0	0	-2	2	0	0
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$2_{001}\mathbf{m}2_{001}\mathbf{m}^{\mathbf{m}001}\mathbf{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|\mathbf{m}_{010}\}$

$C_4: \{2_{001}\|\mathbf{m}_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\|\mathbf{m}_{010}\}$

$C_8: \{^d2_{001}\|\mathbf{m}_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
<u>GM5GM6</u>	2	-2	0	0	-2	2	0	0
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$m_{100}m_{100}m_{010}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|2_{010}\}$

$C_4: \{2_{001}\|2_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\|2_{010}\}$

$C_8: \{^d2_{001}\|2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$2_{001}\mathbf{m}2_{001}\mathbf{m}^{\mathbf{m}}_{100}\mathbf{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|\mathbf{m}_{010}\}$

$C_4: \{2_{001}\|\mathbf{m}_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\|\mathbf{m}_{010}\}$

$C_8: \{^d2_{001}\|\mathbf{m}_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$$m_{010}m^{m_{010}}m^{2_{001}}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{2_{001}||-1\}$$

$$C_4: \{2_{001}||m_{001}\}$$

$$C_5: \{^d1||1\}$$

$$C_6: \{^d1||2_{001}\}$$

$$C_7: \{^d2_{001}||-1\}$$

$$C_8: \{^d2_{001}||m_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$$2_{001}\mathbf{m}^1\mathbf{m}^2_{100}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|\mathbf{m}_{010}\}$$

$$C_3: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_4: \{2_{001}\|\mathbf{m}_{100}\}, \{^d2_{001}\|\mathbf{m}_{100}\}$$

$$C_5: \{2_{010}\|-1\}, \{^d2_{010}\|-1\}$$

$$C_6: \{2_{010}\|2_{010}\}, \{^d2_{010}\|2_{010}\}$$

$$C_7: \{2_{100}\|2_{100}\}, \{^d2_{100}\|2_{100}\}$$

$$C_8: \{2_{100}\|\mathbf{m}_{001}\}, \{^d2_{100}\|\mathbf{m}_{001}\}$$

$$C_9: \{^d1\|1\}$$

$$C_{10}: \{^d1\|\mathbf{m}_{010}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	1	-1
GM3	1	-1	-1	1	1	-1	1	-1	1	-1
GM4	1	-1	1	-1	-1	1	1	-1	1	-1
GM5	1	-1	1	-1	1	-1	-1	1	1	-1
GM6	1	1	-1	-1	-1	-1	1	1	1	1
GM7	1	1	-1	-1	1	1	-1	-1	1	1
GM8	1	1	1	1	-1	-1	-1	-1	1	1
<u>GM9</u>	2	2	0	0	0	0	0	0	-2	-2
<u>GM10</u>	2	-2	0	0	0	0	0	0	-2	2

$2_{001}\mathbf{m}^1\mathbf{m}^{-1}\mathbf{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|\mathbf{m}_{010}\}$

$C_3: \{2_{001}\|2_{001}\}$

$C_4: \{2_{001}\|\mathbf{m}_{100}\}$

$C_5: \{{}^d1\|1\}$

$C_6: \{{}^d1\|\mathbf{m}_{010}\}$

$C_7: \{{}^d2_{001}\|2_{001}\}$

$C_8: \{{}^d2_{001}\|\mathbf{m}_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
<u>GM5GM6</u>	2	-2	0	0	-2	2	0	0
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$m_{001}m^1m^{2001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|m_{010}\}$

$C_3: \{2_{001}\|2_{100}\}$

$C_4: \{2_{001}\|m_{001}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|m_{010}\}$

$C_7: \{^d2_{001}\|2_{100}\}$

$C_8: \{^d2_{001}\|m_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
<u>GM5GM6</u>	2	-2	0	0	-2	2	0	0
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$-1m^1m^m001m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||m_{010}\}$

$C_3: \{2_{001}||-1\}$

$C_4: \{2_{001}||2_{010}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||m_{010}\}$

$C_7: \{^d2_{001}||-1\}$

$C_8: \{^d2_{001}||2_{010}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
<u>GM5GM6</u>	2	-2	0	0	-2	2	0	0
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$2_{001}\mathbf{m}^1\mathbf{m}^{\mathbf{m}_{100}}\mathbf{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|\mathbf{m}_{010}\}$

$C_3: \{2_{001}\|2_{001}\}$

$C_4: \{2_{001}\|\mathbf{m}_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|\mathbf{m}_{010}\}$

$C_7: \{^d2_{001}\|2_{001}\}$

$C_8: \{^d2_{001}\|\mathbf{m}_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$m_{100}m^1m^{m_{010}}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||m_{010}\}$

$C_3: \{2_{001}||-1\}$

$C_4: \{2_{001}||2_{010}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||m_{010}\}$

$C_7: \{^d2_{001}||-1\}$

$C_8: \{^d2_{001}||2_{010}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$-1m^{-1}m^1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||m_{001}\}$
 $C_4: \{1||2_{001}\}$
 $C_5: \{^d1||1\}$
 $C_6: \{^d1||-1\}$
 $C_7: \{^d1||m_{001}\}$
 $C_8: \{^d1||2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5GM5}}$	2	-2	-2	2	-2	2	2	-2
$\overline{\text{GM6GM6}}$	2	-2	2	-2	-2	2	-2	2
$\overline{\text{GM7GM7}}$	2	2	-2	-2	-2	-2	2	2
$\overline{\text{GM8GM8}}$	2	2	2	2	-2	-2	-2	-2

$2_{001}\mathbf{m}2_{001}\mathbf{m}^1\mathbf{m}$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||\mathbf{m}_{001}\}$
 $C_4: \{1||2_{001}\}$
 $C_5: \{2_{001}||\mathbf{m}_{010}\}$
 $C_6: \{2_{001}||\mathbf{m}_{100}\}$
 $C_7: \{2_{001}||2_{010}\}$
 $C_8: \{2_{001}||2_{100}\}$
 $C_9: \{\mathbf{d}^1_1||1\}$
 $C_{10}: \{\mathbf{d}^1_1||-1\}$
 $C_{11}: \{\mathbf{d}^1_1||\mathbf{m}_{001}\}$
 $C_{12}: \{\mathbf{d}^1_1||2_{001}\}$
 $C_{13}: \{\mathbf{d}^2_{2001}||\mathbf{m}_{010}\}$
 $C_{14}: \{\mathbf{d}^2_{2001}||\mathbf{m}_{100}\}$
 $C_{15}: \{\mathbf{d}^2_{2001}||2_{010}\}$
 $C_{16}: \{\mathbf{d}^2_{2001}||2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1
GM3	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1
GM4	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1
GM5	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1
GM6	1	1	-1	-1	-1	1	-1	1	1	1	-1	-1	-1	1	-1	1
GM7	1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1
GM8	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM9	1	-1	-1	1	-i	-i	i	i	-1	1	1	-1	i	i	-i	-i
GM10	1	-1	-1	1	i	i	-i	-i	-1	1	1	-1	-i	-i	i	i
GM11	1	-1	1	-1	-i	i	i	-i	-1	1	-1	1	i	-i	-i	i
GM12	1	-1	1	-1	i	-i	-i	i	-1	1	-1	1	-i	i	i	-i
GM13	1	1	-1	-1	-i	i	-i	i	-1	-1	1	1	i	-i	i	-i
GM14	1	1	-1	-1	i	-i	i	-i	-1	-1	1	1	-i	i	-i	i
GM15	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
GM16	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i

$m_{001}m^{m_{001}}m^1m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||-1\}$

$C_3: \{1||m_{001}\}$

$C_4: \{1||2_{001}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||-1\}$

$C_7: \{^d1||m_{001}\}$

$C_8: \{^d1||2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM8}}$	1	1	1	1	-1	-1	-1	-1

$-1m^{-1}m^{-1}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|2_{010}\}$

$C_4: \{1\|2_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d1\|2_{010}\}$

$C_8: \{^d1\|2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5GM5}}$	2	-2	-2	2	-2	2	2	-2
$\overline{\text{GM6GM6}}$	2	-2	2	-2	-2	2	-2	2
$\overline{\text{GM7GM7}}$	2	2	-2	-2	-2	-2	2	2
$\overline{\text{GM8GM8}}$	2	2	2	2	-2	-2	-2	-2

$$2_{001}\mathbf{m}2_{001}\mathbf{m}2_{001}\mathbf{m}$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{1\|2_{010}\}$
 $C_4: \{1\|2_{100}\}$
 $C_5: \{2_{001}\| -1\}$
 $C_6: \{2_{001}\|\mathbf{m}_{001}\}$
 $C_7: \{2_{001}\|\mathbf{m}_{010}\}$
 $C_8: \{2_{001}\|\mathbf{m}_{100}\}$
 $C_9: \{{}^d1\|1\}$
 $C_{10}: \{{}^d1\|2_{001}\}$
 $C_{11}: \{{}^d1\|2_{010}\}$
 $C_{12}: \{{}^d1\|2_{100}\}$
 $C_{13}: \{{}^d2_{001}\| -1\}$
 $C_{14}: \{{}^d2_{001}\|\mathbf{m}_{001}\}$
 $C_{15}: \{{}^d2_{001}\|\mathbf{m}_{010}\}$
 $C_{16}: \{{}^d2_{001}\|\mathbf{m}_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1
GM3	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
GM4	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1
GM5	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM6	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1
GM7	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
GM8	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM9	1	-1	-1	1	-i	i	i	-i	-1	1	1	-1	i	-i	-i	i
GM10	1	-1	-1	1	i	-i	-i	i	-1	1	1	-1	-i	i	i	-i
GM11	1	-1	1	-1	-i	i	-i	i	-1	1	-1	1	i	-i	i	-i
GM12	1	-1	1	-1	i	-i	i	-i	-1	1	-1	1	-i	i	-i	i
GM13	1	1	-1	-1	-i	-i	i	i	-1	-1	1	1	i	i	-i	-i
GM14	1	1	-1	-1	i	i	-i	-i	-1	-1	1	1	-i	-i	i	i
GM15	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
GM16	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i

$m^{001}m^{m001}m^{m001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|2_{010}\}$

$C_4: \{1\|2_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d1\|2_{010}\}$

$C_8: \{^d1\|2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM8}}$	1	1	1	1	-1	-1	-1	-1

$1m1m^{-1}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{1||m_{010}\}$

$C_4: \{1||m_{100}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d1||m_{010}\}$

$C_8: \{^d1||m_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5GM5}}$	2	-2	-2	2	-2	2	2	-2
$\overline{\text{GM6GM6}}$	2	-2	2	-2	-2	2	-2	2
$\overline{\text{GM7GM7}}$	2	2	-2	-2	-2	-2	2	2
$\overline{\text{GM8GM8}}$	2	2	2	2	-2	-2	-2	-2

$1m1m2_{001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||m_{010}\}$
 $C_4: \{1||m_{100}\}$
 $C_5: \{2_{001}||-1\}$
 $C_6: \{2_{001}||2_{010}\}$
 $C_7: \{2_{001}||2_{100}\}$
 $C_8: \{2_{001}||m_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||2_{001}\}$
 $C_{11}: \{^d1||m_{010}\}$
 $C_{12}: \{^d1||m_{100}\}$
 $C_{13}: \{^d2_{001}||-1\}$
 $C_{14}: \{^d2_{001}||2_{010}\}$
 $C_{15}: \{^d2_{001}||2_{100}\}$
 $C_{16}: \{^d2_{001}||m_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1
GM3	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1
GM4	1	-1	1	-1	-1	-1	1	1	1	-1	1	-1	-1	-1	1	1
GM5	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	1	-1	-1
GM6	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	-1
GM7	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1
GM8	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM9	1	-1	-1	1	-i	i	-i	i	-1	1	1	-1	i	-i	i	-i
GM10	1	-1	-1	1	i	-i	i	-i	-1	1	1	-1	-i	i	-i	i
GM11	1	-1	1	-1	-i	-i	i	i	-1	1	-1	1	i	i	-i	-i
GM12	1	-1	1	-1	i	i	-i	-i	-1	1	-1	1	-i	-i	i	i
GM13	1	1	-1	-1	-i	i	i	-i	-1	-1	1	1	i	-i	-i	i
GM14	1	1	-1	-1	i	-i	-i	i	-1	-1	1	1	-i	i	i	-i
GM15	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
GM16	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i

$1_m 1_m m_{001} m$

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{1 \parallel 2_{001}\}$

$C_3: \{1 \parallel m_{010}\}$

$C_4: \{1 \parallel m_{100}\}$

$C_5: \{^d 1 \parallel 1\}$

$C_6: \{^d 1 \parallel 2_{001}\}$

$C_7: \{^d 1 \parallel m_{010}\}$

$C_8: \{^d 1 \parallel m_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM8}}$	1	1	1	1	-1	-1	-1	-1

$1m1m1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||m_{001}\}$
 $C_4: \{1||m_{010}\}$
 $C_5: \{1||m_{100}\}$
 $C_6: \{1||2_{001}\}$
 $C_7: \{1||2_{010}\}$
 $C_8: \{1||2_{100}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d1||m_{001}\}$
 $C_{12}: \{^d1||m_{010}\}$
 $C_{13}: \{^d1||m_{100}\}$
 $C_{14}: \{^d1||2_{001}\}$
 $C_{15}: \{^d1||2_{010}\}$
 $C_{16}: \{^d1||2_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1
GM3	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1
GM4	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM5	1	-1	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1
GM6	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1
GM7	1	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	-1	1	-1
GM8	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1
GM9	1	-1	-1	-1	-1	1	1	1	-1	1	1	1	1	-1	-1	-1
GM10	1	-1	-1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1
GM11	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1
GM12	1	-1	1	1	-1	-1	-1	1	-1	1	-1	-1	1	1	1	-1
GM13	1	1	-1	-1	1	-1	-1	1	-1	-1	1	1	-1	1	1	-1
GM14	1	1	-1	1	-1	-1	1	-1	-1	-1	1	-1	1	1	-1	1
GM15	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	1	1	-1	1	1
GM16	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1

4^1_{0014}

Classes:

- $C_1: \{1||1\}$
 $C_2: \{2_{001}||2_{001}\}$
 $C_3: \{4^1_{001}||4^1_{001}\}$
 $C_4: \{4^3_{001}||4^3_{001}\}$
 $C_5: \{^d1||1\}$
 $C_6: \{^d2_{001}||2_{001}\}$
 $C_7: \{^d4^1_{001}||4^1_{001}\}$
 $C_8: \{^d4^3_{001}||4^3_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	-i	θ^*	$-\theta$	-1	i	$-\theta^*$	θ
$\overline{\text{GM6}}$	1	-i	$-\theta^*$	θ	-1	i	θ^*	$-\theta$
$\overline{\text{GM7}}$	1	i	$-\theta$	θ^*	-1	-i	θ	$-\theta^*$
$\overline{\text{GM8}}$	1	i	θ	$-\theta^*$	-1	-i	$-\theta$	θ^*

$$-4^3_{0014}$$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel 2_{001}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d2_{001}\parallel 2_{001}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2GM2	2	-2	2	-2
GM3GM4	2	0	-2	0

-14

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{1\parallel 2_{001}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d1\parallel 2_{001}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2GM2	2	-2	2	-2
GM3	1	-1	-1	1
GM4GM4	2	2	-2	-2

2_{0014}

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||4_{001}^1\}$

$C_4: \{2_{001}||4_{001}^3\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d2_{001}||4_{001}^1\}$

$C_8: \{^d2_{001}||4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

m0014

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{^d1||1\}$

$C_4: \{^d1||2_{001}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2GM2	2	-2	2	-2
<u>GM3</u>	1	1	-1	-1
<u>GM4GM4</u>	2	-2	-2	2

Classes: $C_1: \{1||1\}$ $C_2: \{1||2_{001}\}$ $C_3: \{1||4_{001}^1\}$ $C_4: \{1||4_{001}^3\}$ $C_5: \{^d1||1\}$ $C_6: \{^d1||2_{001}\}$ $C_7: \{^d1||4_{001}^1\}$ $C_8: \{^d1||4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM6}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM7}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM8}}$	1	-1	i	-i	-1	1	-i	i

4_{001}^1 -4

Classes:

$C_1: \{1||1\}$

$C_2: \{2_{001}||2_{001}\}$

$C_3: \{4_{001}^1||-4_{001}^1\}$

$C_4: \{4_{001}^3||-4_{001}^3\}$

$C_5: \{^d1||1\}$

$C_6: \{^d2_{001}||2_{001}\}$

$C_7: \{^d4_{001}^1||-4_{001}^1\}$

$C_8: \{^d4_{001}^3||-4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	-i	θ^*	$-\theta$	-1	i	$-\theta^*$	θ
$\overline{\text{GM6}}$	1	-i	$-\theta^*$	θ	-1	i	θ^*	$-\theta$
$\overline{\text{GM7}}$	1	i	$-\theta$	θ^*	-1	-i	θ	$-\theta^*$
$\overline{\text{GM8}}$	1	i	θ	$-\theta^*$	-1	-i	$-\theta$	θ^*

$$-4^3_{001}-4$$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{2_{001}\parallel 2_{001}\}$

$C_3: \{^d1\parallel 1\}$

$C_4: \{^d2_{001}\parallel 2_{001}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2GM2	2	-2	2	-2
GM3GM4	2	0	-2	0

-1-4

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{^d1\|1\}$

$C_4: \{^d1\|2_{001}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2GM2	2	-2	2	-2
GM3	1	-1	-1	1
GM4GM4	2	2	-2	-2

$2_{001}\text{-}4$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\| - 4_{001}^1\}$

$C_4: \{2_{001}\| - 4_{001}^3\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\| - 4_{001}^1\}$

$C_8: \{^d2_{001}\| - 4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

m001-4

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{^d1||1\}$

$C_4: \{^d1||2_{001}\}$

Corep	C_1	C_2	C_3	C_4
GM1	1	1	1	1
GM2GM2	2	-2	2	-2
<u>GM3</u>	1	1	-1	-1
<u>GM4GM4</u>	2	-2	-2	2

1₋₄

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}

C₃: {1||-4₀₀₁³}

C₄: {1||-4₀₀₁¹}

C₅: {^d1||1}

C₆: {^d1||2₀₀₁}

C₇: {^d1||-4₀₀₁³}

C₈: {^d1||-4₀₀₁¹}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
<u>GM5</u>	1	1	-1	-1	-1	-1	1	1
<u>GM6</u>	1	1	1	1	-1	-1	-1	-1
<u>GM7</u>	1	-1	-i	i	-1	1	i	-i
<u>GM8</u>	1	-1	i	-i	-1	1	-i	i

$4^1_{001}4^{-1}_m$

Classes:

$C_1: \{1||1\}$

$C_2: \{2_{001}||2_{001}\}$

$C_3: \{4^1_{001}||4^1_{001}\}$

$C_4: \{4^3_{001}||4^3_{001}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d2_{001}||2_{001}\}$

$C_7: \{^d4^1_{001}||4^1_{001}\}$

$C_8: \{^d4^3_{001}||4^3_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5GM6}}$	2	0	$\sqrt{2}$	$-\sqrt{2}$	-2	0	$-\sqrt{2}$	$\sqrt{2}$
$\overline{\text{GM7GM8}}$	2	0	$-\sqrt{2}$	$\sqrt{2}$	-2	0	$\sqrt{2}$	$-\sqrt{2}$

$-4^3_{001}4/-^1m$

Classes:

$C_1: \{1||1\}$

$C_2: \{2_{001}||2_{001}\}$

$C_3: \{4^1_{001}||-4^1_{001}\}$

$C_4: \{4^3_{001}||-4^3_{001}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d2_{001}||2_{001}\}$

$C_7: \{^d4^1_{001}||-4^1_{001}\}$

$C_8: \{^d4^3_{001}||-4^3_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
GM5GM6	2	0	$\sqrt{2}$	$-\sqrt{2}$	-2	0	$-\sqrt{2}$	$\sqrt{2}$
GM7GM8	2	0	$-\sqrt{2}$	$\sqrt{2}$	-2	0	$\sqrt{2}$	$-\sqrt{2}$

$-4^3_{001}4/m001m$

Classes:

$C_1: \{1||1\}$

$C_2: \{2_{001}||2_{001}\}$

$C_3: \{4^1_{001}||-4^3_{001}\}$

$C_4: \{4^3_{001}||-4^1_{001}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d2_{001}||2_{001}\}$

$C_7: \{^d4^1_{001}||-4^3_{001}\}$

$C_8: \{^d4^3_{001}||-4^1_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5GM6}}$	2	0	$\sqrt{2}$	$-\sqrt{2}$	-2	0	$-\sqrt{2}$	$\sqrt{2}$
$\overline{\text{GM7GM8}}$	2	0	$-\sqrt{2}$	$\sqrt{2}$	-2	0	$\sqrt{2}$	$-\sqrt{2}$

$$4^3_{001}4/m001m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{2_{001}||2_{001}\}$$

$$C_3: \{4^1_{001}||4^3_{001}\}$$

$$C_4: \{4^3_{001}||4^1_{001}\}$$

$$C_5: \{^d1||1\}$$

$$C_6: \{^d2_{001}||2_{001}\}$$

$$C_7: \{^d4^1_{001}||4^3_{001}\}$$

$$C_8: \{^d4^3_{001}||4^1_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
<u>GM5GM6</u>	2	0	$\sqrt{2}$	$-\sqrt{2}$	-2	0	$-\sqrt{2}$	$\sqrt{2}$
<u>GM7GM8</u>	2	0	$-\sqrt{2}$	$\sqrt{2}$	-2	0	$\sqrt{2}$	$-\sqrt{2}$

$4^1_{001}4/2_{001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{2_{001}||m_{001}\}$
 $C_4: \{2_{001}||2_{001}\}$
 $C_5: \{4^1_{001}||4^1_{001}\}$
 $C_6: \{4^1_{001}||-4^1_{001}\}$
 $C_7: \{4^3_{001}||4^3_{001}\}$
 $C_8: \{4^3_{001}||-4^3_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d2_{001}||m_{001}\}$
 $C_{12}: \{^d2_{001}||2_{001}\}$
 $C_{13}: \{^d4^1_{001}||4^1_{001}\}$
 $C_{14}: \{^d4^1_{001}||-4^1_{001}\}$
 $C_{15}: \{^d4^3_{001}||4^3_{001}\}$
 $C_{16}: \{^d4^3_{001}||-4^3_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1
GM3	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	1	-1	-i	i	i	-i	1	-1	1	-1	-i	i	i	-i
GM6	1	-1	1	-1	i	-i	-i	i	1	-1	1	-1	i	-i	-i	i
GM7	1	1	-1	-1	-i	-i	i	i	1	1	-1	-1	-i	-i	i	i
GM8	1	1	-1	-1	i	i	-i	-i	1	1	-1	-1	i	i	-i	-i
<u>GM9</u>	1	-1	-i	i	$-\theta$	θ	θ^*	$-\theta^*$	-1	1	i	-i	θ	$-\theta$	$-\theta^*$	θ^*
<u>GM10</u>	1	-1	-i	i	θ	$-\theta$	$-\theta^*$	θ^*	-1	1	i	-i	$-\theta$	θ	θ^*	$-\theta^*$
<u>GM11</u>	1	-1	i	-i	θ^*	$-\theta^*$	$-\theta$	θ	-1	1	-i	i	$-\theta^*$	θ^*	θ	$-\theta$
<u>GM12</u>	1	-1	i	-i	$-\theta^*$	θ^*	θ	$-\theta$	-1	1	-i	i	θ^*	$-\theta^*$	$-\theta$	θ
<u>GM13</u>	1	1	-i	-i	θ^*	θ^*	$-\theta$	$-\theta$	-1	-1	i	i	$-\theta^*$	$-\theta^*$	θ	θ
<u>GM14</u>	1	1	-i	-i	$-\theta^*$	$-\theta^*$	θ	θ	-1	-1	i	i	θ^*	θ^*	$-\theta$	$-\theta$
<u>GM15</u>	1	1	i	i	$-\theta$	$-\theta$	θ^*	θ^*	-1	-1	-i	-i	θ	θ	$-\theta^*$	$-\theta^*$
<u>GM16</u>	1	1	i	i	θ	θ	$-\theta^*$	$-\theta^*$	-1	-1	-i	-i	$-\theta$	$-\theta$	θ^*	θ^*

$$-4^3_{0014}/2_{001m}$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||-1\}$$

$$C_3: \{2_{001}||m_{001}\}$$

$$C_4: \{2_{001}||2_{001}\}$$

$$C_5: \{^d1||1\}$$

$$C_6: \{^d1||-1\}$$

$$C_7: \{^d2_{001}||m_{001}\}$$

$$C_8: \{^d2_{001}||2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3GM3	2	-2	2	-2	2	-2	2	-2
GM4GM4	2	2	-2	-2	2	2	-2	-2
GM5GM6	2	-2	0	0	-2	2	0	0
GM7GM8	2	2	0	0	-2	-2	0	0

$2_{001}4/2_{010}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||4_{001}^1\}, \{^d2_{001}||4_{001}^1\}$

$C_4: \{2_{001}||4_{001}^3\}, \{^d2_{001}||4_{001}^3\}$

$C_5: \{2_{010}||-1\}, \{^d2_{010}||-1\}$

$C_6: \{2_{010}||m_{001}\}, \{^d2_{010}||m_{001}\}$

$C_7: \{2_{100}||-4_{001}^1\}, \{^d2_{100}||-4_{001}^1\}$

$C_8: \{2_{100}||-4_{001}^3\}, \{^d2_{100}||-4_{001}^3\}$

$C_9: \{^d1||1\}$

$C_{10}: \{^d1||2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	1	-1	-i	i	-1	1	i	-i	1	-1
GM6	1	-1	i	-i	-1	1	-i	i	1	-1
GM7	1	-1	-i	i	1	-1	-i	i	1	-1
GM8	1	-1	i	-i	1	-1	i	-i	1	-1
<u>GM9</u>	2	2	0	0	0	0	0	0	-2	-2
<u>GM10</u>	2	-2	0	0	0	0	0	0	-2	2

$2_{001}4/m_{001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|4_{001}^1\}$

$C_4: \{2_{001}\|4_{001}^3\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\|4_{001}^1\}$

$C_8: \{^d2_{001}\|4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7GM8}}$	2	2	0	0	-2	-2	0	0

$m\bar{0}014/-^1m$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{1\parallel 2_{001}\}$

$C_3: \{2_{001}\parallel -4_{001}^1\}$

$C_4: \{2_{001}\parallel -4_{001}^3\}$

$C_5: \{^d1\parallel 1\}$

$C_6: \{^d1\parallel 2_{001}\}$

$C_7: \{^d2_{001}\parallel -4_{001}^1\}$

$C_8: \{^d2_{001}\parallel -4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
<u>GM5GM5</u>	2	-2	-2	2	-2	2	2	-2
<u>GM6GM6</u>	2	-2	2	-2	-2	2	-2	2
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$-14/2_{001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\| -1\}$

$C_4: \{2_{001}\|m_{001}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\| -1\}$

$C_8: \{^d2_{001}\|m_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM3	2	-2	-2	2	2	-2	-2	2
GM4GM4	2	-2	2	-2	2	-2	2	-2
GM5GM6	2	-2	0	0	-2	2	0	0
GM7GM8	2	2	0	0	-2	-2	0	0

$2_{001}4/-^1m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||4_{001}^1\}$

$C_4: \{2_{001}||4_{001}^3\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d2_{001}||4_{001}^1\}$

$C_8: \{^d2_{001}||4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
<u>GM5GM5</u>	2	-2	-2	2	-2	2	2	-2
<u>GM6GM6</u>	2	-2	2	-2	-2	2	-2	2
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$m_{001}4/2_{001}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||-1\}$

$C_4: \{2_{001}||m_{001}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d2_{001}||-1\}$

$C_8: \{^d2_{001}||m_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM3	2	-2	-2	2	2	-2	-2	2
GM4GM4	2	-2	2	-2	2	-2	2	-2
GM5GM6	2	-2	0	0	-2	2	0	0
GM7GM8	2	2	0	0	-2	-2	0	0

$-14/m001m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||-4_{001}^1\}$

$C_4: \{2_{001}||-4_{001}^3\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d2_{001}||-4_{001}^1\}$

$C_8: \{^d2_{001}||-4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7GM8}}$	2	2	0	0	-2	-2	0	0

$2_{001}4/m_{010}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|4_{001}^1\}$

$C_4: \{2_{001}\|4_{001}^3\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\|4_{001}^1\}$

$C_8: \{^d2_{001}\|4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM6}}$	1	1	i	i	-1	-1	-i	-i
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

m₀₁₀4/m₁₀₀m

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}

C₃: {2₀₀₁|| - 4¹₀₀₁}

C₄: {2₀₀₁|| - 4³₀₀₁}

C₅: {^d1||1}

C₆: {^d1||2₀₀₁}

C₇: {^d2₀₀₁|| - 4¹₀₀₁}

C₈: {^d2₀₀₁|| - 4³₀₀₁}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM6}}$	1	1	i	i	-1	-1	-i	-i
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

$m_{100}4/2_{001}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||-1\}$

$C_4: \{2_{001}||m_{001}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d2_{001}||-1\}$

$C_8: \{^d2_{001}||m_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM3	2	-2	-2	2	2	-2	-2	2
GM4GM4	2	-2	2	-2	2	-2	2	-2
$\overline{\text{GM5}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM6}}$	1	1	i	i	-1	-1	-i	-i
$\overline{\text{GM7GM7}}$	2	-2	-2i	2i	-2	2	2i	-2i
$\overline{\text{GM8GM8}}$	2	-2	2i	-2i	-2	2	-2i	2i

$4^1_{001}4/1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||m_{001}\}$
 $C_3: \{2_{001}||-1\}$
 $C_4: \{2_{001}||2_{001}\}$
 $C_5: \{4^1_{001}||-4^3_{001}\}$
 $C_6: \{4^1_{001}||4^1_{001}\}$
 $C_7: \{4^3_{001}||-4^1_{001}\}$
 $C_8: \{4^3_{001}||4^3_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||m_{001}\}$
 $C_{11}: \{^d2_{001}||-1\}$
 $C_{12}: \{^d2_{001}||2_{001}\}$
 $C_{13}: \{^d4^1_{001}||-4^3_{001}\}$
 $C_{14}: \{^d4^1_{001}||4^1_{001}\}$
 $C_{15}: \{^d4^3_{001}||-4^1_{001}\}$
 $C_{16}: \{^d4^3_{001}||4^3_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1
GM3	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	1	-1	-i	i	i	-i	1	-1	1	-1	-i	i	i	-i
GM6	1	-1	1	-1	i	-i	-i	i	1	-1	1	-1	i	-i	-i	i
GM7	1	1	-1	-1	-i	-i	i	i	1	1	-1	-1	-i	-i	i	i
GM8	1	1	-1	-1	i	i	-i	-i	1	1	-1	-1	i	i	-i	-i
<u>GM9</u>	1	-1	-i	i	$-\theta$	θ	θ^*	$-\theta^*$	-1	1	i	-i	θ	$-\theta$	$-\theta^*$	θ^*
<u>GM10</u>	1	-1	-i	i	θ	$-\theta$	$-\theta^*$	θ^*	-1	1	i	-i	$-\theta$	θ	θ^*	$-\theta^*$
<u>GM11</u>	1	-1	i	-i	θ^*	$-\theta^*$	$-\theta$	θ	-1	1	-i	i	$-\theta^*$	θ^*	θ	$-\theta$
<u>GM12</u>	1	-1	i	-i	$-\theta^*$	θ^*	θ	$-\theta$	-1	1	-i	i	θ^*	$-\theta^*$	$-\theta$	θ
<u>GM13</u>	1	1	-i	-i	θ^*	θ^*	$-\theta$	$-\theta$	-1	-1	i	i	$-\theta^*$	$-\theta^*$	θ	θ
<u>GM14</u>	1	1	-i	-i	$-\theta^*$	$-\theta^*$	θ	θ	-1	-1	i	i	θ^*	θ^*	$-\theta$	$-\theta$
<u>GM15</u>	1	1	i	i	$-\theta$	$-\theta$	θ^*	θ^*	-1	-1	-i	-i	θ	θ	$-\theta^*$	$-\theta^*$
<u>GM16</u>	1	1	i	i	θ	θ	$-\theta^*$	$-\theta^*$	-1	-1	-i	-i	$-\theta$	$-\theta$	θ^*	θ^*

$-4^3_{0014/1m}$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||m_{001}\}$

$C_3: \{2_{001}||-1\}$

$C_4: \{2_{001}||2_{001}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||m_{001}\}$

$C_7: \{^d2_{001}||-1\}$

$C_8: \{^d2_{001}||2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3GM3	2	-2	2	-2	2	-2	2	-2
GM4GM4	2	2	-2	-2	2	2	-2	-2
GM5GM6	2	-2	0	0	-2	2	0	0
GM7GM8	2	2	0	0	-2	-2	0	0

$-14/1m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||-1\}$

$C_3: \{1||m_{001}\}$

$C_4: \{1||2_{001}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||-1\}$

$C_7: \{^d1||m_{001}\}$

$C_8: \{^d1||2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3GM3	2	-2	2	-2	2	-2	2	-2
GM4GM4	2	2	-2	-2	2	2	-2	-2
$\overline{\text{GM5}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM6}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM7GM7}}$	2	-2	-2	2	-2	2	2	-2
$\overline{\text{GM8GM8}}$	2	2	2	2	-2	-2	-2	-2

$2_{001}4/1m$

Classes:

- $C_1: \{1||1\}$
- $C_2: \{1||-1\}$
- $C_3: \{1||m_{001}\}$
- $C_4: \{1||2_{001}\}$
- $C_5: \{2_{001}||4_{001}^1\}$
- $C_6: \{2_{001}||4_{001}^3\}$
- $C_7: \{2_{001}||-4_{001}^1\}$
- $C_8: \{2_{001}||-4_{001}^3\}$
- $C_9: \{^d1||1\}$
- $C_{10}: \{^d1||-1\}$
- $C_{11}: \{^d1||m_{001}\}$
- $C_{12}: \{^d1||2_{001}\}$
- $C_{13}: \{^d2_{001}||4_{001}^1\}$
- $C_{14}: \{^d2_{001}||4_{001}^3\}$
- $C_{15}: \{^d2_{001}||-4_{001}^1\}$
- $C_{16}: \{^d2_{001}||-4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1
GM3	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	1	-1	-i	i	i	-i	1	-1	1	-1	-i	i	i	-i
GM6	1	-1	1	-1	i	-i	-i	i	1	-1	1	-1	i	-i	-i	i
GM7	1	1	-1	-1	-i	i	-i	i	1	1	-1	-1	-i	i	-i	i
GM8	1	1	-1	-1	i	-i	i	-i	1	1	-1	-1	i	-i	i	-i
<u>GM9</u>	1	-1	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1
<u>GM10</u>	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1
<u>GM11</u>	1	1	-1	-1	-1	1	-1	1	-1	-1	1	1	1	-1	1	-1
<u>GM12</u>	1	1	-1	-1	1	-1	1	-1	-1	-1	1	1	-1	1	-1	1
<u>GM13</u>	1	-1	-1	1	-i	-i	i	i	-1	1	1	-1	i	i	-i	-i
<u>GM14</u>	1	-1	-1	1	i	i	-i	-i	-1	1	1	-1	-i	-i	i	i
<u>GM15</u>	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
<u>GM16</u>	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i

$m_{001}4/1m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||-1\}$

$C_3: \{1||m_{001}\}$

$C_4: \{1||2_{001}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||-1\}$

$C_7: \{^d1||m_{001}\}$

$C_8: \{^d1||2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	-1	1
GM3GM3	2	-2	2	-2	2	-2	2	-2
GM4GM4	2	2	-2	-2	2	2	-2	-2
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM7GM7}}$	2	-2	2	-2	-2	2	-2	2
$\overline{\text{GM8GM8}}$	2	2	-2	-2	-2	-2	2	2

$1_4/-1_m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{1||4_{001}^1\}$

$C_4: \{1||4_{001}^3\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d1||4_{001}^1\}$

$C_8: \{^d1||4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5GM5}}$	2	2	-2	-2	-2	-2	2	2
$\overline{\text{GM6GM6}}$	2	2	2	2	-2	-2	-2	-2
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

$1_{4/2001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||4_{001}^1\}$
 $C_4: \{1||4_{001}^3\}$
 $C_5: \{2_{001}||-1\}$
 $C_6: \{2_{001}||-4_{001}^1\}$
 $C_7: \{2_{001}||-4_{001}^3\}$
 $C_8: \{2_{001}||m_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||2_{001}\}$
 $C_{11}: \{^d1||4_{001}^1\}$
 $C_{12}: \{^d1||4_{001}^3\}$
 $C_{13}: \{^d2_{001}||-1\}$
 $C_{14}: \{^d2_{001}||-4_{001}^1\}$
 $C_{15}: \{^d2_{001}||-4_{001}^3\}$
 $C_{16}: \{^d2_{001}||m_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	-1
GM3	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-i	i	-1	i	-i	1	1	-1	-i	i	-1	i	-i	1
GM6	1	-1	i	-i	-1	-i	i	1	1	-1	i	-i	-1	-i	i	1
GM7	1	-1	-i	i	1	-i	i	-1	1	-1	-i	i	1	-i	i	-1
GM8	1	-1	i	-i	1	i	-i	-1	1	-1	i	-i	1	i	-i	-1
<u>GM9</u>	1	-1	-i	i	-i	-1	1	i	-1	1	i	-i	i	1	-1	-i
<u>GM10</u>	1	-1	i	-i	i	-1	1	-i	-1	1	-i	i	-i	1	-1	i
<u>GM11</u>	1	-1	-i	i	i	1	-1	-i	-1	1	i	-i	-i	-1	1	i
<u>GM12</u>	1	-1	i	-i	-i	1	-1	i	-1	1	-i	i	i	-1	1	-i
<u>GM13</u>	1	1	-1	-1	-i	i	i	-i	-1	-1	1	1	i	-i	-i	i
<u>GM14</u>	1	1	-1	-1	i	-i	-i	i	-1	-1	1	1	-i	i	i	-i
<u>GM15</u>	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
<u>GM16</u>	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i

$14/m001m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|4_{001}^1\}$

$C_4: \{1\|4_{001}^3\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d1\|4_{001}^1\}$

$C_8: \{^d1\|4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM6}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

$-14/-1m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{1||-4_{001}^3\}$

$C_4: \{1||-4_{001}^1\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d1||-4_{001}^3\}$

$C_8: \{^d1||-4_{001}^1\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5GM5}}$	2	2	-2	-2	-2	-2	2	2
$\overline{\text{GM6GM6}}$	2	2	2	2	-2	-2	-2	-2
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

$2_{001}4/2_{001}m$

Classes:

- $C_1: \{1||1\}$
- $C_2: \{1||2_{001}\}$
- $C_3: \{1||-4_{001}^3\}$
- $C_4: \{1||-4_{001}^1\}$
- $C_5: \{2_{001}||4_{001}^3\}$
- $C_6: \{2_{001}||-1\}$
- $C_7: \{2_{001}||m_{001}\}$
- $C_8: \{2_{001}||4_{001}^1\}$
- $C_9: \{^d1||1\}$
- $C_{10}: \{^d1||2_{001}\}$
- $C_{11}: \{^d1||-4_{001}^3\}$
- $C_{12}: \{^d1||-4_{001}^1\}$
- $C_{13}: \{^d2_{001}||4_{001}^3\}$
- $C_{14}: \{^d2_{001}||-1\}$
- $C_{15}: \{^d2_{001}||m_{001}\}$
- $C_{16}: \{^d2_{001}||4_{001}^1\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	-1
GM3	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-i	i	-i	1	-1	i	1	-1	-i	i	-i	1	-1	i
GM6	1	-1	i	-i	i	1	-1	-i	1	-1	i	-i	i	1	-1	-i
GM7	1	-1	-i	i	i	-1	1	-i	1	-1	-i	i	i	-1	1	-i
GM8	1	-1	i	-i	-i	-1	1	i	1	-1	i	-i	-i	-1	1	i
<u>GM9</u>	1	-1	-i	i	-1	-i	i	1	-1	1	i	-i	1	i	-i	-1
<u>GM10</u>	1	-1	i	-i	-1	i	-i	1	-1	1	-i	i	1	-i	i	-1
<u>GM11</u>	1	-1	-i	i	1	i	-i	-1	-1	1	i	-i	-1	-i	i	1
<u>GM12</u>	1	-1	i	-i	1	-i	i	-1	-1	1	-i	i	-1	i	-i	1
<u>GM13</u>	1	1	-1	-1	-i	i	i	-i	-1	-1	1	1	i	-i	-i	i
<u>GM14</u>	1	1	-1	-1	i	-i	-i	i	-1	-1	1	1	-i	i	i	-i
<u>GM15</u>	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
<u>GM16</u>	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i

m0014/m001m

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{1\| - 4_{001}^3\}$
 $C_4: \{1\| - 4_{001}^1\}$
 $C_5: \{^d1\|1\}$
 $C_6: \{^d1\|2_{001}\}$
 $C_7: \{^d1\| - 4_{001}^3\}$
 $C_8: \{^d1\| - 4_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
GM5	1	1	-1	-1	-1	-1	1	1
GM6	1	1	1	1	-1	-1	-1	-1
GM7GM8	2	-2	0	0	-2	2	0	0

$14/1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||4_{001}^1\}$
 $C_3: \{1||4_{001}^3\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||m_{001}\}$
 $C_6: \{1||-4_{001}^1\}$
 $C_7: \{1||-4_{001}^3\}$
 $C_8: \{1||2_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||4_{001}^1\}$
 $C_{11}: \{^d1||4_{001}^3\}$
 $C_{12}: \{^d1||-1\}$
 $C_{13}: \{^d1||m_{001}\}$
 $C_{14}: \{^d1||-4_{001}^1\}$
 $C_{15}: \{^d1||-4_{001}^3\}$
 $C_{16}: \{^d1||2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1
GM3	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1
GM5	1	-i	i	-1	1	i	-i	-1	1	-i	i	-1	1	i	-i	-1
GM6	1	i	-i	-1	1	-i	i	-1	1	i	-i	-1	1	-i	i	-1
GM7	1	-i	i	1	-1	-i	i	-1	1	-i	i	1	-1	-i	i	-1
GM8	1	i	-i	1	-1	i	-i	-1	1	i	-i	1	-1	i	-i	-1
<u>GM9</u>	1	-1	-1	-1	-1	1	1	1	-1	1	1	1	1	-1	-1	-1
<u>GM10</u>	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1
<u>GM11</u>	1	1	1	-1	-1	-1	-1	1	-1	-1	-1	1	1	1	1	-1
<u>GM12</u>	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
<u>GM13</u>	1	-i	i	-1	1	i	-i	-1	-1	i	-i	1	-1	-i	i	1
<u>GM14</u>	1	i	-i	-1	1	-i	i	-1	-1	-i	i	1	-1	i	-i	1
<u>GM15</u>	1	-i	i	1	-1	-i	i	-1	-1	i	-i	-1	1	i	-i	1
<u>GM16</u>	1	i	-i	1	-1	i	-i	-1	-1	-i	i	-1	1	-i	i	1

$$4^1_{001}4^2_{110}2^2_{010}2$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|2_{110}\}, \{2_{100}\|2_{1-10}\}, \{^d2_{010}\|2_{110}\}, \{^d2_{100}\|2_{1-10}\}$$

$$C_4: \{2_{1-10}\|2_{010}\}, \{2_{110}\|2_{100}\}, \{^d2_{1-10}\|2_{010}\}, \{^d2_{110}\|2_{100}\}$$

$$C_5: \{4^1_{001}\|4^1_{001}\}, \{^d4^3_{001}\|4^3_{001}\}$$

$$C_6: \{4^3_{001}\|4^3_{001}\}, \{^d4^1_{001}\|4^1_{001}\}$$

$$C_7: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1
GM3	1	1	-1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	1
GM5	2	-2	0	0	0	0	2
$\overline{\text{GM6}}$	2	0	0	0	$-\sqrt{2}$	$\sqrt{2}$	-2
$\overline{\text{GM7}}$	2	0	0	0	$\sqrt{2}$	$-\sqrt{2}$	-2

$$4^1_{001}4^m_{-110}2^m_{100}2$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{2_{001}||2_{001}\}$$

$$C_3: \{4^1_{001}||4^1_{001}\}$$

$$C_4: \{4^3_{001}||4^3_{001}\}$$

$$C_5: \{^d1||1\}$$

$$C_6: \{^d2_{001}||2_{001}\}$$

$$C_7: \{^d4^1_{001}||4^1_{001}\}$$

$$C_8: \{^d4^3_{001}||4^3_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	-i	θ^*	$-\theta$	-1	i	$-\theta^*$	θ
$\overline{\text{GM6}}$	1	-i	$-\theta^*$	θ	-1	i	θ^*	$-\theta$
$\overline{\text{GM7}}$	1	i	$-\theta$	θ^*	-1	-i	θ	$-\theta^*$
$\overline{\text{GM8}}$	1	i	θ	$-\theta^*$	-1	-i	$-\theta$	θ^*

$$-4^3_{001}4^2_{110}2^m_{100}2$$

Classes:

$C_1: \{1||1\}$

$C_2: \{2_{001}||2_{001}\}, \{^d2_{001}||2_{001}\}$

$C_3: \{2_{1-10}||2_{010}\}, \{^d2_{1-10}||2_{010}\}$

$C_4: \{2_{110}||2_{100}\}, \{^d2_{110}||2_{100}\}$

$C_5: \{^d1||1\}$

Corep	C_1	C_2	C_3	C_4	C_5
GM1	1	1	1	1	1
GM2	1	1	-1	-1	1
GM3GM4	2	-2	0	0	2
$\overline{\text{GM5}}$	2	0	0	0	-2

$$2_{001}4^2_{010}2^2_{100}2$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{1 \parallel 2_{001}\}$$

$$C_3: \{2_{001} \parallel 4^1_{001}\}, \{^d 2_{001} \parallel 4^3_{001}\}$$

$$C_4: \{2_{001} \parallel 4^3_{001}\}, \{^d 2_{001} \parallel 4^1_{001}\}$$

$$C_5: \{2_{010} \parallel 2_{010}\}, \{^d 2_{010} \parallel 2_{100}\}$$

$$C_6: \{2_{010} \parallel 2_{100}\}, \{^d 2_{010} \parallel 2_{010}\}$$

$$C_7: \{2_{100} \parallel 2_{1-10}\}, \{^d 2_{100} \parallel 2_{110}\}$$

$$C_8: \{2_{100} \parallel 2_{110}\}, \{^d 2_{100} \parallel 2_{1-10}\}$$

$$C_9: \{^d 1 \parallel 1\}$$

$$C_{10}: \{^d 1 \parallel 2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
GM6	1	-1	-1	1	-i	i	-i	i	-1	1
GM7	1	-1	-1	1	i	-i	i	-i	-1	1
GM8	1	-1	1	-1	-i	i	i	-i	-1	1
GM9	1	-1	1	-1	i	-i	-i	i	-1	1
GM10	2	2	0	0	0	0	0	0	-2	-2

$m_{001}4^{-1}2^{2001}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|2_{1-10}\}$

$C_4: \{2_{001}\|2_{110}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\|2_{1-10}\}$

$C_8: \{^d2_{001}\|2_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
GM5GM5	2	-2	-2i	2i	-2	2	2i	-2i
GM6GM6	2	-2	2i	-2i	-2	2	-2i	2i
GM7GM8	2	2	0	0	-2	-2	0	0

$-1_4 2_{001} 2^m_{001} 2$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{1 \parallel 2_{001}\}$
 $C_3: \{2_{001} \parallel 2_{010}\}$
 $C_4: \{2_{001} \parallel 2_{100}\}$
 $C_5: \{^d 1 \parallel 1\}$
 $C_6: \{^d 1 \parallel 2_{001}\}$
 $C_7: \{^d 2_{001} \parallel 2_{010}\}$
 $C_8: \{^d 2_{001} \parallel 2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7GM8}}$	2	2	0	0	-2	-2	0	0

$2_{001}4^{-1}2^m_{001}2$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||4_{001}^1\}$

$C_4: \{2_{001}||4_{001}^3\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d2_{001}||4_{001}^1\}$

$C_8: \{^d2_{001}||4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5GM6}}$	2	-2	0	0	-2	2	0	0
$\overline{\text{GM7GM8}}$	2	2	0	0	-2	-2	0	0

$2_{001}4^m_{010}2^m_{100}2$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{1 \parallel 2_{001}\}$
 $C_3: \{2_{001} \parallel 4^1_{001}\}$
 $C_4: \{2_{001} \parallel 4^3_{001}\}$
 $C_5: \{^d1 \parallel 1\}$
 $C_6: \{^d1 \parallel 2_{001}\}$
 $C_7: \{^d2_{001} \parallel 4^1_{001}\}$
 $C_8: \{^d2_{001} \parallel 4^3_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$m_{100}4^2m_{001}2m_{010}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|2_{010}\}$

$C_4: \{2_{001}\|2_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\|2_{010}\}$

$C_8: \{^d2_{001}\|2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM6}}$	1	1	i	i	-1	-1	-i	-i
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

$-1_4 1_2 -1_2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|2_{010}\}$

$C_4: \{1\|2_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d1\|2_{010}\}$

$C_8: \{^d1\|2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
GM5GM5	2	2	-2	-2	-2	-2	2	2
GM6GM6	2	2	2	2	-2	-2	-2	-2
GM7GM8	2	-2	0	0	-2	2	0	0

$2_{001}4^12^2_{001}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|2_{010}\}, \{1\|2_{100}\}$

$C_4: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$

$C_5: \{2_{001}\|4^1_{001}\}, \{2_{001}\|4^3_{001}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}$

$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

$C_9: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$

$C_{10}: \{^d2_{001}\|4^1_{001}\}, \{^d2_{001}\|4^3_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-i	i	-1	-1	1	i	-i
<u>GM7</u>	1	1	-1	i	-i	-1	-1	1	-i	i
<u>GM8</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM9</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$m_{001}4^1_2m_{001}2$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{1\parallel 2_{001}\}$

$C_3: \{1\parallel 2_{010}\}$

$C_4: \{1\parallel 2_{100}\}$

$C_5: \{^d1\parallel 1\}$

$C_6: \{^d1\parallel 2_{001}\}$

$C_7: \{^d1\parallel 2_{010}\}$

$C_8: \{^d1\parallel 2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM6}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

$14\cdot 12\cdot 12$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{1||4_{001}^1\}$

$C_4: \{1||4_{001}^3\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d1||4_{001}^1\}$

$C_8: \{^d1||4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5GM5}}$	2	2	-2	-2	-2	-2	2	2
$\overline{\text{GM6GM6}}$	2	2	2	2	-2	-2	-2	-2
$\overline{\text{GM7GM7}}$	2	-2	-2i	2i	-2	2	2i	-2i
$\overline{\text{GM8GM8}}$	2	-2	2i	-2i	-2	2	-2i	2i

$$1_4 2_{001} 2_{001} 2$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{1 \parallel 2_{001}\}$$

$$C_3: \{1 \parallel 4_{001}^1\}, \{1 \parallel 4_{001}^3\}$$

$$C_4: \{2_{001} \parallel 2_{010}\}, \{2_{001} \parallel 2_{100}\}$$

$$C_5: \{2_{001} \parallel 2_{1-10}\}, \{2_{001} \parallel 2_{110}\}$$

$$C_6: \{^d 1 \parallel 1\}$$

$$C_7: \{^d 1 \parallel 2_{001}\}$$

$$C_8: \{^d 1 \parallel 4_{001}^1\}, \{^d 1 \parallel 4_{001}^3\}$$

$$C_9: \{^d 2_{001} \parallel 2_{010}\}, \{^d 2_{001} \parallel 2_{100}\}$$

$$C_{10}: \{^d 2_{001} \parallel 2_{1-10}\}, \{^d 2_{001} \parallel 2_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-i	i	-1	-1	1	i	-i
<u>GM7</u>	1	1	-1	i	-i	-1	-1	1	-i	i
<u>GM8</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM9</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$1_4 m_{001} 2 m_{001} 2$

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{1 \parallel 2_{001}\}$

$C_3: \{1 \parallel 4_{001}^1\}$

$C_4: \{1 \parallel 4_{001}^3\}$

$C_5: \{^d 1 \parallel 1\}$

$C_6: \{^d 1 \parallel 2_{001}\}$

$C_7: \{^d 1 \parallel 4_{001}^1\}$

$C_8: \{^d 1 \parallel 4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM6}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM7}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM8}}$	1	-1	i	-i	-1	1	-i	i

$1_4 1_2 1_2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|2_{010}\}, \{1\|2_{100}\}$

$C_4: \{1\|2_{1-10}\}, \{1\|2_{110}\}$

$C_5: \{1\|4_{001}^1\}, \{1\|4_{001}^3\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}$

$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

$C_9: \{^d1\|2_{1-10}\}, \{^d1\|2_{110}\}$

$C_{10}: \{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-1	1	-1	-1	1	1	-1
<u>GM7</u>	1	1	-1	1	-1	-1	-1	1	-1	1
<u>GM8</u>	1	1	1	-1	-1	-1	-1	-1	1	1
<u>GM9</u>	1	1	1	1	1	-1	-1	-1	-1	-1
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$$4^1_{001}4^2_{110}\mathbf{m}^2_{010}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|\mathbf{m}_{110}\}, \{2_{100}\|\mathbf{m}_{1-10}\}, \{^d2_{010}\|\mathbf{m}_{110}\}, \{^d2_{100}\|\mathbf{m}_{1-10}\}$$

$$C_4: \{2_{1-10}\|\mathbf{m}_{010}\}, \{2_{110}\|\mathbf{m}_{100}\}, \{^d2_{1-10}\|\mathbf{m}_{010}\}, \{^d2_{110}\|\mathbf{m}_{100}\}$$

$$C_5: \{4^1_{001}\|4^1_{001}\}, \{^d4^3_{001}\|4^3_{001}\}$$

$$C_6: \{4^3_{001}\|4^3_{001}\}, \{^d4^1_{001}\|4^1_{001}\}$$

$$C_7: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1
GM3	1	1	-1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	1
GM5	2	-2	0	0	0	0	2
$\overline{\text{GM6}}$	2	0	0	0	$-\sqrt{2}$	$\sqrt{2}$	-2
$\overline{\text{GM7}}$	2	0	0	0	$\sqrt{2}$	$-\sqrt{2}$	-2

$$4_{001}^1 4^{m-110} m^{m100} m$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{2_{001} \parallel 2_{001}\}$$

$$C_3: \{4_{001}^1 \parallel 4_{001}^1\}$$

$$C_4: \{4_{001}^3 \parallel 4_{001}^3\}$$

$$C_5: \{^d 1 \parallel 1\}$$

$$C_6: \{^d 2_{001} \parallel 2_{001}\}$$

$$C_7: \{^d 4_{001}^1 \parallel 4_{001}^1\}$$

$$C_8: \{^d 4_{001}^3 \parallel 4_{001}^3\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	-i	θ^*	$-\theta$	-1	i	$-\theta^*$	θ
$\overline{\text{GM6}}$	1	-i	$-\theta^*$	θ	-1	i	θ^*	$-\theta$
$\overline{\text{GM7}}$	1	i	$-\theta$	θ^*	-1	-i	θ	$-\theta^*$
$\overline{\text{GM8}}$	1	i	θ	$-\theta^*$	-1	-i	$-\theta$	θ^*

$$-4^3_{0014}m_{100}m^2_{-110}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{1-10}\|m_{110}\}, \{^d2_{1-10}\|m_{110}\}$$

$$C_4: \{2_{110}\|m_{1-10}\}, \{^d2_{110}\|m_{1-10}\}$$

$$C_5: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅
GM1	1	1	1	1	1
GM2	1	1	-1	-1	1
GM3GM4	2	-2	0	0	2
<u>GM5</u>	2	0	0	0	-2

$2_{001}4^2_{010}m^2_{100}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||4^1_{001}\}, \{^d2_{001}||4^3_{001}\}$

$C_4: \{2_{001}||4^3_{001}\}, \{^d2_{001}||4^1_{001}\}$

$C_5: \{2_{010}||m_{010}\}, \{^d2_{010}||m_{100}\}$

$C_6: \{2_{010}||m_{100}\}, \{^d2_{010}||m_{010}\}$

$C_7: \{2_{100}||m_{1-10}\}, \{^d2_{100}||m_{110}\}$

$C_8: \{2_{100}||m_{110}\}, \{^d2_{100}||m_{1-10}\}$

$C_9: \{^d1||1\}$

$C_{10}: \{^d1||2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
$\overline{\text{GM6}}$	1	-1	-1	1	-i	i	-i	i	-1	1
$\overline{\text{GM7}}$	1	-1	-1	1	i	-i	i	-i	-1	1
$\overline{\text{GM8}}$	1	-1	1	-1	-i	i	i	-i	-1	1
$\overline{\text{GM9}}$	1	-1	1	-1	i	-i	-i	i	-1	1
$\overline{\text{GM10}}$	2	2	0	0	0	0	0	0	-2	-2

$$-1_4 2_{001} m m_{001} m$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{1 \parallel 2_{001}\}$$

$$C_3: \{2_{001} \parallel m_{010}\}$$

$$C_4: \{2_{001} \parallel m_{100}\}$$

$$C_5: \{^d 1 \parallel 1\}$$

$$C_6: \{^d 1 \parallel 2_{001}\}$$

$$C_7: \{^d 2_{001} \parallel m_{010}\}$$

$$C_8: \{^d 2_{001} \parallel m_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7GM8}}$	2	2	0	0	-2	-2	0	0

$2_{001}4^{-1}m^{m001}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||4_{001}^1\}$

$C_4: \{2_{001}||4_{001}^3\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d2_{001}||4_{001}^1\}$

$C_8: \{^d2_{001}||4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5GM6}}$	2	-2	0	0	-2	2	0	0
$\overline{\text{GM7GM8}}$	2	2	0	0	-2	-2	0	0

$$m_{001}4^2_{001}m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{2_{001}\|m_{010}\}$$

$$C_4: \{2_{001}\|m_{100}\}$$

$$C_5: \{^d1\|1\}$$

$$C_6: \{^d1\|2_{001}\}$$

$$C_7: \{^d2_{001}\|m_{010}\}$$

$$C_8: \{^d2_{001}\|m_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
GM5GM5	2	-2	-2i	2i	-2	2	2i	-2i
GM6GM6	2	-2	2i	-2i	-2	2	-2i	2i
GM7GM8	2	2	0	0	-2	-2	0	0

$2_{001}4^m_{010}m^m_{100}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||4^1_{001}\}$

$C_4: \{2_{001}||4^3_{001}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d2_{001}||4^1_{001}\}$

$C_8: \{^d2_{001}||4^3_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$m_{100}4^2_{001}m^{m_{010}}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||m_{010}\}$

$C_4: \{2_{001}||m_{100}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d2_{001}||m_{010}\}$

$C_8: \{^d2_{001}||m_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM6}}$	1	1	i	i	-1	-1	-i	-i
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

$-14^1m^{-1}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{1||m_{010}\}$

$C_4: \{1||m_{100}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d1||m_{010}\}$

$C_8: \{^d1||m_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
GM5GM5	2	2	-2	-2	-2	-2	2	2
GM6GM6	2	2	2	2	-2	-2	-2	-2
GM7GM8	2	-2	0	0	-2	2	0	0

$2_{001}4^1m^{2_{001}}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|m_{010}\}, \{1\|m_{100}\}$

$C_4: \{2_{001}\|4_{001}^1\}, \{2_{001}\|4_{001}^3\}$

$C_5: \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{110}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}$

$C_8: \{^d1\|m_{010}\}, \{^d1\|m_{100}\}$

$C_9: \{^d2_{001}\|4_{001}^1\}, \{^d2_{001}\|4_{001}^3\}$

$C_{10}: \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-i	i	-1	-1	1	i	-i
<u>GM7</u>	1	1	-1	i	-i	-1	-1	1	-i	i
<u>GM8</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM9</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$m_{001}4^1m_{001}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{1||m_{010}\}$

$C_4: \{1||m_{100}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d1||m_{010}\}$

$C_8: \{^d1||m_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM6}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

$14^{-1}m^{-1}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{1||4_{001}^1\}$

$C_4: \{1||4_{001}^3\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d1||4_{001}^1\}$

$C_8: \{^d1||4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5GM5}}$	2	2	-2	-2	-2	-2	2	2
$\overline{\text{GM6GM6}}$	2	2	2	2	-2	-2	-2	-2
$\overline{\text{GM7GM7}}$	2	-2	-2i	2i	-2	2	2i	-2i
$\overline{\text{GM8GM8}}$	2	-2	2i	-2i	-2	2	-2i	2i

$1_4 2_{001} m 2_{001} m$

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{1 \parallel 2_{001}\}$

$C_3: \{1 \parallel 4_{001}^1\}, \{1 \parallel 4_{001}^3\}$

$C_4: \{2_{001} \parallel m_{010}\}, \{2_{001} \parallel m_{100}\}$

$C_5: \{2_{001} \parallel m_{1-10}\}, \{2_{001} \parallel m_{110}\}$

$C_6: \{^d 1 \parallel 1\}$

$C_7: \{^d 1 \parallel 2_{001}\}$

$C_8: \{^d 1 \parallel 4_{001}^1\}, \{^d 1 \parallel 4_{001}^3\}$

$C_9: \{^d 2_{001} \parallel m_{010}\}, \{^d 2_{001} \parallel m_{100}\}$

$C_{10}: \{^d 2_{001} \parallel m_{1-10}\}, \{^d 2_{001} \parallel m_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-i	i	-1	-1	1	i	-i
<u>GM7</u>	1	1	-1	i	-i	-1	-1	1	-i	i
<u>GM8</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM9</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$1_4 m_{001} m_{001} m_{001}$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{1||4_{001}^1\}$

$C_4: \{1||4_{001}^3\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d1||4_{001}^1\}$

$C_8: \{^d1||4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM6}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM7}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM8}}$	1	-1	i	-i	-1	1	-i	i

14^1m^1m

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|4_{001}^1\}, \{1\|4_{001}^3\}$

$C_4: \{1\|m_{010}\}, \{1\|m_{100}\}$

$C_5: \{1\|m_{1-10}\}, \{1\|m_{110}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}$

$C_8: \{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$

$C_9: \{^d1\|m_{010}\}, \{^d1\|m_{100}\}$

$C_{10}: \{^d1\|m_{1-10}\}, \{^d1\|m_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-1	1	-1	-1	1	1	-1
<u>GM7</u>	1	1	-1	1	-1	-1	-1	1	-1	1
<u>GM8</u>	1	1	1	-1	-1	-1	-1	-1	1	1
<u>GM9</u>	1	1	1	1	1	-1	-1	-1	-1	-1
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$$4_{001}^1 - 4_{2110}^2 2_{010} m$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{2_{001} \parallel 2_{001}\}, \{^d 2_{001} \parallel 2_{001}\}$$

$$C_3: \{2_{010} \parallel m_{110}\}, \{2_{100} \parallel m_{1-10}\}, \{^d 2_{010} \parallel m_{110}\}, \{^d 2_{100} \parallel m_{1-10}\}$$

$$C_4: \{2_{1-10} \parallel 2_{010}\}, \{2_{110} \parallel 2_{100}\}, \{^d 2_{1-10} \parallel 2_{010}\}, \{^d 2_{110} \parallel 2_{100}\}$$

$$C_5: \{4_{001}^1 \parallel -4_{001}^1\}, \{^d 4_{001}^3 \parallel -4_{001}^3\}$$

$$C_6: \{4_{001}^3 \parallel -4_{001}^3\}, \{^d 4_{001}^1 \parallel -4_{001}^1\}$$

$$C_7: \{^d 1 \parallel 1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1
GM3	1	1	-1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	1
GM5	2	-2	0	0	0	0	2
$\overline{\text{GM6}}$	2	0	0	0	$-\sqrt{2}$	$\sqrt{2}$	-2
$\overline{\text{GM7}}$	2	0	0	0	$\sqrt{2}$	$-\sqrt{2}$	-2

$$4_{001}^1 - 4_{-110}^m 2_{100}^m$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{2_{001} \parallel 2_{001}\}$$

$$C_3: \{4_{001}^1 \parallel -4_{001}^1\}$$

$$C_4: \{4_{001}^3 \parallel -4_{001}^3\}$$

$$C_5: \{^d1 \parallel 1\}$$

$$C_6: \{^d2_{001} \parallel 2_{001}\}$$

$$C_7: \{^d4_{001}^1 \parallel -4_{001}^1\}$$

$$C_8: \{^d4_{001}^3 \parallel -4_{001}^3\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	-i	θ^*	$-\theta$	-1	i	$-\theta^*$	θ
$\overline{\text{GM6}}$	1	-i	$-\theta^*$	θ	-1	i	θ^*	$-\theta$
$\overline{\text{GM7}}$	1	i	$-\theta$	θ^*	-1	-i	θ	$-\theta^*$
$\overline{\text{GM8}}$	1	i	θ	$-\theta^*$	-1	-i	$-\theta$	θ^*

$$-4^3_{001}-4^2_{110}2^m_{100}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{1-10}\|2_{010}\}, \{^d2_{1-10}\|2_{010}\}$$

$$C_4: \{2_{110}\|2_{100}\}, \{^d2_{110}\|2_{100}\}$$

$$C_5: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅
GM1	1	1	1	1	1
GM2	1	1	-1	-1	1
GM3GM4	2	-2	0	0	2
<u>GM5</u>	2	0	0	0	-2

$$-4^3_{001}-4^m_{100}2^{2-110}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{1-10}\|m_{110}\}, \{^d2_{1-10}\|m_{110}\}$$

$$C_4: \{2_{110}\|m_{1-10}\}, \{^d2_{110}\|m_{1-10}\}$$

$$C_5: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅
GM1	1	1	1	1	1
GM2	1	1	-1	-1	1
GM3GM4	2	-2	0	0	2
<u>GM5</u>	2	0	0	0	-2

$2_{001}\text{-}4^2_{010}2^2_{100}\text{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\| -4^1_{001}\}, \{\text{d}2_{001}\| -4^3_{001}\}$

$C_4: \{2_{001}\| -4^3_{001}\}, \{\text{d}2_{001}\| -4^1_{001}\}$

$C_5: \{2_{010}\|2_{010}\}, \{\text{d}2_{010}\|2_{100}\}$

$C_6: \{2_{010}\|2_{100}\}, \{\text{d}2_{010}\|2_{010}\}$

$C_7: \{2_{100}\|\text{m}_{1-10}\}, \{\text{d}2_{100}\|\text{m}_{110}\}$

$C_8: \{2_{100}\|\text{m}_{110}\}, \{\text{d}2_{100}\|\text{m}_{1-10}\}$

$C_9: \{\text{d}1\|1\}$

$C_{10}: \{\text{d}1\|2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
GM6	1	-1	-1	1	-i	i	-i	i	-1	1
GM7	1	-1	-1	1	i	-i	i	-i	-1	1
GM8	1	-1	1	-1	-i	i	i	-i	-1	1
GM9	1	-1	1	-1	i	-i	-i	i	-1	1
GM10	2	2	0	0	0	0	0	0	-2	-2

$2_{001}\text{-}4_{001}2^{-1}\text{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\| -4_{001}^1\}$

$C_4: \{2_{001}\| -4_{001}^3\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\| -4_{001}^1\}$

$C_8: \{^d2_{001}\| -4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5GM6}}$	2	-2	0	0	-2	2	0	0
$\overline{\text{GM7GM8}}$	2	2	0	0	-2	-2	0	0

$m_{001}\text{-}4^{-1}2^{2001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|m_{1-10}\}$

$C_4: \{2_{001}\|m_{110}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\|m_{1-10}\}$

$C_8: \{^d2_{001}\|m_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
GM5GM5	2	-2	-2i	2i	-2	2	2i	-2i
GM6GM6	2	-2	2i	-2i	-2	2	-2i	2i
GM7GM8	2	2	0	0	-2	-2	0	0

-1₄2⁰⁰¹2^{m001}m

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}

C₃: {2₀₀₁||2₀₁₀}

C₄: {2₀₀₁||2₁₀₀}

C₅: {^d1||1}

C₆: {^d1||2₀₀₁}

C₇: {^d2₀₀₁||2₀₁₀}

C₈: {^d2₀₀₁||2₁₀₀}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM6}}$	1	-1	i	-i	-1	1	-i	i
$\overline{\text{GM7GM8}}$	2	2	0	0	-2	-2	0	0

$2_{001}\text{-}4\text{-}12^{\text{m}001}\text{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\| -4_{001}^1\}$

$C_4: \{2_{001}\| -4_{001}^3\}$

$C_5: \{^{\text{d}}1\|1\}$

$C_6: \{^{\text{d}}1\|2_{001}\}$

$C_7: \{^{\text{d}}2_{001}\| -4_{001}^1\}$

$C_8: \{^{\text{d}}2_{001}\| -4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5GM6}}$	2	-2	0	0	-2	2	0	0
$\overline{\text{GM7GM8}}$	2	2	0	0	-2	-2	0	0

$m_{001} \cdot 4^{2_{001}} 2^{-1} m$

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{1 \parallel 2_{001}\}$

$C_3: \{2_{001} \parallel 2_{010}\}$

$C_4: \{2_{001} \parallel 2_{100}\}$

$C_5: \{^d1 \parallel 1\}$

$C_6: \{^d1 \parallel 2_{001}\}$

$C_7: \{^d2_{001} \parallel 2_{010}\}$

$C_8: \{^d2_{001} \parallel 2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
GM5GM5	2	-2	-2i	2i	-2	2	2i	-2i
GM6GM6	2	-2	2i	-2i	-2	2	-2i	2i
GM7GM8	2	2	0	0	-2	-2	0	0

-1₄m₀₀₁2²₀₀₁m

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}

C₃: {2₀₀₁||m₁₋₁₀}

C₄: {2₀₀₁||m₁₁₀}

C₅: {^d1||1}

C₆: {^d1||2₀₀₁}

C₇: {^d2₀₀₁||m₁₋₁₀}

C₈: {^d2₀₀₁||m₁₁₀}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
<u>GM5</u>	1	-1	-i	i	-1	1	i	-i
<u>GM6</u>	1	-1	i	-i	-1	1	-i	i
<u>GM7GM8</u>	2	2	0	0	-2	-2	0	0

$2_{001}\text{-}4^m_{010}2^m_{100}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\| - 4^1_{001}\}$

$C_4: \{2_{001}\| - 4^3_{001}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\| - 4^1_{001}\}$

$C_8: \{^d2_{001}\| - 4^3_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	-1	-1	1	-1	1	1	-1
$\overline{\text{GM6}}$	1	-1	1	-1	-1	1	-1	1
$\overline{\text{GM7}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM8}}$	1	1	i	i	-1	-1	-i	-i

$m_{010}\text{-}4m_{100}2^{2001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|m_{1-10}\}$

$C_4: \{2_{001}\|m_{110}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d2_{001}\|m_{1-10}\}$

$C_8: \{^d2_{001}\|m_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM6}}$	1	1	i	i	-1	-1	-i	-i
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

$m_{100}4^{2001}2^{m_{010}m}$

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{1 \parallel 2_{001}\}$

$C_3: \{2_{001} \parallel 2_{010}\}$

$C_4: \{2_{001} \parallel 2_{100}\}$

$C_5: \{^d1 \parallel 1\}$

$C_6: \{^d1 \parallel 2_{001}\}$

$C_7: \{^d2_{001} \parallel 2_{010}\}$

$C_8: \{^d2_{001} \parallel 2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	1	-i	-i	-1	-1	i	i
$\overline{\text{GM6}}$	1	1	i	i	-1	-1	-i	-i
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

$-1-4^12^{-1}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|2_{010}\}$

$C_4: \{1\|2_{100}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d1\|2_{010}\}$

$C_8: \{^d1\|2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
GM5GM5	2	2	-2	-2	-2	-2	2	2
GM6GM6	2	2	2	2	-2	-2	-2	-2
GM7GM8	2	-2	0	0	-2	2	0	0

$2_{001}\text{-}4^12_{001}\text{m}$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}$

C_3 : $\{1\|2_{010}\}, \{1\|2_{100}\}$

C_4 : $\{2_{001}\| - 4^1_{001}\}, \{2_{001}\| - 4^3_{001}\}$

C_5 : $\{2_{001}\|\mathbf{m}_{1-10}\}, \{2_{001}\|\mathbf{m}_{110}\}$

C_6 : $\{^d1\|1\}$

C_7 : $\{^d1\|2_{001}\}$

C_8 : $\{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

C_9 : $\{^d2_{001}\| - 4^1_{001}\}, \{^d2_{001}\| - 4^3_{001}\}$

C_{10} : $\{^d2_{001}\|\mathbf{m}_{1-10}\}, \{^d2_{001}\|\mathbf{m}_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-i	i	-1	-1	1	i	-i
<u>GM7</u>	1	1	-1	i	-i	-1	-1	1	-i	i
<u>GM8</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM9</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$m_{001} - 4^1 2^{m_{001} m}$

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{1 \parallel 2_{001}\}$

$C_3: \{1 \parallel 2_{010}\}$

$C_4: \{1 \parallel 2_{100}\}$

$C_5: \{^d 1 \parallel 1\}$

$C_6: \{^d 1 \parallel 2_{001}\}$

$C_7: \{^d 1 \parallel 2_{010}\}$

$C_8: \{^d 1 \parallel 2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM6}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

$-1-4^{-1}2^1m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{1||m_{1-10}\}$

$C_4: \{1||m_{110}\}$

$C_5: \{^d1||1\}$

$C_6: \{^d1||2_{001}\}$

$C_7: \{^d1||m_{1-10}\}$

$C_8: \{^d1||m_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
GM5GM5	2	2	-2	-2	-2	-2	2	2
GM6GM6	2	2	2	2	-2	-2	-2	-2
GM7GM8	2	-2	0	0	-2	2	0	0

$2_{001}\text{-}4^1_{2001}2^1_m$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}$

C_3 : $\{1\|m_{1-10}\}, \{1\|m_{110}\}$

C_4 : $\{2_{001}\| - 4^1_{001}\}, \{2_{001}\| - 4^3_{001}\}$

C_5 : $\{2_{001}\|2_{010}\}, \{2_{001}\|2_{100}\}$

C_6 : $\{^d1\|1\}$

C_7 : $\{^d1\|2_{001}\}$

C_8 : $\{^d1\|m_{1-10}\}, \{^d1\|m_{110}\}$

C_9 : $\{^d2_{001}\| - 4^1_{001}\}, \{^d2_{001}\| - 4^3_{001}\}$

C_{10} : $\{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
GM6	1	1	-1	-i	i	-1	-1	1	i	-i
GM7	1	1	-1	i	-i	-1	-1	1	-i	i
GM8	1	1	1	-i	-i	-1	-1	-1	i	i
GM9	1	1	1	i	i	-1	-1	-1	-i	-i
GM10	2	-2	0	0	0	-2	2	0	0	0

$m_{001} - 4m_{001} 2^1 m$

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{1 \parallel 2_{001}\}$

$C_3: \{1 \parallel m_{1-10}\}$

$C_4: \{1 \parallel m_{110}\}$

$C_5: \{^d 1 \parallel 1\}$

$C_6: \{^d 1 \parallel 2_{001}\}$

$C_7: \{^d 1 \parallel m_{1-10}\}$

$C_8: \{^d 1 \parallel m_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3GM4	2	-2	0	0	2	-2	0	0
$\overline{\text{GM5}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM6}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM7GM8}}$	2	-2	0	0	-2	2	0	0

$1\text{-}4\text{-}12\text{-}1\text{m}$

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{1\parallel 2_{001}\}$

$C_3: \{1\parallel -4_{001}^3\}$

$C_4: \{1\parallel -4_{001}^1\}$

$C_5: \{^d1\parallel 1\}$

$C_6: \{^d1\parallel 2_{001}\}$

$C_7: \{^d1\parallel -4_{001}^3\}$

$C_8: \{^d1\parallel -4_{001}^1\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5GM5}}$	2	2	-2	-2	-2	-2	2	2
$\overline{\text{GM6GM6}}$	2	2	2	2	-2	-2	-2	-2
$\overline{\text{GM7GM7}}$	2	-2	-2i	2i	-2	2	2i	-2i
$\overline{\text{GM8GM8}}$	2	-2	2i	-2i	-2	2	-2i	2i

$1_{-4}2_{001}2_{001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\| - 4_{001}^3\}, \{1\| - 4_{001}^1\}$

$C_4: \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{110}\}$

$C_5: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{010}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}$

$C_8: \{^d1\| - 4_{001}^3\}, \{^d1\| - 4_{001}^1\}$

$C_9: \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{110}\}$

$C_{10}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{010}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-i	i	-1	-1	1	i	-i
<u>GM7</u>	1	1	-1	i	-i	-1	-1	1	-i	i
<u>GM8</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM9</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$1_{-4}m_{001}2_{m001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\| -4_{001}^3\}$

$C_4: \{1\| -4_{001}^1\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}$

$C_7: \{^d1\| -4_{001}^3\}$

$C_8: \{^d1\| -4_{001}^1\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	-i	i	1	-1	-i	i
GM4	1	-1	i	-i	1	-1	i	-i
$\overline{\text{GM5}}$	1	1	-1	-1	-1	-1	1	1
$\overline{\text{GM6}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM7}}$	1	-1	-i	i	-1	1	i	-i
$\overline{\text{GM8}}$	1	-1	i	-i	-1	1	-i	i

$1_{-4}1_21_m$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}$

C_3 : $\{1\| - 4_{001}^3\}$, $\{1\| - 4_{001}^1\}$

C_4 : $\{1\|m_{1-10}\}$, $\{1\|m_{110}\}$

C_5 : $\{1\|2_{100}\}$, $\{1\|2_{010}\}$

C_6 : $\{^d1\|1\}$

C_7 : $\{^d1\|2_{001}\}$

C_8 : $\{^d1\| - 4_{001}^3\}$, $\{^d1\| - 4_{001}^1\}$

C_9 : $\{^d1\|m_{1-10}\}$, $\{^d1\|m_{110}\}$

C_{10} : $\{^d1\|2_{100}\}$, $\{^d1\|2_{010}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-1	1	-1	-1	1	1	-1
<u>GM7</u>	1	1	-1	1	-1	-1	-1	1	-1	1
<u>GM8</u>	1	1	1	-1	-1	-1	-1	-1	1	1
<u>GM9</u>	1	1	1	1	1	-1	-1	-1	-1	-1
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$$4^1_{001}4^{-1}\mathbf{m}^2_{010}\mathbf{m}^2_{-110}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|\mathbf{m}_{100}\}, \{2_{100}\|\mathbf{m}_{010}\}, \{^d2_{010}\|\mathbf{m}_{100}\}, \{^d2_{100}\|\mathbf{m}_{010}\}$$

$$C_4: \{2_{1-10}\|\mathbf{m}_{110}\}, \{2_{110}\|\mathbf{m}_{1-10}\}, \{^d2_{1-10}\|\mathbf{m}_{110}\}, \{^d2_{110}\|\mathbf{m}_{1-10}\}$$

$$C_5: \{4^1_{001}\|4^1_{001}\}, \{^d4^3_{001}\|4^3_{001}\}$$

$$C_6: \{4^3_{001}\|4^3_{001}\}, \{^d4^1_{001}\|4^1_{001}\}$$

$$C_7: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1
GM3	1	1	-1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	1
GM5	2	-2	0	0	0	0	2
$\overline{\text{GM6}}$	2	0	0	0	$-\sqrt{2}$	$\sqrt{2}$	-2
$\overline{\text{GM7}}$	2	0	0	0	$\sqrt{2}$	$-\sqrt{2}$	-2

$$4^1_{001}4^{-1}_m m_{100} m_{110} m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|2_{100}\}, \{2_{100}\|2_{010}\}, \{^d2_{010}\|2_{100}\}, \{^d2_{100}\|2_{010}\}$$

$$C_4: \{2_{1-10}\|2_{110}\}, \{2_{110}\|2_{1-10}\}, \{^d2_{1-10}\|2_{110}\}, \{^d2_{110}\|2_{1-10}\}$$

$$C_5: \{4^1_{001}\|4^1_{001}\}, \{^d4^3_{001}\|4^3_{001}\}$$

$$C_6: \{4^3_{001}\|4^3_{001}\}, \{^d4^1_{001}\|4^1_{001}\}$$

$$C_7: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1
GM3	1	1	-1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	1
GM5	2	-2	0	0	0	0	2
$\overline{\text{GM6}}$	2	0	0	0	$-\sqrt{2}$	$\sqrt{2}$	-2
$\overline{\text{GM7}}$	2	0	0	0	$\sqrt{2}$	$-\sqrt{2}$	-2

$$-4^3_{001}4^{-1}\mathbf{m}^{\mathbf{m}_{100}}\mathbf{m}^{2\cdot\mathbf{110}}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{\mathbf{d}2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|2_{100}\}, \{2_{100}\|2_{010}\}, \{\mathbf{d}2_{010}\|2_{100}\}, \{\mathbf{d}2_{100}\|2_{010}\}$$

$$C_4: \{2_{1-10}\|\mathbf{m}_{110}\}, \{2_{110}\|\mathbf{m}_{1-10}\}, \{\mathbf{d}2_{1-10}\|\mathbf{m}_{110}\}, \{\mathbf{d}2_{110}\|\mathbf{m}_{1-10}\}$$

$$C_5: \{4^1_{001}\| - 4^1_{001}\}, \{\mathbf{d}4^3_{001}\| - 4^3_{001}\}$$

$$C_6: \{4^3_{001}\| - 4^3_{001}\}, \{\mathbf{d}4^1_{001}\| - 4^1_{001}\}$$

$$C_7: \{\mathbf{d}1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1
GM3	1	1	-1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	1
GM5	2	-2	0	0	0	0	2
$\overline{\text{GM6}}$	2	0	0	0	$-\sqrt{2}$	$\sqrt{2}$	-2
$\overline{\text{GM7}}$	2	0	0	0	$\sqrt{2}$	$-\sqrt{2}$	-2

$$4_{001}^1 4/m_{001} m^2_{100} m^2_{110} m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|m_{010}\}, \{2_{100}\|m_{100}\}, \{^d2_{010}\|m_{010}\}, \{^d2_{100}\|m_{100}\}$$

$$C_4: \{2_{1-10}\|m_{1-10}\}, \{2_{110}\|m_{110}\}, \{^d2_{1-10}\|m_{1-10}\}, \{^d2_{110}\|m_{110}\}$$

$$C_5: \{4_{001}^1\|4_{001}^1\}, \{^d4_{001}^3\|4_{001}^3\}$$

$$C_6: \{4_{001}^3\|4_{001}^3\}, \{^d4_{001}^1\|4_{001}^1\}$$

$$C_7: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1
GM3	1	1	-1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	1
GM5	2	-2	0	0	0	0	2
$\overline{\text{GM6}}$	2	0	0	0	$-\sqrt{2}$	$\sqrt{2}$	-2
$\overline{\text{GM7}}$	2	0	0	0	$\sqrt{2}$	$-\sqrt{2}$	-2

$$4^1_{001}4/m_{001}m_{010}m_{-110}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|2_{100}\}, \{2_{100}\|2_{010}\}, \{^d2_{010}\|2_{100}\}, \{^d2_{100}\|2_{010}\}$$

$$C_4: \{2_{1-10}\|2_{110}\}, \{2_{110}\|2_{1-10}\}, \{^d2_{1-10}\|2_{110}\}, \{^d2_{110}\|2_{1-10}\}$$

$$C_5: \{4^1_{001}\|4^1_{001}\}, \{^d4^3_{001}\|4^3_{001}\}$$

$$C_6: \{4^3_{001}\|4^3_{001}\}, \{^d4^1_{001}\|4^1_{001}\}$$

$$C_7: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1
GM3	1	1	-1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	1
GM5	2	-2	0	0	0	0	2
$\overline{\text{GM6}}$	2	0	0	0	$-\sqrt{2}$	$\sqrt{2}$	-2
$\overline{\text{GM7}}$	2	0	0	0	$\sqrt{2}$	$-\sqrt{2}$	-2

$$-4_{001}^3 4/m_{001} m_{010} m_{110}^2 m$$

Classes:

C₁: {1||1}

C₂: {2₀₀₁||2₀₀₁}, {^d2₀₀₁||2₀₀₁}

C₃: {2₀₁₀||2₁₀₀}, {2₁₀₀||2₀₁₀}, {^d2₀₁₀||2₁₀₀}, {^d2₁₀₀||2₀₁₀}

C₄: {2₁₋₁₀||m₁₋₁₀}, {2₁₁₀||m₁₁₀}, {^d2₁₋₁₀||m₁₋₁₀}, {^d2₁₁₀||m₁₁₀}

C₅: {4₀₀₁¹||-4₀₀₁³}, {^d4₀₀₁³||-4₀₀₁¹}

C₆: {4₀₀₁³||-4₀₀₁¹}, {^d4₀₀₁¹||-4₀₀₁³}

C₇: {^d1||1}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1
GM3	1	1	-1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	1
GM5	2	-2	0	0	0	0	2
<u>GM6</u>	2	0	0	0	-√2	√2	-2
<u>GM7</u>	2	0	0	0	√2	-√2	-2

$$4_{001}^1 4/2_{001} m^2_{110} m^2_{010} m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{2_{001}||m_{001}\}, \{^d2_{001}||m_{001}\}$
 $C_4: \{2_{001}||2_{001}\}, \{^d2_{001}||2_{001}\}$
 $C_5: \{2_{010}||m_{110}\}, \{2_{100}||m_{1-10}\}, \{^d2_{010}||m_{110}\}, \{^d2_{100}||m_{1-10}\}$
 $C_6: \{2_{010}||2_{110}\}, \{2_{100}||2_{1-10}\}, \{^d2_{010}||2_{110}\}, \{^d2_{100}||2_{1-10}\}$
 $C_7: \{2_{1-10}||m_{010}\}, \{2_{110}||m_{100}\}, \{^d2_{1-10}||m_{010}\}, \{^d2_{110}||m_{100}\}$
 $C_8: \{2_{1-10}||2_{010}\}, \{2_{110}||2_{100}\}, \{^d2_{1-10}||2_{010}\}, \{^d2_{110}||2_{100}\}$
 $C_9: \{4_{001}^1||4_{001}^1\}, \{^d4_{001}^3||4_{001}^3\}$
 $C_{10}: \{4_{001}^1||-4_{001}^1\}, \{^d4_{001}^3||-4_{001}^3\}$
 $C_{11}: \{4_{001}^3||4_{001}^3\}, \{^d4_{001}^1||4_{001}^1\}$
 $C_{12}: \{4_{001}^3||-4_{001}^3\}, \{^d4_{001}^1||-4_{001}^1\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||-1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1
GM3	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1
GM4	1	-1	-1	1	1	-1	-1	1	-1	1	-1	1	1	-1
GM5	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1
GM6	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM7	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1
GM9	2	-2	2	-2	0	0	0	0	0	0	0	0	2	-2
GM10	2	2	-2	-2	0	0	0	0	0	0	0	0	2	2
$\overline{\text{GM11}}$	2	-2	0	0	0	0	0	0	$-\sqrt{2}$	$\sqrt{2}$	$\sqrt{2}$	$-\sqrt{2}$	-2	2
$\overline{\text{GM12}}$	2	-2	0	0	0	0	0	0	$\sqrt{2}$	$-\sqrt{2}$	$-\sqrt{2}$	$\sqrt{2}$	-2	2
$\overline{\text{GM13}}$	2	2	0	0	0	0	0	0	$-\sqrt{2}$	$-\sqrt{2}$	$\sqrt{2}$	$\sqrt{2}$	-2	-2
$\overline{\text{GM14}}$	2	2	0	0	0	0	0	0	$\sqrt{2}$	$\sqrt{2}$	$-\sqrt{2}$	$-\sqrt{2}$	-2	-2

$$4^1_{001}4/2_{001}m^m\cdot 110m^m100m$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|-1\}$
 $C_3: \{2_{001}\|m_{001}\}$
 $C_4: \{2_{001}\|2_{001}\}$
 $C_5: \{4^1_{001}\|4^1_{001}\}$
 $C_6: \{4^1_{001}\|-4^1_{001}\}$
 $C_7: \{4^3_{001}\|4^3_{001}\}$
 $C_8: \{4^3_{001}\|-4^3_{001}\}$
 $C_9: \{^d1\|1\}$
 $C_{10}: \{^d1\|-1\}$
 $C_{11}: \{^d2_{001}\|m_{001}\}$
 $C_{12}: \{^d2_{001}\|2_{001}\}$
 $C_{13}: \{^d4^1_{001}\|4^1_{001}\}$
 $C_{14}: \{^d4^1_{001}\|-4^1_{001}\}$
 $C_{15}: \{^d4^3_{001}\|4^3_{001}\}$
 $C_{16}: \{^d4^3_{001}\|-4^3_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1
GM3	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	1	-1	-i	i	i	-i	1	-1	1	-1	-i	i	i	-i
GM6	1	-1	1	-1	i	-i	-i	i	1	-1	1	-1	i	-i	-i	i
GM7	1	1	-1	-1	-i	-i	i	i	1	1	-1	-1	-i	-i	i	i
GM8	1	1	-1	-1	i	i	-i	-i	1	1	-1	-1	i	i	-i	-i
<u>GM9</u>	1	-1	-i	i	$-\theta$	θ	θ^*	$-\theta^*$	-1	1	i	-i	θ	$-\theta$	$-\theta^*$	θ^*
<u>GM10</u>	1	-1	-i	i	θ	$-\theta$	$-\theta^*$	θ^*	-1	1	i	-i	$-\theta$	θ	θ^*	$-\theta^*$
<u>GM11</u>	1	-1	i	-i	θ^*	$-\theta^*$	$-\theta$	θ	-1	1	-i	i	$-\theta^*$	θ^*	θ	$-\theta$
<u>GM12</u>	1	-1	i	-i	$-\theta^*$	θ^*	θ	$-\theta$	-1	1	-i	i	θ^*	$-\theta^*$	$-\theta$	θ
<u>GM13</u>	1	1	-i	-i	θ^*	θ^*	$-\theta$	$-\theta$	-1	-1	i	i	$-\theta^*$	$-\theta^*$	θ	θ
<u>GM14</u>	1	1	-i	-i	$-\theta^*$	$-\theta^*$	θ	θ	-1	-1	i	i	θ^*	θ^*	$-\theta$	$-\theta$
<u>GM15</u>	1	1	i	i	$-\theta$	$-\theta$	θ^*	θ^*	-1	-1	-i	-i	θ	θ	$-\theta^*$	$-\theta^*$
<u>GM16</u>	1	1	i	i	θ	θ	$-\theta^*$	$-\theta^*$	-1	-1	-i	-i	$-\theta$	$-\theta$	θ^*	θ^*

$$-4^3_{0014}/2_{001}\mathbf{m}^{\mathbf{m}_{100}}\mathbf{m}^{2\cdot 110}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\| - 1\}$$

$$C_3: \{2_{001}\|\mathbf{m}_{001}\}, \{\mathbf{d}2_{001}\|\mathbf{m}_{001}\}$$

$$C_4: \{2_{001}\|2_{001}\}, \{\mathbf{d}2_{001}\|2_{001}\}$$

$$C_5: \{2_{1-10}\|\mathbf{m}_{110}\}, \{\mathbf{d}2_{1-10}\|\mathbf{m}_{110}\}$$

$$C_6: \{2_{1-10}\|2_{110}\}, \{\mathbf{d}2_{1-10}\|2_{110}\}$$

$$C_7: \{2_{110}\|\mathbf{m}_{1-10}\}, \{\mathbf{d}2_{110}\|\mathbf{m}_{1-10}\}$$

$$C_8: \{2_{110}\|2_{1-10}\}, \{\mathbf{d}2_{110}\|2_{1-10}\}$$

$$C_9: \{\mathbf{d}1\|1\}$$

$$C_{10}: \{\mathbf{d}1\| - 1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	1	-1
GM3	1	-1	-1	1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5GM6	2	-2	2	-2	0	0	0	0	2	-2
GM7GM8	2	2	-2	-2	0	0	0	0	2	2
<u>GM9</u>	2	2	0	0	0	0	0	0	-2	-2
<u>GM10</u>	2	-2	0	0	0	0	0	0	-2	2

$$-1/4 \cdot 2_{001} m^2_{100} m^{m_{100}} m$$

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{1 \parallel 2_{001}\}$

$C_3: \{2_{001} \parallel -1\}, \{^d 2_{001} \parallel -1\}$

$C_4: \{2_{001} \parallel m_{001}\}, \{^d 2_{001} \parallel m_{001}\}$

$C_5: \{2_{010} \parallel 2_{010}\}, \{^d 2_{010} \parallel 2_{010}\}$

$C_6: \{2_{010} \parallel 2_{100}\}, \{^d 2_{010} \parallel 2_{100}\}$

$C_7: \{2_{100} \parallel m_{010}\}, \{^d 2_{100} \parallel m_{010}\}$

$C_8: \{2_{100} \parallel m_{100}\}, \{^d 2_{100} \parallel m_{100}\}$

$C_9: \{^d 1 \parallel 1\}$

$C_{10}: \{^d 1 \parallel 2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5GM6	2	-2	-2	2	0	0	0	0	2	-2
GM7GM8	2	-2	2	-2	0	0	0	0	2	-2
$\overline{\text{GM9}}$	2	2	0	0	0	0	0	0	-2	-2
$\overline{\text{GM10}}$	2	-2	0	0	0	0	0	0	-2	2

$$m_{100}4/m_{010}m^{-1}m^{2100}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{2_{001}||-4_{001}^1\}, \{^d2_{001}||-4_{001}^3\}$$

$$C_4: \{2_{001}||-4_{001}^3\}, \{^d2_{001}||-4_{001}^1\}$$

$$C_5: \{2_{010}||2_{010}\}, \{^d2_{010}||2_{100}\}$$

$$C_6: \{2_{010}||2_{100}\}, \{^d2_{010}||2_{010}\}$$

$$C_7: \{2_{100}||m_{1-10}\}, \{^d2_{100}||m_{110}\}$$

$$C_8: \{2_{100}||m_{110}\}, \{^d2_{100}||m_{1-10}\}$$

$$C_9: \{^d1||1\}$$

$$C_{10}: \{^d1||2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
GM6	2	2	0	0	0	0	0	0	-2	-2
GM7GM8	2	-2	0	0	0	0	-2i	2i	-2	2
GM9GM10	2	-2	0	0	0	0	2i	-2i	-2	2

$m_{100}4/2_{001}m^{m_{001}}m^{2_{010}}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\| - 1\}, \{^d2_{001}\| - 1\}$

$C_4: \{2_{001}\|m_{001}\}, \{^d2_{001}\|m_{001}\}$

$C_5: \{2_{010}\|m_{1-10}\}, \{^d2_{010}\|m_{1-10}\}$

$C_6: \{2_{010}\|m_{110}\}, \{^d2_{010}\|m_{110}\}$

$C_7: \{2_{100}\|2_{1-10}\}, \{^d2_{100}\|2_{1-10}\}$

$C_8: \{2_{100}\|2_{110}\}, \{^d2_{100}\|2_{110}\}$

$C_9: \{^d1\|1\}$

$C_{10}: \{^d1\|2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5GM6	2	-2	-2	2	0	0	0	0	2	-2
GM7GM8	2	-2	2	-2	0	0	0	0	2	-2
<u>GM9</u>	2	2	0	0	0	0	0	0	-2	-2
<u>GM10GM10</u>	4	-4	0	0	0	0	0	0	-4	4

$m_{010}4/2_{010}m^2_{100}m^{m_{001}}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|2_{010}\}, \{^d2_{001}\|2_{010}\}$

$C_4: \{2_{001}\|2_{100}\}, \{^d2_{001}\|2_{100}\}$

$C_5: \{2_{010}\|-1\}, \{^d2_{010}\|-1\}$

$C_6: \{2_{010}\|m_{001}\}, \{^d2_{010}\|m_{001}\}$

$C_7: \{2_{100}\|m_{010}\}, \{^d2_{100}\|m_{010}\}$

$C_8: \{2_{100}\|m_{100}\}, \{^d2_{100}\|m_{100}\}$

$C_9: \{^d1\|1\}$

$C_{10}: \{^d1\|2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5GM6	2	-2	0	0	-2	2	0	0	2	-2
GM7GM8	2	-2	0	0	2	-2	0	0	2	-2
$\overline{\text{GM9}}$	2	2	0	0	0	0	0	0	-2	-2
$\overline{\text{GM10}}$	2	-2	0	0	0	0	0	0	-2	2

$$2_{001}4/m_{010}m^{-1}m^{m_{001}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{2_{001}\|4_{001}^1\}, \{^d2_{001}\|4_{001}^3\}$$

$$C_4: \{2_{001}\|4_{001}^3\}, \{^d2_{001}\|4_{001}^1\}$$

$$C_5: \{2_{010}\|2_{010}\}, \{^d2_{010}\|2_{100}\}$$

$$C_6: \{2_{010}\|2_{100}\}, \{^d2_{010}\|2_{010}\}$$

$$C_7: \{2_{100}\|2_{1-10}\}, \{^d2_{100}\|2_{110}\}$$

$$C_8: \{2_{100}\|2_{110}\}, \{^d2_{100}\|2_{1-10}\}$$

$$C_9: \{^d1\|1\}$$

$$C_{10}: \{^d1\|2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
GM6	2	2	0	0	0	0	0	0	-2	-2
GM7GM8	2	-2	0	0	0	0	-2i	2i	-2	2
GM9GM10	2	-2	0	0	0	0	2i	-2i	-2	2

$2_{001}4/m_{001}m_{010}m_{100}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||4_{001}^1\}, \{^d2_{001}||4_{001}^3\}$

$C_4: \{2_{001}||4_{001}^3\}, \{^d2_{001}||4_{001}^1\}$

$C_5: \{2_{010}||2_{1-10}\}, \{^d2_{010}||2_{110}\}$

$C_6: \{2_{010}||2_{110}\}, \{^d2_{010}||2_{1-10}\}$

$C_7: \{2_{100}||2_{010}\}, \{^d2_{100}||2_{100}\}$

$C_8: \{2_{100}||2_{100}\}, \{^d2_{100}||2_{010}\}$

$C_9: \{^d1||1\}$

$C_{10}: \{^d1||2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
$\overline{\text{GM6}}$	1	-1	-1	1	-i	i	i	-i	-1	1
$\overline{\text{GM7}}$	1	-1	-1	1	i	-i	-i	i	-1	1
$\overline{\text{GM8}}$	1	-1	1	-1	-i	i	-i	i	-1	1
$\overline{\text{GM9}}$	1	-1	1	-1	i	-i	i	-i	-1	1
$\overline{\text{GM10}}$	2	2	0	0	0	0	0	0	-2	-2

$$m_{010}4^{-1}m^{m_{001}}m^{2_{100}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{2_{001}\|2_{010}\}, \{^d2_{001}\|2_{100}\}$$

$$C_4: \{2_{001}\|2_{100}\}, \{^d2_{001}\|2_{010}\}$$

$$C_5: \{2_{010}\| -4^1_{001}\}, \{^d2_{010}\| -4^3_{001}\}$$

$$C_6: \{2_{010}\| -4^3_{001}\}, \{^d2_{010}\| -4^1_{001}\}$$

$$C_7: \{2_{100}\|m_{1-10}\}, \{^d2_{100}\|m_{110}\}$$

$$C_8: \{2_{100}\|m_{110}\}, \{^d2_{100}\|m_{1-10}\}$$

$$C_9: \{^d1\|1\}$$

$$C_{10}: \{^d1\|2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
GM6	2	2	0	0	0	0	0	0	-2	-2
GM7GM8	2	-2	0	0	-2	2	0	0	-2	2
GM9GM10	2	-2	0	0	2	-2	0	0	-2	2

$2_{001}4/2_{010}m^{m_{010}}m^{m_{100}}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{2_{001}||4_{001}^1\}, \{^d2_{001}||4_{001}^1\}$

$C_4: \{2_{001}||4_{001}^3\}, \{^d2_{001}||4_{001}^3\}$

$C_5: \{2_{010}||-1\}, \{^d2_{010}||-1\}$

$C_6: \{2_{010}||m_{001}\}, \{^d2_{010}||m_{001}\}$

$C_7: \{2_{100}||-4_{001}^1\}, \{^d2_{100}||-4_{001}^1\}$

$C_8: \{2_{100}||-4_{001}^3\}, \{^d2_{100}||-4_{001}^3\}$

$C_9: \{^d1||1\}$

$C_{10}: \{^d1||2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	1	-1	-i	i	-1	1	i	-i	1	-1
GM6	1	-1	i	-i	-1	1	-i	i	1	-1
GM7	1	-1	-i	i	1	-1	-i	i	1	-1
GM8	1	-1	i	-i	1	-1	i	-i	1	-1
<u>GM9</u>	2	2	0	0	0	0	0	0	-2	-2
<u>GM10</u>	2	-2	0	0	0	0	0	0	-2	2

$$-14/m_{100}m^m m_{010}m^2 m_{010}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{2_{001}||2_{010}\}, \{^d2_{001}||2_{100}\}$$

$$C_4: \{2_{001}||2_{100}\}, \{^d2_{001}||2_{010}\}$$

$$C_5: \{2_{010}||m_{1-10}\}, \{^d2_{010}||m_{110}\}$$

$$C_6: \{2_{010}||m_{110}\}, \{^d2_{010}||m_{1-10}\}$$

$$C_7: \{2_{100}||-4_{001}^1\}, \{^d2_{100}||-4_{001}^3\}$$

$$C_8: \{2_{100}||-4_{001}^3\}, \{^d2_{100}||-4_{001}^1\}$$

$$C_9: \{^d1||1\}$$

$$C_{10}: \{^d1||2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
GM6	1	-1	-i	i	-i	i	-1	1	-1	1
GM7	1	-1	i	-i	i	-i	-1	1	-1	1
GM8	1	-1	-i	i	i	-i	1	-1	-1	1
GM9	1	-1	i	-i	-i	i	1	-1	-1	1
GM10	2	2	0	0	0	0	0	0	-2	-2

$$2_{010}4/m^{2_{001}}m^{2_{001}}m^{2_{100}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{2_{001}\|m_{010}\}, \{^d2_{001}\|m_{100}\}$$

$$C_4: \{2_{001}\|m_{100}\}, \{^d2_{001}\|m_{010}\}$$

$$C_5: \{2_{010}\|4_{001}^1\}, \{^d2_{010}\|4_{001}^3\}$$

$$C_6: \{2_{010}\|4_{001}^3\}, \{^d2_{010}\|4_{001}^1\}$$

$$C_7: \{2_{100}\|m_{1-10}\}, \{^d2_{100}\|m_{110}\}$$

$$C_8: \{2_{100}\|m_{110}\}, \{^d2_{100}\|m_{1-10}\}$$

$$C_9: \{^d1\|1\}$$

$$C_{10}: \{^d1\|2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
GM6	2	2	0	0	0	0	0	0	-2	-2
GM7GM8	2	-2	0	0	0	0	2i	-2i	-2	2
GM9GM10	2	-2	0	0	0	0	-2i	2i	-2	2

$$m_{010}4/2_{100}m^{2_{010}}m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{2_{001}\|2_{010}\}, \{^d2_{001}\|2_{010}\}$$

$$C_4: \{2_{001}\|2_{100}\}, \{^d2_{001}\|2_{100}\}$$

$$C_5: \{2_{010}\|m_{010}\}, \{^d2_{010}\|m_{010}\}$$

$$C_6: \{2_{010}\|m_{100}\}, \{^d2_{010}\|m_{100}\}$$

$$C_7: \{2_{100}\| - 1\}, \{^d2_{100}\| - 1\}$$

$$C_8: \{2_{100}\|m_{001}\}, \{^d2_{100}\|m_{001}\}$$

$$C_9: \{^d1\|1\}$$

$$C_{10}: \{^d1\|2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5GM6	2	-2	0	0	0	0	2	-2	2	-2
GM7GM8	2	-2	0	0	0	0	-2	2	2	-2
<u>GM9</u>	2	2	0	0	0	0	0	0	-2	-2
<u>GM10GM10</u>	4	-4	0	0	0	0	0	0	-4	4

$$2_{100}4/2_{010}m^{-1}m^m_{100}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{2_{001}||-4_{001}^1\}, \{^d2_{001}||-4_{001}^1\}$$

$$C_4: \{2_{001}||-4_{001}^3\}, \{^d2_{001}||-4_{001}^3\}$$

$$C_5: \{2_{010}||-1\}, \{^d2_{010}||-1\}$$

$$C_6: \{2_{010}||m_{001}\}, \{^d2_{010}||m_{001}\}$$

$$C_7: \{2_{100}||4_{001}^1\}, \{^d2_{100}||4_{001}^1\}$$

$$C_8: \{2_{100}||4_{001}^3\}, \{^d2_{100}||4_{001}^3\}$$

$$C_9: \{^d1||1\}$$

$$C_{10}: \{^d1||2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	1	-1	-i	i	-1	1	i	-i	1	-1
GM6	1	-1	i	-i	-1	1	-i	i	1	-1
GM7	1	-1	-i	i	1	-1	-i	i	1	-1
GM8	1	-1	i	-i	1	-1	i	-i	1	-1
<u>GM9</u>	2	2	0	0	0	0	0	0	-2	-2
<u>GM10</u>	2	-2	0	0	0	0	0	0	-2	2

$$2_{100}4^{-1}_m2_{010}m2_{001}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{2_{001}||m_{1-10}\}, \{^d2_{001}||m_{110}\}$$

$$C_4: \{2_{001}||m_{110}\}, \{^d2_{001}||m_{1-10}\}$$

$$C_5: \{2_{010}||m_{010}\}, \{^d2_{010}||m_{100}\}$$

$$C_6: \{2_{010}||m_{100}\}, \{^d2_{010}||m_{010}\}$$

$$C_7: \{2_{100}||4^1_{001}\}, \{^d2_{100}||4^3_{001}\}$$

$$C_8: \{2_{100}||4^3_{001}\}, \{^d2_{100}||4^1_{001}\}$$

$$C_9: \{^d1||1\}$$

$$C_{10}: \{^d1||2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
GM6	2	2	0	0	0	0	0	0	-2	-2
GM7GM8	2	-2	0	0	0	0	2	-2	-2	2
GM9GM10	2	-2	0	0	0	0	-2	2	-2	2

$$m_{100}4/m_{001}m_{200}m_{010}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{2_{001}\|m_{010}\}, \{^d2_{001}\|m_{100}\}$$

$$C_4: \{2_{001}\|m_{100}\}, \{^d2_{001}\|m_{010}\}$$

$$C_5: \{2_{010}\| -4_{001}^1\}, \{^d2_{010}\| -4_{001}^3\}$$

$$C_6: \{2_{010}\| -4_{001}^3\}, \{^d2_{010}\| -4_{001}^1\}$$

$$C_7: \{2_{100}\|2_{1-10}\}, \{^d2_{100}\|2_{110}\}$$

$$C_8: \{2_{100}\|2_{110}\}, \{^d2_{100}\|2_{1-10}\}$$

$$C_9: \{^d1\|1\}$$

$$C_{10}: \{^d1\|2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
GM6	2	2	0	0	0	0	0	0	-2	-2
GM7GM8	2	-2	0	0	0	0	2i	-2i	-2	2
GM9GM10	2	-2	0	0	0	0	-2i	2i	-2	2

$$2_{100}4/m_{100}m^2_{001}m^2_{010}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{2_{001}||m_{010}\}, \{^d2_{001}||m_{100}\}$$

$$C_4: \{2_{001}||m_{100}\}, \{^d2_{001}||m_{010}\}$$

$$C_5: \{2_{010}||m_{1-10}\}, \{^d2_{010}||m_{110}\}$$

$$C_6: \{2_{010}||m_{110}\}, \{^d2_{010}||m_{1-10}\}$$

$$C_7: \{2_{100}||4^1_{001}\}, \{^d2_{100}||4^3_{001}\}$$

$$C_8: \{2_{100}||4^3_{001}\}, \{^d2_{100}||4^1_{001}\}$$

$$C_9: \{^d1||1\}$$

$$C_{10}: \{^d1||2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
GM6	1	-1	-i	i	-i	i	-1	1	-1	1
GM7	1	-1	i	-i	i	-i	-1	1	-1	1
GM8	1	-1	-i	i	i	-i	1	-1	-1	1
GM9	1	-1	i	-i	-i	i	1	-1	-1	1
GM10	2	2	0	0	0	0	0	0	-2	-2

$2_{100}4^{-1}\mathbf{m}^{\mathbf{m}001}\mathbf{m}^{\mathbf{m}010}\mathbf{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{2_{001}\|2_{010}\}, \{^d2_{001}\|2_{100}\}$

$C_4: \{2_{001}\|2_{100}\}, \{^d2_{001}\|2_{010}\}$

$C_5: \{2_{010}\|2_{1-10}\}, \{^d2_{010}\|2_{110}\}$

$C_6: \{2_{010}\|2_{110}\}, \{^d2_{010}\|2_{1-10}\}$

$C_7: \{2_{100}\|4_{001}^1\}, \{^d2_{100}\|4_{001}^3\}$

$C_8: \{2_{100}\|4_{001}^3\}, \{^d2_{100}\|4_{001}^1\}$

$C_9: \{^d1\|1\}$

$C_{10}: \{^d1\|2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-2	0	0	0	0	0	0	2	-2
GM6	2	2	0	0	0	0	0	0	-2	-2
GM7GM8	2	-2	0	0	0	0	-2	2	-2	2
GM9GM10	2	-2	0	0	0	0	2	-2	-2	2

$$4^1_{001}4/1m^2_{-110}m^2_{100}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||m_{001}\}$
 $C_3: \{2_{001}||-1\}, \{^d2_{001}||-1\}$
 $C_4: \{2_{001}||2_{001}\}, \{^d2_{001}||2_{001}\}$
 $C_5: \{2_{010}||2_{110}\}, \{2_{100}||2_{1-10}\}, \{^d2_{010}||2_{110}\}, \{^d2_{100}||2_{1-10}\}$
 $C_6: \{2_{010}||m_{1-10}\}, \{2_{100}||m_{110}\}, \{^d2_{010}||m_{1-10}\}, \{^d2_{100}||m_{110}\}$
 $C_7: \{2_{1-10}||2_{010}\}, \{2_{110}||2_{100}\}, \{^d2_{1-10}||2_{010}\}, \{^d2_{110}||2_{100}\}$
 $C_8: \{2_{1-10}||m_{100}\}, \{2_{110}||m_{010}\}, \{^d2_{1-10}||m_{100}\}, \{^d2_{110}||m_{010}\}$
 $C_9: \{4^1_{001}||-4^3_{001}\}, \{^d4^3_{001}||-4^1_{001}\}$
 $C_{10}: \{4^1_{001}||4^1_{001}\}, \{^d4^3_{001}||4^3_{001}\}$
 $C_{11}: \{4^3_{001}||-4^1_{001}\}, \{^d4^1_{001}||-4^3_{001}\}$
 $C_{12}: \{4^3_{001}||4^3_{001}\}, \{^d4^1_{001}||4^1_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1
GM3	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1
GM4	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	1	-1
GM5	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1
GM6	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM7	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1
GM9	2	-2	2	-2	0	0	0	0	0	0	0	0	2	-2
GM10	2	2	-2	-2	0	0	0	0	0	0	0	0	2	2
$\overline{GM11}$	2	-2	0	0	0	0	0	0	$-\sqrt{2}$	$\sqrt{2}$	$\sqrt{2}$	$-\sqrt{2}$	-2	2
$\overline{GM12}$	2	-2	0	0	0	0	0	0	$\sqrt{2}$	$-\sqrt{2}$	$-\sqrt{2}$	$\sqrt{2}$	-2	2
$\overline{GM13}$	2	2	0	0	0	0	0	0	$-\sqrt{2}$	$-\sqrt{2}$	$\sqrt{2}$	$\sqrt{2}$	-2	-2
$\overline{GM14}$	2	2	0	0	0	0	0	0	$\sqrt{2}$	$\sqrt{2}$	$-\sqrt{2}$	$-\sqrt{2}$	-2	-2

$$4^1_{001}4/1\mathbf{m}^{\mathbf{m}_{110}}\mathbf{m}^{\mathbf{m}_{010}}\mathbf{m}$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|\mathbf{m}_{001}\}$
 $C_3: \{2_{001}\| -1\}$
 $C_4: \{2_{001}\|2_{001}\}$
 $C_5: \{4^1_{001}\| -4^3_{001}\}$
 $C_6: \{4^1_{001}\|4^1_{001}\}$
 $C_7: \{4^3_{001}\| -4^1_{001}\}$
 $C_8: \{4^3_{001}\|4^3_{001}\}$
 $C_9: \{^d1\|1\}$
 $C_{10}: \{^d1\|\mathbf{m}_{001}\}$
 $C_{11}: \{^d2_{001}\| -1\}$
 $C_{12}: \{^d2_{001}\|2_{001}\}$
 $C_{13}: \{^d4^1_{001}\| -4^3_{001}\}$
 $C_{14}: \{^d4^1_{001}\|4^1_{001}\}$
 $C_{15}: \{^d4^3_{001}\| -4^1_{001}\}$
 $C_{16}: \{^d4^3_{001}\|4^3_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1
GM3	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	1	-1	-i	i	i	-i	1	-1	1	-1	-i	i	i	-i
GM6	1	-1	1	-1	i	-i	-i	i	1	-1	1	-1	i	-i	-i	i
GM7	1	1	-1	-1	-i	-i	i	i	1	1	-1	-1	-i	-i	i	i
GM8	1	1	-1	-1	i	i	-i	-i	1	1	-1	-1	i	i	-i	-i
<u>GM9</u>	1	-1	-i	i	$-\theta$	θ	θ^*	$-\theta^*$	-1	1	i	-i	θ	$-\theta$	$-\theta^*$	θ^*
<u>GM10</u>	1	-1	-i	i	θ	$-\theta$	$-\theta^*$	θ^*	-1	1	i	-i	$-\theta$	θ	θ^*	$-\theta^*$
<u>GM11</u>	1	-1	i	-i	θ^*	$-\theta^*$	$-\theta$	θ	-1	1	-i	i	$-\theta^*$	θ^*	θ	$-\theta$
<u>GM12</u>	1	-1	i	-i	$-\theta^*$	θ^*	θ	$-\theta$	-1	1	-i	i	θ^*	$-\theta^*$	$-\theta$	θ
<u>GM13</u>	1	1	-i	-i	θ^*	θ^*	$-\theta$	$-\theta$	-1	-1	i	i	$-\theta^*$	$-\theta^*$	θ	θ
<u>GM14</u>	1	1	-i	-i	$-\theta^*$	$-\theta^*$	θ	θ	-1	-1	i	i	θ^*	θ^*	$-\theta$	$-\theta$
<u>GM15</u>	1	1	i	i	$-\theta$	$-\theta$	θ^*	θ^*	-1	-1	-i	-i	θ	θ	$-\theta^*$	$-\theta^*$
<u>GM16</u>	1	1	i	i	θ	θ	$-\theta^*$	$-\theta^*$	-1	-1	-i	-i	$-\theta$	$-\theta$	θ^*	θ^*

$$-4^3_{0014/1}m^2_{-110}m^{m_{010}}m$$

Classes:

C₁: {1||1}

C₂: {1||m₀₀₁}

C₃: {2₀₀₁||-1}, {^d2₀₀₁||-1}

C₄: {2₀₀₁||2₀₀₁}, {^d2₀₀₁||2₀₀₁}

C₅: {2₁₋₁₀||2₀₁₀}, {^d2₁₋₁₀||2₀₁₀}

C₆: {2₁₋₁₀||m₁₀₀}, {^d2₁₋₁₀||m₁₀₀}

C₇: {2₁₁₀||2₁₀₀}, {^d2₁₁₀||2₁₀₀}

C₈: {2₁₁₀||m₀₁₀}, {^d2₁₁₀||m₀₁₀}

C₉: {^d1||1}

C₁₀: {^d1||m₀₀₁}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	1	-1
GM3	1	-1	-1	1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1
GM5GM6	2	-2	2	-2	0	0	0	0	2	-2
GM7GM8	2	2	-2	-2	0	0	0	0	2	2
<u>GM9</u>	2	2	0	0	0	0	0	0	-2	-2
<u>GM10</u>	2	-2	0	0	0	0	0	0	-2	2

$2_{001}4/1m^2_{010}m^2_{100}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||m_{001}\}$
 $C_4: \{1||2_{001}\}$
 $C_5: \{2_{001}||4^1_{001}\}, \{^d2_{001}||4^3_{001}\}$
 $C_6: \{2_{001}||4^3_{001}\}, \{^d2_{001}||4^1_{001}\}$
 $C_7: \{2_{001}||-4^1_{001}\}, \{^d2_{001}||-4^3_{001}\}$
 $C_8: \{2_{001}||-4^3_{001}\}, \{^d2_{001}||-4^1_{001}\}$
 $C_9: \{2_{010}||m_{010}\}, \{^d2_{010}||m_{100}\}$
 $C_{10}: \{2_{010}||m_{100}\}, \{^d2_{010}||m_{010}\}$
 $C_{11}: \{2_{010}||2_{010}\}, \{^d2_{010}||2_{100}\}$
 $C_{12}: \{2_{010}||2_{100}\}, \{^d2_{010}||2_{010}\}$
 $C_{13}: \{2_{100}||m_{1-10}\}, \{^d2_{100}||m_{110}\}$
 $C_{14}: \{2_{100}||m_{110}\}, \{^d2_{100}||m_{1-10}\}$
 $C_{15}: \{2_{100}||2_{1-10}\}, \{^d2_{100}||2_{110}\}$
 $C_{16}: \{2_{100}||2_{110}\}, \{^d2_{100}||2_{1-10}\}$
 $C_{17}: \{^d1||1\}$
 $C_{18}: \{^d1||-1\}$
 $C_{19}: \{^d1||m_{001}\}$
 $C_{20}: \{^d1||2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	-1	-1	1
GM3	1	-1	-1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	-1	-1	1
GM4	1	-1	-1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	-1	-1	1
GM5	1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	-1	-1	1
GM6	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1
GM7	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	1
GM8	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1
GM9	2	-2	2	-2	0	0	0	0	0	0	0	0	0	0	0	0	2	-2	2	-2
GM10	2	2	-2	-2	0	0	0	0	0	0	0	0	0	0	0	0	2	2	-2	-2
GM11	1	-1	1	-1	-1	1	1	-1	-i	i	i	-i	-i	i	i	-i	-1	1	-1	1
GM12	1	-1	1	-1	-1	1	1	-1	i	-i	-i	i	i	-i	-i	i	-1	1	-1	1
GM13	1	-1	1	-1	1	-1	-1	1	-i	i	i	-i	i	-i	-i	i	-1	1	-1	1
GM14	1	-1	1	-1	1	-1	-1	1	i	-i	-i	i	-i	i	i	-i	-1	1	-1	1
GM15	1	1	-1	-1	-1	1	-1	1	-i	i	-i	i	-i	i	-i	i	-1	-1	1	1
GM16	1	1	-1	-1	-1	1	-1	1	i	-i	i	-i	i	-i	i	-i	-1	-1	1	1
GM17	1	1	-1	-1	1	-1	1	-1	-i	i	-i	i	i	-i	i	-i	-1	-1	1	1
GM18	1	1	-1	-1	1	-1	1	-1	i	-i	i	-i	-i	i	-i	i	-1	-1	1	1
GM19	2	-2	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	-2	2	2	-2
GM20	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	-2	-2

$$-14/1m^{2001}m^{m001}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||m_{001}\}$
 $C_4: \{1||2_{001}\}$
 $C_5: \{2_{001}||m_{010}\}$
 $C_6: \{2_{001}||m_{100}\}$
 $C_7: \{2_{001}||2_{010}\}$
 $C_8: \{2_{001}||2_{100}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d1||m_{001}\}$
 $C_{12}: \{^d1||2_{001}\}$
 $C_{13}: \{^d2_{001}||m_{010}\}$
 $C_{14}: \{^d2_{001}||m_{100}\}$
 $C_{15}: \{^d2_{001}||2_{010}\}$
 $C_{16}: \{^d2_{001}||2_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1
GM3	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5GM6	2	-2	2	-2	0	0	0	0	2	-2	2	-2	0	0	0	0
GM7GM8	2	2	-2	-2	0	0	0	0	2	2	-2	-2	0	0	0	0
GM9	1	-1	1	-1	-i	i	i	-i	-1	1	-1	1	i	-i	-i	i
GM10	1	-1	1	-1	i	-i	-i	i	-1	1	-1	1	-i	i	i	-i
GM11	1	1	-1	-1	-i	i	-i	i	-1	-1	1	1	i	-i	i	-i
GM12	1	1	-1	-1	i	-i	i	-i	-1	-1	1	1	-i	i	-i	i
GM13GM14	2	-2	-2	2	0	0	0	0	-2	2	2	-2	0	0	0	0
GM15GM16	2	2	2	2	0	0	0	0	-2	-2	-2	-2	0	0	0	0

$2_{001}4/1m^{-1}m^{m001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||m_{001}\}$
 $C_4: \{1||2_{001}\}$
 $C_5: \{2_{001}||4_{001}^1\}$
 $C_6: \{2_{001}||4_{001}^3\}$
 $C_7: \{2_{001}||-4_{001}^1\}$
 $C_8: \{2_{001}||-4_{001}^3\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d1||m_{001}\}$
 $C_{12}: \{^d1||2_{001}\}$
 $C_{13}: \{^d2_{001}||4_{001}^1\}$
 $C_{14}: \{^d2_{001}||4_{001}^3\}$
 $C_{15}: \{^d2_{001}||-4_{001}^1\}$
 $C_{16}: \{^d2_{001}||-4_{001}^3\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1
GM3	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	1	-1	-i	i	i	-i	1	-1	1	-1	-i	i	i	-i
GM6	1	-1	1	-1	i	-i	-i	i	1	-1	1	-1	i	-i	-i	i
GM7	1	1	-1	-1	-i	i	-i	i	1	1	-1	-1	-i	i	-i	i
GM8	1	1	-1	-1	i	-i	i	-i	1	1	-1	-1	i	-i	i	-i
<u>GM9GM10</u>	2	-2	2	-2	0	0	0	0	-2	2	-2	2	0	0	0	0
<u>GM11GM12</u>	2	2	-2	-2	0	0	0	0	-2	-2	2	2	0	0	0	0
<u>GM13GM14</u>	2	-2	-2	2	0	0	0	0	-2	2	2	-2	0	0	0	0
<u>GM15GM16</u>	2	2	2	2	0	0	0	0	-2	-2	-2	-2	0	0	0	0

$$m_{001}4/1m_{200}m^{-1}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||m_{001}\}$
 $C_4: \{1||2_{001}\}$
 $C_5: \{2_{001}||m_{010}\}$
 $C_6: \{2_{001}||m_{100}\}$
 $C_7: \{2_{001}||2_{010}\}$
 $C_8: \{2_{001}||2_{100}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d1||m_{001}\}$
 $C_{12}: \{^d1||2_{001}\}$
 $C_{13}: \{^d2_{001}||m_{010}\}$
 $C_{14}: \{^d2_{001}||m_{100}\}$
 $C_{15}: \{^d2_{001}||2_{010}\}$
 $C_{16}: \{^d2_{001}||2_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1
GM3	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5GM6	2	-2	2	-2	0	0	0	0	2	-2	2	-2	0	0	0	0
GM7GM8	2	2	-2	-2	0	0	0	0	2	2	-2	-2	0	0	0	0
GM9GM9	2	-2	2	-2	-2i	2i	2i	-2i	-2	2	-2	2	2i	-2i	-2i	2i
GM10GM10	2	-2	2	-2	2i	-2i	-2i	2i	-2	2	-2	2	-2i	2i	2i	-2i
GM11GM11	2	2	-2	-2	-2i	2i	-2i	2i	-2	-2	2	2	2i	-2i	2i	-2i
GM12GM12	2	2	-2	-2	2i	-2i	2i	-2i	-2	-2	2	2	-2i	2i	-2i	2i
GM13GM14	2	-2	-2	2	0	0	0	0	-2	2	2	-2	0	0	0	0
GM15GM16	2	2	2	2	0	0	0	0	-2	-2	-2	-2	0	0	0	0

$2_{001}4/1m^m m_{010}m^m m_{100}m$

Classes:

- $C_1: \{1||1\}$
- $C_2: \{1||-1\}$
- $C_3: \{1||m_{001}\}$
- $C_4: \{1||2_{001}\}$
- $C_5: \{2_{001}||4_{001}^1\}$
- $C_6: \{2_{001}||4_{001}^3\}$
- $C_7: \{2_{001}||-4_{001}^1\}$
- $C_8: \{2_{001}||-4_{001}^3\}$
- $C_9: \{^d1||1\}$
- $C_{10}: \{^d1||-1\}$
- $C_{11}: \{^d1||m_{001}\}$
- $C_{12}: \{^d1||2_{001}\}$
- $C_{13}: \{^d2_{001}||4_{001}^1\}$
- $C_{14}: \{^d2_{001}||4_{001}^3\}$
- $C_{15}: \{^d2_{001}||-4_{001}^1\}$
- $C_{16}: \{^d2_{001}||-4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1
GM3	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	1	-1	-i	i	i	-i	1	-1	1	-1	-i	i	i	-i
GM6	1	-1	1	-1	i	-i	-i	i	1	-1	1	-1	i	-i	-i	i
GM7	1	1	-1	-1	-i	i	-i	i	1	1	-1	-1	-i	i	-i	i
GM8	1	1	-1	-1	i	-i	i	-i	1	1	-1	-1	i	-i	i	-i
<u>GM9</u>	1	-1	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1
<u>GM10</u>	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1
<u>GM11</u>	1	1	-1	-1	-1	1	-1	1	-1	-1	1	1	1	-1	1	-1
<u>GM12</u>	1	1	-1	-1	1	-1	1	-1	-1	-1	1	1	-1	1	-1	1
<u>GM13</u>	1	-1	-1	1	-i	-i	i	i	-1	1	1	-1	i	i	-i	-i
<u>GM14</u>	1	-1	-1	1	i	i	-i	-i	-1	1	1	-1	-i	-i	i	i
<u>GM15</u>	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
<u>GM16</u>	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i

$$m_{100}4/1m^2_{200}m^{m_{010}}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||m_{001}\}$
 $C_4: \{1||2_{001}\}$
 $C_5: \{2_{001}||m_{010}\}$
 $C_6: \{2_{001}||m_{100}\}$
 $C_7: \{2_{001}||2_{010}\}$
 $C_8: \{2_{001}||2_{100}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d1||m_{001}\}$
 $C_{12}: \{^d1||2_{001}\}$
 $C_{13}: \{^d2_{001}||m_{010}\}$
 $C_{14}: \{^d2_{001}||m_{100}\}$
 $C_{15}: \{^d2_{001}||2_{010}\}$
 $C_{16}: \{^d2_{001}||2_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1
GM3	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5GM6	2	-2	2	-2	0	0	0	0	2	-2	2	-2	0	0	0	0
GM7GM8	2	2	-2	-2	0	0	0	0	2	2	-2	-2	0	0	0	0
GM9	1	-1	-1	1	-i	-i	i	i	-1	1	1	-1	i	i	-i	-i
GM10	1	-1	-1	1	i	i	-i	-i	-1	1	1	-1	-i	-i	i	i
GM11	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
GM12	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i
GM13GM14	2	-2	2	-2	0	0	0	0	-2	2	-2	2	0	0	0	0
GM15GM16	2	2	-2	-2	0	0	0	0	-2	-2	2	2	0	0	0	0

$2_{001}4/2_{010}m2_{010}m2_{100}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{001}\}$

$C_3: \{1||2_{010}\}, \{1||2_{100}\}$

$C_4: \{2_{001}||2_{1-10}\}, \{2_{001}||2_{110}\}, \{^d2_{001}||2_{1-10}\}, \{^d2_{001}||2_{110}\}$

$C_5: \{2_{001}||4_{001}^1\}, \{2_{001}||4_{001}^3\}, \{^d2_{001}||4_{001}^1\}, \{^d2_{001}||4_{001}^3\}$

$C_6: \{2_{010}||-1\}, \{^d2_{010}||-1\}$

$C_7: \{2_{010}||m_{001}\}, \{^d2_{010}||m_{001}\}$

$C_8: \{2_{010}||m_{010}\}, \{^d2_{010}||m_{100}\}$

$C_9: \{2_{010}||m_{100}\}, \{^d2_{010}||m_{010}\}$

$C_{10}: \{2_{100}||-4_{001}^1\}, \{2_{100}||-4_{001}^3\}, \{^d2_{100}||-4_{001}^1\}, \{^d2_{100}||-4_{001}^3\}$

$C_{11}: \{2_{100}||m_{1-10}\}, \{2_{100}||m_{110}\}, \{^d2_{100}||m_{1-10}\}, \{^d2_{100}||m_{110}\}$

$C_{12}: \{^d1||1\}$

$C_{13}: \{^d1||2_{001}\}$

$C_{14}: \{^d1||2_{010}\}, \{^d1||2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	-1	1	1	-1	1	1	1	-1
GM3	1	1	-1	-1	1	1	1	-1	-1	1	-1	1	1	-1
GM4	1	1	-1	1	-1	-1	-1	1	1	1	-1	1	1	-1
GM5	1	1	-1	1	-1	1	1	-1	-1	-1	1	1	1	-1
GM6	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1
GM7	1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	1
GM8	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
GM9	2	-2	0	0	0	-2	2	0	0	0	0	2	-2	0
GM10	2	-2	0	0	0	2	-2	0	0	0	0	2	-2	0
GM11	2	2	2	0	0	0	0	0	0	0	0	-2	-2	-2
GM12	2	2	-2	0	0	0	0	0	0	0	0	-2	-2	2
GM13	2	-2	0	0	0	0	0	-2i	2i	0	0	-2	2	0
GM14	2	-2	0	0	0	0	0	2i	-2i	0	0	-2	2	0

$$2_{001}4/m_{001}m^m_{001}m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|2_{010}\}, \{1\|2_{100}\}$$

$$C_4: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$$

$$C_5: \{2_{001}\|4^1_{001}\}, \{2_{001}\|4^3_{001}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$$

$$C_9: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$$

$$C_{10}: \{^d2_{001}\|4^1_{001}\}, \{^d2_{001}\|4^3_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
GM6	2	-2	0	0	0	-2	2	0	0	0
GM7GM8	2	2	-2	0	0	-2	-2	2	0	0
GM9GM10	2	2	2	0	0	-2	-2	-2	0	0

$$m_{001}4^{-1}m^{-1}m^{2001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|2_{010}\}, \{1\|2_{100}\}$$

$$C_4: \{2_{001}\| - 4_{001}^1\}, \{2_{001}\| - 4_{001}^3\}$$

$$C_5: \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$$

$$C_9: \{^d2_{001}\| - 4_{001}^1\}, \{^d2_{001}\| - 4_{001}^3\}$$

$$C_{10}: \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6GM6</u>	4	-4	0	0	0	-4	4	0	0	0
<u>GM7GM8</u>	2	2	-2	0	0	-2	-2	2	0	0
<u>GM9GM10</u>	2	2	2	0	0	-2	-2	-2	0	0

$$^{-1}4/2_{001}m^{2_{001}}m^{m_{001}}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||2_{010}\}$
 $C_4: \{1||2_{100}\}$
 $C_5: \{2_{001}||-1\}$
 $C_6: \{2_{001}||m_{001}\}$
 $C_7: \{2_{001}||m_{010}\}$
 $C_8: \{2_{001}||m_{100}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||2_{001}\}$
 $C_{11}: \{^d1||2_{010}\}$
 $C_{12}: \{^d1||2_{100}\}$
 $C_{13}: \{^d2_{001}||-1\}$
 $C_{14}: \{^d2_{001}||m_{001}\}$
 $C_{15}: \{^d2_{001}||m_{010}\}$
 $C_{16}: \{^d2_{001}||m_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5GM6	2	-2	0	0	-2	2	0	0	2	-2	0	0	-2	2	0	0
GM7GM8	2	-2	0	0	2	-2	0	0	2	-2	0	0	2	-2	0	0
GM9GM10	2	-2	0	0	0	0	2i	-2i	-2	2	0	0	0	0	-2i	2i
GM11GM12	2	-2	0	0	0	0	-2i	2i	-2	2	0	0	0	0	2i	-2i
GM13GM14	2	2	-2	-2	0	0	0	0	-2	-2	2	2	0	0	0	0
GM15GM16	2	2	2	2	0	0	0	0	-2	-2	-2	-2	0	0	0	0

$$2_{001}4^{-1}m^{-1}m^{m001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|2_{010}\}, \{1\|2_{100}\}$$

$$C_4: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$$

$$C_5: \{2_{001}\|4_{001}^1\}, \{2_{001}\|4_{001}^3\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$$

$$C_9: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$$

$$C_{10}: \{^d2_{001}\|4_{001}^1\}, \{^d2_{001}\|4_{001}^3\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6GM6</u>	4	-4	0	0	0	-4	4	0	0	0
<u>GM7GM8</u>	2	2	-2	0	0	-2	-2	2	0	0
<u>GM9GM10</u>	2	2	2	0	0	-2	-2	-2	0	0

$$m_{001}4/2_{001}m^{2001}m^{-1}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||2_{010}\}$
 $C_4: \{1||2_{100}\}$
 $C_5: \{2_{001}||-1\}$
 $C_6: \{2_{001}||m_{001}\}$
 $C_7: \{2_{001}||m_{010}\}$
 $C_8: \{2_{001}||m_{100}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||2_{001}\}$
 $C_{11}: \{^d1||2_{010}\}$
 $C_{12}: \{^d1||2_{100}\}$
 $C_{13}: \{^d2_{001}||-1\}$
 $C_{14}: \{^d2_{001}||m_{001}\}$
 $C_{15}: \{^d2_{001}||m_{010}\}$
 $C_{16}: \{^d2_{001}||m_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5GM6	2	-2	0	0	-2	2	0	0	2	-2	0	0	-2	2	0	0
GM7GM8	2	-2	0	0	2	-2	0	0	2	-2	0	0	2	-2	0	0
GM9GM10	2	-2	0	0	0	0	2i	-2i	-2	2	0	0	0	0	-2i	2i
GM11GM12	2	-2	0	0	0	0	-2i	2i	-2	2	0	0	0	0	2i	-2i
GM13GM14	2	2	-2	-2	0	0	0	0	-2	-2	2	2	0	0	0	0
GM15GM16	2	2	2	2	0	0	0	0	-2	-2	-2	-2	0	0	0	0

$$-14/m^{001}m^{m001}m^{2001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|2_{010}\}, \{1\|2_{100}\}$$

$$C_4: \{2_{001}\| - 4_{001}^1\}, \{2_{001}\| - 4_{001}^3\}$$

$$C_5: \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$$

$$C_9: \{^d2_{001}\| - 4_{001}^1\}, \{^d2_{001}\| - 4_{001}^3\}$$

$$C_{10}: \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
GM6	2	-2	0	0	0	-2	2	0	0	0
GM7GM8	2	2	-2	0	0	-2	-2	2	0	0
GM9GM10	2	2	2	0	0	-2	-2	-2	0	0

$2_{001}4/m_{010}m^{m_{010}}m^{m_{100}}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|2_{010}\}, \{1\|2_{100}\}$

$C_4: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$

$C_5: \{2_{001}\|4_{001}^1\}, \{2_{001}\|4_{001}^3\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}$

$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

$C_9: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$

$C_{10}: \{^d2_{001}\|4_{001}^1\}, \{^d2_{001}\|4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-i	i	-1	-1	1	i	-i
<u>GM7</u>	1	1	-1	i	-i	-1	-1	1	-i	i
<u>GM8</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM9</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$m_{010}4/m_{100}m^m_{100}m^{2001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|2_{010}\}, \{1\|2_{100}\}$

$C_4: \{2_{001}\| - 4_{001}^1\}, \{2_{001}\| - 4_{001}^3\}$

$C_5: \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{110}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}$

$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

$C_9: \{^d2_{001}\| - 4_{001}^1\}, \{^d2_{001}\| - 4_{001}^3\}$

$C_{10}: \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-i	i	-1	-1	1	i	-i
<u>GM7</u>	1	1	-1	i	-i	-1	-1	1	-i	i
<u>GM8</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM9</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$$m_{100}4/2_{001}m^{2_{001}}m^{m_{010}}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||2_{010}\}$
 $C_4: \{1||2_{100}\}$
 $C_5: \{2_{001}||-1\}$
 $C_6: \{2_{001}||m_{001}\}$
 $C_7: \{2_{001}||m_{010}\}$
 $C_8: \{2_{001}||m_{100}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||2_{001}\}$
 $C_{11}: \{^d1||2_{010}\}$
 $C_{12}: \{^d1||2_{100}\}$
 $C_{13}: \{^d2_{001}||-1\}$
 $C_{14}: \{^d2_{001}||m_{001}\}$
 $C_{15}: \{^d2_{001}||m_{010}\}$
 $C_{16}: \{^d2_{001}||m_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5GM6	2	-2	0	0	-2	2	0	0	2	-2	0	0	-2	2	0	0
GM7GM8	2	-2	0	0	2	-2	0	0	2	-2	0	0	2	-2	0	0
GM9	1	1	-1	-1	-i	-i	i	i	-1	-1	1	1	i	i	-i	-i
GM10	1	1	-1	-1	i	i	-i	-i	-1	-1	1	1	-i	-i	i	i
GM11	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
GM12	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i
GM13GM14	2	-2	0	0	-2i	2i	0	0	-2	2	0	0	2i	-2i	0	0
GM15GM16	2	-2	0	0	2i	-2i	0	0	-2	2	0	0	-2i	2i	0	0

$$2_{001}4/2_{010}m^1m^2_{001}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{1||m_{010}\}, \{1||m_{100}\}$$

$$C_4: \{2_{001}||4_{001}^1\}, \{2_{001}||4_{001}^3\}, \{^d2_{001}||4_{001}^1\}, \{^d2_{001}||4_{001}^3\}$$

$$C_5: \{2_{001}||m_{1-10}\}, \{2_{001}||m_{110}\}, \{^d2_{001}||m_{1-10}\}, \{^d2_{001}||m_{110}\}$$

$$C_6: \{2_{010}||-1\}, \{^d2_{010}||-1\}$$

$$C_7: \{2_{010}||2_{010}\}, \{^d2_{010}||2_{100}\}$$

$$C_8: \{2_{010}||2_{100}\}, \{^d2_{010}||2_{010}\}$$

$$C_9: \{2_{010}||m_{001}\}, \{^d2_{010}||m_{001}\}$$

$$C_{10}: \{2_{100}||-4_{001}^1\}, \{2_{100}||-4_{001}^3\}, \{^d2_{100}||-4_{001}^1\}, \{^d2_{100}||-4_{001}^3\}$$

$$C_{11}: \{2_{100}||2_{1-10}\}, \{2_{100}||2_{110}\}, \{^d2_{100}||2_{1-10}\}, \{^d2_{100}||2_{110}\}$$

$$C_{12}: \{^d1||1\}$$

$$C_{13}: \{^d1||2_{001}\}$$

$$C_{14}: \{^d1||m_{010}\}, \{^d1||m_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	1	1	-1	1	-1	1	1	-1
GM3	1	1	-1	-1	1	1	-1	-1	1	-1	1	1	1	-1
GM4	1	1	-1	1	-1	-1	1	1	-1	-1	1	1	1	-1
GM5	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	1	-1
GM6	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1
GM7	1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	1
GM8	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
GM9	2	-2	0	0	0	-2	0	0	2	0	0	2	-2	0
GM10	2	-2	0	0	0	2	0	0	-2	0	0	2	-2	0
GM11	2	2	2	0	0	0	0	0	0	0	0	-2	-2	-2
GM12	2	2	-2	0	0	0	0	0	0	0	0	-2	-2	2
GM13	2	-2	0	0	0	0	-2i	2i	0	0	0	-2	2	0
GM14	2	-2	0	0	0	0	2i	-2i	0	0	0	-2	2	0

$$2_{001}4/m_{001}m^1m^2_{001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|m_{010}\}, \{1\|m_{100}\}$$

$$C_4: \{2_{001}\|4_{001}^1\}, \{2_{001}\|4_{001}^3\}$$

$$C_5: \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|m_{010}\}, \{^d1\|m_{100}\}$$

$$C_9: \{^d2_{001}\|4_{001}^1\}, \{^d2_{001}\|4_{001}^3\}$$

$$C_{10}: \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
GM6	2	-2	0	0	0	-2	2	0	0	0
GM7GM8	2	2	-2	0	0	-2	-2	2	0	0
GM9GM10	2	2	2	0	0	-2	-2	-2	0	0

$$m_{001}4^{-1}m^1m^{m_{001}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|m_{010}\}, \{1\|m_{100}\}$$

$$C_4: \{2_{001}\| - 4_{001}^1\}, \{2_{001}\| - 4_{001}^3\}$$

$$C_5: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|m_{010}\}, \{^d1\|m_{100}\}$$

$$C_9: \{^d2_{001}\| - 4_{001}^1\}, \{^d2_{001}\| - 4_{001}^3\}$$

$$C_{10}: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6GM6</u>	4	-4	0	0	0	-4	4	0	0	0
<u>GM7GM8</u>	2	2	-2	0	0	-2	-2	2	0	0
<u>GM9GM10</u>	2	2	2	0	0	-2	-2	-2	0	0

$$^{-1}4/2_{001}m^1m^{-1}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||m_{010}\}$
 $C_4: \{1||m_{100}\}$
 $C_5: \{2_{001}||-1\}$
 $C_6: \{2_{001}||2_{010}\}$
 $C_7: \{2_{001}||2_{100}\}$
 $C_8: \{2_{001}||m_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||2_{001}\}$
 $C_{11}: \{^d1||m_{010}\}$
 $C_{12}: \{^d1||m_{100}\}$
 $C_{13}: \{^d2_{001}||-1\}$
 $C_{14}: \{^d2_{001}||2_{010}\}$
 $C_{15}: \{^d2_{001}||2_{100}\}$
 $C_{16}: \{^d2_{001}||m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	-1
GM3	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5GM6	2	-2	0	0	-2	0	0	2	2	-2	0	0	-2	0	0	2
GM7GM8	2	-2	0	0	2	0	0	-2	2	-2	0	0	2	0	0	-2
GM9GM10	2	-2	0	0	0	2i	-2i	0	-2	2	0	0	0	-2i	2i	0
GM11GM12	2	-2	0	0	0	-2i	2i	0	-2	2	0	0	0	2i	-2i	0
GM13GM14	2	2	-2	-2	0	0	0	0	-2	-2	2	2	0	0	0	0
GM15GM16	2	2	2	2	0	0	0	0	-2	-2	-2	-2	0	0	0	0

$$2_{001}4/-^1m^1m^2_{001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|m_{010}\}, \{1\|m_{100}\}$$

$$C_4: \{2_{001}\|4_{001}^1\}, \{2_{001}\|4_{001}^3\}$$

$$C_5: \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|m_{010}\}, \{^d1\|m_{100}\}$$

$$C_9: \{^d2_{001}\|4_{001}^1\}, \{^d2_{001}\|4_{001}^3\}$$

$$C_{10}: \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6GM6</u>	4	-4	0	0	0	-4	4	0	0	0
<u>GM7GM8</u>	2	2	-2	0	0	-2	-2	2	0	0
<u>GM9GM10</u>	2	2	2	0	0	-2	-2	-2	0	0

$$m_{001}4/2_{001}m^1m^{m_{001}}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||m_{010}\}$
 $C_4: \{1||m_{100}\}$
 $C_5: \{2_{001}||-1\}$
 $C_6: \{2_{001}||2_{010}\}$
 $C_7: \{2_{001}||2_{100}\}$
 $C_8: \{2_{001}||m_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||2_{001}\}$
 $C_{11}: \{^d1||m_{010}\}$
 $C_{12}: \{^d1||m_{100}\}$
 $C_{13}: \{^d2_{001}||-1\}$
 $C_{14}: \{^d2_{001}||2_{010}\}$
 $C_{15}: \{^d2_{001}||2_{100}\}$
 $C_{16}: \{^d2_{001}||m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	-1
GM3	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5GM6	2	-2	0	0	-2	0	0	2	2	-2	0	0	-2	0	0	2
GM7GM8	2	-2	0	0	2	0	0	-2	2	-2	0	0	2	0	0	-2
GM9GM10	2	-2	0	0	0	2i	-2i	0	-2	2	0	0	0	-2i	2i	0
GM11GM12	2	-2	0	0	0	-2i	2i	0	-2	2	0	0	0	2i	-2i	0
GM13GM14	2	2	-2	-2	0	0	0	0	-2	-2	2	2	0	0	0	0
GM15GM16	2	2	2	2	0	0	0	0	-2	-2	-2	-2	0	0	0	0

$$-14/m001m^1m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|m_{010}\}, \{1\|m_{100}\}$$

$$C_4: \{2_{001}\| - 4_{001}^1\}, \{2_{001}\| - 4_{001}^3\}$$

$$C_5: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|m_{010}\}, \{^d1\|m_{100}\}$$

$$C_9: \{^d2_{001}\| - 4_{001}^1\}, \{^d2_{001}\| - 4_{001}^3\}$$

$$C_{10}: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
GM6	2	-2	0	0	0	-2	2	0	0	0
GM7GM8	2	2	-2	0	0	-2	-2	2	0	0
GM9GM10	2	2	2	0	0	-2	-2	-2	0	0

$$2_{001}4/m_{010}m^1m^2_{001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|m_{010}\}, \{1\|m_{100}\}$$

$$C_4: \{2_{001}\|4_{001}^1\}, \{2_{001}\|4_{001}^3\}$$

$$C_5: \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|m_{010}\}, \{^d1\|m_{100}\}$$

$$C_9: \{^d2_{001}\|4_{001}^1\}, \{^d2_{001}\|4_{001}^3\}$$

$$C_{10}: \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-i	i	-1	-1	1	i	-i
<u>GM7</u>	1	1	-1	i	-i	-1	-1	1	-i	i
<u>GM8</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM9</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$m_{010}4/m_{100}m^1m^{m_{010}}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|m_{010}\}, \{1\|m_{100}\}$

$C_4: \{2_{001}\| - 4_{001}^1\}, \{2_{001}\| - 4_{001}^3\}$

$C_5: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}$

$C_8: \{^d1\|m_{010}\}, \{^d1\|m_{100}\}$

$C_9: \{^d2_{001}\| - 4_{001}^1\}, \{^d2_{001}\| - 4_{001}^3\}$

$C_{10}: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-i	i	-1	-1	1	i	-i
<u>GM7</u>	1	1	-1	i	-i	-1	-1	1	-i	i
<u>GM8</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM9</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$$m_{100}4/2_{001}m^1m_{100}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||m_{010}\}$
 $C_4: \{1||m_{100}\}$
 $C_5: \{2_{001}||-1\}$
 $C_6: \{2_{001}||2_{010}\}$
 $C_7: \{2_{001}||2_{100}\}$
 $C_8: \{2_{001}||m_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||2_{001}\}$
 $C_{11}: \{^d1||m_{010}\}$
 $C_{12}: \{^d1||m_{100}\}$
 $C_{13}: \{^d2_{001}||-1\}$
 $C_{14}: \{^d2_{001}||2_{010}\}$
 $C_{15}: \{^d2_{001}||2_{100}\}$
 $C_{16}: \{^d2_{001}||m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	-1
GM3	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5GM6	2	-2	0	0	-2	0	0	2	2	-2	0	0	-2	0	0	2
GM7GM8	2	-2	0	0	2	0	0	-2	2	-2	0	0	2	0	0	-2
GM9	1	1	-1	-1	-i	i	i	-i	-1	-1	1	1	i	-i	-i	i
GM10	1	1	-1	-1	i	-i	-i	i	-1	-1	1	1	-i	i	i	-i
GM11	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
GM12	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i
GM13GM14	2	-2	0	0	-2i	0	0	2i	-2	2	0	0	2i	0	0	-2i
GM15GM16	2	-2	0	0	2i	0	0	-2i	-2	2	0	0	-2i	0	0	2i

$$^{-1}4/1m^1m^{-1}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||m_{001}\}$
 $C_4: \{1||m_{010}\}$
 $C_5: \{1||m_{100}\}$
 $C_6: \{1||2_{001}\}$
 $C_7: \{1||2_{010}\}$
 $C_8: \{1||2_{100}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d1||m_{001}\}$
 $C_{12}: \{^d1||m_{010}\}$
 $C_{13}: \{^d1||m_{100}\}$
 $C_{14}: \{^d1||2_{001}\}$
 $C_{15}: \{^d1||2_{010}\}$
 $C_{16}: \{^d1||2_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1
GM3	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1
GM4	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1
GM5GM6	2	-2	2	0	0	-2	0	0	2	-2	2	0	0	-2	0	0
GM7GM8	2	2	-2	0	0	-2	0	0	2	2	-2	0	0	-2	0	0
GM9GM9	2	-2	-2	-2	-2	2	2	2	-2	2	2	2	2	-2	-2	-2
GM10GM10	2	-2	-2	2	2	2	-2	-2	-2	2	2	-2	-2	-2	2	2
GM11GM11	2	2	2	-2	-2	2	-2	-2	-2	-2	-2	2	2	-2	2	2
GM12GM12	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2
GM13GM14	2	-2	2	0	0	-2	0	0	-2	2	-2	0	0	2	0	0
GM15GM16	2	2	-2	0	0	-2	0	0	-2	-2	2	0	0	2	0	0

$2_{001}4/1m^1m^2_{001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||m_{001}\}$
 $C_4: \{1||m_{010}\}, \{1||m_{100}\}$
 $C_5: \{1||2_{001}\}$
 $C_6: \{1||2_{010}\}, \{1||2_{100}\}$
 $C_7: \{2_{001}||4_{001}^1\}, \{2_{001}||4_{001}^3\}$
 $C_8: \{2_{001}||m_{1-10}\}, \{2_{001}||m_{110}\}$
 $C_9: \{2_{001}||-4_{001}^1\}, \{2_{001}||-4_{001}^3\}$
 $C_{10}: \{2_{001}||2_{1-10}\}, \{2_{001}||2_{110}\}$
 $C_{11}: \{^d1||1\}$
 $C_{12}: \{^d1||-1\}$
 $C_{13}: \{^d1||m_{001}\}$
 $C_{14}: \{^d1||m_{010}\}, \{^d1||m_{100}\}$
 $C_{15}: \{^d1||2_{001}\}$
 $C_{16}: \{^d1||2_{010}\}, \{^d1||2_{100}\}$
 $C_{17}: \{^d2_{001}||4_{001}^1\}, \{^d2_{001}||4_{001}^3\}$
 $C_{18}: \{^d2_{001}||m_{1-10}\}, \{^d2_{001}||m_{110}\}$
 $C_{19}: \{^d2_{001}||-4_{001}^1\}, \{^d2_{001}||-4_{001}^3\}$
 $C_{20}: \{^d2_{001}||2_{1-10}\}, \{^d2_{001}||2_{110}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	-1	1	1	-1	1	1	-1	1	-1	-1	-1	1	1	-1	1	1	-1
GM3	1	-1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	1
GM4	1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	-1	1	1
GM5	1	-1	-1	1	1	-1	1	1	-1	-1	1	-1	-1	1	1	-1	1	1	-1	-1
GM6	1	1	1	-1	1	-1	-1	1	-1	1	1	1	1	-1	1	-1	-1	1	-1	1
GM7	1	1	1	-1	1	-1	1	-1	1	-1	1	1	1	-1	1	-1	1	-1	1	-1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
GM9	2	-2	2	0	-2	0	0	0	0	0	2	-2	2	0	-2	0	0	0	0	0
GM10	2	2	-2	0	-2	0	0	0	0	0	2	2	-2	0	-2	0	0	0	0	0
GM11	1	-1	-1	-1	1	1	-i	i	i	-i	-1	1	1	1	-1	-1	i	-i	-i	i
GM12	1	-1	-1	-1	1	1	i	-i	-i	i	-1	1	1	1	-1	-1	-i	i	i	-i
GM13	1	-1	-1	1	1	-1	-i	-i	i	i	-1	1	1	-1	-1	1	i	i	-i	-i
GM14	1	-1	-1	1	1	-1	i	i	-i	-i	-1	1	1	-1	-1	1	-i	-i	i	i
GM15	1	1	1	-1	1	-1	-i	i	-i	i	-1	-1	-1	1	-1	1	i	-i	i	-i
GM16	1	1	1	-1	1	-1	i	-i	i	-i	-1	-1	-1	1	-1	1	-i	i	-i	i
GM17	1	1	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i
GM18	1	1	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i
GM19	2	-2	2	0	-2	0	0	0	0	0	-2	2	-2	0	2	0	0	0	0	0
GM20	2	2	-2	0	-2	0	0	0	0	0	-2	-2	2	0	2	0	0	0	0	0

$$m_{001}4/1m^1m^{m_{001}}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||m_{001}\}$
 $C_4: \{1||m_{010}\}$
 $C_5: \{1||m_{100}\}$
 $C_6: \{1||2_{001}\}$
 $C_7: \{1||2_{010}\}$
 $C_8: \{1||2_{100}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d1||m_{001}\}$
 $C_{12}: \{^d1||m_{010}\}$
 $C_{13}: \{^d1||m_{100}\}$
 $C_{14}: \{^d1||2_{001}\}$
 $C_{15}: \{^d1||2_{010}\}$
 $C_{16}: \{^d1||2_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1
GM3	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1
GM4	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1
GM5GM6	2	-2	2	0	0	-2	0	0	2	-2	2	0	0	-2	0	0
GM7GM8	2	2	-2	0	0	-2	0	0	2	2	-2	0	0	-2	0	0
GM9	1	-1	-1	-1	-1	1	1	1	-1	1	1	1	1	-1	-1	-1
GM10	1	-1	-1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1
GM11	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	1	1	-1	1	1
GM12	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
GM13GM14	2	-2	2	0	0	-2	0	0	-2	2	-2	0	0	2	0	0
GM15GM16	2	2	-2	0	0	-2	0	0	-2	-2	2	0	0	2	0	0

$$1_{4/2010}m^2_{100}m^2_{100}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{1||4_{001}^1\}, \{1||4_{001}^3\}$$

$$C_4: \{2_{001}||2_{010}\}, \{2_{001}||2_{100}\}, \{^d2_{001}||2_{010}\}, \{^d2_{001}||2_{100}\}$$

$$C_5: \{2_{001}||2_{1-10}\}, \{2_{001}||2_{110}\}, \{^d2_{001}||2_{1-10}\}, \{^d2_{001}||2_{110}\}$$

$$C_6: \{2_{010}||-1\}, \{^d2_{010}||-1\}$$

$$C_7: \{2_{010}||-4_{001}^1\}, \{^d2_{010}||-4_{001}^3\}$$

$$C_8: \{2_{010}||-4_{001}^3\}, \{^d2_{010}||-4_{001}^1\}$$

$$C_9: \{2_{010}||m_{001}\}, \{^d2_{010}||m_{001}\}$$

$$C_{10}: \{2_{100}||m_{010}\}, \{2_{100}||m_{100}\}, \{^d2_{100}||m_{010}\}, \{^d2_{100}||m_{100}\}$$

$$C_{11}: \{2_{100}||m_{1-10}\}, \{2_{100}||m_{110}\}, \{^d2_{100}||m_{1-10}\}, \{^d2_{100}||m_{110}\}$$

$$C_{12}: \{^d1||1\}$$

$$C_{13}: \{^d1||2_{001}\}$$

$$C_{14}: \{^d1||4_{001}^1\}, \{^d1||4_{001}^3\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	1	1	-1	1	-1	1	1	-1
GM3	1	1	-1	-1	1	1	-1	-1	1	-1	1	1	1	-1
GM4	1	1	-1	1	-1	-1	1	1	-1	-1	1	1	1	-1
GM5	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	1	-1
GM6	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1
GM7	1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	1
GM8	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
GM9	2	-2	0	0	0	-2	0	0	2	0	0	2	-2	0
GM10	2	-2	0	0	0	2	0	0	-2	0	0	2	-2	0
<u>GM11</u>	2	2	2	0	0	0	0	0	0	0	0	-2	-2	-2
<u>GM12</u>	2	2	-2	0	0	0	0	0	0	0	0	-2	-2	2
<u>GM13</u>	2	-2	0	0	0	0	-2	2	0	0	0	-2	2	0
<u>GM14</u>	2	-2	0	0	0	0	2	-2	0	0	0	-2	2	0

$$14/m001m^{-1}m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|4_{001}^1\}, \{1\|4_{001}^3\}$$

$$C_4: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{100}\}$$

$$C_5: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$$

$$C_9: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{100}\}$$

$$C_{10}: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6GM6</u>	4	-4	0	0	0	-4	4	0	0	0
<u>GM7GM8</u>	2	2	-2	0	0	-2	-2	2	0	0
<u>GM9GM10</u>	2	2	2	0	0	-2	-2	-2	0	0

$$14/-1m^{2001}m^{2001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|4_{001}^1\}, \{1\|4_{001}^3\}$$

$$C_4: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{100}\}$$

$$C_5: \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$$

$$C_9: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{100}\}$$

$$C_{10}: \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
GM6	2	-2	0	0	0	-2	2	0	0	0
GM7GM8	2	2	-2	0	0	-2	-2	2	0	0
GM9GM10	2	2	2	0	0	-2	-2	-2	0	0

$$14/2_{001}m^{m001}m^{m001}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||4_{001}^1\}$
 $C_4: \{1||4_{001}^3\}$
 $C_5: \{2_{001}||-1\}$
 $C_6: \{2_{001}||-4_{001}^1\}$
 $C_7: \{2_{001}||-4_{001}^3\}$
 $C_8: \{2_{001}||m_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||2_{001}\}$
 $C_{11}: \{^d1||4_{001}^1\}$
 $C_{12}: \{^d1||4_{001}^3\}$
 $C_{13}: \{^d2_{001}||-1\}$
 $C_{14}: \{^d2_{001}||-4_{001}^1\}$
 $C_{15}: \{^d2_{001}||-4_{001}^3\}$
 $C_{16}: \{^d2_{001}||m_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	-1
GM3	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-i	i	-1	i	-i	1	1	-1	-i	i	-1	i	-i	1
GM6	1	-1	i	-i	-1	-i	i	1	1	-1	i	-i	-1	-i	i	1
GM7	1	-1	-i	i	1	-i	i	-1	1	-1	-i	i	1	-i	i	-1
GM8	1	-1	i	-i	1	i	-i	-1	1	-1	i	-i	1	i	-i	-1
$\overline{\text{GM9GM10}}$	2	-2	-2i	2i	0	0	0	0	-2	2	2i	-2i	0	0	0	0
$\overline{\text{GM11GM12}}$	2	-2	2i	-2i	0	0	0	0	-2	2	-2i	2i	0	0	0	0
$\overline{\text{GM13GM14}}$	2	2	-2	-2	0	0	0	0	-2	-2	2	2	0	0	0	0
$\overline{\text{GM15GM16}}$	2	2	2	2	0	0	0	0	-2	-2	-2	-2	0	0	0	0

$$14/-1m^{m001}m^{m001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|4_{001}^1\}, \{1\|4_{001}^3\}$$

$$C_4: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{100}\}$$

$$C_5: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$$

$$C_9: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{100}\}$$

$$C_{10}: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
GM6	2	-2	0	0	0	-2	2	0	0	0
GM7GM8	2	2	-2	0	0	-2	-2	2	0	0
GM9GM10	2	2	2	0	0	-2	-2	-2	0	0

$$14/2_{001}m^{-1}m^{-1}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||4_{001}^1\}$
 $C_4: \{1||4_{001}^3\}$
 $C_5: \{2_{001}||-1\}$
 $C_6: \{2_{001}||-4_{001}^1\}$
 $C_7: \{2_{001}||-4_{001}^3\}$
 $C_8: \{2_{001}||m_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||2_{001}\}$
 $C_{11}: \{^d1||4_{001}^1\}$
 $C_{12}: \{^d1||4_{001}^3\}$
 $C_{13}: \{^d2_{001}||-1\}$
 $C_{14}: \{^d2_{001}||-4_{001}^1\}$
 $C_{15}: \{^d2_{001}||-4_{001}^3\}$
 $C_{16}: \{^d2_{001}||m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	-1
GM3	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-i	i	-1	i	-i	1	1	-1	-i	i	-1	i	-i	1
GM6	1	-1	i	-i	-1	-i	i	1	1	-1	i	-i	-1	-i	i	1
GM7	1	-1	-i	i	1	-i	i	-1	1	-1	-i	i	1	-i	i	-1
GM8	1	-1	i	-i	1	i	-i	-1	1	-1	i	-i	1	i	-i	-1
<u>GM9GM10</u>	2	-2	-2i	2i	0	0	0	0	-2	2	2i	-2i	0	0	0	0
<u>GM11GM12</u>	2	-2	2i	-2i	0	0	0	0	-2	2	-2i	2i	0	0	0	0
<u>GM13GM14</u>	2	2	-2	-2	0	0	0	0	-2	-2	2	2	0	0	0	0
<u>GM15GM16</u>	2	2	2	2	0	0	0	0	-2	-2	-2	-2	0	0	0	0

$$14/m001m^2001m^2001m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|4_{001}^1\}, \{1\|4_{001}^3\}$$

$$C_4: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{100}\}$$

$$C_5: \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$$

$$C_9: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{100}\}$$

$$C_{10}: \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6GM6</u>	4	-4	0	0	0	-4	4	0	0	0
<u>GM7GM8</u>	2	2	-2	0	0	-2	-2	2	0	0
<u>GM9GM10</u>	2	2	2	0	0	-2	-2	-2	0	0

$14/m_{010}m_{100}m_{100}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|4_{001}^1\}, \{1\|4_{001}^3\}$

$C_4: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{100}\}$

$C_5: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}$

$C_8: \{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$

$C_9: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{100}\}$

$C_{10}: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
$\overline{\text{GM6}}$	1	1	-1	-i	i	-1	-1	1	i	-i
$\overline{\text{GM7}}$	1	1	-1	i	-i	-1	-1	1	-i	i
$\overline{\text{GM8}}$	1	1	1	-i	-i	-1	-1	-1	i	i
$\overline{\text{GM9}}$	1	1	1	i	i	-1	-1	-1	-i	-i
$\overline{\text{GM10}}$	2	-2	0	0	0	-2	2	0	0	0

$$14/m_{100}m^2_{001}m^2_{001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|4_{001}^1\}, \{1\|4_{001}^3\}$$

$$C_4: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{100}\}$$

$$C_5: \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$$

$$C_9: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{100}\}$$

$$C_{10}: \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-i	i	-1	-1	1	i	-i
<u>GM7</u>	1	1	-1	i	-i	-1	-1	1	-i	i
<u>GM8</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM9</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$$14/2_{001}m^{m_{010}}m^{m_{010}}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||4_{001}^1\}$
 $C_4: \{1||4_{001}^3\}$
 $C_5: \{2_{001}||-1\}$
 $C_6: \{2_{001}||-4_{001}^1\}$
 $C_7: \{2_{001}||-4_{001}^3\}$
 $C_8: \{2_{001}||m_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||2_{001}\}$
 $C_{11}: \{^d1||4_{001}^1\}$
 $C_{12}: \{^d1||4_{001}^3\}$
 $C_{13}: \{^d2_{001}||-1\}$
 $C_{14}: \{^d2_{001}||-4_{001}^1\}$
 $C_{15}: \{^d2_{001}||-4_{001}^3\}$
 $C_{16}: \{^d2_{001}||m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	-1
GM3	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-i	i	-1	i	-i	1	1	-1	-i	i	-1	i	-i	1
GM6	1	-1	i	-i	-1	-i	i	1	1	-1	i	-i	-1	-i	i	1
GM7	1	-1	-i	i	1	-i	i	-1	1	-1	-i	i	1	-i	i	-1
GM8	1	-1	i	-i	1	i	-i	-1	1	-1	i	-i	1	i	-i	-1
<u>GM9</u>	1	-1	-i	i	-i	-1	1	i	-1	1	i	-i	i	1	-1	-i
<u>GM10</u>	1	-1	i	-i	i	-1	1	-i	-1	1	-i	i	-i	1	-1	i
<u>GM11</u>	1	-1	-i	i	i	1	-1	-i	-1	1	i	-i	-i	-1	1	i
<u>GM12</u>	1	-1	i	-i	-i	1	-1	i	-1	1	-i	i	i	-1	1	-i
<u>GM13</u>	1	1	-1	-1	-i	i	i	-i	-1	-1	1	1	i	-i	-i	i
<u>GM14</u>	1	1	-1	-1	i	-i	-i	i	-1	-1	1	1	-i	i	i	-i
<u>GM15</u>	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
<u>GM16</u>	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i

$$2_{001}4/2_{001}m^2_{100}m^2_{010}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||-4_{001}^3\}, \{1||-4_{001}^1\}$
 $C_4: \{2_{001}||4_{001}^3\}, \{^d2_{001}||4_{001}^1\}$
 $C_5: \{2_{001}||-1\}, \{^d2_{001}||-1\}$
 $C_6: \{2_{001}||m_{001}\}, \{^d2_{001}||m_{001}\}$
 $C_7: \{2_{001}||4_{001}^1\}, \{^d2_{001}||4_{001}^3\}$
 $C_8: \{2_{010}||m_{1-10}\}, \{2_{010}||m_{110}\}, \{^d2_{010}||m_{1-10}\}, \{^d2_{010}||m_{110}\}$
 $C_9: \{2_{010}||2_{100}\}, \{2_{010}||2_{010}\}, \{^d2_{010}||2_{100}\}, \{^d2_{010}||2_{010}\}$
 $C_{10}: \{2_{100}||m_{100}\}, \{2_{100}||m_{010}\}, \{^d2_{100}||m_{100}\}, \{^d2_{100}||m_{010}\}$
 $C_{11}: \{2_{100}||2_{1-10}\}, \{2_{100}||2_{110}\}, \{^d2_{100}||2_{1-10}\}, \{^d2_{100}||2_{110}\}$
 $C_{12}: \{^d1||1\}$
 $C_{13}: \{^d1||2_{001}\}$
 $C_{14}: \{^d1||-4_{001}^3\}, \{^d1||-4_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1	1	1	-1	1	1	-1
GM3	1	1	-1	-1	1	1	-1	1	-1	-1	1	1	1	-1
GM4	1	1	-1	1	-1	-1	1	-1	1	-1	1	1	1	-1
GM5	1	1	-1	1	-1	-1	1	1	-1	1	-1	1	1	-1
GM6	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1
GM7	1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1
GM8	1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1
GM9	2	-2	0	0	-2	2	0	0	0	0	0	2	-2	0
GM10	2	-2	0	0	2	-2	0	0	0	0	0	2	-2	0
<u>GM11</u>	2	2	2	0	0	0	0	0	0	0	0	-2	-2	-2
<u>GM12</u>	2	2	-2	0	0	0	0	0	0	0	0	-2	-2	2
<u>GM13</u>	2	-2	0	-2	0	0	2	0	0	0	0	-2	2	0
<u>GM14</u>	2	-2	0	2	0	0	-2	0	0	0	0	-2	2	0

$$2_{001}4/2_{001}m^{-1}m^{m_{001}}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||-4_{001}^3\}$
 $C_4: \{1||-4_{001}^1\}$
 $C_5: \{2_{001}||4_{001}^3\}$
 $C_6: \{2_{001}||-1\}$
 $C_7: \{2_{001}||m_{001}\}$
 $C_8: \{2_{001}||4_{001}^1\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||2_{001}\}$
 $C_{11}: \{^d1||-4_{001}^3\}$
 $C_{12}: \{^d1||-4_{001}^1\}$
 $C_{13}: \{^d2_{001}||4_{001}^3\}$
 $C_{14}: \{^d2_{001}||-1\}$
 $C_{15}: \{^d2_{001}||m_{001}\}$
 $C_{16}: \{^d2_{001}||4_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	-1
GM3	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-i	i	-i	1	-1	i	1	-1	-i	i	-i	1	-1	i
GM6	1	-1	i	-i	i	1	-1	-i	1	-1	i	-i	i	1	-1	-i
GM7	1	-1	-i	i	i	-1	1	-i	1	-1	-i	i	i	-1	1	-i
GM8	1	-1	i	-i	-i	-1	1	i	1	-1	i	-i	-i	-1	1	i
<u>GM9GM10</u>	2	-2	-2i	2i	0	0	0	0	-2	2	2i	-2i	0	0	0	0
<u>GM11GM12</u>	2	-2	2i	-2i	0	0	0	0	-2	2	-2i	2i	0	0	0	0
<u>GM13GM14</u>	2	2	-2	-2	0	0	0	0	-2	-2	2	2	0	0	0	0
<u>GM15GM16</u>	2	2	2	2	0	0	0	0	-2	-2	-2	-2	0	0	0	0

$$m_{001}4/m_{001}m^{2_{001}}m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\| - 4_{001}^3\}, \{1\| - 4_{001}^1\}$$

$$C_4: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{010}\}$$

$$C_5: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\| - 4_{001}^3\}, \{^d1\| - 4_{001}^1\}$$

$$C_9: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{010}\}$$

$$C_{10}: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6GM6</u>	4	-4	0	0	0	-4	4	0	0	0
<u>GM7GM8</u>	2	2	-2	0	0	-2	-2	2	0	0
<u>GM9GM10</u>	2	2	2	0	0	-2	-2	-2	0	0

$$^{-1}4/^{-1}m^{2001}m^{m001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\| - 4_{001}^3\}, \{1\| - 4_{001}^1\}$$

$$C_4: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{010}\}$$

$$C_5: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\| - 4_{001}^3\}, \{^d1\| - 4_{001}^1\}$$

$$C_9: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{010}\}$$

$$C_{10}: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
GM6	2	-2	0	0	0	-2	2	0	0	0
GM7GM8	2	2	-2	0	0	-2	-2	2	0	0
GM9GM10	2	2	2	0	0	-2	-2	-2	0	0

$2_{001}4/2_{001}m^{m_{100}}m^{m_{010}}m$

Classes:

- $C_1: \{1||1\}$
- $C_2: \{1||2_{001}\}$
- $C_3: \{1||-4_{001}^3\}$
- $C_4: \{1||-4_{001}^1\}$
- $C_5: \{2_{001}||4_{001}^3\}$
- $C_6: \{2_{001}||-1\}$
- $C_7: \{2_{001}||m_{001}\}$
- $C_8: \{2_{001}||4_{001}^1\}$
- $C_9: \{^d1||1\}$
- $C_{10}: \{^d1||2_{001}\}$
- $C_{11}: \{^d1||-4_{001}^3\}$
- $C_{12}: \{^d1||-4_{001}^1\}$
- $C_{13}: \{^d2_{001}||4_{001}^3\}$
- $C_{14}: \{^d2_{001}||-1\}$
- $C_{15}: \{^d2_{001}||m_{001}\}$
- $C_{16}: \{^d2_{001}||4_{001}^1\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	-1
GM3	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-i	i	-i	1	-1	i	1	-1	-i	i	-i	1	-1	i
GM6	1	-1	i	-i	i	1	-1	-i	1	-1	i	-i	i	1	-1	-i
GM7	1	-1	-i	i	i	-1	1	-i	1	-1	-i	i	i	-1	1	-i
GM8	1	-1	i	-i	-i	-1	1	i	1	-1	i	-i	-i	-1	1	i
<u>GM9</u>	1	-1	-i	i	-1	-i	i	1	-1	1	i	-i	1	i	-i	-1
<u>GM10</u>	1	-1	i	-i	-1	i	-i	1	-1	1	-i	i	1	-i	i	-1
<u>GM11</u>	1	-1	-i	i	1	i	-i	-1	-1	1	i	-i	-1	-i	i	1
<u>GM12</u>	1	-1	i	-i	1	-i	i	-1	-1	1	-i	i	-1	i	-i	1
<u>GM13</u>	1	1	-1	-1	-i	i	i	-i	-1	-1	1	1	i	-i	-i	i
<u>GM14</u>	1	1	-1	-1	i	-i	-i	i	-1	-1	1	1	-i	i	i	-i
<u>GM15</u>	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
<u>GM16</u>	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i

$m_{0104}/m_{010}m^{2_{001}}m^{m_{100}}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\| -4_{001}^3\}, \{1\| -4_{001}^1\}$

$C_4: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{010}\}$

$C_5: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}$

$C_8: \{^d1\| -4_{001}^3\}, \{^d1\| -4_{001}^1\}$

$C_9: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{010}\}$

$C_{10}: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-i	i	-1	-1	1	i	-i
<u>GM7</u>	1	1	-1	i	-i	-1	-1	1	-i	i
<u>GM8</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM9</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$14/1m^{-1}m^{-1}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||4_{001}^1\}$
 $C_3: \{1||4_{001}^3\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||m_{001}\}$
 $C_6: \{1||-4_{001}^1\}$
 $C_7: \{1||-4_{001}^3\}$
 $C_8: \{1||2_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||4_{001}^1\}$
 $C_{11}: \{^d1||4_{001}^3\}$
 $C_{12}: \{^d1||-1\}$
 $C_{13}: \{^d1||m_{001}\}$
 $C_{14}: \{^d1||-4_{001}^1\}$
 $C_{15}: \{^d1||-4_{001}^3\}$
 $C_{16}: \{^d1||2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1
GM3	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1
GM5	1	-i	i	-1	1	i	-i	-1	1	-i	i	-1	1	i	-i	-1
GM6	1	i	-i	-1	1	-i	i	-1	1	i	-i	-1	1	-i	i	-1
GM7	1	-i	i	1	-1	-i	i	-1	1	-i	i	1	-1	-i	i	-1
GM8	1	i	-i	1	-1	i	-i	-1	1	i	-i	1	-1	i	-i	-1
GM9GM9	2	-2	-2	-2	-2	2	2	2	-2	2	2	2	2	-2	-2	-2
GM10GM10	2	-2	-2	2	2	-2	-2	2	-2	2	2	-2	-2	2	2	-2
GM11GM11	2	2	2	-2	-2	-2	-2	2	-2	-2	-2	2	2	2	2	-2
GM12GM12	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2
GM13GM13	2	-2i	2i	-2	2	2i	-2i	-2	-2	2i	-2i	2	-2	-2i	2i	2
GM14GM14	2	2i	-2i	-2	2	-2i	2i	-2	-2	-2i	2i	2	-2	2i	-2i	2
GM15GM15	2	-2i	2i	2	-2	-2i	2i	-2	-2	2i	-2i	-2	2	2i	-2i	2
GM16GM16	2	2i	-2i	2	-2	2i	-2i	-2	-2	-2i	2i	-2	2	-2i	2i	2

$14/1m^2_{001}m^2_{001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||4^1_{001}\}, \{1||4^3_{001}\}$
 $C_3: \{1||-1\}$
 $C_4: \{1||m_{001}\}$
 $C_5: \{1||-4^1_{001}\}, \{1||-4^3_{001}\}$
 $C_6: \{1||2_{001}\}$
 $C_7: \{2_{001}||m_{010}\}, \{2_{001}||m_{100}\}$
 $C_8: \{2_{001}||m_{1-10}\}, \{2_{001}||m_{110}\}$
 $C_9: \{2_{001}||2_{010}\}, \{2_{001}||2_{100}\}$
 $C_{10}: \{2_{001}||2_{1-10}\}, \{2_{001}||2_{110}\}$
 $C_{11}: \{^d1||1\}$
 $C_{12}: \{^d1||4^1_{001}\}, \{^d1||4^3_{001}\}$
 $C_{13}: \{^d1||-1\}$
 $C_{14}: \{^d1||m_{001}\}$
 $C_{15}: \{^d1||-4^1_{001}\}, \{^d1||-4^3_{001}\}$
 $C_{16}: \{^d1||2_{001}\}$
 $C_{17}: \{^d2_{001}||m_{010}\}, \{^d2_{001}||m_{100}\}$
 $C_{18}: \{^d2_{001}||m_{1-10}\}, \{^d2_{001}||m_{110}\}$
 $C_{19}: \{^d2_{001}||2_{010}\}, \{^d2_{001}||2_{100}\}$
 $C_{20}: \{^d2_{001}||2_{1-10}\}, \{^d2_{001}||2_{110}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	-1	1	1	-1	1	1	-1	1	-1	-1	-1	1	1	-1	1	1	-1
GM3	1	-1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	1
GM4	1	-1	1	1	-1	1	-1	1	-1	1	1	-1	1	1	-1	1	-1	1	-1	1
GM5	1	-1	1	1	-1	1	1	-1	1	-1	1	-1	1	1	-1	1	1	-1	1	-1
GM6	1	1	-1	-1	-1	1	-1	-1	1	1	1	1	-1	-1	-1	1	-1	-1	1	1
GM7	1	1	-1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	-1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
GM9	2	0	-2	2	0	-2	0	0	0	0	2	0	-2	2	0	-2	0	0	0	0
GM10	2	0	2	-2	0	-2	0	0	0	0	2	0	2	-2	0	-2	0	0	0	0
GM11	1	-1	-1	-1	1	1	-i	i	i	-i	-1	1	1	1	-1	-1	i	-i	-i	i
GM12	1	-1	-1	-1	1	1	i	-i	-i	i	-1	1	1	1	-1	-1	-i	i	i	-i
GM13	1	-1	1	1	-1	1	-i	i	-i	i	-1	1	-1	-1	1	-1	i	-i	i	-i
GM14	1	-1	1	1	-1	1	i	-i	i	-i	-1	1	-1	-1	1	-1	-i	i	-i	i
GM15	1	1	-1	-1	-1	1	-i	-i	i	i	-1	-1	1	1	1	-1	i	i	-i	-i
GM16	1	1	-1	-1	-1	1	i	i	-i	-i	-1	-1	1	1	1	-1	-i	-i	i	i
GM17	1	1	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i
GM18	1	1	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i
GM19	2	0	-2	2	0	-2	0	0	0	0	-2	0	2	-2	0	2	0	0	0	0
GM20	2	0	2	-2	0	-2	0	0	0	0	-2	0	-2	2	0	2	0	0	0	0

$$14/1m^{m001}m^{m001}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||4_{001}^1\}$
 $C_3: \{1||4_{001}^3\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||m_{001}\}$
 $C_6: \{1||-4_{001}^1\}$
 $C_7: \{1||-4_{001}^3\}$
 $C_8: \{1||2_{001}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||4_{001}^1\}$
 $C_{11}: \{^d1||4_{001}^3\}$
 $C_{12}: \{^d1||-1\}$
 $C_{13}: \{^d1||m_{001}\}$
 $C_{14}: \{^d1||-4_{001}^1\}$
 $C_{15}: \{^d1||-4_{001}^3\}$
 $C_{16}: \{^d1||2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1
GM3	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1
GM5	1	-i	i	-1	1	i	-i	-1	1	-i	i	-1	1	i	-i	-1
GM6	1	i	-i	-1	1	-i	i	-1	1	i	-i	-1	1	-i	i	-1
GM7	1	-i	i	1	-1	-i	i	-1	1	-i	i	1	-1	-i	i	-1
GM8	1	i	-i	1	-1	i	-i	-1	1	i	-i	1	-1	i	-i	-1
<u>GM9</u>	1	-1	-1	-1	-1	1	1	1	-1	1	1	1	1	-1	-1	-1
<u>GM10</u>	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1
<u>GM11</u>	1	1	1	-1	-1	-1	-1	1	-1	-1	-1	1	1	1	1	-1
<u>GM12</u>	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
<u>GM13</u>	1	-i	i	-1	1	i	-i	-1	-1	i	-i	1	-1	-i	i	1
<u>GM14</u>	1	i	-i	-1	1	-i	i	-1	-1	-i	i	1	-1	i	-i	1
<u>GM15</u>	1	-i	i	1	-1	-i	i	-1	-1	i	-i	-1	1	i	-i	1
<u>GM16</u>	1	i	-i	1	-1	i	-i	-1	-1	-i	i	-1	1	-i	i	1

$14/-1m^{-1}m^{-1}m$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}$

C_3 : $\{1\|2_{010}\}, \{1\|2_{100}\}$

C_4 : $\{1\|2_{1-10}\}, \{1\|2_{110}\}$

C_5 : $\{1\|4_{001}^1\}, \{1\|4_{001}^3\}$

C_6 : $\{^d1\|1\}$

C_7 : $\{^d1\|2_{001}\}$

C_8 : $\{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

C_9 : $\{^d1\|2_{1-10}\}, \{^d1\|2_{110}\}$

C_{10} : $\{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6GM6</u>	2	2	-2	-2	2	-2	-2	2	2	-2
<u>GM7GM7</u>	2	2	-2	2	-2	-2	-2	2	-2	2
<u>GM8GM8</u>	2	2	2	-2	-2	-2	-2	-2	2	2
<u>GM9GM9</u>	2	2	2	2	2	-2	-2	-2	-2	-2
<u>GM10GM10</u>	4	-4	0	0	0	-4	4	0	0	0

$14/2_{001}m^2_{001}m^2_{001}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{1\|2_{010}\}, \{1\|2_{100}\}$
 $C_4: \{1\|2_{1-10}\}, \{1\|2_{110}\}$
 $C_5: \{1\|4^1_{001}\}, \{1\|4^3_{001}\}$
 $C_6: \{2_{001}\| - 1\}$
 $C_7: \{2_{001}\| - 4^1_{001}\}, \{2_{001}\| - 4^3_{001}\}$
 $C_8: \{2_{001}\|m_{001}\}$
 $C_9: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{100}\}$
 $C_{10}: \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{110}\}$
 $C_{11}: \{^d1\|1\}$
 $C_{12}: \{^d1\|2_{001}\}$
 $C_{13}: \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$
 $C_{14}: \{^d1\|2_{1-10}\}, \{^d1\|2_{110}\}$
 $C_{15}: \{^d1\|4^1_{001}\}, \{^d1\|4^3_{001}\}$
 $C_{16}: \{^d2_{001}\| - 1\}$
 $C_{17}: \{^d2_{001}\| - 4^1_{001}\}, \{^d2_{001}\| - 4^3_{001}\}$
 $C_{18}: \{^d2_{001}\|m_{001}\}$
 $C_{19}: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{100}\}$
 $C_{20}: \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{110}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	-1	-1	1	1	1	1	-1	-1	1	-1	-1	-1	1	1
GM3	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1
GM4	1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	-1
GM5	1	1	-1	1	-1	1	-1	1	-1	1	1	1	-1	1	-1	1	-1	1	-1	1
GM6	1	1	1	-1	-1	-1	1	-1	-1	1	1	1	1	-1	-1	-1	1	-1	-1	1
GM7	1	1	1	-1	-1	1	-1	1	1	-1	1	1	1	-1	-1	1	-1	1	1	-1
GM8	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1
GM9	2	-2	0	0	0	2	0	-2	0	0	2	-2	0	0	0	2	0	-2	0	0
GM10	2	-2	0	0	0	-2	0	2	0	0	2	-2	0	0	0	-2	0	2	0	0
GM11	1	1	-1	-1	1	-i	-i	-i	i	i	-1	-1	1	1	-1	i	i	i	-i	-i
GM12	1	1	-1	-1	1	i	i	i	-i	-i	-1	-1	1	1	-1	-i	-i	-i	i	i
GM13	1	1	-1	1	-1	-i	i	-i	i	-i	-1	-1	1	-1	1	i	-i	i	-i	i
GM14	1	1	-1	1	-1	i	-i	i	-i	i	-1	-1	1	-1	1	-i	i	-i	i	-i
GM15	1	1	1	-1	-1	-i	i	-i	-i	i	-1	-1	-1	1	1	i	-i	i	i	-i
GM16	1	1	1	-1	-1	i	-i	i	i	-i	-1	-1	-1	1	1	-i	i	-i	-i	i
GM17	1	1	1	1	1	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	i	i	i	i	i
GM18	1	1	1	1	1	i	i	i	i	i	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i
GM19	2	-2	0	0	0	-2i	0	2i	0	0	-2	2	0	0	0	2i	0	-2i	0	0
GM20	2	-2	0	0	0	2i	0	-2i	0	0	-2	2	0	0	0	-2i	0	2i	0	0

$$14/m001m^m001m^m001m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|2_{010}\}, \{1\|2_{100}\}$$

$$C_4: \{1\|2_{1-10}\}, \{1\|2_{110}\}$$

$$C_5: \{1\|4_{001}^1\}, \{1\|4_{001}^3\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$$

$$C_9: \{^d1\|2_{1-10}\}, \{^d1\|2_{110}\}$$

$$C_{10}: \{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-1	1	-1	-1	1	1	-1
<u>GM7</u>	1	1	-1	1	-1	-1	-1	1	-1	1
<u>GM8</u>	1	1	1	-1	-1	-1	-1	-1	1	1
<u>GM9</u>	1	1	1	1	1	-1	-1	-1	-1	-1
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$14\bar{1}m^1m^1m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|4_{001}^1\}, \{1\|4_{001}^3\}$

$C_4: \{1\|m_{010}\}, \{1\|m_{100}\}$

$C_5: \{1\|m_{1-10}\}, \{1\|m_{110}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}$

$C_8: \{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$

$C_9: \{^d1\|m_{010}\}, \{^d1\|m_{100}\}$

$C_{10}: \{^d1\|m_{1-10}\}, \{^d1\|m_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
$\overline{\text{GM6}}\text{GM6}$	2	2	-2	-2	2	-2	-2	2	2	-2
$\overline{\text{GM7}}\text{GM7}$	2	2	-2	2	-2	-2	-2	2	-2	2
$\overline{\text{GM8}}\text{GM8}$	2	2	2	-2	-2	-2	-2	-2	2	2
$\overline{\text{GM9}}\text{GM9}$	2	2	2	2	2	-2	-2	-2	-2	-2
$\overline{\text{GM10}}\text{GM10}$	4	-4	0	0	0	-4	4	0	0	0

$14/2_{001}m^1m^1m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{1\|4_{001}^1\}, \{1\|4_{001}^3\}$
 $C_4: \{1\|m_{010}\}, \{1\|m_{100}\}$
 $C_5: \{1\|m_{1-10}\}, \{1\|m_{110}\}$
 $C_6: \{2_{001}\| - 1\}$
 $C_7: \{2_{001}\| - 4_{001}^1\}, \{2_{001}\| - 4_{001}^3\}$
 $C_8: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{100}\}$
 $C_9: \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$
 $C_{10}: \{2_{001}\|m_{001}\}$
 $C_{11}: \{^d1\|1\}$
 $C_{12}: \{^d1\|2_{001}\}$
 $C_{13}: \{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$
 $C_{14}: \{^d1\|m_{010}\}, \{^d1\|m_{100}\}$
 $C_{15}: \{^d1\|m_{1-10}\}, \{^d1\|m_{110}\}$
 $C_{16}: \{^d2_{001}\| - 1\}$
 $C_{17}: \{^d2_{001}\| - 4_{001}^1\}, \{^d2_{001}\| - 4_{001}^3\}$
 $C_{18}: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{100}\}$
 $C_{19}: \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$
 $C_{20}: \{^d2_{001}\|m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	-1
GM5	1	1	-1	1	-1	1	-1	1	-1	1	1	1	-1	1	-1	1	-1	1	-1	1
GM6	1	1	1	-1	-1	-1	-1	1	1	-1	1	1	1	-1	-1	-1	-1	1	1	-1
GM7	1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1
GM8	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1
GM9	2	-2	0	0	0	2	0	0	0	-2	2	-2	0	0	0	2	0	0	0	-2
GM10	2	-2	0	0	0	-2	0	0	0	2	2	-2	0	0	0	-2	0	0	0	2
GM11	1	1	-1	-1	1	-i	i	i	-i	-i	-1	-1	1	1	-1	i	-i	-i	i	i
GM12	1	1	-1	-1	1	i	-i	-i	i	i	-1	-1	1	1	-1	-i	i	i	-i	-i
GM13	1	1	-1	1	-1	-i	i	-i	i	-i	-1	-1	1	-1	1	i	-i	i	-i	i
GM14	1	1	-1	1	-1	i	-i	i	-i	i	-1	-1	1	-1	1	-i	i	-i	i	-i
GM15	1	1	1	-1	-1	-i	-i	i	i	-i	-1	-1	-1	1	1	i	i	-i	-i	i
GM16	1	1	1	-1	-1	i	i	-i	-i	i	-1	-1	-1	1	1	-i	-i	i	i	-i
GM17	1	1	1	1	1	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	i	i	i	i	i
GM18	1	1	1	1	1	i	i	i	i	i	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i
GM19	2	-2	0	0	0	-2i	0	0	0	2i	-2	2	0	0	0	2i	0	0	0	-2i
GM20	2	-2	0	0	0	2i	0	0	0	-2i	-2	2	0	0	0	-2i	0	0	0	2i

$$14/m001m^1m^1m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|4_{001}^1\}, \{1\|4_{001}^3\}$$

$$C_4: \{1\|m_{010}\}, \{1\|m_{100}\}$$

$$C_5: \{1\|m_{1-10}\}, \{1\|m_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}$$

$$C_8: \{^d1\|4_{001}^1\}, \{^d1\|4_{001}^3\}$$

$$C_9: \{^d1\|m_{010}\}, \{^d1\|m_{100}\}$$

$$C_{10}: \{^d1\|m_{1-10}\}, \{^d1\|m_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-1	1	-1	-1	1	1	-1
<u>GM7</u>	1	1	-1	1	-1	-1	-1	1	-1	1
<u>GM8</u>	1	1	1	-1	-1	-1	-1	-1	1	1
<u>GM9</u>	1	1	1	1	1	-1	-1	-1	-1	-1
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$$^{-1}4/^{-1}m^{-1}m^1m$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{1\| - 4_{001}^3\}, \{1\| - 4_{001}^1\}$
 $C_4: \{1\|m_{1-10}\}, \{1\|m_{110}\}$
 $C_5: \{1\|2_{100}\}, \{1\|2_{010}\}$
 $C_6: \{^d1\|1\}$
 $C_7: \{^d1\|2_{001}\}$
 $C_8: \{^d1\| - 4_{001}^3\}, \{^d1\| - 4_{001}^1\}$
 $C_9: \{^d1\|m_{1-10}\}, \{^d1\|m_{110}\}$
 $C_{10}: \{^d1\|2_{100}\}, \{^d1\|2_{010}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6GM6</u>	2	2	-2	-2	2	-2	-2	2	2	-2
<u>GM7GM7</u>	2	2	-2	2	-2	-2	-2	2	-2	2
<u>GM8GM8</u>	2	2	2	-2	-2	-2	-2	-2	2	2
<u>GM9GM9</u>	2	2	2	2	2	-2	-2	-2	-2	-2
<u>GM10GM10</u>	4	-4	0	0	0	-4	4	0	0	0

$2_{001}4/2_{001}m^2_{001}m^1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||-4^3_{001}\}, \{1||-4^1_{001}\}$
 $C_4: \{1||m_{1-10}\}, \{1||m_{110}\}$
 $C_5: \{1||2_{100}\}, \{1||2_{010}\}$
 $C_6: \{2_{001}||4^3_{001}\}, \{2_{001}||4^1_{001}\}$
 $C_7: \{2_{001}||m_{100}\}, \{2_{001}||m_{010}\}$
 $C_8: \{2_{001}||-1\}$
 $C_9: \{2_{001}||m_{001}\}$
 $C_{10}: \{2_{001}||2_{1-10}\}, \{2_{001}||2_{110}\}$
 $C_{11}: \{^d1||1\}$
 $C_{12}: \{^d1||2_{001}\}$
 $C_{13}: \{^d1||-4^3_{001}\}, \{^d1||-4^1_{001}\}$
 $C_{14}: \{^d1||m_{1-10}\}, \{^d1||m_{110}\}$
 $C_{15}: \{^d1||2_{100}\}, \{^d1||2_{010}\}$
 $C_{16}: \{^d2_{001}||4^3_{001}\}, \{^d2_{001}||4^1_{001}\}$
 $C_{17}: \{^d2_{001}||m_{100}\}, \{^d2_{001}||m_{010}\}$
 $C_{18}: \{^d2_{001}||-1\}$
 $C_{19}: \{^d2_{001}||m_{001}\}$
 $C_{20}: \{^d2_{001}||2_{1-10}\}, \{^d2_{001}||2_{110}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	1	1	1	-1	1	1	-1	-1	1	-1	1	1	1	-1
GM3	1	1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	-1	1
GM4	1	1	-1	1	-1	-1	-1	1	1	1	1	1	-1	1	-1	-1	-1	1	1	1
GM5	1	1	-1	1	-1	1	1	-1	-1	-1	1	1	-1	1	-1	1	1	-1	-1	-1
GM6	1	1	1	-1	-1	-1	1	-1	-1	1	1	1	1	-1	-1	-1	1	-1	-1	1
GM7	1	1	1	-1	-1	1	-1	1	1	-1	1	1	1	-1	-1	1	-1	1	1	-1
GM8	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1
GM9	2	-2	0	0	0	0	0	2	-2	0	2	-2	0	0	0	0	0	2	-2	0
GM10	2	-2	0	0	0	0	0	-2	2	0	2	-2	0	0	0	0	0	-2	2	0
GM11	1	1	-1	-1	1	-i	i	i	i	-i	-1	-1	1	1	-1	i	-i	-i	-i	i
GM12	1	1	-1	-1	1	i	-i	-i	-i	i	-1	-1	1	1	-1	-i	i	i	i	-i
GM13	1	1	-1	1	-1	-i	-i	i	i	i	-1	-1	1	-1	1	i	i	-i	-i	-i
GM14	1	1	-1	1	-1	i	i	-i	-i	-i	-1	-1	1	-1	1	-i	-i	i	i	i
GM15	1	1	1	-1	-1	-i	i	-i	-i	i	-1	-1	-1	1	1	i	-i	i	i	-i
GM16	1	1	1	-1	-1	i	-i	i	i	-i	-1	-1	-1	1	1	-i	i	-i	-i	i
GM17	1	1	1	1	1	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	i	i	i	i	i
GM18	1	1	1	1	1	i	i	i	i	i	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i
GM19	2	-2	0	0	0	0	0	-2i	2i	0	-2	2	0	0	0	0	0	2i	-2i	0
GM20	2	-2	0	0	0	0	0	2i	-2i	0	-2	2	0	0	0	0	0	-2i	2i	0

$m_{001}4/m_{001}m^{m_{001}}m^1m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\| - 4_{001}^3\}, \{1\| - 4_{001}^1\}$

$C_4: \{1\|m_{1-10}\}, \{1\|m_{110}\}$

$C_5: \{1\|2_{100}\}, \{1\|2_{010}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}$

$C_8: \{^d1\| - 4_{001}^3\}, \{^d1\| - 4_{001}^1\}$

$C_9: \{^d1\|m_{1-10}\}, \{^d1\|m_{110}\}$

$C_{10}: \{^d1\|2_{100}\}, \{^d1\|2_{010}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	-1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	1	-1	-1	1	1	1	-1	-1
GM5	2	-2	0	0	0	2	-2	0	0	0
<u>GM6</u>	1	1	-1	-1	1	-1	-1	1	1	-1
<u>GM7</u>	1	1	-1	1	-1	-1	-1	1	-1	1
<u>GM8</u>	1	1	1	-1	-1	-1	-1	-1	1	1
<u>GM9</u>	1	1	1	1	1	-1	-1	-1	-1	-1
<u>GM10</u>	2	-2	0	0	0	-2	2	0	0	0

$14/1m^1m^1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||4_{001}^1\}, \{1||4_{001}^3\}$
 $C_3: \{1||-1\}$
 $C_4: \{1||m_{001}\}$
 $C_5: \{1||m_{010}\}, \{1||m_{100}\}$
 $C_6: \{1||m_{1-10}\}, \{1||m_{110}\}$
 $C_7: \{1||-4_{001}^1\}, \{1||-4_{001}^3\}$
 $C_8: \{1||2_{001}\}$
 $C_9: \{1||2_{010}\}, \{1||2_{100}\}$
 $C_{10}: \{1||2_{1-10}\}, \{1||2_{110}\}$
 $C_{11}: \{^d1||1\}$
 $C_{12}: \{^d1||4_{001}^1\}, \{^d1||4_{001}^3\}$
 $C_{13}: \{^d1||-1\}$
 $C_{14}: \{^d1||m_{001}\}$
 $C_{15}: \{^d1||m_{010}\}, \{^d1||m_{100}\}$
 $C_{16}: \{^d1||m_{1-10}\}, \{^d1||m_{110}\}$
 $C_{17}: \{^d1||-4_{001}^1\}, \{^d1||-4_{001}^3\}$
 $C_{18}: \{^d1||2_{001}\}$
 $C_{19}: \{^d1||2_{010}\}, \{^d1||2_{100}\}$
 $C_{20}: \{^d1||2_{1-10}\}, \{^d1||2_{110}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	-1	-1	1	1	1	1	-1	1	-1	-1	-1	-1	1	1	1	1	-1
GM3	1	-1	-1	-1	1	1	-1	1	1	-1	1	-1	-1	-1	1	-1	1	1	-1	1
GM4	1	-1	1	1	-1	1	-1	1	-1	1	1	-1	1	1	-1	1	-1	1	-1	1
GM5	1	-1	1	1	1	-1	-1	1	1	-1	1	-1	1	1	1	-1	-1	1	1	-1
GM6	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1
GM7	1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	-1
GM8	1	1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1
GM9	2	0	-2	2	0	0	0	-2	0	0	2	0	-2	2	0	0	0	-2	0	0
GM10	2	0	2	-2	0	0	0	-2	0	0	2	0	2	-2	0	0	0	-2	0	0
GM11	1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1
GM12	1	-1	-1	-1	1	-1	1	1	-1	1	-1	1	1	1	-1	1	-1	-1	1	-1
GM13	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1
GM14	1	-1	1	1	1	-1	-1	1	1	-1	-1	1	-1	-1	-1	1	1	-1	-1	1
GM15	1	1	-1	-1	-1	-1	-1	1	1	1	-1	-1	1	1	1	1	1	-1	-1	-1
GM16	1	1	-1	-1	1	1	-1	1	-1	-1	-1	-1	1	1	-1	-1	1	-1	1	1
GM17	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1
GM18	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
GM19	2	0	-2	2	0	0	0	-2	0	0	-2	0	2	-2	0	0	0	2	0	0
GM20	2	0	2	-2	0	0	0	-2	0	0	-2	0	-2	2	0	0	0	2	0	0

$$3^1_{0013}$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{3^1_{001} \parallel 3^1_{001}\}$$

$$C_3: \{3^2_{001} \parallel 3^2_{001}\}$$

$$C_4: \{^d1 \parallel 1\}$$

$$C_5: \{^d3^1_{001} \parallel 3^1_{001}\}$$

$$C_6: \{^d3^2_{001} \parallel 3^2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM3	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
$\overline{\text{GM4}}$	1	-1	1	-1	1	-1
$\overline{\text{GM5}}$	1	ω^*	$-\omega$	-1	$-\omega^*$	ω
$\overline{\text{GM6}}$	1	ω	$-\omega^*$	-1	$-\omega$	ω^*

Classes: $C_1: \{1\|1\}$ $C_2: \{1\|3_{001}^1\}$ $C_3: \{1\|3_{001}^2\}$ $C_4: \{^d1\|1\}$ $C_5: \{^d1\|3_{001}^1\}$ $C_6: \{^d1\|3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM3	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
$\overline{\text{GM4}}$	1	1	1	-1	-1	-1
$\overline{\text{GM5}}$	1	$-\omega$	$-\omega^*$	-1	ω	ω^*
$\overline{\text{GM6}}$	1	$-\omega^*$	$-\omega$	-1	ω^*	ω

$6^5_{001}\text{-}3$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{2_{001} \parallel -1\}$
 $C_3: \{3^1_{001} \parallel 3^1_{001}\}$
 $C_4: \{3^2_{001} \parallel 3^2_{001}\}$
 $C_5: \{6^1_{001} \parallel -3^2_{001}\}$
 $C_6: \{6^5_{001} \parallel -3^1_{001}\}$
 $C_7: \{^d1 \parallel 1\}$
 $C_8: \{^d2_{001} \parallel -1\}$
 $C_9: \{^d3^1_{001} \parallel 3^1_{001}\}$
 $C_{10}: \{^d3^2_{001} \parallel 3^2_{001}\}$
 $C_{11}: \{^d6^1_{001} \parallel -3^2_{001}\}$
 $C_{12}: \{^d6^5_{001} \parallel -3^1_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
$\overline{\text{GM7}}$	1	-i	-1	1	i	i	-1	i	1	-1	-i	-i
$\overline{\text{GM8}}$	1	i	-1	1	-i	-i	-1	-i	1	-1	i	i
$\overline{\text{GM9}}$	1	-i	ω^*	$-\omega$	τ^*	$-\tau$	-1	i	$-\omega^*$	ω	$-\tau^*$	τ
$\overline{\text{GM10}}$	1	-i	ω	$-\omega^*$	$-\tau$	τ^*	-1	i	$-\omega$	ω^*	τ	$-\tau^*$
$\overline{\text{GM11}}$	1	i	ω^*	$-\omega$	$-\tau^*$	τ	-1	-i	$-\omega^*$	ω	τ^*	$-\tau$
$\overline{\text{GM12}}$	1	i	ω	$-\omega^*$	τ	$-\tau^*$	-1	-i	$-\omega$	ω^*	$-\tau$	τ^*

$$-6_{001}^1-3$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{3_{001}^1||3_{001}^2\}$$

$$C_3: \{3_{001}^2||3_{001}^1\}$$

$$C_4: \{^d1||1\}$$

$$C_5: \{^d3_{001}^1||3_{001}^2\}$$

$$C_6: \{^d3_{001}^2||3_{001}^1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2GM3	2	-1	-1	2	-1	-1
<u>GM4</u>	1	-1	1	-1	1	-1
<u>GM5GM6</u>	2	1	-1	-2	-1	1

$$-3_{001}^1-3$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{3_{001}^1||3_{001}^1\}$$

$$C_3: \{3_{001}^2||3_{001}^2\}$$

$$C_4: \{^d1||1\}$$

$$C_5: \{^d3_{001}^1||3_{001}^1\}$$

$$C_6: \{^d3_{001}^2||3_{001}^2\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2GM3	2	-1	-1	2	-1	-1
GM4GM4	2	-2	2	-2	2	-2
GM5GM6	2	1	-1	-2	-1	1

3^1_{001}-3

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{3^1_{001}||3^1_{001}\}$
 $C_4: \{3^1_{001}||-3^1_{001}\}$
 $C_5: \{3^2_{001}||3^2_{001}\}$
 $C_6: \{3^2_{001}||-3^2_{001}\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||-1\}$
 $C_9: \{^d3^1_{001}||3^1_{001}\}$
 $C_{10}: \{^d3^1_{001}||-3^1_{001}\}$
 $C_{11}: \{^d3^2_{001}||3^2_{001}\}$
 $C_{12}: \{^d3^2_{001}||-3^2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	$-\omega$	ω	$-\omega^*$	ω^*	1	-1	$-\omega$	ω	$-\omega^*$	ω^*
GM4	1	-1	$-\omega^*$	ω^*	$-\omega$	ω	1	-1	$-\omega^*$	ω^*	$-\omega$	ω
GM5	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM6	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
<u>GM7</u>	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
<u>GM8</u>	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
<u>GM9</u>	1	-1	ω^*	$-\omega^*$	$-\omega$	ω	-1	1	$-\omega^*$	ω^*	ω	$-\omega$
<u>GM10</u>	1	-1	ω	$-\omega$	$-\omega^*$	ω^*	-1	1	$-\omega$	ω	ω^*	$-\omega^*$
<u>GM11</u>	1	1	ω^*	ω^*	$-\omega$	$-\omega$	-1	-1	$-\omega^*$	$-\omega^*$	ω	ω
<u>GM12</u>	1	1	ω	ω	$-\omega^*$	$-\omega^*$	-1	-1	$-\omega$	$-\omega$	ω^*	ω^*

-1_3

Classes:

$C_1: \{1||1\}$

$C_2: \{1||3_{001}^1\}$

$C_3: \{1||3_{001}^2\}$

$C_4: \{^d1||1\}$

$C_5: \{^d1||3_{001}^1\}$

$C_6: \{^d1||3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2GM3	2	-1	-1	2	-1	-1
GM4GM4	2	2	2	-2	-2	-2
GM5GM6	2	-1	-1	-2	1	1

2_{001-3}

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{2_{001}||-1\}$
 $C_5: \{2_{001}||-3_{001}^1\}$
 $C_6: \{2_{001}||-3_{001}^2\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^1\}$
 $C_9: \{^d1||3_{001}^2\}$
 $C_{10}: \{^d2_{001}||-1\}$
 $C_{11}: \{^d2_{001}||-3_{001}^1\}$
 $C_{12}: \{^d2_{001}||-3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	1	$-\omega$	$-\omega^*$	-1	ω	ω^*
GM4	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	1	$-\omega^*$	$-\omega$	-1	ω^*	ω
GM5	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
$\overline{\text{GM7}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM8}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM9}}$	1	$-\omega$	$-\omega^*$	-i	$-\tau^*$	τ	-1	ω	ω^*	i	τ^*	$-\tau$
$\overline{\text{GM10}}$	1	$-\omega$	$-\omega^*$	i	τ^*	$-\tau$	-1	ω	ω^*	-i	$-\tau^*$	τ
$\overline{\text{GM11}}$	1	$-\omega^*$	$-\omega$	-i	τ	$-\tau^*$	-1	ω^*	ω	i	$-\tau$	τ^*
$\overline{\text{GM12}}$	1	$-\omega^*$	$-\omega$	i	$-\tau$	τ^*	-1	ω^*	ω	-i	τ	$-\tau^*$

m001-3

Classes:

C₁: {1||1}

C₂: {1||3₀₀₁¹}

C₃: {1||3₀₀₁²}

C₄: {^d1||1}

C₅: {^d1||3₀₀₁¹}

C₆: {^d1||3₀₀₁²}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2GM3	2	-1	-1	2	-1	-1
<u>GM4</u>	1	1	1	-1	-1	-1
<u>GM5GM6</u>	2	-1	-1	-2	1	1

1-3

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||-3_{001}^1\}$
 $C_6: \{1||-3_{001}^2\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^1\}$
 $C_9: \{^d1||3_{001}^2\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d1||-3_{001}^1\}$
 $C_{12}: \{^d1||-3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	1	$-\omega$	$-\omega^*$	-1	ω	ω^*
GM4	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	1	$-\omega^*$	$-\omega$	-1	ω^*	ω
GM5	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
<u>GM7</u>	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
<u>GM8</u>	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
<u>GM9</u>	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	-1	ω	ω^*	1	$-\omega$	$-\omega^*$
<u>GM10</u>	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	-1	ω^*	ω	1	$-\omega^*$	$-\omega$
<u>GM11</u>	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	-1	ω	ω^*
<u>GM12</u>	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	-1	ω^*	ω

$$3_{001}^1 3_1^1 1_{\frac{2}{3}\pi}^2 2$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{100}\|2_{\frac{5}{6}\pi}\}, \{2_{\frac{2}{3}\pi}\|2_{010}\}, \{^d2_{\frac{1}{3}\pi}\|2_{\frac{1}{6}\pi}\}$$

$$C_3: \{2_{\frac{1}{3}\pi}\|2_{\frac{1}{6}\pi}\}, \{^d2_{100}\|2_{\frac{5}{6}\pi}\}, \{^d2_{\frac{2}{3}\pi}\|2_{010}\}$$

$$C_4: \{3_{001}^1\|3_{001}^1\}, \{^d3_{001}^2\|3_{001}^2\}$$

$$C_5: \{3_{001}^2\|3_{001}^2\}, \{^d3_{001}^1\|3_{001}^1\}$$

$$C_6: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
$\overline{\text{GM4}}$	1	-i	i	-1	1	-1
$\overline{\text{GM5}}$	1	i	-i	-1	1	-1
$\overline{\text{GM6}}$	2	0	0	1	-1	-2

$$3_{001}^1 3_1^1 m_5^5 \pi_2$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{3_{001}^1 \parallel 3_{001}^1\}$$

$$C_3: \{3_{001}^2 \parallel 3_{001}^2\}$$

$$C_4: \{d_1 \parallel 1\}$$

$$C_5: \{d_3^1_{001} \parallel 3_{001}^1\}$$

$$C_6: \{d_3^2_{001} \parallel 3_{001}^2\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM3	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
$\overline{\text{GM4}}$	1	-1	1	-1	1	-1
$\overline{\text{GM5}}$	1	ω^*	$-\omega$	-1	$-\omega^*$	ω
$\overline{\text{GM6}}$	1	ω	$-\omega^*$	-1	$-\omega$	ω^*

$13^11^{-1}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}$

$C_3: \{1\|3_{001}^2\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}$

$C_6: \{^d1\|3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM3	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
<u>GM4GM4</u>	2	2	2	-2	-2	-2
<u>GM5GM5</u>	2	-2ω	$-2\omega^*$	-2	2ω	$2\omega^*$
<u>GM6GM6</u>	2	$-2\omega^*$	-2ω	-2	$2\omega^*$	2ω

13^11^20012

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_6: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	1	1	-i	-1	-1	i
$\overline{\text{GM5}}$	1	1	i	-1	-1	-i
$\overline{\text{GM6}}$	2	-1	0	-2	1	0

1311^m0012

Classes:

$C_1: \{1\parallel 1\}$

$C_2: \{1\parallel 3_{001}^1\}$

$C_3: \{1\parallel 3_{001}^2\}$

$C_4: \{^d1\parallel 1\}$

$C_5: \{^d1\parallel 3_{001}^1\}$

$C_6: \{^d1\parallel 3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM3	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
$\overline{\text{GM4}}$	1	1	1	-1	-1	-1
$\overline{\text{GM5}}$	1	$-\omega$	$-\omega^*$	-1	ω	ω^*
$\overline{\text{GM6}}$	1	$-\omega^*$	$-\omega$	-1	ω^*	ω

$13^1 1^1 2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$

$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$

$C_6: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	1
GM3	2	0	-1	2	0	-1
$\overline{\text{GM4}}$	1	-1	1	-1	1	-1
$\overline{\text{GM5}}$	1	1	1	-1	-1	-1
$\overline{\text{GM6}}$	2	0	-1	-2	0	1

$$3_{001}^1 3_{\frac{2}{3}\pi}^2 m^1 1$$

Classes:

C₁: {1||1}

C₂: {2₁₀₀||m _{$\frac{1}{3}\pi$} }, {2 _{$\frac{2}{3}\pi$} ||m₁₀₀}, {d2 _{$\frac{1}{3}\pi$} ||m _{$\frac{2}{3}\pi$} }

C₃: {2 _{$\frac{1}{3}\pi$} ||m _{$\frac{2}{3}\pi$} }, {d2₁₀₀||m _{$\frac{1}{3}\pi$} }, {d2 _{$\frac{2}{3}\pi$} ||m₁₀₀}

C₄: {3₀₀₁¹||3₀₀₁¹}, {d3₀₀₁²||3₀₀₁²}

C₅: {3₀₀₁²||3₀₀₁²}, {d3₀₀₁¹||3₀₀₁¹}

C₆: {d1||1}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
<u>GM4</u>	1	-i	i	-1	1	-1
<u>GM5</u>	1	i	-i	-1	1	-1
<u>GM6</u>	2	0	0	1	-1	-2

$$3_{001}^1 3_{\frac{1}{6}\pi}^{\mathbf{m}1} \mathbf{m}^1 1$$

Classes:

C₁: {1||1}

C₂: {3₀₀₁¹||3₀₀₁¹}

C₃: {3₀₀₁²||3₀₀₁²}

C₄: {d1||1}

C₅: {d3₀₀₁¹||3₀₀₁¹}

C₆: {d3₀₀₁²||3₀₀₁²}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	−ω	−ω*	1	−ω	−ω*
GM3	1	−ω*	−ω	1	−ω*	−ω
<u>GM4</u>	1	−1	1	−1	1	−1
<u>GM5</u>	1	ω*	−ω	−1	−ω*	ω
<u>GM6</u>	1	ω	−ω*	−1	−ω	ω*

$13^{-1}m^11$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}$

$C_3: \{1\|3_{001}^2\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}$

$C_6: \{^d1\|3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM3	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
<u>GM4GM4</u>	2	2	2	-2	-2	-2
<u>GM5GM5</u>	2	-2ω	$-2\omega^*$	-2	2ω	$2\omega^*$
<u>GM6GM6</u>	2	$-2\omega^*$	-2ω	-2	$2\omega^*$	2ω

$$13^{2001}m^11$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_4: \{^d1\|1\}$$

$$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_6: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	1	1	-i	-1	-1	i
$\overline{\text{GM5}}$	1	1	i	-1	-1	-i
$\overline{\text{GM6}}$	2	-1	0	-2	1	0

$$13^m001m^11$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}$$

$$C_3: \{1\|3_{001}^2\}$$

$$C_4: \{^d1\|1\}$$

$$C_5: \{^d1\|3_{001}^1\}$$

$$C_6: \{^d1\|3_{001}^2\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM3	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
$\overline{\text{GM4}}$	1	1	1	-1	-1	-1
$\overline{\text{GM5}}$	1	$-\omega$	$-\omega^*$	-1	ω	ω^*
$\overline{\text{GM6}}$	1	$-\omega^*$	$-\omega$	-1	ω^*	ω

$^13^1m^11$

Classes:

C₁: {1||1}

C₂: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₃: {1||m₁₀₀}, {1||m _{$\frac{1}{3}\pi$} }, {1||m _{$\frac{2}{3}\pi$} }

C₄: {^d1||1}

C₅: {^d1||3₀₀₁¹}, {^d1||3₀₀₁²}

C₆: {^d1||m₁₀₀}, {^d1||m _{$\frac{1}{3}\pi$} }, {^d1||m _{$\frac{2}{3}\pi$} }

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	1	1	-1	-1	-1	1
$\overline{\text{GM5}}$	1	1	1	-1	-1	-1
$\overline{\text{GM6}}$	2	-1	0	-2	1	0

$$6_{001}^5-3^1_1\frac{2^5}{6}\pi m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{2_{001}||-1\}, \{^d2_{001}||-1\}$$

$$C_3: \{2_{010}||m_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{6}\pi}||m_{010}\}, \{2_{\frac{5}{6}\pi}||m_{\frac{1}{6}\pi}\}, \{^d2_{010}||m_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}||m_{010}\}, \{^d2_{\frac{5}{6}\pi}||m_{\frac{1}{6}\pi}\}$$

$$C_4: \{2_{100}||2_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{3}\pi}||2_{\frac{1}{6}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{010}\}, \{^d2_{100}||2_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{3}\pi}||2_{\frac{1}{6}\pi}\}, \{^d2_{\frac{2}{3}\pi}||2_{010}\}$$

$$C_5: \{3_{001}^1||3_{001}^1\}, \{^d3_{001}^2||3_{001}^2\}$$

$$C_6: \{3_{001}^2||3_{001}^2\}, \{^d3_{001}^1||3_{001}^1\}$$

$$C_7: \{6_{001}^1||-3_{001}^2\}, \{^d6_{001}^5||-3_{001}^1\}$$

$$C_8: \{6_{001}^5||-3_{001}^1\}, \{^d6_{001}^1||-3_{001}^2\}$$

$$C_9: \{^d1||1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	1	1	1	1
GM5	2	-2	0	0	-1	-1	1	1	2
GM6	2	2	0	0	-1	-1	-1	-1	2
$\overline{\text{GM7}}$	2	0	0	0	-2	2	0	0	-2
$\overline{\text{GM8}}$	2	0	0	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2
$\overline{\text{GM9}}$	2	0	0	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2

$$6_{001}^5 - 3^1 1^{\frac{m}{3}\pi} m$$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{2_{001} \parallel -1\}$
 $C_3: \{3_{001}^1 \parallel 3_{001}^1\}$
 $C_4: \{3_{001}^2 \parallel 3_{001}^2\}$
 $C_5: \{6_{001}^1 \parallel -3_{001}^2\}$
 $C_6: \{6_{001}^5 \parallel -3_{001}^1\}$
 $C_7: \{^d 1 \parallel 1\}$
 $C_8: \{^d 2_{001} \parallel -1\}$
 $C_9: \{^d 3_{001}^1 \parallel 3_{001}^1\}$
 $C_{10}: \{^d 3_{001}^2 \parallel 3_{001}^2\}$
 $C_{11}: \{^d 6_{001}^1 \parallel -3_{001}^2\}$
 $C_{12}: \{^d 6_{001}^5 \parallel -3_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
$\overline{\text{GM7}}$	1	-i	-1	1	i	i	-1	i	1	-1	-i	-i
$\overline{\text{GM8}}$	1	i	-1	1	-i	-i	-1	-i	1	-1	i	i
$\overline{\text{GM9}}$	1	-i	ω^*	$-\omega$	τ^*	$-\tau$	-1	i	$-\omega^*$	ω	$-\tau^*$	τ
$\overline{\text{GM10}}$	1	-i	ω	$-\omega^*$	$-\tau$	τ^*	-1	i	$-\omega$	ω^*	τ	$-\tau^*$
$\overline{\text{GM11}}$	1	i	ω^*	$-\omega$	$-\tau^*$	τ	-1	-i	$-\omega^*$	ω	τ^*	$-\tau$
$\overline{\text{GM12}}$	1	i	ω	$-\omega^*$	τ	$-\tau^*$	-1	-i	$-\omega$	ω^*	$-\tau$	τ^*

$$-3_{001}^1 - 3_1^1 1^2 \frac{5}{6} \pi m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{010}\|m_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}\|m_{010}\}, \{^d2_{\frac{5}{6}\pi}\|m_{\frac{1}{6}\pi}\}$$

$$C_3: \{2_{\frac{1}{6}\pi}\|m_{010}\}, \{2_{\frac{5}{6}\pi}\|m_{\frac{1}{6}\pi}\}, \{^d2_{010}\|m_{\frac{5}{6}\pi}\}$$

$$C_4: \{3_{001}^1\|3_{001}^1\}, \{^d3_{001}^2\|3_{001}^2\}$$

$$C_5: \{3_{001}^2\|3_{001}^2\}, \{^d3_{001}^1\|3_{001}^1\}$$

$$C_6: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
<u>GM4</u>	2	0	0	1	-1	-2
<u>GM5GM6</u>	2	0	0	-2	2	-2

$$-3_{001}^1-3_1^1m_{010}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{010}\|2_{\frac{1}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}\|2_{\frac{5}{6}\pi}\}, \{^d2_{\frac{5}{6}\pi}\|2_{010}\}$$

$$C_3: \{2_{\frac{1}{6}\pi}\|2_{\frac{5}{6}\pi}\}, \{2_{\frac{5}{6}\pi}\|2_{010}\}, \{^d2_{010}\|2_{\frac{1}{6}\pi}\}$$

$$C_4: \{3_{001}^1\|3_{001}^1\}, \{^d3_{001}^2\|3_{001}^2\}$$

$$C_5: \{3_{001}^2\|3_{001}^2\}, \{^d3_{001}^1\|3_{001}^1\}$$

$$C_6: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
<u>GM4</u>	2	0	0	1	-1	-2
GM5GM6	2	0	0	-2	2	-2

$$-6_{001}^1 - 3_1^1 \frac{m}{6} \pi m$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{2_{100} \parallel 2_{\frac{5}{6}\pi}, \{2_{\frac{2}{3}\pi} \parallel 2_{\frac{1}{6}\pi}, \{^d 2_{\frac{1}{3}\pi} \parallel 2_{010}\}$$

$$C_3: \{2_{\frac{1}{3}\pi} \parallel 2_{010}\}, \{^d 2_{100} \parallel 2_{\frac{5}{6}\pi}\}, \{^d 2_{\frac{2}{3}\pi} \parallel 2_{\frac{1}{6}\pi}\}$$

$$C_4: \{3_{001}^1 \parallel 3_{001}^2\}, \{^d 3_{001}^2 \parallel 3_{001}^1\}$$

$$C_5: \{3_{001}^2 \parallel 3_{001}^1\}, \{^d 3_{001}^1 \parallel 3_{001}^2\}$$

$$C_6: \{^d 1 \parallel 1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
GM4	1	-i	i	-1	1	-1
GM5	1	i	-i	-1	1	-1
GM6	2	0	0	1	-1	-2

$-6^1_{001}-3^11^2_{100}\mathbf{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{2_{100}\|m_{\frac{1}{6}\pi}\}, \{2_{\frac{2}{3}\pi}\|m_{010}\}, \{^d2_{\frac{1}{3}\pi}\|m_{\frac{5}{6}\pi}\}$

$C_3: \{2_{\frac{1}{3}\pi}\|m_{\frac{5}{6}\pi}\}, \{^d2_{100}\|m_{\frac{1}{6}\pi}\}, \{^d2_{\frac{2}{3}\pi}\|m_{010}\}$

$C_4: \{3^1_{001}\|3^2_{001}\}, \{^d3^2_{001}\|3^1_{001}\}$

$C_5: \{3^2_{001}\|3^1_{001}\}, \{^d3^1_{001}\|3^2_{001}\}$

$C_6: \{^d1\|1\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
$\overline{\text{GM4}}$	1	-i	i	-1	1	-1
$\overline{\text{GM5}}$	1	i	-i	-1	1	-1
$\overline{\text{GM6}}$	2	0	0	1	-1	-2

$$3^1_{001}-3^1_1 2^1_{\frac{1}{3}\pi}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||-1\}$$

$$C_3: \{2_{100}||m_{\frac{5}{6}\pi}\}, \{2^2_{\frac{2}{3}\pi}||m_{010}\}, \{^d2^1_{\frac{1}{3}\pi}||m_{\frac{1}{6}\pi}\}$$

$$C_4: \{2_{100}||2^5_{\frac{5}{6}\pi}\}, \{2^2_{\frac{2}{3}\pi}||2_{010}\}, \{^d2^1_{\frac{1}{3}\pi}||2^1_{\frac{1}{6}\pi}\}$$

$$C_5: \{2^1_{\frac{1}{3}\pi}||m_{\frac{1}{6}\pi}\}, \{^d2_{100}||m_{\frac{5}{6}\pi}\}, \{^d2^2_{\frac{2}{3}\pi}||m_{010}\}$$

$$C_6: \{2^1_{\frac{1}{3}\pi}||2^1_{\frac{1}{6}\pi}\}, \{^d2_{100}||2^5_{\frac{5}{6}\pi}\}, \{^d2^2_{\frac{2}{3}\pi}||2_{010}\}$$

$$C_7: \{3^1_{001}||3^1_{001}\}, \{^d3^2_{001}||3^2_{001}\}$$

$$C_8: \{3^1_{001}||-3^1_{001}\}, \{^d3^2_{001}||-3^2_{001}\}$$

$$C_9: \{3^2_{001}||3^2_{001}\}, \{^d3^1_{001}||3^1_{001}\}$$

$$C_{10}: \{3^2_{001}||-3^2_{001}\}, \{^d3^1_{001}||-3^1_{001}\}$$

$$C_{11}: \{^d1||1\}$$

$$C_{12}: \{^d1||-1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	-2	0	0	0	0	-1	1	-1	1	2	-2
GM6	2	2	0	0	0	0	-1	-1	-1	-1	2	2
<u>GM7</u>	1	-1	-i	i	i	-i	-1	1	1	-1	-1	1
<u>GM8</u>	1	-1	i	-i	-i	i	-1	1	1	-1	-1	1
<u>GM9</u>	1	1	-i	-i	i	i	-1	-1	1	1	-1	-1
<u>GM10</u>	1	1	i	i	-i	-i	-1	-1	1	1	-1	-1
<u>GM11</u>	2	-2	0	0	0	0	1	-1	-1	1	-2	2
<u>GM12</u>	2	2	0	0	0	0	1	1	-1	-1	-2	-2

$$3_{001}^1 - 3_1^1 \frac{m_5}{6} \pi_m$$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{1 \parallel -1\}$
 $C_3: \{3_{001}^1 \parallel 3_{001}^1\}$
 $C_4: \{3_{001}^1 \parallel -3_{001}^1\}$
 $C_5: \{3_{001}^2 \parallel 3_{001}^2\}$
 $C_6: \{3_{001}^2 \parallel -3_{001}^2\}$
 $C_7: \{^d1 \parallel 1\}$
 $C_8: \{^d1 \parallel -1\}$
 $C_9: \{^d3_{001}^1 \parallel 3_{001}^1\}$
 $C_{10}: \{^d3_{001}^1 \parallel -3_{001}^1\}$
 $C_{11}: \{^d3_{001}^2 \parallel 3_{001}^2\}$
 $C_{12}: \{^d3_{001}^2 \parallel -3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	$-\omega$	ω	$-\omega^*$	ω^*	1	-1	$-\omega$	ω	$-\omega^*$	ω^*
GM4	1	-1	$-\omega^*$	ω^*	$-\omega$	ω	1	-1	$-\omega^*$	ω^*	$-\omega$	ω
GM5	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM6	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
<u>GM7</u>	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
<u>GM8</u>	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
<u>GM9</u>	1	-1	ω^*	$-\omega^*$	$-\omega$	ω	-1	1	$-\omega^*$	ω^*	ω	$-\omega$
<u>GM10</u>	1	-1	ω	$-\omega$	$-\omega^*$	ω^*	-1	1	$-\omega$	ω	ω^*	$-\omega^*$
<u>GM11</u>	1	1	ω^*	ω^*	$-\omega$	$-\omega$	-1	-1	$-\omega^*$	$-\omega^*$	ω	ω
<u>GM12</u>	1	1	ω	ω	$-\omega^*$	$-\omega^*$	-1	-1	$-\omega$	$-\omega$	ω^*	ω^*

$2_{010}\text{-}3^11^2_{100}\text{m}$

Classes:

C₁: $\{1\|1\}$

C₂: $\{1\|3^1_{001}\}, \{1\|3^2_{001}\}$

C₃: $\{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}, \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$

C₄: $\{2_{010}\|-1\}, \{^d2_{010}\|-1\}$

C₅: $\{2_{010}\|-3^1_{001}\}, \{^d2_{010}\|-3^2_{001}\}$

C₆: $\{2_{010}\|-3^2_{001}\}, \{^d2_{010}\|-3^1_{001}\}$

C₇: $\{2_{100}\|m_{010}\}, \{2_{100}\|m_{\frac{1}{6}\pi}\}, \{2_{100}\|m_{\frac{5}{6}\pi}\}, \{^d2_{100}\|m_{010}\}, \{^d2_{100}\|m_{\frac{1}{6}\pi}\}, \{^d2_{100}\|m_{\frac{5}{6}\pi}\}$

C₈: $\{^d1\|1\}$

C₉: $\{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1
GM3	1	1	-1	1	1	1	-1	1	1
GM4	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-1	0	-2	1	1	0	2	-1
GM6	2	-1	0	2	-1	-1	0	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8}}$	2	-1	0	0	$\sqrt{3}$	$-\sqrt{3}$	0	-2	1
$\overline{\text{GM9}}$	2	-1	0	0	$-\sqrt{3}$	$\sqrt{3}$	0	-2	1

$m_{001}\text{-}3^11^1m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_6: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4GM4}}$	4	-2	0	-4	2	0
$\overline{\text{GM5GM6}}$	2	2	0	-2	-2	0

-1-3¹1²₀₀₁m

Classes:

C₁: {1||1}

C₂: {1||3¹₀₀₁}, {1||3²₀₀₁}

C₃: {2₀₀₁||m₀₁₀}, {2₀₀₁||m _{$\frac{1}{6}\pi$} }, {2₀₀₁||m _{$\frac{5}{6}\pi$} }

C₄: {^d1||1}

C₅: {^d1||3¹₀₀₁}, {^d1||3²₀₀₁}

C₆: {^d2₀₀₁||m₀₁₀}, {^d2₀₀₁||m _{$\frac{1}{6}\pi$} }, {^d2₀₀₁||m _{$\frac{5}{6}\pi$} }

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	2	-1	0	-2	1	0
$\overline{\text{GM5GM6}}$	2	2	0	-2	-2	0

$2_{001}\text{-}3^1_1\text{m}_{001}\text{m}$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3^1_{001}\}$
 $C_3: \{1\|3^2_{001}\}$
 $C_4: \{2_{001}\| - 1\}$
 $C_5: \{2_{001}\| - 3^1_{001}\}$
 $C_6: \{2_{001}\| - 3^2_{001}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3^1_{001}\}$
 $C_9: \{^d1\|3^2_{001}\}$
 $C_{10}: \{^d2_{001}\| - 1\}$
 $C_{11}: \{^d2_{001}\| - 3^1_{001}\}$
 $C_{12}: \{^d2_{001}\| - 3^2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	1	$-\omega$	$-\omega^*$	-1	ω	ω^*
GM4	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	1	$-\omega^*$	$-\omega$	-1	ω^*	ω
GM5	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
$\overline{\text{GM7GM8}}$	2	2	2	0	0	0	-2	-2	-2	0	0	0
$\overline{\text{GM9GM10}}$	2	-2ω	$-2\omega^*$	0	0	0	-2	2ω	$2\omega^*$	0	0	0
$\overline{\text{GM11GM12}}$	2	$-2\omega^*$	-2ω	0	0	0	-2	$2\omega^*$	2ω	0	0	0

-1-3¹1^m001m

Classes:

C₁: {1||1}

C₂: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₃: {2₀₀₁||2₀₁₀}, {2₀₀₁||2₆¹π}, {2₀₀₁||2₆⁵π}

C₄: {^d1||1}

C₅: {^d1||3₀₀₁¹}, {^d1||3₀₀₁²}

C₆: {^d2₀₀₁||2₀₁₀}, {^d2₀₀₁||2₆¹π}, {^d2₀₀₁||2₆⁵π}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
<u>GM4</u>	2	-1	0	-2	1	0
<u>GM5GM6</u>	2	2	0	-2	-2	0

$2_{001}\text{-}3^11\text{-}^1\text{m}$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3^1_{001}\}$
 $C_3: \{1\|3^2_{001}\}$
 $C_4: \{2_{001}\| - 1\}$
 $C_5: \{2_{001}\| - 3^1_{001}\}$
 $C_6: \{2_{001}\| - 3^2_{001}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3^1_{001}\}$
 $C_9: \{^d1\|3^2_{001}\}$
 $C_{10}: \{^d2_{001}\| - 1\}$
 $C_{11}: \{^d2_{001}\| - 3^1_{001}\}$
 $C_{12}: \{^d2_{001}\| - 3^2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	1	$-\omega$	$-\omega^*$	-1	ω	ω^*
GM4	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	1	$-\omega^*$	$-\omega$	-1	ω^*	ω
GM5	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
<u>GM7GM8</u>	2	2	2	0	0	0	-2	-2	-2	0	0	0
<u>GM9GM10</u>	2	-2ω	$-2\omega^*$	0	0	0	-2	2ω	$2\omega^*$	0	0	0
<u>GM11GM12</u>	2	$-2\omega^*$	-2ω	0	0	0	-2	$2\omega^*$	2ω	0	0	0

$m_{001} \cdot 3^1 1^2 m_{001}$

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{1 \parallel 3_{001}^1\}, \{1 \parallel 3_{001}^2\}$

$C_3: \{2_{001} \parallel m_{010}\}, \{2_{001} \parallel m_{\frac{1}{6}\pi}\}, \{2_{001} \parallel m_{\frac{5}{6}\pi}\}$

$C_4: \{^d 1 \parallel 1\}$

$C_5: \{^d 1 \parallel 3_{001}^1\}, \{^d 1 \parallel 3_{001}^2\}$

$C_6: \{^d 2_{001} \parallel m_{010}\}, \{^d 2_{001} \parallel m_{\frac{1}{6}\pi}\}, \{^d 2_{001} \parallel m_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4GM4}}$	4	-2	0	-4	2	0
$\overline{\text{GM5GM6}}$	2	2	0	-2	-2	0

$m_{010}\text{-}3^1_1m_{100}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$

$C_3: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$

$C_6: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	1	1	-i	-1	-1	i
$\overline{\text{GM5}}$	1	1	i	-1	-1	-i
$\overline{\text{GM6}}$	2	-1	0	-2	1	0

$m_{100}\text{-}3^11^2_{001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$

$C_3: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{\frac{1}{6}\pi}\}, \{2_{001}\|m_{\frac{5}{6}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$

$C_6: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{\frac{1}{6}\pi}\}, \{^d2_{001}\|m_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	1	1	-i	-1	-1	i
$\overline{\text{GM5}}$	1	1	i	-1	-1	-i
$\overline{\text{GM6}}$	2	-1	0	-2	1	0

$2_{001}\text{-}3^1_1\text{m}_{010}\text{m}$

Classes:

- $C_1: \{1\|1\}$
- $C_2: \{1\|3^1_{001}\}$
- $C_3: \{1\|3^2_{001}\}$
- $C_4: \{2_{001}\| -1\}$
- $C_5: \{2_{001}\| -3^1_{001}\}$
- $C_6: \{2_{001}\| -3^2_{001}\}$
- $C_7: \{^d1\|1\}$
- $C_8: \{^d1\|3^1_{001}\}$
- $C_9: \{^d1\|3^2_{001}\}$
- $C_{10}: \{^d2_{001}\| -1\}$
- $C_{11}: \{^d2_{001}\| -3^1_{001}\}$
- $C_{12}: \{^d2_{001}\| -3^2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	1	$-\omega$	$-\omega^*$	-1	ω	ω^*
GM4	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	1	$-\omega^*$	$-\omega$	-1	ω^*	ω
GM5	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
$\overline{\text{GM7}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM8}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM9}}$	1	$-\omega$	$-\omega^*$	-i	$-\tau^*$	τ	-1	ω	ω^*	i	τ^*	$-\tau$
$\overline{\text{GM10}}$	1	$-\omega$	$-\omega^*$	i	τ^*	$-\tau$	-1	ω	ω^*	-i	$-\tau^*$	τ
$\overline{\text{GM11}}$	1	$-\omega^*$	$-\omega$	-i	τ	$-\tau^*$	-1	ω^*	ω	i	$-\tau$	τ^*
$\overline{\text{GM12}}$	1	$-\omega^*$	$-\omega$	i	$-\tau$	τ^*	-1	ω^*	ω	-i	τ	$-\tau^*$

$1\text{-}3^11\text{-}1\text{m}$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||-3_{001}^1\}$
 $C_6: \{1||-3_{001}^2\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^1\}$
 $C_9: \{^d1||3_{001}^2\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d1||-3_{001}^1\}$
 $C_{12}: \{^d1||-3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	1	$-\omega$	$-\omega^*$	-1	ω	ω^*
GM4	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	1	$-\omega^*$	$-\omega$	-1	ω^*	ω
GM5	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
<u>GM7GM7</u>	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2
<u>GM8GM8</u>	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
<u>GM9GM9</u>	2	-2ω	$-2\omega^*$	-2	2ω	$2\omega^*$	-2	2ω	$2\omega^*$	2	-2ω	$-2\omega^*$
<u>GM10GM10</u>	2	$-2\omega^*$	-2ω	-2	$2\omega^*$	2ω	-2	$2\omega^*$	2ω	2	$-2\omega^*$	-2ω
<u>GM11GM11</u>	2	-2ω	$-2\omega^*$	2	-2ω	$-2\omega^*$	-2	2ω	$2\omega^*$	-2	2ω	$2\omega^*$
<u>GM12GM12</u>	2	$-2\omega^*$	-2ω	2	$-2\omega^*$	-2ω	-2	$2\omega^*$	2ω	-2	$2\omega^*$	2ω

$1\text{-}3^11^2001\text{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{1\|-1\}$

$C_4: \{1\|-3_{001}^1\}, \{1\|-3_{001}^2\}$

$C_5: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{\frac{1}{6}\pi}\}, \{2_{001}\|m_{\frac{5}{6}\pi}\}$

$C_6: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$

$C_7: \{^d1\|1\}$

$C_8: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_9: \{^d1\|-1\}$

$C_{10}: \{^d1\|-3_{001}^1\}, \{^d1\|-3_{001}^2\}$

$C_{11}: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{\frac{1}{6}\pi}\}, \{^d2_{001}\|m_{\frac{5}{6}\pi}\}$

$C_{12}: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-1	-2	1	0	0	2	-1	-2	1	0	0
GM6	2	-1	2	-1	0	0	2	-1	2	-1	0	0
<u>GM7</u>	1	1	-1	-1	-i	i	-1	-1	1	1	i	-i
<u>GM8</u>	1	1	-1	-1	i	-i	-1	-1	1	1	-i	i
<u>GM9</u>	1	1	1	1	-i	-i	-1	-1	-1	-1	i	i
<u>GM10</u>	1	1	1	1	i	i	-1	-1	-1	-1	-i	-i
<u>GM11</u>	2	-1	-2	1	0	0	-2	1	2	-1	0	0
<u>GM12</u>	2	-1	2	-1	0	0	-2	1	-2	1	0	0

$1\text{-}3^1 1^m 001 m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||-3_{001}^1\}$
 $C_6: \{1||-3_{001}^2\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^1\}$
 $C_9: \{^d1||3_{001}^2\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d1||-3_{001}^1\}$
 $C_{12}: \{^d1||-3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	1	$-\omega$	$-\omega^*$	-1	ω	ω^*
GM4	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	1	$-\omega^*$	$-\omega$	-1	ω^*	ω
GM5	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
$\overline{\text{GM7}}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\overline{\text{GM8}}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\overline{\text{GM9}}$	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	-1	ω	ω^*	1	$-\omega$	$-\omega^*$
$\overline{\text{GM10}}$	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	-1	ω^*	ω	1	$-\omega^*$	$-\omega$
$\overline{\text{GM11}}$	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	-1	ω	ω^*
$\overline{\text{GM12}}$	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	-1	ω^*	ω

-1-3¹1⁻¹m

Classes:

C₁: {1||1}

C₂: {1||2₀₁₀}, {1||2 _{$\frac{1}{6}\pi$} }, {1||2 _{$\frac{5}{6}\pi$} }

C₃: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₄: {^d1||1}

C₅: {^d1||2₀₁₀}, {^d1||2 _{$\frac{1}{6}\pi$} }, {^d1||2 _{$\frac{5}{6}\pi$} }

C₆: {^d1||3₀₀₁¹}, {^d1||3₀₀₁²}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	1
GM3	2	0	-1	2	0	-1
<u>GM4GM4</u>	2	-2	2	-2	2	-2
<u>GM5GM5</u>	2	2	2	-2	-2	-2
<u>GM6GM6</u>	4	0	-2	-4	0	2

$2_{001}\text{-}3^1_12_{001}\text{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$

$C_3: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$

$C_4: \{2_{001}\| -1\}$

$C_5: \{2_{001}\| -3^1_{001}\}, \{2_{001}\| -3^2_{001}\}$

$C_6: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{\frac{1}{6}\pi}\}, \{2_{001}\|m_{\frac{5}{6}\pi}\}$

$C_7: \{^d1\|1\}$

$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$

$C_9: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$

$C_{10}: \{^d2_{001}\| -1\}$

$C_{11}: \{^d2_{001}\| -3^1_{001}\}, \{^d2_{001}\| -3^2_{001}\}$

$C_{12}: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{\frac{1}{6}\pi}\}, \{^d2_{001}\|m_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	1	1	-1	1	-1	1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	0	-1	-2	1	0	2	0	-1	-2	1	0
GM6	2	0	-1	2	-1	0	2	0	-1	2	-1	0
$\overline{\text{GM7}}$	1	-1	1	-i	-i	i	-1	1	-1	i	i	-i
$\overline{\text{GM8}}$	1	-1	1	i	i	-i	-1	1	-1	-i	-i	i
$\overline{\text{GM9}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM10}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM11}}$	2	0	-1	2i	-i	0	-2	0	1	-2i	i	0
$\overline{\text{GM12}}$	2	0	-1	-2i	i	0	-2	0	1	2i	-i	0

m₀₀₁-3¹1_m

Classes:

C₁: {1||1}

C₂: {1||2₀₁₀}, {1||2 _{$\frac{1}{6}\pi$} }, {1||2 _{$\frac{5}{6}\pi$} }

C₃: {1||3¹₀₀₁}, {1||3²₀₀₁}

C₄: {^d1||1}

C₅: {^d1||2₀₁₀}, {^d1||2 _{$\frac{1}{6}\pi$} }, {^d1||2 _{$\frac{5}{6}\pi$} }

C₆: {^d1||3¹₀₀₁}, {^d1||3²₀₀₁}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	1
GM3	2	0	-1	2	0	-1
$\overline{\text{GM4}}$	1	-1	1	-1	1	-1
$\overline{\text{GM5}}$	1	1	1	-1	-1	-1
$\overline{\text{GM6}}$	2	0	-1	-2	0	1

-1-3¹1¹m

Classes:

C₁: {1||1}

C₂: {1||3¹₀₀₁}, {1||3²₀₀₁}

C₃: {1||m₀₁₀}, {1||m_{1/6}π}, {1||m_{5/6}π}

C₄: {d¹1||1}

C₅: {d¹1||3¹₀₀₁}, {d¹1||3²₀₀₁}

C₆: {d¹1||m₀₁₀}, {d¹1||m_{1/6}π}, {d¹1||m_{5/6}π}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
<u>GM4GM4</u>	2	2	-2	-2	-2	2
<u>GM5GM5</u>	2	2	2	-2	-2	-2
<u>GM6GM6</u>	4	-2	0	-4	2	0

$2_{001}\text{-}3^1_11^1_m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$

$C_3: \{1\|m_{010}\}, \{1\|m_{\frac{1}{6}\pi}\}, \{1\|m_{\frac{5}{6}\pi}\}$

$C_4: \{2_{001}\| -1\}$

$C_5: \{2_{001}\| -3^1_{001}\}, \{2_{001}\| -3^2_{001}\}$

$C_6: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$

$C_7: \{^d1\|1\}$

$C_8: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$

$C_9: \{^d1\|m_{010}\}, \{^d1\|m_{\frac{1}{6}\pi}\}, \{^d1\|m_{\frac{5}{6}\pi}\}$

$C_{10}: \{^d2_{001}\| -1\}$

$C_{11}: \{^d2_{001}\| -3^1_{001}\}, \{^d2_{001}\| -3^2_{001}\}$

$C_{12}: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	1	-1	1	1	-1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	-1	0	-2	1	0	2	-1	0	-2	1	0
GM6	2	-1	0	2	-1	0	2	-1	0	2	-1	0
$\overline{\text{GM7}}$	1	1	-1	-i	-i	i	-1	-1	1	i	i	-i
$\overline{\text{GM8}}$	1	1	-1	i	i	-i	-1	-1	1	-i	-i	i
$\overline{\text{GM9}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM10}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM11}}$	2	-1	0	2i	-i	0	-2	1	0	-2i	i	0
$\overline{\text{GM12}}$	2	-1	0	-2i	i	0	-2	1	0	2i	-i	0

$m_{001}\text{-}3^11^1m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{1\|m_{010}\}, \{1\|m_{\frac{1}{6}\pi}\}, \{1\|m_{\frac{5}{6}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_6: \{^d1\|m_{010}\}, \{^d1\|m_{\frac{1}{6}\pi}\}, \{^d1\|m_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	1	1	-1	-1	-1	1
$\overline{\text{GM5}}$	1	1	1	-1	-1	-1
$\overline{\text{GM6}}$	2	-1	0	-2	1	0

$1\text{-}3^11^1\text{m}$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

C_3 : $\{1\|-1\}$

C_4 : $\{1\|\mathbf{m}_{010}\}, \{1\|\mathbf{m}_{\frac{1}{6}\pi}\}, \{1\|\mathbf{m}_{\frac{5}{6}\pi}\}$

C_5 : $\{1\|-3_{001}^1\}, \{1\|-3_{001}^2\}$

C_6 : $\{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$

C_7 : $\{\text{d}1\|1\}$

C_8 : $\{\text{d}1\|3_{001}^1\}, \{\text{d}1\|3_{001}^2\}$

C_9 : $\{\text{d}1\|-1\}$

C_{10} : $\{\text{d}1\|\mathbf{m}_{010}\}, \{\text{d}1\|\mathbf{m}_{\frac{1}{6}\pi}\}, \{\text{d}1\|\mathbf{m}_{\frac{5}{6}\pi}\}$

C_{11} : $\{\text{d}1\|-3_{001}^1\}, \{\text{d}1\|-3_{001}^2\}$

C_{12} : $\{\text{d}1\|2_{010}\}, \{\text{d}1\|2_{\frac{1}{6}\pi}\}, \{\text{d}1\|2_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1
GM4	1	1	1	-1	1	-1	1	1	1	-1	1	-1
GM5	2	-1	-2	0	1	0	2	-1	-2	0	1	0
GM6	2	-1	2	0	-1	0	2	-1	2	0	-1	0
$\overline{\text{GM7}}$	1	1	-1	-1	-1	1	-1	-1	1	1	1	-1
$\overline{\text{GM8}}$	1	1	-1	1	-1	-1	-1	-1	1	-1	1	1
$\overline{\text{GM9}}$	1	1	1	-1	1	-1	-1	-1	-1	1	-1	1
$\overline{\text{GM10}}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\overline{\text{GM11}}$	2	-1	-2	0	1	0	-2	1	2	0	-1	0
$\overline{\text{GM12}}$	2	-1	2	0	-1	0	-2	1	-2	0	1	0

6^1_{0016}

Classes:

- $C_1: \{1||1\}$
 $C_2: \{2_{001}||2_{001}\}$
 $C_3: \{3^1_{001}||3^1_{001}\}$
 $C_4: \{3^2_{001}||3^2_{001}\}$
 $C_5: \{6^1_{001}||6^1_{001}\}$
 $C_6: \{6^5_{001}||6^5_{001}\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d2_{001}||2_{001}\}$
 $C_9: \{^d3^1_{001}||3^1_{001}\}$
 $C_{10}: \{^d3^2_{001}||3^2_{001}\}$
 $C_{11}: \{^d6^1_{001}||6^1_{001}\}$
 $C_{12}: \{^d6^5_{001}||6^5_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
<u>GM7</u>	1	-i	-1	1	i	i	-1	i	1	-1	-i	-i
<u>GM8</u>	1	i	-1	1	-i	-i	-1	-i	1	-1	i	i
<u>GM9</u>	1	-i	ω^*	$-\omega$	τ^*	$-\tau$	-1	i	$-\omega^*$	ω	$-\tau^*$	τ
<u>GM10</u>	1	-i	ω	$-\omega^*$	$-\tau$	τ^*	-1	i	$-\omega$	ω^*	τ	$-\tau^*$
<u>GM11</u>	1	i	ω^*	$-\omega$	$-\tau^*$	τ	-1	-i	$-\omega^*$	ω	τ^*	$-\tau$
<u>GM12</u>	1	i	ω	$-\omega^*$	τ	$-\tau^*$	-1	-i	$-\omega$	ω^*	$-\tau$	τ^*

$$-6_{001}^5 6$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{3_{001}^1 \parallel 3_{001}^2\}$$

$$C_3: \{3_{001}^2 \parallel 3_{001}^1\}$$

$$C_4: \{^d1 \parallel 1\}$$

$$C_5: \{^d3_{001}^1 \parallel 3_{001}^2\}$$

$$C_6: \{^d3_{001}^2 \parallel 3_{001}^1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2GM3	2	-1	-1	2	-1	-1
GM4	1	-1	1	-1	1	-1
GM5GM6	2	1	-1	-2	-1	1

$$-3_{0016}^2$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{3_{001}^1||3_{001}^1\}$$

$$C_3: \{3_{001}^2||3_{001}^2\}$$

$$C_4: \{^d1||1\}$$

$$C_5: \{^d3_{001}^1||3_{001}^1\}$$

$$C_6: \{^d3_{001}^2||3_{001}^2\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2GM3	2	-1	-1	2	-1	-1
GM4GM4	2	-2	2	-2	2	-2
GM5GM6	2	1	-1	-2	-1	1

3_{0016}^2

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{3_{001}^1\|3_{001}^1\}$
 $C_4: \{3_{001}^1\|6_{001}^5\}$
 $C_5: \{3_{001}^2\|3_{001}^2\}$
 $C_6: \{3_{001}^2\|6_{001}^1\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|2_{001}\}$
 $C_9: \{^d3_{001}^1\|3_{001}^1\}$
 $C_{10}: \{^d3_{001}^1\|6_{001}^5\}$
 $C_{11}: \{^d3_{001}^2\|3_{001}^2\}$
 $C_{12}: \{^d3_{001}^2\|6_{001}^1\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	$-\omega$	ω	$-\omega^*$	ω^*	1	-1	$-\omega$	ω	$-\omega^*$	ω^*
GM4	1	-1	$-\omega^*$	ω^*	$-\omega$	ω	1	-1	$-\omega^*$	ω^*	$-\omega$	ω
GM5	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM6	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
$\overline{\text{GM7}}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\overline{\text{GM8}}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM9}}$	1	-1	ω^*	$-\omega^*$	$-\omega$	ω	-1	1	$-\omega^*$	ω^*	ω	$-\omega$
$\overline{\text{GM10}}$	1	-1	ω	$-\omega$	$-\omega^*$	ω^*	-1	1	$-\omega$	ω	ω^*	$-\omega^*$
$\overline{\text{GM11}}$	1	1	ω^*	ω^*	$-\omega$	$-\omega$	-1	-1	$-\omega^*$	$-\omega^*$	ω	ω
$\overline{\text{GM12}}$	1	1	ω	ω	$-\omega^*$	$-\omega^*$	-1	-1	$-\omega$	$-\omega$	ω^*	ω^*

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Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}$

$C_3: \{1\|3_{001}^2\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}$

$C_6: \{^d1\|3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2GM3	2	-1	-1	2	-1	-1
GM4GM4	2	2	2	-2	-2	-2
GM5GM6	2	-1	-1	-2	1	1

$2_{001}6$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^1\}$
 $C_3: \{1\|3_{001}^2\}$
 $C_4: \{2_{001}\|2_{001}\}$
 $C_5: \{2_{001}\|6_{001}^1\}$
 $C_6: \{2_{001}\|6_{001}^5\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3_{001}^1\}$
 $C_9: \{^d1\|3_{001}^2\}$
 $C_{10}: \{^d2_{001}\|2_{001}\}$
 $C_{11}: \{^d2_{001}\|6_{001}^1\}$
 $C_{12}: \{^d2_{001}\|6_{001}^5\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	-1	ω^*	ω	1	$-\omega$	$-\omega^*$	-1	ω^*	ω
GM4	1	$-\omega^*$	$-\omega$	-1	ω	ω^*	1	$-\omega^*$	$-\omega$	-1	ω	ω^*
GM5	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$
GM6	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$
$\overline{\text{GM7}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM8}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM9}}$	1	$-\omega$	$-\omega^*$	-i	τ	$-\tau^*$	-1	ω	ω^*	i	$-\tau$	τ^*
$\overline{\text{GM10}}$	1	$-\omega$	$-\omega^*$	i	$-\tau$	τ^*	-1	ω	ω^*	-i	τ	$-\tau^*$
$\overline{\text{GM11}}$	1	$-\omega^*$	$-\omega$	-i	$-\tau^*$	τ	-1	ω^*	ω	i	τ^*	$-\tau$
$\overline{\text{GM12}}$	1	$-\omega^*$	$-\omega$	i	τ^*	$-\tau$	-1	ω^*	ω	-i	$-\tau^*$	τ

m0016

Classes:

C₁: {1||1}

C₂: {1||3₀₀₁¹}

C₃: {1||3₀₀₁²}

C₄: {^d1||1}

C₅: {^d1||3₀₀₁¹}

C₆: {^d1||3₀₀₁²}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2GM3	2	-1	-1	2	-1	-1
<u>GM4</u>	1	1	1	-1	-1	-1
<u>GM5GM6</u>	2	-1	-1	-2	1	1

Classes: $C_1: \{1||1\}$ $C_2: \{1||2_{001}\}$ $C_3: \{1||3_{001}^1\}$ $C_4: \{1||3_{001}^2\}$ $C_5: \{1||6_{001}^1\}$ $C_6: \{1||6_{001}^5\}$ $C_7: \{^d1||1\}$ $C_8: \{^d1||2_{001}\}$ $C_9: \{^d1||3_{001}^1\}$ $C_{10}: \{^d1||3_{001}^2\}$ $C_{11}: \{^d1||6_{001}^1\}$ $C_{12}: \{^d1||6_{001}^5\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
$\overline{\text{GM7}}$	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1
$\overline{\text{GM8}}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\overline{\text{GM9}}$	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	ω	ω^*	$-\omega^*$	$-\omega$
$\overline{\text{GM10}}$	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	ω^*	ω	$-\omega$	$-\omega^*$
$\overline{\text{GM11}}$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	-1	-1	ω	ω^*	ω^*	ω
$\overline{\text{GM12}}$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	-1	-1	ω^*	ω	ω	ω^*

6^1_{001}-6

Classes:

- $C_1: \{1||1\}$
 $C_2: \{2_{001}||m_{001}\}$
 $C_3: \{3^1_{001}||3^1_{001}\}$
 $C_4: \{3^2_{001}||3^2_{001}\}$
 $C_5: \{6^1_{001}||-6^1_{001}\}$
 $C_6: \{6^5_{001}||-6^5_{001}\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d2_{001}||m_{001}\}$
 $C_9: \{^d3^1_{001}||3^1_{001}\}$
 $C_{10}: \{^d3^2_{001}||3^2_{001}\}$
 $C_{11}: \{^d6^1_{001}||-6^1_{001}\}$
 $C_{12}: \{^d6^5_{001}||-6^5_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
$\overline{\text{GM7}}$	1	-i	-1	1	i	i	-1	i	1	-1	-i	-i
$\overline{\text{GM8}}$	1	i	-1	1	-i	-i	-1	-i	1	-1	i	i
$\overline{\text{GM9}}$	1	-i	ω^*	$-\omega$	τ^*	$-\tau$	-1	i	$-\omega^*$	ω	$-\tau^*$	τ
$\overline{\text{GM10}}$	1	-i	ω	$-\omega^*$	$-\tau$	τ^*	-1	i	$-\omega$	ω^*	τ	$-\tau^*$
$\overline{\text{GM11}}$	1	i	ω^*	$-\omega$	$-\tau^*$	τ	-1	-i	$-\omega^*$	ω	τ^*	$-\tau$
$\overline{\text{GM12}}$	1	i	ω	$-\omega^*$	τ	$-\tau^*$	-1	-i	$-\omega$	ω^*	$-\tau$	τ^*

$$-6_{001}^5-6$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{3_{001}^1\|3_{001}^2\}$$

$$C_3: \{3_{001}^2\|3_{001}^1\}$$

$$C_4: \{^d1\|1\}$$

$$C_5: \{^d3_{001}^1\|3_{001}^2\}$$

$$C_6: \{^d3_{001}^2\|3_{001}^1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2GM3	2	-1	-1	2	-1	-1
GM4	1	-1	1	-1	1	-1
GM5GM6	2	1	-1	-2	-1	1

$$-3_{001}^2-6$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{3_{001}^1\|3_{001}^1\}$$

$$C_3: \{3_{001}^2\|3_{001}^2\}$$

$$C_4: \{^d1\|1\}$$

$$C_5: \{^d3_{001}^1\|3_{001}^1\}$$

$$C_6: \{^d3_{001}^2\|3_{001}^2\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2GM3	2	-1	-1	2	-1	-1
GM4GM4	2	-2	2	-2	2	-2
GM5GM6	2	1	-1	-2	-1	1

3_{001}^2-6

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|m_{001}\}$
 $C_3: \{3_{001}^1\| -6_{001}^5\}$
 $C_4: \{3_{001}^1\|3_{001}^1\}$
 $C_5: \{3_{001}^2\| -6_{001}^1\}$
 $C_6: \{3_{001}^2\|3_{001}^2\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|m_{001}\}$
 $C_9: \{^d3_{001}^1\| -6_{001}^5\}$
 $C_{10}: \{^d3_{001}^1\|3_{001}^1\}$
 $C_{11}: \{^d3_{001}^2\| -6_{001}^1\}$
 $C_{12}: \{^d3_{001}^2\|3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1
GM3	1	-1	ω^*	$-\omega^*$	ω	$-\omega$	1	-1	ω^*	$-\omega^*$	ω	$-\omega$
GM4	1	-1	ω	$-\omega$	ω^*	$-\omega^*$	1	-1	ω	$-\omega$	ω^*	$-\omega^*$
GM5	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM6	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
$\overline{\text{GM7}}$	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1
$\overline{\text{GM8}}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM9}}$	1	-1	$-\omega$	ω	ω^*	$-\omega^*$	-1	1	ω	$-\omega$	$-\omega^*$	ω^*
$\overline{\text{GM10}}$	1	-1	$-\omega^*$	ω^*	ω	$-\omega$	-1	1	ω^*	$-\omega^*$	$-\omega$	ω
$\overline{\text{GM11}}$	1	1	ω^*	ω^*	$-\omega$	$-\omega$	-1	-1	$-\omega^*$	$-\omega^*$	ω	ω
$\overline{\text{GM12}}$	1	1	ω	ω	$-\omega^*$	$-\omega^*$	-1	-1	$-\omega$	$-\omega$	ω^*	ω^*

-1-6

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}$

$C_3: \{1\|3_{001}^2\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}$

$C_6: \{^d1\|3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2GM3	2	-1	-1	2	-1	-1
GM4GM4	2	2	2	-2	-2	-2
GM5GM6	2	-1	-1	-2	1	1

$2_{001}-6$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{2_{001}||-6_{001}^1\}$
 $C_5: \{2_{001}||-6_{001}^5\}$
 $C_6: \{2_{001}||m_{001}\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^1\}$
 $C_9: \{^d1||3_{001}^2\}$
 $C_{10}: \{^d2_{001}||-6_{001}^1\}$
 $C_{11}: \{^d2_{001}||-6_{001}^5\}$
 $C_{12}: \{^d2_{001}||m_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	$-\omega$	$-\omega^*$	ω^*	ω	-1
GM4	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	$-\omega^*$	$-\omega$	ω	ω^*	-1
GM5	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1
GM6	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1
$\overline{\text{GM7}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM8}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM9}}$	1	$-\omega$	$-\omega^*$	τ	$-\tau^*$	-i	-1	ω	ω^*	$-\tau$	τ^*	i
$\overline{\text{GM10}}$	1	$-\omega$	$-\omega^*$	$-\tau$	τ^*	i	-1	ω	ω^*	τ	$-\tau^*$	-i
$\overline{\text{GM11}}$	1	$-\omega^*$	$-\omega$	$-\tau^*$	τ	-i	-1	ω^*	ω	τ^*	$-\tau$	i
$\overline{\text{GM12}}$	1	$-\omega^*$	$-\omega$	τ^*	$-\tau$	i	-1	ω^*	ω	$-\tau^*$	τ	-i

m001-6

Classes:

$C_1: \{1||1\}$

$C_2: \{1||3_{001}^1\}$

$C_3: \{1||3_{001}^2\}$

$C_4: \{^d1||1\}$

$C_5: \{^d1||3_{001}^1\}$

$C_6: \{^d1||3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2GM3	2	-1	-1	2	-1	-1
GM4	1	1	1	-1	-1	-1
GM5GM6	2	-1	-1	-2	1	1

1-6

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^2\}$
 $C_3: \{1||-6_{001}^5\}$
 $C_4: \{1||-6_{001}^1\}$
 $C_5: \{1||m_{001}\}$
 $C_6: \{1||3_{001}^1\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^2\}$
 $C_9: \{^d1||-6_{001}^5\}$
 $C_{10}: \{^d1||-6_{001}^1\}$
 $C_{11}: \{^d1||m_{001}\}$
 $C_{12}: \{^d1||3_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	$-\omega$	ω^*	ω	-1	$-\omega^*$	1	$-\omega$	ω^*	ω	-1	$-\omega^*$
GM4	1	$-\omega^*$	ω	ω^*	-1	$-\omega$	1	$-\omega^*$	ω	ω^*	-1	$-\omega$
GM5	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$
<u>GM7</u>	1	1	-1	-1	-1	1	-1	-1	1	1	1	-1
<u>GM8</u>	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
<u>GM9</u>	1	$-\omega$	ω^*	ω	-1	$-\omega^*$	-1	ω	$-\omega^*$	$-\omega$	1	ω^*
<u>GM10</u>	1	$-\omega^*$	ω	ω^*	-1	$-\omega$	-1	ω^*	$-\omega$	$-\omega^*$	1	ω
<u>GM11</u>	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$	-1	ω	ω^*	ω	-1	ω^*
<u>GM12</u>	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$	-1	ω^*	ω	ω^*	-1	ω

$$-6_{001}^1 6 / -1 m$$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{2_{001} \parallel -1\}$
 $C_3: \{3_{001}^1 \parallel 3_{001}^1\}$
 $C_4: \{3_{001}^2 \parallel 3_{001}^2\}$
 $C_5: \{6_{001}^1 \parallel -3_{001}^2\}$
 $C_6: \{6_{001}^5 \parallel -3_{001}^1\}$
 $C_7: \{^d 1 \parallel 1\}$
 $C_8: \{^d 2_{001} \parallel -1\}$
 $C_9: \{^d 3_{001}^1 \parallel 3_{001}^1\}$
 $C_{10}: \{^d 3_{001}^2 \parallel 3_{001}^2\}$
 $C_{11}: \{^d 6_{001}^1 \parallel -3_{001}^2\}$
 $C_{12}: \{^d 6_{001}^5 \parallel -3_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3GM4	2	-2	-1	-1	1	1	2	-2	-1	-1	1	1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
GM7GM8	2	0	-2	2	0	0	-2	0	2	-2	0	0
GM9GM10	2	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2	0	-1	1	$-\sqrt{3}$	$\sqrt{3}$
GM11GM12	2	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2	0	-1	1	$\sqrt{3}$	$-\sqrt{3}$

$6^1_{001}6/m_{001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{2_{001}||2_{001}\}$
 $C_3: \{3^1_{001}||3^1_{001}\}$
 $C_4: \{3^2_{001}||3^2_{001}\}$
 $C_5: \{6^1_{001}||6^1_{001}\}$
 $C_6: \{6^5_{001}||6^5_{001}\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d2_{001}||2_{001}\}$
 $C_9: \{^d3^1_{001}||3^1_{001}\}$
 $C_{10}: \{^d3^2_{001}||3^2_{001}\}$
 $C_{11}: \{^d6^1_{001}||6^1_{001}\}$
 $C_{12}: \{^d6^5_{001}||6^5_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3GM4	2	-2	-1	-1	1	1	2	-2	-1	-1	1	1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
GM7GM8	2	0	-2	2	0	0	-2	0	2	-2	0	0
GM9GM10	2	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2	0	-1	1	$-\sqrt{3}$	$\sqrt{3}$
GM11GM12	2	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2	0	-1	1	$\sqrt{3}$	$-\sqrt{3}$

$$-6_{001}^5/2_{001}m$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{2_{001}\|m_{001}\}$
 $C_3: \{3_{001}^1\|3_{001}^2\}$
 $C_4: \{3_{001}^2\|3_{001}^1\}$
 $C_5: \{6_{001}^1\|-6_{001}^5\}$
 $C_6: \{6_{001}^5\|-6_{001}^1\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d2_{001}\|m_{001}\}$
 $C_9: \{^d3_{001}^1\|3_{001}^2\}$
 $C_{10}: \{^d3_{001}^2\|3_{001}^1\}$
 $C_{11}: \{^d6_{001}^1\|-6_{001}^5\}$
 $C_{12}: \{^d6_{001}^5\|-6_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3GM4	2	-2	-1	-1	1	1	2	-2	-1	-1	1	1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
GM7GM8	2	0	-2	2	0	0	-2	0	2	-2	0	0
GM9GM10	2	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2	0	-1	1	$-\sqrt{3}$	$\sqrt{3}$
GM11GM12	2	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2	0	-1	1	$\sqrt{3}$	$-\sqrt{3}$

$$6_{001}^5 6_{-1}^1 m$$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{2_{001} \parallel 2_{001}\}$
 $C_3: \{3_{001}^1 \parallel 3_{001}^2\}$
 $C_4: \{3_{001}^2 \parallel 3_{001}^1\}$
 $C_5: \{6_{001}^1 \parallel 6_{001}^5\}$
 $C_6: \{6_{001}^5 \parallel 6_{001}^1\}$
 $C_7: \{^d 1 \parallel 1\}$
 $C_8: \{^d 2_{001} \parallel 2_{001}\}$
 $C_9: \{^d 3_{001}^1 \parallel 3_{001}^2\}$
 $C_{10}: \{^d 3_{001}^2 \parallel 3_{001}^1\}$
 $C_{11}: \{^d 6_{001}^1 \parallel 6_{001}^5\}$
 $C_{12}: \{^d 6_{001}^5 \parallel 6_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3GM4	2	-2	-1	-1	1	1	2	-2	-1	-1	1	1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
GM7GM8	2	0	-2	2	0	0	-2	0	2	-2	0	0
GM9GM10	2	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2	0	-1	1	$-\sqrt{3}$	$\sqrt{3}$
GM11GM12	2	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2	0	-1	1	$\sqrt{3}$	$-\sqrt{3}$

$$-3_{001}^2 6/m_{001}m$$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{2_{001} \parallel -1\}$
 $C_3: \{3_{001}^1 \parallel 3_{001}^1\}$
 $C_4: \{3_{001}^2 \parallel 3_{001}^2\}$
 $C_5: \{6_{001}^1 \parallel -3_{001}^2\}$
 $C_6: \{6_{001}^5 \parallel -3_{001}^1\}$
 $C_7: \{^d1 \parallel 1\}$
 $C_8: \{^d2_{001} \parallel -1\}$
 $C_9: \{^d3_{001}^1 \parallel 3_{001}^1\}$
 $C_{10}: \{^d3_{001}^2 \parallel 3_{001}^2\}$
 $C_{11}: \{^d6_{001}^1 \parallel -3_{001}^2\}$
 $C_{12}: \{^d6_{001}^5 \parallel -3_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3GM4	2	-2	-1	-1	1	1	2	-2	-1	-1	1	1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
GM7GM8	2	0	-2	2	0	0	-2	0	2	-2	0	0
GM9GM10	2	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2	0	-1	1	$-\sqrt{3}$	$\sqrt{3}$
GM11GM12	2	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2	0	-1	1	$\sqrt{3}$	$-\sqrt{3}$

$$-3_{001}^1 6/2_{001} m$$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{2_{001} \parallel m_{001}\}$
 $C_3: \{3_{001}^1 \parallel 3_{001}^2\}$
 $C_4: \{3_{001}^2 \parallel 3_{001}^1\}$
 $C_5: \{6_{001}^1 \parallel -6_{001}^5\}$
 $C_6: \{6_{001}^5 \parallel -6_{001}^1\}$
 $C_7: \{^d 1 \parallel 1\}$
 $C_8: \{^d 2_{001} \parallel m_{001}\}$
 $C_9: \{^d 3_{001}^1 \parallel 3_{001}^2\}$
 $C_{10}: \{^d 3_{001}^2 \parallel 3_{001}^1\}$
 $C_{11}: \{^d 6_{001}^1 \parallel -6_{001}^5\}$
 $C_{12}: \{^d 6_{001}^5 \parallel -6_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3GM4	2	-2	-1	-1	1	1	2	-2	-1	-1	1	1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
GM7GM8	2	0	-2	2	0	0	-2	0	2	-2	0	0
GM9GM10	2	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2	0	-1	1	$-\sqrt{3}$	$\sqrt{3}$
GM11GM12	2	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2	0	-1	1	$\sqrt{3}$	$-\sqrt{3}$

$6^1_{001}6/2_{001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{2_{001}||m_{001}\}$
 $C_4: \{2_{001}||2_{001}\}$
 $C_5: \{3^1_{001}||3^1_{001}\}$
 $C_6: \{3^1_{001}||-3^1_{001}\}$
 $C_7: \{3^2_{001}||3^2_{001}\}$
 $C_8: \{3^2_{001}||-3^2_{001}\}$
 $C_9: \{6^1_{001}||6^1_{001}\}$
 $C_{10}: \{6^1_{001}||-6^1_{001}\}$
 $C_{11}: \{6^5_{001}||6^5_{001}\}$
 $C_{12}: \{6^5_{001}||-6^5_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||-1\}$
 $C_{15}: \{^d2_{001}||m_{001}\}$
 $C_{16}: \{^d2_{001}||2_{001}\}$
 $C_{17}: \{^d3^1_{001}||3^1_{001}\}$
 $C_{18}: \{^d3^1_{001}||-3^1_{001}\}$
 $C_{19}: \{^d3^2_{001}||3^2_{001}\}$
 $C_{20}: \{^d3^2_{001}||-3^2_{001}\}$
 $C_{21}: \{^d6^1_{001}||6^1_{001}\}$
 $C_{22}: \{^d6^1_{001}||-6^1_{001}\}$
 $C_{23}: \{^d6^5_{001}||6^5_{001}\}$
 $C_{24}: \{^d6^5_{001}||-6^5_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-1	1	$-\omega$	ω	$-\omega^*$	ω^*	$-\omega^*$	ω^*	$-\omega$	ω	1	-1	-1	1	$-\omega$	ω	$-\omega^*$	ω^*	$-\omega^*$	ω^*	$-\omega$	ω
GM6	1	-1	-1	1	$-\omega^*$	ω^*	$-\omega$	ω	$-\omega$	ω	$-\omega^*$	ω^*	1	-1	-1	1	$-\omega^*$	ω^*	$-\omega$	ω	$-\omega$	ω	$-\omega^*$	ω^*
GM7	1	-1	1	-1	$-\omega$	ω	$-\omega^*$	ω^*	ω^*	$-\omega^*$	ω	$-\omega$	1	-1	1	-1	$-\omega$	ω	$-\omega^*$	ω^*	ω^*	$-\omega^*$	ω	$-\omega$
GM8	1	-1	1	-1	$-\omega^*$	ω^*	$-\omega$	ω	$-\omega$	ω^*	ω^*	$-\omega^*$	1	-1	1	-1	$-\omega^*$	ω^*	$-\omega$	ω	$-\omega$	ω^*	ω^*	$-\omega^*$
GM9	1	1	-1	-1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	ω^*	ω^*	ω	ω	1	1	-1	-1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	ω^*	ω^*	ω	ω
GM10	1	1	-1	-1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	ω	ω	ω^*	ω^*	1	1	-1	-1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	ω	ω	ω^*	ω^*
GM11	1	1	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
GM12	1	1	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM13	1	-1	-i	i	-1	1	1	-1	-i	i	-i	i	-1	1	i	-i	1	-1	-1	1	i	-i	i	-i
GM14	1	-1	i	-i	-1	1	1	-1	i	-i	i	-i	-1	1	-i	i	1	-1	-1	1	-i	i	-i	-i
GM15	1	-1	-i	i	ω^*	$-\omega^*$	$-\omega$	ω	$-\tau^*$	τ^*	τ	$-\tau$	-1	1	i	-i	$-\omega^*$	ω^*	ω	$-\omega$	τ^*	$-\tau^*$	$-\tau$	τ
GM16	1	-1	-i	i	ω	$-\omega$	$-\omega^*$	ω^*	τ	$-\tau$	$-\tau^*$	τ^*	-1	1	i	-i	$-\omega$	ω	ω^*	$-\omega^*$	$-\tau$	τ	τ^*	$-\tau^*$
GM17	1	-1	i	-i	ω^*	$-\omega^*$	$-\omega$	ω	τ^*	$-\tau^*$	$-\tau$	τ	-1	1	-i	i	$-\omega^*$	ω^*	ω	$-\omega$	$-\tau^*$	τ^*	τ	$-\tau$
GM18	1	-1	i	-i	ω	$-\omega$	$-\omega^*$	ω^*	$-\tau$	τ	τ^*	$-\tau^*$	-1	1	-i	i	$-\omega$	ω^*	ω^*	$-\omega^*$	τ	$-\tau$	$-\tau^*$	τ^*
GM19	1	1	-i	-i	-1	-1	1	1	i	i	i	i	-1	-1	i	i	1	1	-1	-1	-i	-i	-i	-i
GM20	1	1	i	i	-1	-1	1	1	-i	-i	-i	-i	-1	-1	-i	-i	1	1	-1	-1	i	i	i	i
GM21	1	1	-i	-i	ω^*	ω^*	$-\omega$	$-\omega$	τ^*	τ^*	$-\tau$	$-\tau$	-1	-1	i	i	$-\omega^*$	$-\omega^*$	ω	ω	$-\tau^*$	$-\tau^*$	τ	τ
GM22	1	1	-i	-i	ω	ω	$-\omega^*$	$-\omega^*$	$-\tau$	$-\tau$	τ^*	τ^*	-1	-1	i	i	$-\omega$	$-\omega$	ω^*	ω^*	τ	τ	$-\tau^*$	$-\tau^*$
GM23	1	1	i	i	ω^*	ω^*	$-\omega$	$-\omega$	$-\tau^*$	$-\tau^*$	τ	τ	-1	-1	-i	-i	$-\omega^*$	$-\omega^*$	ω	ω	τ^*	τ^*	$-\tau$	$-\tau$
GM24	1	1	i	i	ω	ω	$-\omega^*$	$-\omega^*$	τ	τ	$-\tau^*$	$-\tau^*$	-1	-1	-i	-i	$-\omega$	$-\omega$	ω^*	ω^*	$-\tau$	$-\tau$	τ^*	τ^*

$$-6_{001}^5 6/m_{001}m$$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{1 \parallel -1\}$
 $C_3: \{3_{001}^1 \parallel 3_{001}^2\}$
 $C_4: \{3_{001}^1 \parallel -3_{001}^2\}$
 $C_5: \{3_{001}^2 \parallel 3_{001}^1\}$
 $C_6: \{3_{001}^2 \parallel -3_{001}^1\}$
 $C_7: \{^d1 \parallel 1\}$
 $C_8: \{^d1 \parallel -1\}$
 $C_9: \{^d3_{001}^1 \parallel 3_{001}^2\}$
 $C_{10}: \{^d3_{001}^1 \parallel -3_{001}^2\}$
 $C_{11}: \{^d3_{001}^2 \parallel 3_{001}^1\}$
 $C_{12}: \{^d3_{001}^2 \parallel -3_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3GM4	2	-2	-1	1	-1	1	2	-2	-1	1	-1	1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
<u>GM7</u>	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
<u>GM8</u>	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
<u>GM9GM10</u>	2	-2	1	-1	-1	1	-2	2	-1	1	1	-1
<u>GM11GM12</u>	2	2	1	1	-1	-1	-2	-2	-1	-1	1	1

$$-3_{001}^2 6 / -1_m$$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{1 \parallel -1\}$
 $C_3: \{3_{001}^1 \parallel 3_{001}^1\}$
 $C_4: \{3_{001}^1 \parallel -3_{001}^1\}$
 $C_5: \{3_{001}^2 \parallel 3_{001}^2\}$
 $C_6: \{3_{001}^2 \parallel -3_{001}^2\}$
 $C_7: \{^d1 \parallel 1\}$
 $C_8: \{^d1 \parallel -1\}$
 $C_9: \{^d3_{001}^1 \parallel 3_{001}^1\}$
 $C_{10}: \{^d3_{001}^1 \parallel -3_{001}^1\}$
 $C_{11}: \{^d3_{001}^2 \parallel 3_{001}^2\}$
 $C_{12}: \{^d3_{001}^2 \parallel -3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3GM4	2	-2	-1	1	-1	1	2	-2	-1	1	-1	1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
GM7GM7	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2
GM8GM8	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2
GM9GM10	2	-2	1	-1	-1	1	-2	2	-1	1	1	-1
GM11GM12	2	2	1	1	-1	-1	-2	-2	-1	-1	1	1

$$3^2_{001}6/2_{001}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{2_{001}||-1\}$
 $C_4: \{2_{001}||m_{001}\}$
 $C_5: \{3^1_{001}||3^1_{001}\}$
 $C_6: \{3^1_{001}||6^5_{001}\}$
 $C_7: \{3^2_{001}||3^2_{001}\}$
 $C_8: \{3^2_{001}||6^1_{001}\}$
 $C_9: \{6^1_{001}||-3^2_{001}\}$
 $C_{10}: \{6^1_{001}||-6^1_{001}\}$
 $C_{11}: \{6^5_{001}||-3^1_{001}\}$
 $C_{12}: \{6^5_{001}||-6^5_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||2_{001}\}$
 $C_{15}: \{^d2_{001}||-1\}$
 $C_{16}: \{^d2_{001}||m_{001}\}$
 $C_{17}: \{^d3^1_{001}||3^1_{001}\}$
 $C_{18}: \{^d3^1_{001}||6^5_{001}\}$
 $C_{19}: \{^d3^2_{001}||3^2_{001}\}$
 $C_{20}: \{^d3^2_{001}||6^1_{001}\}$
 $C_{21}: \{^d6^1_{001}||-3^2_{001}\}$
 $C_{22}: \{^d6^1_{001}||-6^1_{001}\}$
 $C_{23}: \{^d6^5_{001}||-3^1_{001}\}$
 $C_{24}: \{^d6^5_{001}||-6^5_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-1	1	$-\omega$	ω	$-\omega^*$	ω^*	ω^*	$-\omega^*$	ω	$-\omega$	1	-1	-1	1	$-\omega$	ω	$-\omega^*$	ω^*	ω^*	$-\omega^*$	ω	$-\omega$
GM6	1	-1	-1	1	$-\omega^*$	ω^*	$-\omega$	ω	$-\omega$	ω^*	$-\omega^*$	$-\omega^*$	1	-1	-1	1	$-\omega^*$	ω^*	$-\omega$	ω	$-\omega$	ω^*	$-\omega^*$	
GM7	1	-1	1	-1	$-\omega$	ω	$-\omega^*$	ω^*	$-\omega^*$	ω^*	$-\omega$	ω	1	-1	1	-1	$-\omega$	ω	$-\omega^*$	ω^*	$-\omega^*$	ω^*	$-\omega$	ω
GM8	1	-1	1	-1	$-\omega^*$	ω^*	$-\omega$	$-\omega$	$-\omega$	ω	$-\omega^*$	ω^*	1	-1	1	-1	$-\omega^*$	ω^*	$-\omega$	$-\omega$	$-\omega$	ω	$-\omega^*$	ω^*
GM9	1	1	-1	-1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	ω^*	ω^*	ω	ω	1	1	-1	-1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	ω^*	ω^*	ω	ω
GM10	1	1	-1	-1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	ω	ω	ω^*	ω^*	1	1	-1	-1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	ω	ω	ω^*	ω^*
GM11	1	1	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
GM12	1	1	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM13	1	-1	-i	i	-1	1	1	-1	i	-i	i	-i	-1	1	i	-i	1	-1	-1	1	-i	i	-i	i
GM14	1	-1	i	-i	-1	1	1	-1	-i	i	-i	i	-1	1	-i	i	1	-1	-1	1	i	-i	i	-i
GM15	1	-1	-i	i	ω^*	$-\omega^*$	$-\omega$	ω	τ^*	$-\tau^*$	$-\tau$	τ	-1	1	i	-i	$-\omega^*$	ω^*	ω	$-\omega$	$-\tau^*$	τ^*	τ	$-\tau$
GM16	1	-1	-i	i	ω	$-\omega$	$-\omega^*$	ω^*	$-\tau$	τ	τ^*	$-\tau^*$	-1	1	i	-i	$-\omega$	ω	ω^*	$-\omega^*$	τ	$-\tau$	$-\tau^*$	τ^*
GM17	1	-1	i	-i	ω^*	$-\omega^*$	$-\omega$	ω	$-\tau^*$	τ^*	τ	$-\tau$	-1	1	-i	i	$-\omega^*$	ω^*	ω	$-\omega$	τ^*	$-\tau^*$	$-\tau$	τ
GM18	1	-1	i	-i	ω	$-\omega$	$-\omega^*$	ω^*	τ	$-\tau$	$-\tau^*$	τ^*	-1	1	-i	i	$-\omega$	ω	ω^*	$-\omega^*$	$-\tau$	τ	τ^*	$-\tau^*$
GM19	1	1	-i	-i	-1	-1	1	1	i	i	i	i	-1	-1	i	i	1	1	-1	-1	-i	-i	-i	-i
GM20	1	1	i	i	-1	-1	1	1	-i	-i	-i	-i	-1	-1	-i	-i	1	1	-1	-1	i	i	i	i
GM21	1	1	-i	-i	ω^*	ω^*	$-\omega$	$-\omega$	τ^*	τ^*	$-\tau$	$-\tau$	-1	-1	i	i	$-\omega^*$	$-\omega^*$	ω	ω	$-\tau^*$	$-\tau^*$	τ	τ
GM22	1	1	-i	-i	ω	$-\omega$	$-\omega^*$	$-\omega^*$	$-\tau$	$-\tau$	τ^*	τ^*	-1	-1	i	i	$-\omega$	$-\omega$	ω^*	ω^*	τ	τ	$-\tau^*$	$-\tau^*$
GM23	1	1	i	i	ω^*	ω^*	$-\omega$	$-\omega$	$-\tau^*$	$-\tau^*$	τ	τ	-1	-1	-i	-i	$-\omega^*$	$-\omega^*$	ω	ω	τ^*	τ^*	$-\tau$	$-\tau$
GM24	1	1	i	i	ω	ω	$-\omega^*$	$-\omega^*$	τ	τ	$-\tau^*$	$-\tau^*$	-1	-1	-i	-i	$-\omega$	$-\omega$	ω^*	ω^*	$-\tau$	$-\tau$	τ^*	τ^*

$$3^1_{001}6/m_{001}m$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{3^1_{001}\|3^2_{001}\}$
 $C_4: \{3^1_{001}\|6^1_{001}\}$
 $C_5: \{3^2_{001}\|3^1_{001}\}$
 $C_6: \{3^2_{001}\|6^5_{001}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|2_{001}\}$
 $C_9: \{^d3^1_{001}\|3^2_{001}\}$
 $C_{10}: \{^d3^1_{001}\|6^1_{001}\}$
 $C_{11}: \{^d3^2_{001}\|3^1_{001}\}$
 $C_{12}: \{^d3^2_{001}\|6^5_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3GM4	2	-2	-1	1	-1	1	2	-2	-1	1	-1	1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
$\overline{\text{GM7}}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\overline{\text{GM8}}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
$\overline{\text{GM9GM10}}$	2	-2	1	-1	-1	1	-2	2	-1	1	1	-1
$\overline{\text{GM11GM12}}$	2	2	1	1	-1	-1	-2	-2	-1	-1	1	1

$$3_{001}^2 6^{-1} m$$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{1 \parallel 2_{001}\}$
 $C_3: \{3_{001}^1 \parallel 3_{001}^1\}$
 $C_4: \{3_{001}^1 \parallel 6_{001}^5\}$
 $C_5: \{3_{001}^2 \parallel 3_{001}^2\}$
 $C_6: \{3_{001}^2 \parallel 6_{001}^1\}$
 $C_7: \{^d 1 \parallel 1\}$
 $C_8: \{^d 1 \parallel 2_{001}\}$
 $C_9: \{^d 3_{001}^1 \parallel 3_{001}^1\}$
 $C_{10}: \{^d 3_{001}^1 \parallel 6_{001}^5\}$
 $C_{11}: \{^d 3_{001}^2 \parallel 3_{001}^2\}$
 $C_{12}: \{^d 3_{001}^2 \parallel 6_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3GM4	2	-2	-1	1	-1	1	2	-2	-1	1	-1	1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
GM7GM7	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2
GM8GM8	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2
GM9GM10	2	-2	1	-1	-1	1	-2	2	-1	1	1	-1
GM11GM12	2	2	1	1	-1	-1	-2	-2	-1	-1	1	1

$6^1_{001}6/1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||m_{001}\}$
 $C_3: \{2_{001}||-1\}$
 $C_4: \{2_{001}||2_{001}\}$
 $C_5: \{3^1_{001}||-6^5_{001}\}$
 $C_6: \{3^1_{001}||3^1_{001}\}$
 $C_7: \{3^2_{001}||-6^1_{001}\}$
 $C_8: \{3^2_{001}||3^2_{001}\}$
 $C_9: \{6^1_{001}||-3^2_{001}\}$
 $C_{10}: \{6^1_{001}||6^1_{001}\}$
 $C_{11}: \{6^5_{001}||-3^1_{001}\}$
 $C_{12}: \{6^5_{001}||6^5_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||m_{001}\}$
 $C_{15}: \{^d2_{001}||-1\}$
 $C_{16}: \{^d2_{001}||2_{001}\}$
 $C_{17}: \{^d3^1_{001}||-6^5_{001}\}$
 $C_{18}: \{^d3^1_{001}||3^1_{001}\}$
 $C_{19}: \{^d3^2_{001}||-6^1_{001}\}$
 $C_{20}: \{^d3^2_{001}||3^2_{001}\}$
 $C_{21}: \{^d6^1_{001}||-3^2_{001}\}$
 $C_{22}: \{^d6^1_{001}||6^1_{001}\}$
 $C_{23}: \{^d6^5_{001}||-3^1_{001}\}$
 $C_{24}: \{^d6^5_{001}||6^5_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1
GM3	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-1	1	ω^*	$-\omega^*$	ω	$-\omega$	ω	$-\omega$	ω^*	$-\omega^*$	1	-1	-1	1	ω^*	$-\omega^*$	ω	$-\omega$	ω	$-\omega$	ω^*	$-\omega^*$
GM6	1	-1	-1	1	ω	$-\omega$	ω^*	$-\omega^*$	ω^*	$-\omega^*$	ω	$-\omega$	1	-1	-1	1	ω	$-\omega$	ω^*	$-\omega^*$	ω^*	$-\omega^*$	ω	$-\omega$
GM7	1	-1	1	-1	ω^*	$-\omega^*$	ω	$-\omega$	$-\omega$	ω	$-\omega^*$	ω^*	1	-1	1	-1	ω^*	$-\omega^*$	ω	$-\omega$	$-\omega$	ω	$-\omega^*$	ω^*
GM8	1	-1	1	-1	ω	$-\omega$	ω^*	$-\omega^*$	$-\omega^*$	ω^*	$-\omega$	ω	1	-1	1	-1	ω	$-\omega$	ω^*	$-\omega^*$	$-\omega^*$	ω^*	$-\omega$	ω
GM9	1	1	-1	-1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	ω^*	ω	ω	ω	1	1	-1	-1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	ω^*	ω^*	ω	ω
GM10	1	1	-1	-1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	ω	ω	ω^*	ω^*	1	1	-1	-1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	ω	ω	ω^*	ω^*
GM11	1	1	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
GM12	1	1	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM13	1	-1	-i	i	1	-1	-1	1	i	-i	i	-i	-1	1	i	-i	-1	1	1	-1	-i	i	-i	i
GM14	1	-1	i	-i	1	-1	-1	1	-i	i	-i	i	-1	1	-i	i	-1	1	1	-1	i	-i	i	-i
GM15	1	-1	-i	i	$-\omega$	ω	ω^*	$-\omega^*$	$-\tau$	τ	τ^*	$-\tau^*$	-1	1	i	-i	ω	$-\omega$	$-\omega^*$	ω^*	τ	$-\tau$	$-\tau^*$	τ^*
GM16	1	-1	-i	i	$-\omega^*$	ω^*	ω	$-\omega$	τ^*	$-\tau^*$	$-\tau$	τ	-1	1	i	-i	ω^*	$-\omega^*$	$-\omega$	ω	$-\tau^*$	τ^*	τ	$-\tau$
GM17	1	-1	i	-i	$-\omega$	ω	ω^*	$-\omega^*$	τ	$-\tau$	$-\tau^*$	τ^*	-1	1	-i	i	ω	$-\omega$	$-\omega^*$	ω^*	$-\tau$	τ	τ^*	$-\tau^*$
GM18	1	-1	i	-i	$-\omega^*$	ω^*	ω	$-\omega$	$-\tau^*$	τ^*	τ	$-\tau$	-1	1	-i	i	ω^*	$-\omega^*$	$-\omega$	ω	τ^*	$-\tau^*$	$-\tau$	τ
GM19	1	1	-i	-i	-1	-1	1	1	i	i	i	i	-1	-1	i	i	1	1	-1	-1	-i	-i	-i	-i
GM20	1	1	i	i	-1	-1	1	1	-i	-i	-i	-i	-1	-1	-i	-i	1	1	-1	-1	i	i	i	i
GM21	1	1	-i	-i	ω^*	ω^*	$-\omega$	$-\omega$	τ^*	τ^*	$-\tau$	$-\tau$	-1	-1	i	i	$-\omega^*$	$-\omega^*$	ω	ω	$-\tau^*$	$-\tau^*$	τ	τ
GM22	1	1	-i	-i	ω	ω	$-\omega^*$	$-\omega^*$	$-\tau$	$-\tau$	τ^*	τ^*	-1	-1	i	i	$-\omega$	$-\omega$	ω^*	ω^*	τ	τ	$-\tau^*$	$-\tau^*$
GM23	1	1	i	i	ω^*	ω^*	$-\omega$	$-\omega$	$-\tau^*$	$-\tau^*$	τ	τ	-1	-1	-i	-i	$-\omega^*$	$-\omega^*$	ω	ω	τ^*	τ^*	$-\tau$	$-\tau$
GM24	1	1	i	i	ω	ω	$-\omega^*$	$-\omega^*$	τ	τ	$-\tau^*$	$-\tau^*$	-1	-1	-i	-i	$-\omega$	$-\omega$	ω^*	ω^*	$-\tau$	$-\tau$	τ^*	τ^*

$$-6_{001}^5 6/1m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||m_{001}\}$
 $C_3: \{3_{001}^1||-6_{001}^1\}$
 $C_4: \{3_{001}^1||3_{001}^2\}$
 $C_5: \{3_{001}^2||-6_{001}^5\}$
 $C_6: \{3_{001}^2||3_{001}^1\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||m_{001}\}$
 $C_9: \{^d3_{001}^1||-6_{001}^1\}$
 $C_{10}: \{^d3_{001}^1||3_{001}^2\}$
 $C_{11}: \{^d3_{001}^2||-6_{001}^5\}$
 $C_{12}: \{^d3_{001}^2||3_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1
GM3GM4	2	-2	1	-1	1	-1	2	-2	1	-1	1	-1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
$\overline{GM7}$	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1
$\overline{GM8}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
$\overline{GM9GM10}$	2	-2	-1	1	1	-1	-2	2	1	-1	-1	1
$\overline{GM11GM12}$	2	2	1	1	-1	-1	-2	-2	-1	-1	1	1

$$-3_{001}^2 6/1m$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|m_{001}\}$
 $C_3: \{3_{001}^1\| - 6_{001}^5\}$
 $C_4: \{3_{001}^1\|3_{001}^1\}$
 $C_5: \{3_{001}^2\| - 6_{001}^1\}$
 $C_6: \{3_{001}^2\|3_{001}^2\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|m_{001}\}$
 $C_9: \{^d3_{001}^1\| - 6_{001}^5\}$
 $C_{10}: \{^d3_{001}^1\|3_{001}^1\}$
 $C_{11}: \{^d3_{001}^2\| - 6_{001}^1\}$
 $C_{12}: \{^d3_{001}^2\|3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1
GM3GM4	2	-2	1	-1	1	-1	2	-2	1	-1	1	-1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
GM7GM7	2	-2	2	-2	-2	2	-2	2	-2	2	2	-2
GM8GM8	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2
GM9GM10	2	-2	-1	1	1	-1	-2	2	1	-1	-1	1
GM11GM12	2	2	1	1	-1	-1	-2	-2	-1	-1	1	1

$3_{001}^2 6/1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||m_{001}\}$
 $C_4: \{1||2_{001}\}$
 $C_5: \{3_{001}^1||3_{001}^1\}$
 $C_6: \{3_{001}^1||6_{001}^5\}$
 $C_7: \{3_{001}^1||-3_{001}^1\}$
 $C_8: \{3_{001}^1||-6_{001}^5\}$
 $C_9: \{3_{001}^2||3_{001}^2\}$
 $C_{10}: \{3_{001}^2||6_{001}^1\}$
 $C_{11}: \{3_{001}^2||-3_{001}^2\}$
 $C_{12}: \{3_{001}^2||-6_{001}^1\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||-1\}$
 $C_{15}: \{^d1||m_{001}\}$
 $C_{16}: \{^d1||2_{001}\}$
 $C_{17}: \{^d3_{001}^1||3_{001}^1\}$
 $C_{18}: \{^d3_{001}^1||6_{001}^5\}$
 $C_{19}: \{^d3_{001}^1||-3_{001}^1\}$
 $C_{20}: \{^d3_{001}^1||-6_{001}^5\}$
 $C_{21}: \{^d3_{001}^2||3_{001}^2\}$
 $C_{22}: \{^d3_{001}^2||6_{001}^1\}$
 $C_{23}: \{^d3_{001}^2||-3_{001}^2\}$
 $C_{24}: \{^d3_{001}^2||-6_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	1	-1	-1
GM3	1	-1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	1	-1	1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1
GM5	1	-1	-1	1	$-\omega$	$-\omega$	ω	ω	$-\omega^*$	$-\omega^*$	ω^*	ω^*	1	-1	-1	1	$-\omega$	$-\omega$	ω	ω	$-\omega^*$	$-\omega^*$	ω^*	ω^*
GM6	1	-1	-1	1	$-\omega^*$	$-\omega^*$	ω^*	ω^*	$-\omega$	$-\omega$	ω	ω	1	-1	-1	1	$-\omega^*$	$-\omega^*$	ω^*	ω^*	$-\omega$	$-\omega$	ω	ω
GM7	1	-1	1	-1	$-\omega$	ω	ω	$-\omega$	$-\omega^*$	ω^*	ω^*	$-\omega^*$	1	-1	1	-1	$-\omega$	ω	ω	$-\omega$	$-\omega^*$	ω^*	ω^*	$-\omega^*$
GM8	1	-1	1	-1	$-\omega^*$	ω^*	ω^*	$-\omega^*$	$-\omega$	ω	ω	$-\omega$	1	-1	1	-1	$-\omega^*$	ω^*	ω^*	$-\omega^*$	$-\omega$	ω	ω	$-\omega$
GM9	1	1	-1	-1	$-\omega$	ω	$-\omega$	ω	$-\omega^*$	ω^*	$-\omega^*$	$-\omega^*$	1	1	-1	-1	$-\omega$	ω	$-\omega$	ω	$-\omega^*$	ω^*	$-\omega^*$	ω^*
GM10	1	1	-1	-1	$-\omega^*$	ω^*	$-\omega^*$	ω^*	$-\omega$	ω	$-\omega$	ω	1	1	-1	-1	$-\omega^*$	ω^*	$-\omega^*$	ω^*	$-\omega$	ω	$-\omega$	ω
GM11	1	1	1	1	$-\omega$	$-\omega$	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	1	1	1	1	$-\omega$	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$
GM12	1	1	1	1	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	$-\omega$	$-\omega$	1	1	1	1	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	$-\omega$	$-\omega$
GM13	1	-1	-1	1	-1	-1	1	1	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	-1	1	1
GM14	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	1	1	-1	1	-1	1	1	-1
GM15	1	1	-1	-1	-1	1	-1	1	1	-1	1	-1	-1	-1	1	1	1	-1	1	-1	-1	1	-1	1
GM16	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM17	1	-1	-1	1	ω^*	ω^*	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	ω	ω	-1	1	1	-1	$-\omega^*$	$-\omega^*$	ω^*	ω^*	ω	ω	$-\omega$	$-\omega$
GM18	1	-1	-1	1	ω	ω	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega^*$	ω^*	ω^*	-1	1	1	-1	$-\omega$	$-\omega$	ω	ω	ω^*	ω^*	$-\omega^*$	$-\omega^*$
GM19	1	-1	1	-1	ω^*	$-\omega^*$	$-\omega^*$	ω^*	$-\omega$	ω	ω	$-\omega$	-1	1	-1	1	$-\omega^*$	ω^*	ω^*	$-\omega^*$	ω	$-\omega$	$-\omega$	ω
GM20	1	-1	1	-1	ω	$-\omega$	$-\omega$	ω	$-\omega^*$	ω^*	ω^*	$-\omega^*$	-1	1	-1	1	$-\omega$	ω	ω	$-\omega$	ω^*	$-\omega^*$	$-\omega^*$	ω^*
GM21	1	1	-1	-1	ω^*	$-\omega^*$	ω^*	$-\omega^*$	$-\omega$	ω	$-\omega$	ω	-1	-1	1	1	$-\omega^*$	ω^*	$-\omega^*$	ω^*	ω	$-\omega$	ω	$-\omega$
GM22	1	1	-1	-1	ω	$-\omega$	ω	$-\omega$	$-\omega^*$	ω^*	$-\omega^*$	ω^*	-1	-1	1	1	$-\omega$	ω	$-\omega$	ω	ω^*	$-\omega^*$	ω^*	$-\omega^*$
GM23	1	1	1	1	ω^*	ω^*	ω^*	ω^*	$-\omega$	$-\omega$	$-\omega$	$-\omega$	-1	-1	-1	-1	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	ω	ω	ω	ω
GM24	1	1	1	1	ω	ω	ω	ω	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	-1	-1	-1	-1	$-\omega$	$-\omega$	$-\omega$	$-\omega$	ω^*	ω^*	ω^*	ω^*

$2_{001}6/2_{100}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{2_{001}||2_{001}\}, \{^d2_{001}||2_{001}\}$
 $C_5: \{2_{001}||6_{001}^1\}, \{^d2_{001}||6_{001}^1\}$
 $C_6: \{2_{001}||6_{001}^5\}, \{^d2_{001}||6_{001}^5\}$
 $C_7: \{2_{010}||-1\}, \{^d2_{010}||-1\}$
 $C_8: \{2_{010}||-3_{001}^1\}, \{^d2_{010}||-3_{001}^1\}$
 $C_9: \{2_{010}||-3_{001}^2\}, \{^d2_{010}||-3_{001}^2\}$
 $C_{10}: \{2_{100}||-6_{001}^1\}, \{^d2_{100}||-6_{001}^1\}$
 $C_{11}: \{2_{100}||-6_{001}^5\}, \{^d2_{100}||-6_{001}^5\}$
 $C_{12}: \{2_{100}||m_{001}\}, \{^d2_{100}||m_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||3_{001}^1\}$
 $C_{15}: \{^d1||3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
GM3	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
GM5	1	$-\omega$	$-\omega^*$	-1	ω^*	ω	-1	ω	ω^*	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	-1	ω	ω^*	-1	ω^*	ω	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$
GM7	1	$-\omega$	$-\omega^*$	-1	ω^*	ω	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	$-\omega$	$-\omega^*$
GM8	1	$-\omega^*$	$-\omega$	-1	ω	ω^*	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	$-\omega^*$	$-\omega$
GM9	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	-1	ω	ω^*	ω^*	ω	-1	1	$-\omega$	$-\omega^*$
GM10	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	-1	ω^*	ω	ω	ω^*	-1	1	$-\omega^*$	$-\omega$
GM11	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$
GM12	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$
GM13	2	2	2	0	0	0	0	0	0	0	0	0	-2	-2	-2
GM14	2	-2ω	$-2\omega^*$	0	0	0	0	0	0	0	0	0	-2	2ω	$2\omega^*$
GM15	2	$-2\omega^*$	-2ω	0	0	0	0	0	0	0	0	0	-2	$2\omega^*$	2ω

$2_{001}6^{-1}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^1\}$
 $C_3: \{1\|3_{001}^2\}$
 $C_4: \{2_{001}\|2_{001}\}$
 $C_5: \{2_{001}\|6_{001}^1\}$
 $C_6: \{2_{001}\|6_{001}^5\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3_{001}^1\}$
 $C_9: \{^d1\|3_{001}^2\}$
 $C_{10}: \{^d2_{001}\|2_{001}\}$
 $C_{11}: \{^d2_{001}\|6_{001}^1\}$
 $C_{12}: \{^d2_{001}\|6_{001}^5\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3GM4	2	-1	-1	-2	1	1	2	-1	-1	-2	1	1
GM5GM6	2	-1	-1	2	-1	-1	2	-1	-1	2	-1	-1
GM7GM8	2	2	2	0	0	0	-2	-2	-2	0	0	0
GM9GM10	2	-1	-1	0	$\sqrt{3}$	$-\sqrt{3}$	-2	1	1	0	$-\sqrt{3}$	$\sqrt{3}$
GM11GM12	2	-1	-1	0	$-\sqrt{3}$	$\sqrt{3}$	-2	1	1	0	$\sqrt{3}$	$-\sqrt{3}$

$m_{001}6/2_{001}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^1\}$
 $C_3: \{1\|3_{001}^2\}$
 $C_4: \{2_{001}\| -6_{001}^1\}$
 $C_5: \{2_{001}\| -6_{001}^5\}$
 $C_6: \{2_{001}\|m_{001}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3_{001}^1\}$
 $C_9: \{^d1\|3_{001}^2\}$
 $C_{10}: \{^d2_{001}\| -6_{001}^1\}$
 $C_{11}: \{^d2_{001}\| -6_{001}^5\}$
 $C_{12}: \{^d2_{001}\|m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3GM4	2	-1	-1	1	1	-2	2	-1	-1	1	1	-2
GM5GM6	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1	2
GM7GM8	2	2	2	0	0	0	-2	-2	-2	0	0	0
GM9GM10	2	-1	-1	$\sqrt{3}$	$-\sqrt{3}$	0	-2	1	1	$-\sqrt{3}$	$\sqrt{3}$	0
GM11GM12	2	-1	-1	$-\sqrt{3}$	$\sqrt{3}$	0	-2	1	1	$\sqrt{3}$	$-\sqrt{3}$	0

$-1\overline{6}/m001m$

Classes:

- $C_1: \{1\parallel 1\}$
 $C_2: \{1\parallel 3_{001}^1\}$
 $C_3: \{1\parallel 3_{001}^2\}$
 $C_4: \{2_{001}\parallel -1\}$
 $C_5: \{2_{001}\parallel -3_{001}^1\}$
 $C_6: \{2_{001}\parallel -3_{001}^2\}$
 $C_7: \{^d1\parallel 1\}$
 $C_8: \{^d1\parallel 3_{001}^1\}$
 $C_9: \{^d1\parallel 3_{001}^2\}$
 $C_{10}: \{^d2_{001}\parallel -1\}$
 $C_{11}: \{^d2_{001}\parallel -3_{001}^1\}$
 $C_{12}: \{^d2_{001}\parallel -3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3GM4	2	-1	-1	-2	1	1	2	-1	-1	-2	1	1
GM5GM6	2	-1	-1	2	-1	-1	2	-1	-1	2	-1	-1
GM7GM8	2	2	2	0	0	0	-2	-2	-2	0	0	0
GM9GM10	2	-1	-1	0	$-\sqrt{3}$	$\sqrt{3}$	-2	1	1	0	$\sqrt{3}$	$-\sqrt{3}$
GM11GM12	2	-1	-1	0	$\sqrt{3}$	$-\sqrt{3}$	-2	1	1	0	$-\sqrt{3}$	$\sqrt{3}$

$2_{001}\overline{6}/m_{001}m$

Classes:

- $C_1: \{1\parallel 1\}$
 $C_2: \{1\parallel 3_{001}^1\}$
 $C_3: \{1\parallel 3_{001}^2\}$
 $C_4: \{2_{001}\parallel 2_{001}\}$
 $C_5: \{2_{001}\parallel 6_{001}^1\}$
 $C_6: \{2_{001}\parallel 6_{001}^5\}$
 $C_7: \{^d1\parallel 1\}$
 $C_8: \{^d1\parallel 3_{001}^1\}$
 $C_9: \{^d1\parallel 3_{001}^2\}$
 $C_{10}: \{^d2_{001}\parallel 2_{001}\}$
 $C_{11}: \{^d2_{001}\parallel 6_{001}^1\}$
 $C_{12}: \{^d2_{001}\parallel 6_{001}^5\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3GM4	2	-1	-1	-2	1	1	2	-1	-1	-2	1	1
GM5GM6	2	-1	-1	2	-1	-1	2	-1	-1	2	-1	-1
$\overline{\text{GM7GM8}}$	2	2	2	0	0	0	-2	-2	-2	0	0	0
$\overline{\text{GM9GM10}}$	2	-1	-1	0	$\sqrt{3}$	$-\sqrt{3}$	-2	1	1	0	$-\sqrt{3}$	$\sqrt{3}$
$\overline{\text{GM11GM12}}$	2	-1	-1	0	$-\sqrt{3}$	$\sqrt{3}$	-2	1	1	0	$\sqrt{3}$	$-\sqrt{3}$

$m_{001}6^{-1}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^1\}$
 $C_3: \{1\|3_{001}^2\}$
 $C_4: \{2_{001}\| - 1\}$
 $C_5: \{2_{001}\| - 3_{001}^1\}$
 $C_6: \{2_{001}\| - 3_{001}^2\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3_{001}^1\}$
 $C_9: \{^d1\|3_{001}^2\}$
 $C_{10}: \{^d2_{001}\| - 1\}$
 $C_{11}: \{^d2_{001}\| - 3_{001}^1\}$
 $C_{12}: \{^d2_{001}\| - 3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3GM4	2	-1	-1	-2	1	1	2	-1	-1	-2	1	1
GM5GM6	2	-1	-1	2	-1	-1	2	-1	-1	2	-1	-1
GM7GM8	2	2	2	0	0	0	-2	-2	-2	0	0	0
GM9GM10	2	-1	-1	0	$-\sqrt{3}$	$\sqrt{3}$	-2	1	1	0	$\sqrt{3}$	$-\sqrt{3}$
GM11GM12	2	-1	-1	0	$\sqrt{3}$	$-\sqrt{3}$	-2	1	1	0	$-\sqrt{3}$	$\sqrt{3}$

$-16/2_{001}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^1\}$
 $C_3: \{1\|3_{001}^2\}$
 $C_4: \{2_{001}\| -6_{001}^1\}$
 $C_5: \{2_{001}\| -6_{001}^5\}$
 $C_6: \{2_{001}\|m_{001}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3_{001}^1\}$
 $C_9: \{^d1\|3_{001}^2\}$
 $C_{10}: \{^d2_{001}\| -6_{001}^1\}$
 $C_{11}: \{^d2_{001}\| -6_{001}^5\}$
 $C_{12}: \{^d2_{001}\|m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3GM4	2	-1	-1	1	1	-2	2	-1	-1	1	1	-2
GM5GM6	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1	2
GM7GM8	2	2	2	0	0	0	-2	-2	-2	0	0	0
GM9GM10	2	-1	-1	$\sqrt{3}$	$-\sqrt{3}$	0	-2	1	1	$-\sqrt{3}$	$\sqrt{3}$	0
GM11GM12	2	-1	-1	$-\sqrt{3}$	$\sqrt{3}$	0	-2	1	1	$\sqrt{3}$	$-\sqrt{3}$	0

$2_{001}6/m_{100}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^1\}$
 $C_3: \{1\|3_{001}^2\}$
 $C_4: \{2_{001}\|2_{001}\}$
 $C_5: \{2_{001}\|6_{001}^1\}$
 $C_6: \{2_{001}\|6_{001}^5\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3_{001}^1\}$
 $C_9: \{^d1\|3_{001}^2\}$
 $C_{10}: \{^d2_{001}\|2_{001}\}$
 $C_{11}: \{^d2_{001}\|6_{001}^1\}$
 $C_{12}: \{^d2_{001}\|6_{001}^5\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3GM4	2	-1	-1	-2	1	1	2	-1	-1	-2	1	1
GM5GM6	2	-1	-1	2	-1	-1	2	-1	-1	2	-1	-1
$\overline{\text{GM7}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM8}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM9GM10}}$	2	-1	-1	-2i	i	i	-2	1	1	2i	-i	-i
$\overline{\text{GM11GM12}}$	2	-1	-1	2i	-i	-i	-2	1	1	-2i	i	i

$m_{010}6/2_{001}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^1\}$
 $C_3: \{1\|3_{001}^2\}$
 $C_4: \{2_{001}\| -6_{001}^1\}$
 $C_5: \{2_{001}\| -6_{001}^5\}$
 $C_6: \{2_{001}\|m_{001}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3_{001}^1\}$
 $C_9: \{^d1\|3_{001}^2\}$
 $C_{10}: \{^d2_{001}\| -6_{001}^1\}$
 $C_{11}: \{^d2_{001}\| -6_{001}^5\}$
 $C_{12}: \{^d2_{001}\|m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3GM4	2	-1	-1	1	1	-2	2	-1	-1	1	1	-2
GM5GM6	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1	2
GM7	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
GM8	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
GM9GM10	2	-1	-1	i	i	-2i	-2	1	1	-i	-i	2i
GM11GM12	2	-1	-1	-i	-i	2i	-2	1	1	i	i	-2i

$m_{100}6/m_{010}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{2_{001}||-1\}$
 $C_5: \{2_{001}||-3_{001}^1\}$
 $C_6: \{2_{001}||-3_{001}^2\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^1\}$
 $C_9: \{^d1||3_{001}^2\}$
 $C_{10}: \{^d2_{001}||-1\}$
 $C_{11}: \{^d2_{001}||-3_{001}^1\}$
 $C_{12}: \{^d2_{001}||-3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3GM4	2	-1	-1	-2	1	1	2	-1	-1	-2	1	1
GM5GM6	2	-1	-1	2	-1	-1	2	-1	-1	2	-1	-1
$\overline{GM7}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{GM8}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{GM9GM10}$	2	-1	-1	-2i	i	i	-2	1	1	2i	-i	-i
$\overline{GM11GM12}$	2	-1	-1	2i	-i	-i	-2	1	1	-2i	i	i

$-16/-1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||-3_{001}^1\}$
 $C_6: \{1||-3_{001}^2\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^1\}$
 $C_9: \{^d1||3_{001}^2\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d1||-3_{001}^1\}$
 $C_{12}: \{^d1||-3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3GM4	2	-1	-1	-2	1	1	2	-1	-1	-2	1	1
GM5GM6	2	-1	-1	2	-1	-1	2	-1	-1	2	-1	-1
GM7GM7	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2
GM8GM8	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
GM9GM10	2	-1	-1	-2	1	1	-2	1	1	2	-1	-1
GM11GM12	2	-1	-1	2	-1	-1	-2	1	1	-2	1	1

$2_{001}6/2_{001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||-3_{001}^1\}$
 $C_6: \{1||-3_{001}^2\}$
 $C_7: \{2_{001}||6_{001}^1\}$
 $C_8: \{2_{001}||6_{001}^5\}$
 $C_9: \{2_{001}||m_{001}\}$
 $C_{10}: \{2_{001}||-6_{001}^1\}$
 $C_{11}: \{2_{001}||-6_{001}^5\}$
 $C_{12}: \{2_{001}||2_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||3_{001}^1\}$
 $C_{15}: \{^d1||3_{001}^2\}$
 $C_{16}: \{^d1||-1\}$
 $C_{17}: \{^d1||-3_{001}^1\}$
 $C_{18}: \{^d1||-3_{001}^2\}$
 $C_{19}: \{^d2_{001}||6_{001}^1\}$
 $C_{20}: \{^d2_{001}||6_{001}^5\}$
 $C_{21}: \{^d2_{001}||m_{001}\}$
 $C_{22}: \{^d2_{001}||-6_{001}^1\}$
 $C_{23}: \{^d2_{001}||-6_{001}^5\}$
 $C_{24}: \{^d2_{001}||2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	-1	-1	1	1	1	-1	1	1	1	-1	-1	-1	-1	-1	1	1	1	-1
GM3	1	1	1	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM5	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	ω^*	ω	1	$-\omega^*$	$-\omega$	-1	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	ω^*	ω	1	$-\omega^*$	$-\omega$	-1
GM6	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	ω	ω^*	1	$-\omega$	$-\omega^*$	-1	1	$-\omega$	$-\omega^*$	-1	ω^*	ω	ω	ω^*	1	$-\omega$	$-\omega^*$	-1
GM7	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	$-\omega^*$	$-\omega$	-1	ω^*	ω	1	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	$-\omega^*$	$-\omega$	-1	ω^*	ω	1
GM8	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	$-\omega$	$-\omega^*$	-1	ω	ω^*	1	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	$-\omega$	$-\omega^*$	-1	ω	ω^*	1
GM9	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	ω^*	ω	-1	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	ω^*	ω	-1
GM10	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	ω	ω^*	-1	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	ω	ω^*	-1
GM11	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1
GM12	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1
GM13	1	1	1	-1	-1	-1	-i	-i	i	i	i	-i	-1	-1	-1	1	1	1	i	i	-i	-i	-i	i
GM14	1	1	1	-1	-1	-1	i	i	-i	-i	-i	i	-1	-1	-1	1	1	1	-i	-i	i	i	i	-i
GM15	1	1	1	1	1	1	-i	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i	i	i
GM16	1	1	1	1	1	1	i	i	i	i	i	i	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i	-i
GM17	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	τ	$-\tau^*$	i	$-\tau$	τ^*	-i	-1	ω	ω^*	1	$-\omega$	$-\omega^*$	$-\tau$	τ^*	-i	τ	$-\tau^*$	i
GM18	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	$-\tau$	τ^*	-i	τ	$-\tau^*$	i	-1	ω	ω^*	1	$-\omega$	$-\omega^*$	τ	$-\tau^*$	i	$-\tau$	τ^*	-i
GM19	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	$-\tau^*$	τ	i	τ^*	$-\tau$	-i	-1	ω^*	ω	1	$-\omega^*$	$-\omega$	τ^*	$-\tau$	-i	$-\tau^*$	τ	i
GM20	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	τ^*	$-\tau$	-i	$-\tau^*$	τ	i	-1	ω^*	ω	1	$-\omega^*$	$-\omega$	$-\tau^*$	τ	i	τ^*	$-\tau$	-i
GM21	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	τ	$-\tau^*$	-i	τ	$-\tau^*$	-i	-1	ω	ω^*	-1	ω	ω^*	$-\tau$	τ^*	i	$-\tau$	τ^*	i
GM22	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	$-\tau$	τ^*	i	$-\tau$	τ^*	i	-1	ω	ω^*	-1	ω	ω^*	τ	$-\tau^*$	-i	τ	$-\tau^*$	-i
GM23	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	$-\tau^*$	τ	-i	$-\tau^*$	τ	-i	-1	ω^*	ω	-1	ω^*	ω	τ^*	$-\tau$	i	τ^*	$-\tau$	i
GM24	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	τ^*	$-\tau$	i	τ^*	$-\tau$	i	-1	ω^*	ω	-1	ω^*	ω	$-\tau^*$	τ	-i	$-\tau^*$	τ	-i

$m_{001}6/m_{001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||-3_{001}^1\}$
 $C_6: \{1||-3_{001}^2\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^1\}$
 $C_9: \{^d1||3_{001}^2\}$
 $C_{10}: \{^d1||-1\}$
 $C_{11}: \{^d1||-3_{001}^1\}$
 $C_{12}: \{^d1||-3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3GM4	2	-1	-1	-2	1	1	2	-1	-1	-2	1	1
GM5GM6	2	-1	-1	2	-1	-1	2	-1	-1	2	-1	-1
$\overline{GM7}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\overline{GM8}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\overline{GM9GM10}$	2	-1	-1	-2	1	1	-2	1	1	2	-1	-1
$\overline{GM11GM12}$	2	-1	-1	2	-1	-1	-2	1	1	-2	1	1

$1\bar{6}/^1m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{1\|3_{001}^1\}$
 $C_4: \{1\|3_{001}^2\}$
 $C_5: \{1\|6_{001}^1\}$
 $C_6: \{1\|6_{001}^5\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|2_{001}\}$
 $C_9: \{^d1\|3_{001}^1\}$
 $C_{10}: \{^d1\|3_{001}^2\}$
 $C_{11}: \{^d1\|6_{001}^1\}$
 $C_{12}: \{^d1\|6_{001}^5\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3GM4	2	-2	-1	-1	1	1	2	-2	-1	-1	1	1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
GM7GM7	2	-2	2	2	-2	-2	-2	2	-2	-2	2	2
GM8GM8	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
GM9GM10	2	-2	-1	-1	1	1	-2	2	1	1	-1	-1
GM11GM12	2	2	-1	-1	-1	-1	-2	-2	1	1	1	1

$16/2_{001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||3_{001}^1\}$
 $C_4: \{1||3_{001}^2\}$
 $C_5: \{1||6_{001}^1\}$
 $C_6: \{1||6_{001}^5\}$
 $C_7: \{2_{001}||-1\}$
 $C_8: \{2_{001}||-3_{001}^1\}$
 $C_9: \{2_{001}||-3_{001}^2\}$
 $C_{10}: \{2_{001}||-6_{001}^1\}$
 $C_{11}: \{2_{001}||-6_{001}^5\}$
 $C_{12}: \{2_{001}||m_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||2_{001}\}$
 $C_{15}: \{^d1||3_{001}^1\}$
 $C_{16}: \{^d1||3_{001}^2\}$
 $C_{17}: \{^d1||6_{001}^1\}$
 $C_{18}: \{^d1||6_{001}^5\}$
 $C_{19}: \{^d2_{001}||-1\}$
 $C_{20}: \{^d2_{001}||-3_{001}^1\}$
 $C_{21}: \{^d2_{001}||-3_{001}^2\}$
 $C_{22}: \{^d2_{001}||-6_{001}^1\}$
 $C_{23}: \{^d2_{001}||-6_{001}^5\}$
 $C_{24}: \{^d2_{001}||m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	-1	-1	-1	1	1	1	1	-1	1	1	-1	-1	-1	-1	-1	1	1	1
GM3	1	-1	1	1	-1	-1	1	1	1	-1	-1	-1	1	-1	1	1	-1	-1	1	1	1	-1	-1	-1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM5	1	-1	- ω	- ω^*	ω^*	ω	-1	ω	ω^*	- ω^*	- ω	1	1	-1	- ω	- ω^*	ω^*	ω	-1	ω	ω^*	- ω^*	- ω	1
GM6	1	-1	- ω^*	- ω	ω	ω^*	-1	ω^*	ω	- ω	- ω^*	1	1	-1	- ω^*	- ω	ω	ω^*	-1	ω^*	ω	- ω	- ω^*	1
GM7	1	-1	- ω	- ω^*	ω^*	ω	1	- ω	- ω^*	ω^*	ω	-1	1	-1	- ω	- ω^*	ω^*	ω	1	- ω	- ω^*	ω^*	ω	-1
GM8	1	-1	- ω^*	- ω	ω	ω^*	1	- ω^*	- ω	ω	ω^*	-1	1	-1	- ω^*	- ω	ω	ω^*	1	- ω^*	- ω	ω	ω^*	-1
GM9	1	1	- ω	- ω^*	- ω^*	- ω	-1	ω	ω^*	ω^*	ω	-1	1	1	- ω	- ω^*	- ω^*	- ω	-1	ω	ω^*	ω^*	ω	-1
GM10	1	1	- ω^*	- ω	- ω	- ω^*	-1	ω^*	ω	ω	ω^*	-1	1	1	- ω^*	- ω	- ω	- ω^*	-1	ω^*	ω	ω	ω^*	-1
GM11	1	1	- ω	- ω^*	- ω^*	- ω	1	- ω	- ω^*	- ω^*	- ω	1	1	1	- ω	- ω^*	- ω^*	- ω	1	- ω	- ω^*	- ω^*	- ω	1
GM12	1	1	- ω^*	- ω	- ω	- ω^*	1	- ω^*	- ω	- ω	- ω^*	1	1	1	- ω^*	- ω	- ω	- ω^*	1	- ω^*	- ω	- ω	- ω^*	1
GM13	1	-1	1	1	-1	-1	-i	-i	-i	i	i	i	-1	1	-1	-1	1	1	i	i	i	-i	-i	-i
GM14	1	-1	1	1	-1	-1	i	i	i	-i	-i	-i	-1	1	-1	-1	1	1	-i	-i	-i	i	i	i
GM15	1	-1	- ω	- ω^*	ω^*	ω	-i	- τ^*	τ	- τ	τ^*	i	-1	1	ω	ω^*	- ω^*	- ω	i	τ^*	- τ	τ	- τ^*	-i
GM16	1	-1	- ω	- ω^*	ω^*	ω	i	τ^*	- τ	- τ	- τ^*	-i	-1	1	ω	ω^*	- ω^*	- ω	-i	- τ^*	τ	- τ	τ^*	i
GM17	1	-1	- ω^*	- ω	ω	ω^*	-i	τ	- τ^*	τ^*	- τ	i	-1	1	ω^*	ω	- ω	- ω^*	i	- τ	τ^*	- τ^*	τ	-i
GM18	1	-1	- ω^*	- ω	ω	ω^*	i	- τ	τ^*	- τ^*	τ	-i	-1	1	ω^*	ω	- ω	- ω^*	-i	τ	- τ^*	τ^*	- τ	i
GM19	1	1	1	1	1	1	-i	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i	i	i
GM20	1	1	1	1	1	1	i	i	i	i	i	i	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i	-i
GM21	1	1	- ω	- ω^*	- ω^*	- ω	-i	- τ^*	τ	τ	- τ^*	-i	-1	-1	ω	ω^*	ω^*	ω	i	τ^*	- τ	- τ	τ^*	i
GM22	1	1	- ω	- ω^*	- ω^*	- ω	i	τ^*	- τ	- τ	τ^*	i	-1	-1	ω	ω^*	ω^*	ω	-i	- τ^*	τ	τ	- τ^*	-i
GM23	1	1	- ω^*	- ω	- ω	- ω^*	-i	τ	- τ^*	- τ^*	τ	-i	-1	-1	ω^*	ω	ω	ω^*	i	- τ	τ^*	τ^*	- τ	i
GM24	1	1	- ω^*	- ω	- ω	- ω^*	i	- τ	τ^*	τ^*	- τ	i	-1	-1	ω^*	ω	ω	ω^*	-i	τ	- τ^*	- τ^*	τ	-i

$1\overline{6}/m001m$

Classes:

- $C_1: \{1\parallel 1\}$
 $C_2: \{1\parallel 2_{001}\}$
 $C_3: \{1\parallel 3_{001}^1\}$
 $C_4: \{1\parallel 3_{001}^2\}$
 $C_5: \{1\parallel 6_{001}^1\}$
 $C_6: \{1\parallel 6_{001}^5\}$
 $C_7: \{^d1\parallel 1\}$
 $C_8: \{^d1\parallel 2_{001}\}$
 $C_9: \{^d1\parallel 3_{001}^1\}$
 $C_{10}: \{^d1\parallel 3_{001}^2\}$
 $C_{11}: \{^d1\parallel 6_{001}^1\}$
 $C_{12}: \{^d1\parallel 6_{001}^5\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3GM4	2	-2	-1	-1	1	1	2	-2	-1	-1	1	1
GM5GM6	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1
GM7	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM9GM10	2	-2	-1	-1	1	1	-2	2	1	1	-1	-1
GM11GM12	2	2	-1	-1	-1	-1	-2	-2	1	1	1	1

$-16/1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^2\}$
 $C_3: \{1||-6_{001}^5\}$
 $C_4: \{1||-6_{001}^1\}$
 $C_5: \{1||m_{001}\}$
 $C_6: \{1||3_{001}^1\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^2\}$
 $C_9: \{^d1||-6_{001}^5\}$
 $C_{10}: \{^d1||-6_{001}^1\}$
 $C_{11}: \{^d1||m_{001}\}$
 $C_{12}: \{^d1||3_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3GM4	2	-1	1	1	-2	-1	2	-1	1	1	-2	-1
GM5GM6	2	-1	-1	-1	2	-1	2	-1	-1	-1	2	-1
GM7GM7	2	2	-2	-2	-2	2	-2	-2	2	2	2	-2
GM8GM8	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
GM9GM10	2	-1	1	1	-2	-1	-2	1	-1	-1	2	1
GM11GM12	2	-1	-1	-1	2	-1	-2	1	1	1	-2	1

$2_{001}6/1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^2\}$
 $C_3: \{1||-6_{001}^5\}$
 $C_4: \{1||-6_{001}^1\}$
 $C_5: \{1||m_{001}\}$
 $C_6: \{1||3_{001}^1\}$
 $C_7: \{2_{001}||6_{001}^5\}$
 $C_8: \{2_{001}||6_{001}^1\}$
 $C_9: \{2_{001}||2_{001}\}$
 $C_{10}: \{2_{001}||-3_{001}^1\}$
 $C_{11}: \{2_{001}||-1\}$
 $C_{12}: \{2_{001}||-3_{001}^2\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||3_{001}^2\}$
 $C_{15}: \{^d1||-6_{001}^5\}$
 $C_{16}: \{^d1||-6_{001}^1\}$
 $C_{17}: \{^d1||m_{001}\}$
 $C_{18}: \{^d1||3_{001}^1\}$
 $C_{19}: \{^d2_{001}||6_{001}^5\}$
 $C_{20}: \{^d2_{001}||6_{001}^1\}$
 $C_{21}: \{^d2_{001}||2_{001}\}$
 $C_{22}: \{^d2_{001}||-3_{001}^1\}$
 $C_{23}: \{^d2_{001}||-1\}$
 $C_{24}: \{^d2_{001}||-3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	-1	-1	-1	1	1	1
GM3	1	1	-1	-1	-1	1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	1	-1	-1	-1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM5	1	$-\omega$	ω^*	ω	-1	$-\omega^*$	ω^*	ω	-1	$-\omega^*$	1	$-\omega$	1	$-\omega$	ω^*	ω	-1	$-\omega^*$	ω^*	ω	-1	$-\omega^*$	1	$-\omega$
GM6	1	$-\omega^*$	ω	ω^*	-1	$-\omega$	ω	ω^*	-1	$-\omega$	1	$-\omega^*$	1	$-\omega^*$	ω	ω^*	-1	$-\omega$	ω	ω^*	-1	$-\omega$	1	$-\omega^*$
GM7	1	$-\omega$	ω^*	ω	-1	$-\omega^*$	$-\omega^*$	$-\omega$	1	ω^*	-1	ω	1	$-\omega$	ω^*	ω	-1	$-\omega^*$	$-\omega^*$	$-\omega$	1	ω^*	-1	ω
GM8	1	$-\omega^*$	ω	ω^*	-1	$-\omega$	$-\omega$	$-\omega^*$	1	ω	-1	ω^*	1	$-\omega^*$	ω	ω^*	-1	$-\omega$	$-\omega$	$-\omega^*$	1	ω	-1	ω^*
GM9	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$	ω^*	ω	-1	ω^*	-1	ω	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$	ω^*	ω	-1	ω^*	-1	ω
GM10	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$	ω	ω^*	-1	ω	-1	ω^*	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$	ω	ω^*	-1	ω	-1	ω^*
GM11	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega^*$	$-\omega$	1	$-\omega^*$	1	$-\omega$	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega^*$	$-\omega$	1	$-\omega^*$	1	$-\omega$
GM12	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega$	$-\omega^*$	1	$-\omega$	1	$-\omega^*$	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega$	$-\omega^*$	1	$-\omega$	1	$-\omega^*$
GM13	1	1	-1	-1	-1	1	-i	-i	-i	i	i	i	-1	-1	1	1	1	-1	i	i	i	-i	-i	-i
GM14	1	1	-1	-1	-1	1	i	i	i	-i	-i	-i	-1	-1	1	1	1	-1	-i	-i	-i	i	i	i
GM15	1	1	1	1	1	1	-i	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i	i	i
GM16	1	1	1	1	1	1	i	i	i	i	i	i	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i	-i
GM17	1	$-\omega$	ω^*	ω	-1	$-\omega^*$	τ	$-\tau^*$	-i	$-\tau$	i	τ^*	-1	ω	$-\omega^*$	$-\omega$	1	ω^*	$-\tau$	τ^*	i	τ	-i	$-\tau^*$
GM18	1	$-\omega$	ω^*	ω	-1	$-\omega^*$	$-\tau$	τ^*	i	τ	-i	$-\tau^*$	-1	ω	$-\omega^*$	$-\omega$	1	ω^*	τ	$-\tau^*$	-i	$-\tau$	i	τ^*
GM19	1	$-\omega^*$	ω	ω^*	-1	$-\omega$	$-\tau^*$	τ	-i	τ^*	i	$-\tau$	-1	ω^*	$-\omega$	$-\omega^*$	1	ω	τ^*	$-\tau$	i	$-\tau^*$	-i	τ
GM20	1	$-\omega^*$	ω	ω^*	-1	$-\omega$	τ^*	$-\tau$	i	$-\tau^*$	-i	τ	-1	ω^*	$-\omega$	$-\omega^*$	1	ω	$-\tau^*$	τ	-i	τ^*	i	$-\tau$
GM21	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$	τ	$-\tau^*$	-i	τ	-i	$-\tau^*$	-1	ω	ω^*	ω	-1	ω^*	$-\tau$	τ^*	i	$-\tau$	i	τ^*
GM22	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\tau$	τ^*	i	$-\tau$	i	τ^*	-1	ω	ω^*	ω	-1	ω^*	τ	$-\tau^*$	-i	τ	-i	$-\tau^*$
GM23	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$	$-\tau^*$	τ	-i	$-\tau^*$	-i	τ	-1	ω^*	ω	ω^*	-1	ω	τ^*	$-\tau$	i	τ^*	i	$-\tau$
GM24	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$	τ^*	$-\tau$	i	τ^*	i	$-\tau$	-1	ω^*	ω	ω^*	-1	ω	$-\tau^*$	τ	-i	$-\tau^*$	-i	τ

$m_{001}6/{}^1m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^2\}$
 $C_3: \{1\| - 6_{001}^5\}$
 $C_4: \{1\| - 6_{001}^1\}$
 $C_5: \{1\|m_{001}\}$
 $C_6: \{1\|3_{001}^1\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3_{001}^2\}$
 $C_9: \{^d1\| - 6_{001}^5\}$
 $C_{10}: \{^d1\| - 6_{001}^1\}$
 $C_{11}: \{^d1\|m_{001}\}$
 $C_{12}: \{^d1\|3_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3GM4	2	-1	1	1	-2	-1	2	-1	1	1	-2	-1
GM5GM6	2	-1	-1	-1	2	-1	2	-1	-1	-1	2	-1
GM7	1	1	-1	-1	-1	1	-1	-1	1	1	1	-1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM9GM10	2	-1	1	1	-2	-1	-2	1	-1	-1	2	1
GM11GM12	2	-1	-1	-1	2	-1	-2	1	1	1	-2	1

$16/1\text{m}$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{1||6_{001}^1\}$
 $C_5: \{1||6_{001}^5\}$
 $C_6: \{1||-1\}$
 $C_7: \{1||\mathbf{m}_{001}\}$
 $C_8: \{1||-3_{001}^1\}$
 $C_9: \{1||-3_{001}^2\}$
 $C_{10}: \{1||-6_{001}^1\}$
 $C_{11}: \{1||-6_{001}^5\}$
 $C_{12}: \{1||2_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||3_{001}^1\}$
 $C_{15}: \{^d1||3_{001}^2\}$
 $C_{16}: \{^d1||6_{001}^1\}$
 $C_{17}: \{^d1||6_{001}^5\}$
 $C_{18}: \{^d1||-1\}$
 $C_{19}: \{^d1||\mathbf{m}_{001}\}$
 $C_{20}: \{^d1||-3_{001}^1\}$
 $C_{21}: \{^d1||-3_{001}^2\}$
 $C_{22}: \{^d1||-6_{001}^1\}$
 $C_{23}: \{^d1||-6_{001}^5\}$
 $C_{24}: \{^d1||2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	-1	-1	1	1	-1	1	1	1	-1	-1	-1	1	-1	-1	1	1	-1
GM3	1	1	1	-1	-1	1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	1	-1	1	1	-1	-1	-1
GM4	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
GM5	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	ω	ω^*	$-\omega^*$	$-\omega$	-1	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	ω	ω^*	$-\omega^*$	$-\omega$	-1
GM6	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	ω^*	ω	$-\omega$	$-\omega^*$	-1	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	ω^*	ω	$-\omega$	$-\omega^*$	-1
GM7	1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	-1
GM8	1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	-1
GM9	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	-1	-1	ω	ω^*	ω^*	ω	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	-1	-1	ω	ω^*	ω^*	ω	1
GM10	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	-1	-1	ω^*	ω	ω	ω^*	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	-1	-1	ω^*	ω	ω	ω^*	1
GM11	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1
GM12	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1
GM13	1	1	1	-1	-1	-1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	-1	1	1	-1	-1	1
GM14	1	1	1	-1	-1	1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	1	-1	-1	1	1	1
GM15	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1
GM16	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
GM17	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	ω	ω^*	$-\omega^*$	$-\omega$	-1	-1	ω	ω^*	$-\omega^*$	$-\omega$	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1
GM18	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	ω^*	ω	$-\omega$	$-\omega^*$	-1	-1	ω^*	ω	$-\omega$	$-\omega^*$	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1
GM19	1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	-1	-1	ω	ω^*	$-\omega^*$	$-\omega$	-1	1	ω	ω^*	$-\omega^*$	$-\omega$	1
GM20	1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	-1	-1	ω^*	ω	$-\omega$	$-\omega^*$	-1	1	ω^*	ω	$-\omega$	$-\omega^*$	1
GM21	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	-1	-1	ω	ω^*	ω^*	ω	1	-1	ω	ω^*	ω^*	ω	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	-1
GM22	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	-1	-1	ω^*	ω	ω	ω^*	1	-1	ω^*	ω	ω	ω^*	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	-1
GM23	1	$-\omega$	$-\omega^*$	$-\omega$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	-1	ω^*	ω	ω^*	ω	-1	-1	ω	ω^*	ω^*	ω	-1
GM24	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	-1	ω^*	ω	ω	ω^*	-1	-1	ω^*	ω	ω	ω^*	-1

$$6_{001}^1 6_{\frac{2}{3}\pi}^2 2_{\frac{5}{6}\pi}^2 2$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{2_{001}||2_{001}\}, \{^d2_{001}||2_{001}\}$$

$$C_3: \{2_{010}||2_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{6}\pi}||2_{010}\}, \{2_{\frac{5}{6}\pi}||2_{\frac{1}{6}\pi}\}, \{^d2_{010}||2_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}||2_{010}\}, \{^d2_{\frac{5}{6}\pi}||2_{\frac{1}{6}\pi}\}$$

$$C_4: \{2_{100}||2_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi}||2_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{100}\}, \{^d2_{100}||2_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{3}\pi}||2_{\frac{2}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}||2_{100}\}$$

$$C_5: \{3_{001}^1||3_{001}^1\}, \{^d3_{001}^2||3_{001}^2\}$$

$$C_6: \{3_{001}^2||3_{001}^2\}, \{^d3_{001}^1||3_{001}^1\}$$

$$C_7: \{6_{001}^1||6_{001}^1\}, \{^d6_{001}^5||6_{001}^5\}$$

$$C_8: \{6_{001}^5||6_{001}^5\}, \{^d6_{001}^1||6_{001}^1\}$$

$$C_9: \{^d1||1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	1	1	1	1
GM5	2	-2	0	0	-1	-1	1	1	2
GM6	2	2	0	0	-1	-1	-1	-1	2
$\overline{\text{GM7}}$	2	0	0	0	-2	2	0	0	-2
$\overline{\text{GM8}}$	2	0	0	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2
$\overline{\text{GM9}}$	2	0	0	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2

$$6_{001}^1 6_{\frac{1}{6}\pi 2}^{m_1} 6_{\frac{1}{3}\pi 2}^{m_1}$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{2_{001}\|2_{001}\}$
 $C_3: \{3_{001}^1\|3_{001}^1\}$
 $C_4: \{3_{001}^2\|3_{001}^2\}$
 $C_5: \{6_{001}^1\|6_{001}^1\}$
 $C_6: \{6_{001}^5\|6_{001}^5\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d2_{001}\|2_{001}\}$
 $C_9: \{^d3_{001}^1\|3_{001}^1\}$
 $C_{10}: \{^d3_{001}^2\|3_{001}^2\}$
 $C_{11}: \{^d6_{001}^1\|6_{001}^1\}$
 $C_{12}: \{^d6_{001}^5\|6_{001}^5\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
GM7	1	-i	-1	1	i	i	-1	i	1	-1	-i	-i
GM8	1	i	-1	1	-i	-i	-1	-i	1	-1	i	i
GM9	1	-i	ω^*	$-\omega$	τ^*	$-\tau$	-1	i	$-\omega^*$	ω	$-\tau^*$	τ
GM10	1	-i	ω	$-\omega^*$	$-\tau$	τ^*	-1	i	$-\omega$	ω^*	τ	$-\tau^*$
GM11	1	i	ω^*	$-\omega$	$-\tau^*$	τ	-1	-i	$-\omega^*$	ω	τ^*	$-\tau$
GM12	1	i	ω	$-\omega^*$	τ	$-\tau^*$	-1	-i	$-\omega$	ω^*	$-\tau$	τ^*

$$-3_{001}^2 6^{\frac{2}{6}\pi} 2^{m_{010} 2}$$

Classes:

C₁: {1||1}

C₂: {2₀₁₀||2 _{$\frac{2}{3}\pi$} }, {^d2 _{$\frac{1}{6}\pi$} ||2 _{$\frac{1}{3}\pi$} }, {^d2 _{$\frac{5}{6}\pi$} ||2₁₀₀}

C₃: {2 _{$\frac{1}{6}\pi$} ||2 _{$\frac{1}{3}\pi$} }, {2 _{$\frac{5}{6}\pi$} ||2₁₀₀}, {^d2₀₁₀||2 _{$\frac{2}{3}\pi$} }

C₄: {3₀₀₁¹||3₀₀₁¹}, {^d3₀₀₁²||3₀₀₁²}

C₅: {3₀₀₁²||3₀₀₁²}, {^d3₀₀₁¹||3₀₀₁¹}

C₆: {^d1||1}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
<u>GM4</u>	2	0	0	1	-1	-2
<u>GM5GM6</u>	2	0	0	-2	2	-2

$$-6_{001}^5 6^m \frac{1}{6} \pi 2^2_{100} 2$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{2_{100}||2_{\frac{1}{6}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{010}\}, \{^d2_{\frac{1}{3}\pi}||2_{\frac{5}{6}\pi}\}$$

$$C_3: \{2_{\frac{1}{3}\pi}||2_{\frac{5}{6}\pi}\}, \{^d2_{100}||2_{\frac{1}{6}\pi}\}, \{^d2_{\frac{2}{3}\pi}||2_{010}\}$$

$$C_4: \{3_{001}^1||3_{001}^2\}, \{^d3_{001}^2||3_{001}^1\}$$

$$C_5: \{3_{001}^2||3_{001}^1\}, \{^d3_{001}^1||3_{001}^2\}$$

$$C_6: \{^d1||1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
GM4	1	-i	i	-1	1	-1
GM5	1	i	-i	-1	1	-1
GM6	2	0	0	1	-1	-2

$$3_{001}^2 6_{\frac{2}{3}\pi}^2 2_{\frac{1}{3}\pi}^2 2$$

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}

C₃: {2₁₀₀||2 _{$\frac{1}{3}\pi$} }, {2 _{$\frac{2}{3}\pi$} ||2₁₀₀}, {^d2 _{$\frac{1}{3}\pi$} ||2 _{$\frac{2}{3}\pi$} }

C₄: {2₁₀₀||2 _{$\frac{5}{6}\pi$} }, {2 _{$\frac{2}{3}\pi$} ||2₀₁₀}, {^d2 _{$\frac{1}{3}\pi$} ||2 _{$\frac{1}{6}\pi$} }

C₅: {2 _{$\frac{1}{3}\pi$} ||2 _{$\frac{1}{6}\pi$} }, {^d2₁₀₀||2 _{$\frac{5}{6}\pi$} }, {^d2 _{$\frac{2}{3}\pi$} ||2₀₁₀}

C₆: {2 _{$\frac{1}{3}\pi$} ||2 _{$\frac{2}{3}\pi$} }, {^d2₁₀₀||2 _{$\frac{1}{3}\pi$} }, {^d2 _{$\frac{2}{3}\pi$} ||2₁₀₀}

C₇: {3₀₀₁¹||3₀₀₁¹}, {^d3₀₀₁²||3₀₀₁²}

C₈: {3₀₀₁¹||6₀₀₁⁵}, {^d3₀₀₁²||6₀₀₁¹}

C₉: {3₀₀₁²||3₀₀₁²}, {^d3₀₀₁¹||3₀₀₁¹}

C₁₀: {3₀₀₁²||6₀₀₁¹}, {^d3₀₀₁¹||6₀₀₁⁵}

C₁₁: {^d1||1}

C₁₂: {^d1||2₀₀₁}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	-2	0	0	0	0	-1	1	-1	1	2	-2
GM6	2	2	0	0	0	0	-1	-1	-1	-1	2	2
GM7	1	-1	-i	i	-i	i	-1	1	1	-1	-1	1
GM8	1	-1	i	-i	i	-i	-1	1	1	-1	-1	1
GM9	1	1	-i	-i	i	i	-1	-1	1	1	-1	-1
GM10	1	1	i	i	-i	-i	-1	-1	1	1	-1	-1
GM11	2	-2	0	0	0	0	1	-1	-1	1	-2	2
GM12	2	2	0	0	0	0	1	1	-1	-1	-2	-2

$$3_{001}^2 6_{\frac{1}{6}\pi}^m 2_{\frac{5}{6}\pi}^m$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{3_{001}^1\|3_{001}^1\}$
 $C_4: \{3_{001}^1\|6_{001}^5\}$
 $C_5: \{3_{001}^2\|3_{001}^2\}$
 $C_6: \{3_{001}^2\|6_{001}^1\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|2_{001}\}$
 $C_9: \{^d3_{001}^1\|3_{001}^1\}$
 $C_{10}: \{^d3_{001}^1\|6_{001}^5\}$
 $C_{11}: \{^d3_{001}^2\|3_{001}^2\}$
 $C_{12}: \{^d3_{001}^2\|6_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	$-\omega$	ω	$-\omega^*$	ω^*	1	-1	$-\omega$	ω	$-\omega^*$	ω^*
GM4	1	-1	$-\omega^*$	ω^*	$-\omega$	ω	1	-1	$-\omega^*$	ω^*	$-\omega$	ω
GM5	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM6	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
<u>GM7</u>	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
<u>GM8</u>	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
<u>GM9</u>	1	-1	ω^*	$-\omega^*$	$-\omega$	ω	-1	1	$-\omega^*$	ω^*	ω	$-\omega$
<u>GM10</u>	1	-1	ω	$-\omega$	$-\omega^*$	ω^*	-1	1	$-\omega$	ω	ω^*	$-\omega^*$
<u>GM11</u>	1	1	ω^*	ω^*	$-\omega$	$-\omega$	-1	-1	$-\omega^*$	$-\omega^*$	ω	ω
<u>GM12</u>	1	1	ω	ω	$-\omega^*$	$-\omega^*$	-1	-1	$-\omega$	$-\omega$	ω^*	ω^*

$2_{001}6^2_{010}2^2_{100}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$

$C_3: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$

$C_4: \{2_{001}\|6^1_{001}\}, \{^d2_{001}\|6^5_{001}\}$

$C_5: \{2_{001}\|6^5_{001}\}, \{^d2_{001}\|6^1_{001}\}$

$C_6: \{2_{010}\|2_{100}\}, \{2_{010}\|2_{\frac{1}{3}\pi}\}, \{2_{010}\|2_{\frac{2}{3}\pi}\}, \{^d2_{010}\|2_{100}\}, \{^d2_{010}\|2_{\frac{1}{3}\pi}\}, \{^d2_{010}\|2_{\frac{2}{3}\pi}\}$

$C_7: \{2_{100}\|2_{010}\}, \{2_{100}\|2_{\frac{1}{6}\pi}\}, \{2_{100}\|2_{\frac{5}{6}\pi}\}, \{^d2_{100}\|2_{010}\}, \{^d2_{100}\|2_{\frac{1}{6}\pi}\}, \{^d2_{100}\|2_{\frac{5}{6}\pi}\}$

$C_8: \{^d1\|1\}$

$C_9: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1
GM3	1	1	-1	-1	-1	1	-1	1	1
GM4	1	1	1	1	1	-1	-1	1	1
GM5	2	-1	-2	1	1	0	0	2	-1
GM6	2	-1	2	-1	-1	0	0	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8}}$	2	-1	0	$\sqrt{3}$	$-\sqrt{3}$	0	0	-2	1
$\overline{\text{GM9}}$	2	-1	0	$-\sqrt{3}$	$\sqrt{3}$	0	0	-2	1

-16²₀₀₁2^m₀₀₁2

Classes:

C₁: {1||1}

C₂: {1||3¹₀₀₁}, {1||3²₀₀₁}

C₃: {2₀₀₁||2₁₀₀}, {2₀₀₁||2 _{$\frac{1}{3}\pi$} }, {2₀₀₁||2 _{$\frac{2}{3}\pi$} }

C₄: {^d1||1}

C₅: {^d1||3¹₀₀₁}, {^d1||3²₀₀₁}

C₆: {^d2₀₀₁||2₁₀₀}, {^d2₀₀₁||2 _{$\frac{1}{3}\pi$} }, {^d2₀₀₁||2 _{$\frac{2}{3}\pi$} }

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	2	-1	0	-2	1	0
$\overline{\text{GM5GM6}}$	2	2	0	-2	-2	0

$2_{001}6^{-1}2^m_{001}2$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3^1_{001}\}$
 $C_3: \{1\|3^2_{001}\}$
 $C_4: \{2_{001}\|2_{001}\}$
 $C_5: \{2_{001}\|6^1_{001}\}$
 $C_6: \{2_{001}\|6^5_{001}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3^1_{001}\}$
 $C_9: \{^d1\|3^2_{001}\}$
 $C_{10}: \{^d2_{001}\|2_{001}\}$
 $C_{11}: \{^d2_{001}\|6^1_{001}\}$
 $C_{12}: \{^d2_{001}\|6^5_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	-1	ω^*	ω	1	$-\omega$	$-\omega^*$	-1	ω^*	ω
GM4	1	$-\omega^*$	$-\omega$	-1	ω	ω^*	1	$-\omega^*$	$-\omega$	-1	ω	ω^*
GM5	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$
GM6	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$
$\overline{\text{GM7GM8}}$	2	2	2	0	0	0	-2	-2	-2	0	0	0
$\overline{\text{GM9GM10}}$	2	-2ω	$-2\omega^*$	0	0	0	-2	2ω	$2\omega^*$	0	0	0
$\overline{\text{GM11GM12}}$	2	$-2\omega^*$	-2ω	0	0	0	-2	$2\omega^*$	2ω	0	0	0

$m_{001}6^{2_{001}}2^{-1}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_6: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4GM4}}$	4	-2	0	-4	2	0
$\overline{\text{GM5GM6}}$	2	2	0	-2	-2	0

$2_{001}6^m_{010}2^m_{100}2$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3^1_{001}\}$
 $C_3: \{1||3^2_{001}\}$
 $C_4: \{2_{001}||2_{001}\}$
 $C_5: \{2_{001}||6^1_{001}\}$
 $C_6: \{2_{001}||6^5_{001}\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3^1_{001}\}$
 $C_9: \{^d1||3^2_{001}\}$
 $C_{10}: \{^d2_{001}||2_{001}\}$
 $C_{11}: \{^d2_{001}||6^1_{001}\}$
 $C_{12}: \{^d2_{001}||6^5_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	-1	ω^*	ω	1	$-\omega$	$-\omega^*$	-1	ω^*	ω
GM4	1	$-\omega^*$	$-\omega$	-1	ω	ω^*	1	$-\omega^*$	$-\omega$	-1	ω	ω^*
GM5	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$
GM6	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$
$\overline{\text{GM7}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM8}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM9}}$	1	$-\omega$	$-\omega^*$	-i	τ	$-\tau^*$	-1	ω	ω^*	i	$-\tau$	τ^*
$\overline{\text{GM10}}$	1	$-\omega$	$-\omega^*$	i	$-\tau$	τ^*	-1	ω	ω^*	-i	τ	$-\tau^*$
$\overline{\text{GM11}}$	1	$-\omega^*$	$-\omega$	-i	$-\tau^*$	τ	-1	ω^*	ω	i	τ^*	$-\tau$
$\overline{\text{GM12}}$	1	$-\omega^*$	$-\omega$	i	τ^*	$-\tau$	-1	ω^*	ω	-i	$-\tau^*$	τ

$m_{100}6^2m_{001}2m_{010}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_6: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	1	1	-i	-1	-1	i
$\overline{\text{GM5}}$	1	1	i	-1	-1	-i
$\overline{\text{GM6}}$	2	-1	0	-2	1	0

-16⁻¹2¹2

Classes:

C₁: {1||1}

C₂: {1||2₀₁₀}, {1||2 _{$\frac{1}{6}\pi$} }, {1||2 _{$\frac{5}{6}\pi$} }

C₃: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₄: {^d1||1}

C₅: {^d1||2₀₁₀}, {^d1||2 _{$\frac{1}{6}\pi$} }, {^d1||2 _{$\frac{5}{6}\pi$} }

C₆: {^d1||3₀₀₁¹}, {^d1||3₀₀₁²}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	1
GM3	2	0	-1	2	0	-1
<u>GM4GM4</u>	2	-2	2	-2	2	-2
<u>GM5GM5</u>	2	2	2	-2	-2	-2
<u>GM6GM6</u>	4	0	-2	-4	0	2

$2_{001}6^2_{001}2^1_2$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{010}\}, \{1||2_{\frac{1}{6}\pi}\}, \{1||2_{\frac{5}{6}\pi}\}$

$C_3: \{1||3^1_{001}\}, \{1||3^2_{001}\}$

$C_4: \{2_{001}||2_{001}\}$

$C_5: \{2_{001}||2_{100}\}, \{2_{001}||2_{\frac{1}{3}\pi}\}, \{2_{001}||2_{\frac{2}{3}\pi}\}$

$C_6: \{2_{001}||6^1_{001}\}, \{2_{001}||6^5_{001}\}$

$C_7: \{^d1||1\}$

$C_8: \{^d1||2_{010}\}, \{^d1||2_{\frac{1}{6}\pi}\}, \{^d1||2_{\frac{5}{6}\pi}\}$

$C_9: \{^d1||3^1_{001}\}, \{^d1||3^2_{001}\}$

$C_{10}: \{^d2_{001}||2_{001}\}$

$C_{11}: \{^d2_{001}||2_{100}\}, \{^d2_{001}||2_{\frac{1}{3}\pi}\}, \{^d2_{001}||2_{\frac{2}{3}\pi}\}$

$C_{12}: \{^d2_{001}||6^1_{001}\}, \{^d2_{001}||6^5_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	1	-1	1	1	-1	1	1	-1	1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	0	-1	-2	0	1	2	0	-1	-2	0	1
GM6	2	0	-1	2	0	-1	2	0	-1	2	0	-1
GM7	1	-1	1	-i	i	-i	-1	1	-1	i	-i	i
GM8	1	-1	1	i	-i	i	-1	1	-1	-i	i	-i
GM9	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
GM10	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
GM11	2	0	-1	2i	0	-i	-2	0	1	-2i	0	i
GM12	2	0	-1	-2i	0	i	-2	0	1	2i	0	-i

$m_{001}6m_{001}2^12$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$

$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$

$C_6: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	1
GM3	2	0	-1	2	0	-1
$\overline{\text{GM4}}$	1	-1	1	-1	1	-1
$\overline{\text{GM5}}$	1	1	1	-1	-1	-1
$\overline{\text{GM6}}$	2	0	-1	-2	0	1

$16 \cdot 12 \cdot 12$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{1 \parallel 2_{001}\}$
 $C_3: \{1 \parallel 3_{001}^1\}$
 $C_4: \{1 \parallel 3_{001}^2\}$
 $C_5: \{1 \parallel 6_{001}^1\}$
 $C_6: \{1 \parallel 6_{001}^5\}$
 $C_7: \{^d 1 \parallel 1\}$
 $C_8: \{^d 1 \parallel 2_{001}\}$
 $C_9: \{^d 1 \parallel 3_{001}^1\}$
 $C_{10}: \{^d 1 \parallel 3_{001}^2\}$
 $C_{11}: \{^d 1 \parallel 6_{001}^1\}$
 $C_{12}: \{^d 1 \parallel 6_{001}^5\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
$\overline{\text{GM7GM7}}$	2	-2	2	2	-2	-2	-2	2	-2	-2	2	2
$\overline{\text{GM8GM8}}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
$\overline{\text{GM9GM9}}$	2	-2	-2ω	$-2\omega^*$	$2\omega^*$	2ω	-2	2	2ω	$2\omega^*$	$-2\omega^*$	-2ω
$\overline{\text{GM10GM10}}$	2	-2	$-2\omega^*$	-2ω	2ω	$2\omega^*$	-2	2	$2\omega^*$	2ω	-2ω	$-2\omega^*$
$\overline{\text{GM11GM11}}$	2	2	-2ω	$-2\omega^*$	$-2\omega^*$	-2ω	-2	-2	2ω	$2\omega^*$	$2\omega^*$	2ω
$\overline{\text{GM12GM12}}$	2	2	$-2\omega^*$	-2ω	-2ω	$-2\omega^*$	-2	-2	$2\omega^*$	2ω	2ω	$2\omega^*$

$16^{2001}2^{2001}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}$

$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_4: \{1\|6_{001}^1\}, \{1\|6_{001}^5\}$

$C_5: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$

$C_6: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$

$C_7: \{^d1\|1\}$

$C_8: \{^d1\|2_{001}\}$

$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_{10}: \{^d1\|6_{001}^1\}, \{^d1\|6_{001}^5\}$

$C_{11}: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$

$C_{12}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-2	-1	1	0	0	2	-2	-1	1	0	0
GM6	2	2	-1	-1	0	0	2	2	-1	-1	0	0
$\overline{\text{GM7}}$	1	-1	1	-1	-i	i	-1	1	-1	1	i	-i
$\overline{\text{GM8}}$	1	-1	1	-1	i	-i	-1	1	-1	1	-i	i
$\overline{\text{GM9}}$	1	1	1	1	-i	-i	-1	-1	-1	-1	i	i
$\overline{\text{GM10}}$	1	1	1	1	i	i	-1	-1	-1	-1	-i	-i
$\overline{\text{GM11}}$	2	-2	-1	1	0	0	-2	2	1	-1	0	0
$\overline{\text{GM12}}$	2	2	-1	-1	0	0	-2	-2	1	1	0	0

$16^{m001}2^{m001}2$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||3_{001}^1\}$
 $C_4: \{1||3_{001}^2\}$
 $C_5: \{1||6_{001}^1\}$
 $C_6: \{1||6_{001}^5\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||2_{001}\}$
 $C_9: \{^d1||3_{001}^1\}$
 $C_{10}: \{^d1||3_{001}^2\}$
 $C_{11}: \{^d1||6_{001}^1\}$
 $C_{12}: \{^d1||6_{001}^5\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
<u>GM7</u>	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1
<u>GM8</u>	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
<u>GM9</u>	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	ω	ω^*	$-\omega^*$	$-\omega$
<u>GM10</u>	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	ω^*	ω	$-\omega$	$-\omega^*$
<u>GM11</u>	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	-1	-1	ω	ω^*	ω^*	ω
<u>GM12</u>	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	-1	-1	ω^*	ω	ω	ω^*

$16^1 2^1 2$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}$

C_3 : $\{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$

C_4 : $\{1\|2_{100}\}, \{1\|2_{\frac{1}{3}\pi}\}, \{1\|2_{\frac{2}{3}\pi}\}$

C_5 : $\{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

C_6 : $\{1\|6_{001}^1\}, \{1\|6_{001}^5\}$

C_7 : $\{^d1\|1\}$

C_8 : $\{^d1\|2_{001}\}$

C_9 : $\{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$

C_{10} : $\{^d1\|2_{100}\}, \{^d1\|2_{\frac{1}{3}\pi}\}, \{^d1\|2_{\frac{2}{3}\pi}\}$

C_{11} : $\{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

C_{12} : $\{^d1\|6_{001}^1\}, \{^d1\|6_{001}^5\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	1	1	-1	-1	1	1
GM5	2	-2	0	0	-1	1	2	-2	0	0	-1	1
GM6	2	2	0	0	-1	-1	2	2	0	0	-1	-1
<u>GM7</u>	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
<u>GM8</u>	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1
<u>GM9</u>	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
<u>GM10</u>	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
<u>GM11</u>	2	-2	0	0	-1	1	-2	2	0	0	1	-1
<u>GM12</u>	2	2	0	0	-1	-1	-2	-2	0	0	1	1

$$6_{001}^1 6_{\frac{2}{3}\pi}^2 m_{\frac{5}{6}\pi}^2 m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|m_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{6}\pi}\|m_{010}\}, \{2_{\frac{5}{6}\pi}\|m_{\frac{1}{6}\pi}\}, \{^d2_{010}\|m_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}\|m_{010}\}, \{^d2_{\frac{5}{6}\pi}\|m_{\frac{1}{6}\pi}\}$$

$$C_4: \{2_{100}\|m_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi}\|m_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}\|m_{100}\}, \{^d2_{100}\|m_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{3}\pi}\|m_{\frac{2}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}\|m_{100}\}$$

$$C_5: \{3_{001}^1\|3_{001}^1\}, \{^d3_{001}^2\|3_{001}^2\}$$

$$C_6: \{3_{001}^2\|3_{001}^2\}, \{^d3_{001}^1\|3_{001}^1\}$$

$$C_7: \{6_{001}^1\|6_{001}^1\}, \{^d6_{001}^5\|6_{001}^5\}$$

$$C_8: \{6_{001}^5\|6_{001}^5\}, \{^d6_{001}^1\|6_{001}^1\}$$

$$C_9: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	1	1	1	1
GM5	2	-2	0	0	-1	-1	1	1	2
GM6	2	2	0	0	-1	-1	-1	-1	2
$\overline{\text{GM7}}$	2	0	0	0	-2	2	0	0	-2
$\overline{\text{GM8}}$	2	0	0	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2
$\overline{\text{GM9}}$	2	0	0	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2

$$6_{001}^1 6_{\frac{1}{6}\pi m}^m 6_{\frac{1}{3}\pi m}^m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{2_{001}||2_{001}\}$
 $C_3: \{3_{001}^1||3_{001}^1\}$
 $C_4: \{3_{001}^2||3_{001}^2\}$
 $C_5: \{6_{001}^1||6_{001}^1\}$
 $C_6: \{6_{001}^5||6_{001}^5\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d2_{001}||2_{001}\}$
 $C_9: \{^d3_{001}^1||3_{001}^1\}$
 $C_{10}: \{^d3_{001}^2||3_{001}^2\}$
 $C_{11}: \{^d6_{001}^1||6_{001}^1\}$
 $C_{12}: \{^d6_{001}^5||6_{001}^5\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
GM7	1	-i	-1	1	i	i	-1	i	1	-1	-i	-i
GM8	1	i	-1	1	-i	-i	-1	-i	1	-1	i	i
GM9	1	-i	ω^*	$-\omega$	τ^*	$-\tau$	-1	i	$-\omega^*$	ω	$-\tau^*$	τ
GM10	1	-i	ω	$-\omega^*$	$-\tau$	τ^*	-1	i	$-\omega$	ω^*	τ	$-\tau^*$
GM11	1	i	ω^*	$-\omega$	$-\tau^*$	τ	-1	-i	$-\omega^*$	ω	τ^*	$-\tau$
GM12	1	i	ω	$-\omega^*$	τ	$-\tau^*$	-1	-i	$-\omega$	ω^*	$-\tau$	τ^*

$$-3_{001}^2 6^{\frac{2}{6}\pi} m^{m_{010}} m$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{2_{010} \parallel m_{\frac{2}{3}\pi}\}, \{^d 2_{\frac{1}{6}\pi} \parallel m_{\frac{1}{3}\pi}\}, \{^d 2_{\frac{5}{6}\pi} \parallel m_{100}\}$$

$$C_3: \{2_{\frac{1}{6}\pi} \parallel m_{\frac{1}{3}\pi}\}, \{2_{\frac{5}{6}\pi} \parallel m_{100}\}, \{^d 2_{010} \parallel m_{\frac{2}{3}\pi}\}$$

$$C_4: \{3_{001}^1 \parallel 3_{001}^1\}, \{^d 3_{001}^2 \parallel 3_{001}^2\}$$

$$C_5: \{3_{001}^2 \parallel 3_{001}^2\}, \{^d 3_{001}^1 \parallel 3_{001}^1\}$$

$$C_6: \{^d 1 \parallel 1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
<u>GM4</u>	2	0	0	1	-1	-2
<u>GM5GM6</u>	2	0	0	-2	2	-2

$$-6_{001}^5 6^{\mathbf{m} \frac{1}{6} \pi} \mathbf{m}^2 100 \mathbf{m}$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{2_{100} \parallel \mathbf{m} \frac{1}{6} \pi\}, \{2_{\frac{2}{3}\pi} \parallel \mathbf{m}_{010}\}, \{\mathbf{d} 2_{\frac{1}{3}\pi} \parallel \mathbf{m} \frac{5}{6} \pi\}$$

$$C_3: \{2_{\frac{1}{3}\pi} \parallel \mathbf{m} \frac{5}{6} \pi\}, \{\mathbf{d} 2_{100} \parallel \mathbf{m} \frac{1}{6} \pi\}, \{\mathbf{d} 2_{\frac{2}{3}\pi} \parallel \mathbf{m}_{010}\}$$

$$C_4: \{3_{001}^1 \parallel 3_{001}^2\}, \{\mathbf{d} 3_{001}^2 \parallel 3_{001}^1\}$$

$$C_5: \{3_{001}^2 \parallel 3_{001}^1\}, \{\mathbf{d} 3_{001}^1 \parallel 3_{001}^2\}$$

$$C_6: \{\mathbf{d} 1 \parallel 1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
GM4	1	-i	i	-1	1	-1
GM5	1	i	-i	-1	1	-1
GM6	2	0	0	1	-1	-2

$$3_{001}^2 6_{\frac{2}{3}\pi}^2 m_{\frac{2}{3}\pi}^2 m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{2_{100}||m_{\frac{1}{3}\pi}\}, \{2_{\frac{2}{3}\pi}||m_{100}\}, \{^d2_{\frac{1}{3}\pi}||m_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{100}||m_{\frac{5}{6}\pi}\}, \{2_{\frac{2}{3}\pi}||m_{010}\}, \{^d2_{\frac{1}{3}\pi}||m_{\frac{1}{6}\pi}\}$$

$$C_5: \{2_{\frac{1}{3}\pi}||m_{\frac{1}{6}\pi}\}, \{^d2_{100}||m_{\frac{5}{6}\pi}\}, \{^d2_{\frac{2}{3}\pi}||m_{010}\}$$

$$C_6: \{2_{\frac{1}{3}\pi}||m_{\frac{2}{3}\pi}\}, \{^d2_{100}||m_{\frac{1}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}||m_{100}\}$$

$$C_7: \{3_{001}^1||3_{001}^1\}, \{^d3_{001}^2||3_{001}^2\}$$

$$C_8: \{3_{001}^1||6_{001}^5\}, \{^d3_{001}^2||6_{001}^1\}$$

$$C_9: \{3_{001}^2||3_{001}^2\}, \{^d3_{001}^1||3_{001}^1\}$$

$$C_{10}: \{3_{001}^2||6_{001}^1\}, \{^d3_{001}^1||6_{001}^5\}$$

$$C_{11}: \{^d1||1\}$$

$$C_{12}: \{^d1||2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	-2	0	0	0	0	-1	1	-1	1	2	-2
GM6	2	2	0	0	0	0	-1	-1	-1	-1	2	2
GM7	1	-1	-i	i	-i	i	-1	1	1	-1	-1	1
GM8	1	-1	i	-i	i	-i	-1	1	1	-1	-1	1
GM9	1	1	-i	-i	i	i	-1	-1	1	1	-1	-1
GM10	1	1	i	i	-i	-i	-1	-1	1	1	-1	-1
GM11	2	-2	0	0	0	0	1	-1	-1	1	-2	2
GM12	2	2	0	0	0	0	1	1	-1	-1	-2	-2

$$3_{001}^2 6_{\frac{1}{6}\pi m}^m 6_{\frac{5}{6}\pi m}^m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{3_{001}^1||3_{001}^1\}$
 $C_4: \{3_{001}^1||6_{001}^5\}$
 $C_5: \{3_{001}^2||3_{001}^2\}$
 $C_6: \{3_{001}^2||6_{001}^1\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||2_{001}\}$
 $C_9: \{^d3_{001}^1||3_{001}^1\}$
 $C_{10}: \{^d3_{001}^1||6_{001}^5\}$
 $C_{11}: \{^d3_{001}^2||3_{001}^2\}$
 $C_{12}: \{^d3_{001}^2||6_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	$-\omega$	ω	$-\omega^*$	ω^*	1	-1	$-\omega$	ω	$-\omega^*$	ω^*
GM4	1	-1	$-\omega^*$	ω^*	$-\omega$	ω	1	-1	$-\omega^*$	ω^*	$-\omega$	ω
GM5	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM6	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
<u>GM7</u>	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
<u>GM8</u>	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
<u>GM9</u>	1	-1	ω^*	$-\omega^*$	$-\omega$	ω	-1	1	$-\omega^*$	ω^*	ω	$-\omega$
<u>GM10</u>	1	-1	ω	$-\omega$	$-\omega^*$	ω^*	-1	1	$-\omega$	ω	ω^*	$-\omega^*$
<u>GM11</u>	1	1	ω^*	ω^*	$-\omega$	$-\omega$	-1	-1	$-\omega^*$	$-\omega^*$	ω	ω
<u>GM12</u>	1	1	ω	ω	$-\omega^*$	$-\omega^*$	-1	-1	$-\omega$	$-\omega$	ω^*	ω^*

$2_{001}6^2_{010}m^2_{100}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$

$C_3: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$

$C_4: \{2_{001}\|6^1_{001}\}, \{^d2_{001}\|6^5_{001}\}$

$C_5: \{2_{001}\|6^5_{001}\}, \{^d2_{001}\|6^1_{001}\}$

$C_6: \{2_{010}\|m_{100}\}, \{2_{010}\|m_{\frac{1}{3}\pi}\}, \{2_{010}\|m_{\frac{2}{3}\pi}\}, \{^d2_{010}\|m_{100}\}, \{^d2_{010}\|m_{\frac{1}{3}\pi}\}, \{^d2_{010}\|m_{\frac{2}{3}\pi}\}$

$C_7: \{2_{100}\|m_{010}\}, \{2_{100}\|m_{\frac{1}{6}\pi}\}, \{2_{100}\|m_{\frac{5}{6}\pi}\}, \{^d2_{100}\|m_{010}\}, \{^d2_{100}\|m_{\frac{1}{6}\pi}\}, \{^d2_{100}\|m_{\frac{5}{6}\pi}\}$

$C_8: \{^d1\|1\}$

$C_9: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1
GM3	1	1	-1	-1	-1	1	-1	1	1
GM4	1	1	1	1	1	-1	-1	1	1
GM5	2	-1	-2	1	1	0	0	2	-1
GM6	2	-1	2	-1	-1	0	0	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8}}$	2	-1	0	$\sqrt{3}$	$-\sqrt{3}$	0	0	-2	1
$\overline{\text{GM9}}$	2	-1	0	$-\sqrt{3}$	$\sqrt{3}$	0	0	-2	1

-16²₀₀₁m^m₀₀₁m

Classes:

C₁: {1||1}

C₂: {1||3¹₀₀₁}, {1||3²₀₀₁}

C₃: {2₀₀₁||m₁₀₀}, {2₀₀₁||m _{$\frac{1}{3}\pi$} }, {2₀₀₁||m _{$\frac{2}{3}\pi$} }

C₄: {^d1||1}

C₅: {^d1||3¹₀₀₁}, {^d1||3²₀₀₁}

C₆: {^d2₀₀₁||m₁₀₀}, {^d2₀₀₁||m _{$\frac{1}{3}\pi$} }, {^d2₀₀₁||m _{$\frac{2}{3}\pi$} }

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
<u>GM4</u>	2	-1	0	-2	1	0
<u>GM5GM6</u>	2	2	0	-2	-2	0

$2_{001}\bar{6}^{-1}m^{m001}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^1\}$
 $C_3: \{1\|3_{001}^2\}$
 $C_4: \{2_{001}\|2_{001}\}$
 $C_5: \{2_{001}\|6_{001}^1\}$
 $C_6: \{2_{001}\|6_{001}^5\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3_{001}^1\}$
 $C_9: \{^d1\|3_{001}^2\}$
 $C_{10}: \{^d2_{001}\|2_{001}\}$
 $C_{11}: \{^d2_{001}\|6_{001}^1\}$
 $C_{12}: \{^d2_{001}\|6_{001}^5\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	-1	ω^*	ω	1	$-\omega$	$-\omega^*$	-1	ω^*	ω
GM4	1	$-\omega^*$	$-\omega$	-1	ω	ω^*	1	$-\omega^*$	$-\omega$	-1	ω	ω^*
GM5	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$
GM6	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$
$\overline{\text{GM7GM8}}$	2	2	2	0	0	0	-2	-2	-2	0	0	0
$\overline{\text{GM9GM10}}$	2	-2ω	$-2\omega^*$	0	0	0	-2	2ω	$2\omega^*$	0	0	0
$\overline{\text{GM11GM12}}$	2	$-2\omega^*$	-2ω	0	0	0	-2	$2\omega^*$	2ω	0	0	0

$$m_{001}6^{2_{001}}m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_4: \{^d1\|1\}$$

$$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_6: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
<u>GM4GM4</u>	4	-2	0	-4	2	0
<u>GM5GM6</u>	2	2	0	-2	-2	0

$2_{001}6^m_{010}m^m_{100}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3^1_{001}\}$
 $C_3: \{1\|3^2_{001}\}$
 $C_4: \{2_{001}\|2_{001}\}$
 $C_5: \{2_{001}\|6^1_{001}\}$
 $C_6: \{2_{001}\|6^5_{001}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3^1_{001}\}$
 $C_9: \{^d1\|3^2_{001}\}$
 $C_{10}: \{^d2_{001}\|2_{001}\}$
 $C_{11}: \{^d2_{001}\|6^1_{001}\}$
 $C_{12}: \{^d2_{001}\|6^5_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	-1	ω^*	ω	1	$-\omega$	$-\omega^*$	-1	ω^*	ω
GM4	1	$-\omega^*$	$-\omega$	-1	ω	ω^*	1	$-\omega^*$	$-\omega$	-1	ω	ω^*
GM5	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$
GM6	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$
$\overline{\text{GM7}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM8}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM9}}$	1	$-\omega$	$-\omega^*$	-i	τ	$-\tau^*$	-1	ω	ω^*	i	$-\tau$	τ^*
$\overline{\text{GM10}}$	1	$-\omega$	$-\omega^*$	i	$-\tau$	τ^*	-1	ω	ω^*	-i	τ	$-\tau^*$
$\overline{\text{GM11}}$	1	$-\omega^*$	$-\omega$	-i	$-\tau^*$	τ	-1	ω^*	ω	i	τ^*	$-\tau$
$\overline{\text{GM12}}$	1	$-\omega^*$	$-\omega$	i	τ^*	$-\tau$	-1	ω^*	ω	-i	$-\tau^*$	τ

$$m_{100}6^{2_{001}}m^{m_{010}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_4: \{^d1\|1\}$$

$$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_6: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	1	1	-i	-1	-1	i
$\overline{\text{GM5}}$	1	1	i	-1	-1	-i
$\overline{\text{GM6}}$	2	-1	0	-2	1	0

$-16^1m^{-1}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{1\|m_{100}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{\frac{2}{3}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_6: \{^d1\|m_{100}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{\frac{2}{3}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4GM4}}$	2	2	-2	-2	-2	2
$\overline{\text{GM5GM5}}$	2	2	2	-2	-2	-2
$\overline{\text{GM6GM6}}$	4	-2	0	-4	2	0

$2_{001}6^1m^{2_{001}}m$

Classes:

C₁: {1||1}

C₂: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₃: {1||m₁₀₀}, {1||m _{$\frac{1}{3}\pi$} }, {1||m _{$\frac{2}{3}\pi$} }

C₄: {2₀₀₁||2₀₀₁}

C₅: {2₀₀₁||6₀₀₁¹}, {2₀₀₁||6₀₀₁⁵}

C₆: {2₀₀₁||m₀₁₀}, {2₀₀₁||m _{$\frac{1}{6}\pi$} }, {2₀₀₁||m _{$\frac{5}{6}\pi$} }

C₇: {d₁||1}

C₈: {d₁||3₀₀₁¹}, {d₁||3₀₀₁²}

C₉: {d₁||m₁₀₀}, {d₁||m _{$\frac{1}{3}\pi$} }, {d₁||m _{$\frac{2}{3}\pi$} }

C₁₀: {d₂₀₀₁||2₀₀₁}

C₁₁: {d₂₀₀₁||6₀₀₁¹}, {d₂₀₀₁||6₀₀₁⁵}

C₁₂: {d₂₀₀₁||m₀₁₀}, {d₂₀₀₁||m _{$\frac{1}{6}\pi$} }, {d₂₀₀₁||m _{$\frac{5}{6}\pi$} }

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	1	-1	1	1	-1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	-1	0	-2	1	0	2	-1	0	-2	1	0
GM6	2	-1	0	2	-1	0	2	-1	0	2	-1	0
GM7	1	1	-1	-i	-i	i	-1	-1	1	i	i	-i
GM8	1	1	-1	i	i	-i	-1	-1	1	-i	-i	i
GM9	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
GM10	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
GM11	2	-1	0	2i	-i	0	-2	1	0	-2i	i	0
GM12	2	-1	0	-2i	i	0	-2	1	0	2i	-i	0

$m_{001}6^1m^{m_{001}}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{1\|m_{100}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{\frac{2}{3}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_6: \{^d1\|m_{100}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{\frac{2}{3}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	1	1	-1	-1	-1	1
$\overline{\text{GM5}}$	1	1	1	-1	-1	-1
$\overline{\text{GM6}}$	2	-1	0	-2	1	0

$16^{-1}m^{-1}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||3_{001}^1\}$
 $C_4: \{1||3_{001}^2\}$
 $C_5: \{1||6_{001}^1\}$
 $C_6: \{1||6_{001}^5\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||2_{001}\}$
 $C_9: \{^d1||3_{001}^1\}$
 $C_{10}: \{^d1||3_{001}^2\}$
 $C_{11}: \{^d1||6_{001}^1\}$
 $C_{12}: \{^d1||6_{001}^5\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
<u>GM7GM7</u>	2	-2	2	2	-2	-2	-2	2	-2	-2	2	2
<u>GM8GM8</u>	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
<u>GM9GM9</u>	2	-2	-2ω	$-2\omega^*$	$2\omega^*$	2ω	-2	2	2ω	$2\omega^*$	$-2\omega^*$	-2ω
<u>GM10GM10</u>	2	-2	$-2\omega^*$	-2ω	2ω	$2\omega^*$	-2	2	$2\omega^*$	2ω	-2ω	$-2\omega^*$
<u>GM11GM11</u>	2	2	-2ω	$-2\omega^*$	$-2\omega^*$	-2ω	-2	-2	2ω	$2\omega^*$	$2\omega^*$	2ω
<u>GM12GM12</u>	2	2	$-2\omega^*$	-2ω	-2ω	$-2\omega^*$	-2	-2	$2\omega^*$	2ω	2ω	$2\omega^*$

$16^{2001}m^{2001}m$

Classes:

- $C_1: \{1 \parallel 1\}$
 $C_2: \{1 \parallel 2_{001}\}$
 $C_3: \{1 \parallel 3_{001}^1\}, \{1 \parallel 3_{001}^2\}$
 $C_4: \{1 \parallel 6_{001}^1\}, \{1 \parallel 6_{001}^5\}$
 $C_5: \{2_{001} \parallel m_{010}\}, \{2_{001} \parallel m_{\frac{1}{6}\pi}\}, \{2_{001} \parallel m_{\frac{5}{6}\pi}\}$
 $C_6: \{2_{001} \parallel m_{100}\}, \{2_{001} \parallel m_{\frac{1}{3}\pi}\}, \{2_{001} \parallel m_{\frac{2}{3}\pi}\}$
 $C_7: \{^d1 \parallel 1\}$
 $C_8: \{^d1 \parallel 2_{001}\}$
 $C_9: \{^d1 \parallel 3_{001}^1\}, \{^d1 \parallel 3_{001}^2\}$
 $C_{10}: \{^d1 \parallel 6_{001}^1\}, \{^d1 \parallel 6_{001}^5\}$
 $C_{11}: \{^d2_{001} \parallel m_{010}\}, \{^d2_{001} \parallel m_{\frac{1}{6}\pi}\}, \{^d2_{001} \parallel m_{\frac{5}{6}\pi}\}$
 $C_{12}: \{^d2_{001} \parallel m_{100}\}, \{^d2_{001} \parallel m_{\frac{1}{3}\pi}\}, \{^d2_{001} \parallel m_{\frac{2}{3}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-2	-1	1	0	0	2	-2	-1	1	0	0
GM6	2	2	-1	-1	0	0	2	2	-1	-1	0	0
<u>GM7</u>	1	-1	1	-1	-i	i	-1	1	-1	1	i	-i
<u>GM8</u>	1	-1	1	-1	i	-i	-1	1	-1	1	-i	i
<u>GM9</u>	1	1	1	1	-i	-i	-1	-1	-1	-1	i	i
<u>GM10</u>	1	1	1	1	i	i	-1	-1	-1	-1	-i	-i
<u>GM11</u>	2	-2	-1	1	0	0	-2	2	1	-1	0	0
<u>GM12</u>	2	2	-1	-1	0	0	-2	-2	1	1	0	0

$1\overline{6}m^{001}m^{001}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{1\|3_{001}^1\}$
 $C_4: \{1\|3_{001}^2\}$
 $C_5: \{1\|6_{001}^1\}$
 $C_6: \{1\|6_{001}^5\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|2_{001}\}$
 $C_9: \{^d1\|3_{001}^1\}$
 $C_{10}: \{^d1\|3_{001}^2\}$
 $C_{11}: \{^d1\|6_{001}^1\}$
 $C_{12}: \{^d1\|6_{001}^5\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
$\overline{\text{GM7}}$	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1
$\overline{\text{GM8}}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\overline{\text{GM9}}$	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	ω	ω^*	$-\omega^*$	$-\omega$
$\overline{\text{GM10}}$	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	ω^*	ω	$-\omega$	$-\omega^*$
$\overline{\text{GM11}}$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	-1	-1	ω	ω^*	ω^*	ω
$\overline{\text{GM12}}$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	-1	-1	ω^*	ω	ω	ω^*

$1\bar{6}1m1m$

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}

C₃: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₄: {1||6₀₀₁¹}, {1||6₀₀₁⁵}

C₅: {1||m₀₁₀}, {1||m₆¹π}, {1||m₆⁵π}

C₆: {1||m₁₀₀}, {1||m₃¹π}, {1||m₃²π}

C₇: {d₁||1}

C₈: {d₁||2₀₀₁}

C₉: {d₁||3₀₀₁¹}, {d₁||3₀₀₁²}

C₁₀: {d₁||6₀₀₁¹}, {d₁||6₀₀₁⁵}

C₁₁: {d₁||m₀₁₀}, {d₁||m₆¹π}, {d₁||m₆⁵π}

C₁₂: {d₁||m₁₀₀}, {d₁||m₃¹π}, {d₁||m₃²π}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-2	-1	1	0	0	2	-2	-1	1	0	0
GM6	2	2	-1	-1	0	0	2	2	-1	-1	0	0
<u>GM7</u>	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1
<u>GM8</u>	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1
<u>GM9</u>	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1
<u>GM10</u>	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
<u>GM11</u>	2	-2	-1	1	0	0	-2	2	1	-1	0	0
<u>GM12</u>	2	2	-1	-1	0	0	-2	-2	1	1	0	0

$$6_{001}^1 - 6_{\frac{2}{3}\pi}^2 m_{\frac{5}{6}\pi}^2$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{2_{001} \parallel m_{001}\}, \{^d 2_{001} \parallel m_{001}\}$$

$$C_3: \{2_{010} \parallel 2_{\frac{5}{6}\pi}^2\}, \{2_{\frac{1}{6}\pi}^2 \parallel 2_{010}\}, \{2_{\frac{5}{6}\pi}^2 \parallel 2_{\frac{1}{6}\pi}^2\}, \{^d 2_{010} \parallel 2_{\frac{5}{6}\pi}^2\}, \{^d 2_{\frac{1}{6}\pi}^2 \parallel 2_{010}\}, \{^d 2_{\frac{5}{6}\pi}^2 \parallel 2_{\frac{1}{6}\pi}^2\}$$

$$C_4: \{2_{100} \parallel m_{\frac{1}{3}\pi}^2\}, \{2_{\frac{1}{3}\pi}^2 \parallel m_{2_{100}}\}, \{2_{\frac{2}{3}\pi}^2 \parallel m_{100}\}, \{^d 2_{100} \parallel m_{\frac{1}{3}\pi}^2\}, \{^d 2_{\frac{1}{3}\pi}^2 \parallel m_{2_{100}}\}, \{^d 2_{\frac{2}{3}\pi}^2 \parallel m_{100}\}$$

$$C_5: \{3_{001}^1 \parallel 3_{001}^1\}, \{^d 3_{001}^2 \parallel 3_{001}^2\}$$

$$C_6: \{3_{001}^2 \parallel 3_{001}^2\}, \{^d 3_{001}^1 \parallel 3_{001}^1\}$$

$$C_7: \{6_{001}^1 \parallel -6_{001}^1\}, \{^d 6_{001}^5 \parallel -6_{001}^5\}$$

$$C_8: \{6_{001}^5 \parallel -6_{001}^5\}, \{^d 6_{001}^1 \parallel -6_{001}^1\}$$

$$C_9: \{^d 1 \parallel 1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	1	1	1	1
GM5	2	-2	0	0	-1	-1	1	1	2
GM6	2	2	0	0	-1	-1	-1	-1	2
$\overline{\text{GM7}}$	2	0	0	0	-2	2	0	0	-2
$\overline{\text{GM8}}$	2	0	0	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2
$\overline{\text{GM9}}$	2	0	0	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2

$$6_{001}^1 - 6_{\frac{1}{6}\pi}^{m_1} m_{\frac{1}{3}\pi}^2$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{2_{001}||m_{001}\}$
 $C_3: \{3_{001}^1||3_{001}^1\}$
 $C_4: \{3_{001}^2||3_{001}^2\}$
 $C_5: \{6_{001}^1||-6_{001}^1\}$
 $C_6: \{6_{001}^5||-6_{001}^5\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d2_{001}||m_{001}\}$
 $C_9: \{^d3_{001}^1||3_{001}^1\}$
 $C_{10}: \{^d3_{001}^2||3_{001}^2\}$
 $C_{11}: \{^d6_{001}^1||-6_{001}^1\}$
 $C_{12}: \{^d6_{001}^5||-6_{001}^5\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1
GM3	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
GM7	1	-i	-1	1	i	i	-1	i	1	-1	-i	-i
GM8	1	i	-1	1	-i	-i	-1	-i	1	-1	i	i
GM9	1	-i	ω^*	$-\omega$	τ^*	$-\tau$	-1	i	$-\omega^*$	ω	$-\tau^*$	τ
GM10	1	-i	ω	$-\omega^*$	$-\tau$	τ^*	-1	i	$-\omega$	ω^*	τ	$-\tau^*$
GM11	1	i	ω^*	$-\omega$	$-\tau^*$	τ	-1	-i	$-\omega^*$	ω	τ^*	$-\tau$
GM12	1	i	ω	$-\omega^*$	τ	$-\tau^*$	-1	-i	$-\omega$	ω^*	$-\tau$	τ^*

$$-3_{001}^2 - 6 \frac{m_1}{6} \pi m \frac{2}{6} \pi 2$$

Classes:

C₁: {1||1}

C₂: {2₀₁₀||2₅₆π}, {d2₁₆π||2₀₁₀}, {d2₅₆π||2₁₆π}

C₃: {2₁₆π||2₀₁₀}, {2₅₆π||2₁₆π}, {d2₀₁₀||2₅₆π}

C₄: {3¹₀₀₁||3¹₀₀₁}, {d3²₀₀₁||3²₀₀₁}

C₅: {3²₀₀₁||3²₀₀₁}, {d3¹₀₀₁||3¹₀₀₁}

C₆: {d1||1}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
<u>GM4</u>	2	0	0	1	-1	-2
<u>GM5GM6</u>	2	0	0	-2	2	-2

$$-3_{001}^2 - 6 \frac{2}{3} \pi m^{m_{010} 2}$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{2_{010} \parallel m_{\frac{2}{3}\pi}\}, \{^d 2_{\frac{1}{6}\pi} \parallel m_{\frac{1}{3}\pi}\}, \{^d 2_{\frac{5}{6}\pi} \parallel m_{100}\}$$

$$C_3: \{2_{\frac{1}{6}\pi} \parallel m_{\frac{1}{3}\pi}\}, \{2_{\frac{5}{6}\pi} \parallel m_{100}\}, \{^d 2_{010} \parallel m_{\frac{2}{3}\pi}\}$$

$$C_4: \{3_{001}^1 \parallel 3_{001}^1\}, \{^d 3_{001}^2 \parallel 3_{001}^2\}$$

$$C_5: \{3_{001}^2 \parallel 3_{001}^2\}, \{^d 3_{001}^1 \parallel 3_{001}^1\}$$

$$C_6: \{^d 1 \parallel 1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
<u>GM4</u>	2	0	0	1	-1	-2
<u>GM5GM6</u>	2	0	0	-2	2	-2

$$-6_{001}^5 - 6 \frac{2}{3} \pi m \frac{1}{6} \pi 2$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{2_{100}||m_{\frac{1}{3}\pi}\}, \{2_{\frac{2}{3}\pi}||m_{\frac{2}{3}\pi}\}, \{^d2_{\frac{1}{3}\pi}||m_{100}\}$$

$$C_3: \{2_{\frac{1}{3}\pi}||m_{100}\}, \{^d2_{100}||m_{\frac{1}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}||m_{\frac{2}{3}\pi}\}$$

$$C_4: \{3_{001}^1||3_{001}^2\}, \{^d3_{001}^2||3_{001}^1\}$$

$$C_5: \{3_{001}^2||3_{001}^1\}, \{^d3_{001}^1||3_{001}^2\}$$

$$C_6: \{^d1||1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
<u>GM4</u>	1	-i	i	-1	1	-1
<u>GM5</u>	1	i	-i	-1	1	-1
<u>GM6</u>	2	0	0	1	-1	-2

$$-6_{001}^5 - 6^m \frac{1}{6} \pi m^2 1002$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{2_{100}||2_{\frac{1}{6}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{010}\}, \{^d2_{\frac{1}{3}\pi}||2_{\frac{5}{6}\pi}\}$$

$$C_3: \{2_{\frac{1}{3}\pi}||2_{\frac{5}{6}\pi}\}, \{^d2_{100}||2_{\frac{1}{6}\pi}\}, \{^d2_{\frac{2}{3}\pi}||2_{010}\}$$

$$C_4: \{3_{001}^1||3_{001}^2\}, \{^d3_{001}^2||3_{001}^1\}$$

$$C_5: \{3_{001}^2||3_{001}^1\}, \{^d3_{001}^1||3_{001}^2\}$$

$$C_6: \{^d1||1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1
GM3	2	0	0	-1	-1	2
GM4	1	-i	i	-1	1	-1
GM5	1	i	-i	-1	1	-1
GM6	2	0	0	1	-1	-2

$$3_{001}^2 - 6 \cdot 2_{\frac{2}{3}\pi}^2 m \cdot 2_{\frac{1}{3}\pi}^2$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||m_{001}\}$$

$$C_3: \{2_{100}||2_{\frac{5}{6}\pi}^2\}, \{2_{\frac{2}{3}\pi}^2||2_{010}\}, \{^d2_{\frac{1}{3}\pi}^2||2_{\frac{1}{6}\pi}^2\}$$

$$C_4: \{2_{100}||m_{\frac{1}{3}\pi}^2\}, \{2_{\frac{2}{3}\pi}^2||m_{100}\}, \{^d2_{\frac{1}{3}\pi}^2||m_{\frac{2}{3}\pi}^2\}$$

$$C_5: \{2_{\frac{1}{3}\pi}^2||2_{\frac{1}{6}\pi}^2\}, \{^d2_{100}||2_{\frac{5}{6}\pi}^2\}, \{^d2_{\frac{2}{3}\pi}^2||2_{010}\}$$

$$C_6: \{2_{\frac{1}{3}\pi}^2||m_{\frac{2}{3}\pi}^2\}, \{^d2_{100}||m_{\frac{1}{3}\pi}^2\}, \{^d2_{\frac{2}{3}\pi}^2||m_{100}\}$$

$$C_7: \{3_{001}^1||-6_{001}^5\}, \{^d3_{001}^2||-6_{001}^1\}$$

$$C_8: \{3_{001}^1||3_{001}^1\}, \{^d3_{001}^2||3_{001}^2\}$$

$$C_9: \{3_{001}^2||-6_{001}^1\}, \{^d3_{001}^1||-6_{001}^5\}$$

$$C_{10}: \{3_{001}^2||3_{001}^2\}, \{^d3_{001}^1||3_{001}^1\}$$

$$C_{11}: \{^d1||1\}$$

$$C_{12}: \{^d1||m_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1
GM3	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1
GM4	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	-2	0	0	0	0	1	-1	1	-1	2	-2
GM6	2	2	0	0	0	0	-1	-1	-1	-1	2	2
GM7	1	-1	-i	i	i	-i	1	-1	-1	1	-1	1
GM8	1	-1	i	-i	-i	i	1	-1	-1	1	-1	1
GM9	1	1	-i	-i	i	i	-1	-1	1	1	-1	-1
GM10	1	1	i	i	-i	-i	-1	-1	1	1	-1	-1
GM11	2	-2	0	0	0	0	-1	1	1	-1	-2	2
GM12	2	2	0	0	0	0	1	1	-1	-1	-2	-2

$$3_{001}^2 - 6 \frac{m_1}{6} \pi m \frac{m_5}{6} \pi 2$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||m_{001}\}$
 $C_3: \{3_{001}^1 || -6_{001}^5\}$
 $C_4: \{3_{001}^1 || 3_{001}^1\}$
 $C_5: \{3_{001}^2 || -6_{001}^1\}$
 $C_6: \{3_{001}^2 || 3_{001}^2\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||m_{001}\}$
 $C_9: \{^d3_{001}^1 || -6_{001}^5\}$
 $C_{10}: \{^d3_{001}^1 || 3_{001}^1\}$
 $C_{11}: \{^d3_{001}^2 || -6_{001}^1\}$
 $C_{12}: \{^d3_{001}^2 || 3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1
GM3	1	-1	ω^*	$-\omega^*$	ω	$-\omega$	1	-1	ω^*	$-\omega^*$	ω	$-\omega$
GM4	1	-1	ω	$-\omega$	ω^*	$-\omega^*$	1	-1	ω	$-\omega$	ω^*	$-\omega^*$
GM5	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM6	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
<u>GM7</u>	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1
<u>GM8</u>	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
<u>GM9</u>	1	-1	$-\omega$	ω	ω^*	$-\omega^*$	-1	1	ω	$-\omega$	$-\omega^*$	ω^*
<u>GM10</u>	1	-1	$-\omega^*$	ω^*	ω	$-\omega$	-1	1	ω^*	$-\omega^*$	$-\omega$	ω
<u>GM11</u>	1	1	ω^*	ω^*	$-\omega$	$-\omega$	-1	-1	$-\omega^*$	$-\omega^*$	ω	ω
<u>GM12</u>	1	1	ω	ω	$-\omega^*$	$-\omega^*$	-1	-1	$-\omega$	$-\omega$	ω^*	ω^*

$2_{001}\text{-}6^2_{010}\text{m}^2_{100}2$

Classes:

C₁: {1||1}

C₂: {1||3¹₀₀₁}, {1||3²₀₀₁}

C₃: {2₀₀₁||-6¹₀₀₁}, {^d2₀₀₁||-6⁵₀₀₁}

C₄: {2₀₀₁||-6⁵₀₀₁}, {^d2₀₀₁||-6¹₀₀₁}

C₅: {2₀₀₁||m₀₀₁}, {^d2₀₀₁||m₀₀₁}

C₆: {2₀₁₀||m₁₀₀}, {2₀₁₀||m_{1/3}π}, {2₀₁₀||m_{2/3}π}, {^d2₀₁₀||m₁₀₀}, {^d2₀₁₀||m_{1/3}π}, {^d2₀₁₀||m_{2/3}π}

C₇: {2₁₀₀||2₀₁₀}, {2₁₀₀||2_{1/6}π}, {2₁₀₀||2_{5/6}π}, {^d2₁₀₀||2₀₁₀}, {^d2₁₀₀||2_{1/6}π}, {^d2₁₀₀||2_{5/6}π}

C₈: {^d1||1}

C₉: {^d1||3¹₀₀₁}, {^d1||3²₀₀₁}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1
GM3	1	1	-1	-1	-1	1	-1	1	1
GM4	1	1	1	1	1	-1	-1	1	1
GM5	2	-1	-1	-1	2	0	0	2	-1
GM6	2	-1	1	1	-2	0	0	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8}}$	2	-1	$\sqrt{3}$	$-\sqrt{3}$	0	0	0	-2	1
$\overline{\text{GM9}}$	2	-1	$-\sqrt{3}$	$\sqrt{3}$	0	0	0	-2	1

$2_{001}\text{-}6^{m_{001}}m^{-1}2$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{2_{001}||-6_{001}^1\}$
 $C_5: \{2_{001}||-6_{001}^5\}$
 $C_6: \{2_{001}||m_{001}\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^1\}$
 $C_9: \{^d1||3_{001}^2\}$
 $C_{10}: \{^d2_{001}||-6_{001}^1\}$
 $C_{11}: \{^d2_{001}||-6_{001}^5\}$
 $C_{12}: \{^d2_{001}||m_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	$-\omega$	$-\omega^*$	ω^*	ω	-1
GM4	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	$-\omega^*$	$-\omega$	ω	ω^*	-1
GM5	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1
GM6	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1
$\overline{\text{GM7GM8}}$	2	2	2	0	0	0	-2	-2	-2	0	0	0
$\overline{\text{GM9GM10}}$	2	-2ω	$-2\omega^*$	0	0	0	-2	2ω	$2\omega^*$	0	0	0
$\overline{\text{GM11GM12}}$	2	$-2\omega^*$	-2ω	0	0	0	-2	$2\omega^*$	2ω	0	0	0

$m_{001}-6^{-1}m^{2001}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_6: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4GM4}}$	4	-2	0	-4	2	0
$\overline{\text{GM5GM6}}$	2	2	0	-2	-2	0

-1-6²⁰⁰¹m^{m0012}

Classes:

C₁: {1||1}

C₂: {1||3¹₀₀₁}, {1||3²₀₀₁}

C₃: {2₀₀₁||m₁₀₀}, {2₀₀₁||m _{$\frac{1}{3}\pi$} }, {2₀₀₁||m _{$\frac{2}{3}\pi$} }

C₄: {^d1||1}

C₅: {^d1||3¹₀₀₁}, {^d1||3²₀₀₁}

C₆: {^d2₀₀₁||m₁₀₀}, {^d2₀₀₁||m _{$\frac{1}{3}\pi$} }, {^d2₀₀₁||m _{$\frac{2}{3}\pi$} }

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
<u>GM4</u>	2	-1	0	-2	1	0
<u>GM5GM6</u>	2	2	0	-2	-2	0

$2_{001}\text{-}6^{-1}\text{m}^{\text{m}001}2$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^1\}$
 $C_3: \{1\|3_{001}^2\}$
 $C_4: \{2_{001}\| -6_{001}^1\}$
 $C_5: \{2_{001}\| -6_{001}^5\}$
 $C_6: \{2_{001}\|\text{m}_{001}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3_{001}^1\}$
 $C_9: \{^d1\|3_{001}^2\}$
 $C_{10}: \{^d2_{001}\| -6_{001}^1\}$
 $C_{11}: \{^d2_{001}\| -6_{001}^5\}$
 $C_{12}: \{^d2_{001}\|\text{m}_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	$-\omega$	$-\omega^*$	ω^*	ω	-1
GM4	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	$-\omega^*$	$-\omega$	ω	ω^*	-1
GM5	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1
GM6	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1
$\overline{\text{GM7GM8}}$	2	2	2	0	0	0	-2	-2	-2	0	0	0
$\overline{\text{GM9GM10}}$	2	-2ω	$-2\omega^*$	0	0	0	-2	2ω	$2\omega^*$	0	0	0
$\overline{\text{GM11GM12}}$	2	$-2\omega^*$	-2ω	0	0	0	-2	$2\omega^*$	2ω	0	0	0

$$m_{001} \cdot 6^{2_{001}} m^{-1} 2$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{1 \parallel 3_{001}^1\}, \{1 \parallel 3_{001}^2\}$$

$$C_3: \{2_{001} \parallel m_{100}\}, \{2_{001} \parallel m_{\frac{1}{3}\pi}\}, \{2_{001} \parallel m_{\frac{2}{3}\pi}\}$$

$$C_4: \{^d1 \parallel 1\}$$

$$C_5: \{^d1 \parallel 3_{001}^1\}, \{^d1 \parallel 3_{001}^2\}$$

$$C_6: \{^d2_{001} \parallel m_{100}\}, \{^d2_{001} \parallel m_{\frac{1}{3}\pi}\}, \{^d2_{001} \parallel m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
<u>GM4GM4</u>	4	-2	0	-4	2	0
<u>GM5GM6</u>	2	2	0	-2	-2	0

-1-6^m001m²0012

Classes:

C₁: {1||1}

C₂: {1||3¹₀₀₁}, {1||3²₀₀₁}

C₃: {2₀₀₁||2₀₁₀}, {2₀₀₁||2_{1/6}π}, {2₀₀₁||2_{5/6}π}

C₄: {^d1||1}

C₅: {^d1||3¹₀₀₁}, {^d1||3²₀₀₁}

C₆: {^d2₀₀₁||2₀₁₀}, {^d2₀₀₁||2_{1/6}π}, {^d2₀₀₁||2_{5/6}π}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	2	-1	0	-2	1	0
$\overline{\text{GM5GM6}}$	2	2	0	-2	-2	0

$2_{001}\text{-}6_{010}\text{m}^{\text{m}}1_{002}$

Classes:

- $C_1: \{1\parallel 1\}$
 $C_2: \{1\parallel 3_{001}^1\}$
 $C_3: \{1\parallel 3_{001}^2\}$
 $C_4: \{2_{001}\parallel -6_{001}^1\}$
 $C_5: \{2_{001}\parallel -6_{001}^5\}$
 $C_6: \{2_{001}\parallel \text{m}_{001}\}$
 $C_7: \{^{\text{d}}1\parallel 1\}$
 $C_8: \{^{\text{d}}1\parallel 3_{001}^1\}$
 $C_9: \{^{\text{d}}1\parallel 3_{001}^2\}$
 $C_{10}: \{^{\text{d}}2_{001}\parallel -6_{001}^1\}$
 $C_{11}: \{^{\text{d}}2_{001}\parallel -6_{001}^5\}$
 $C_{12}: \{^{\text{d}}2_{001}\parallel \text{m}_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM3	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	$-\omega$	$-\omega^*$	ω^*	ω	-1
GM4	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	$-\omega^*$	$-\omega$	ω	ω^*	-1
GM5	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1
GM6	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1
$\overline{\text{GM7}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM8}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM9}}$	1	$-\omega$	$-\omega^*$	τ	$-\tau^*$	-i	-1	ω	ω^*	$-\tau$	τ^*	i
$\overline{\text{GM10}}$	1	$-\omega$	$-\omega^*$	$-\tau$	τ^*	i	-1	ω	ω^*	τ	$-\tau^*$	-i
$\overline{\text{GM11}}$	1	$-\omega^*$	$-\omega$	$-\tau^*$	τ	-i	-1	ω^*	ω	τ^*	$-\tau$	i
$\overline{\text{GM12}}$	1	$-\omega^*$	$-\omega$	τ^*	$-\tau$	i	-1	ω^*	ω	$-\tau^*$	τ	-i

$m_{010}\text{-}6m_{100}m_{200}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_6: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	1	1	-i	-1	-1	i
$\overline{\text{GM5}}$	1	1	i	-1	-1	-i
$\overline{\text{GM6}}$	2	-1	0	-2	1	0

$m_{100}\text{-}6^{2001}m^{m_{010}2}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_6: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	1	1	-i	-1	-1	i
$\overline{\text{GM5}}$	1	1	i	-1	-1	-i
$\overline{\text{GM6}}$	2	-1	0	-2	1	0

-1-6-1m12

Classes:

C₁: {1||1}

C₂: {1||2₀₁₀}, {1||2_{1/6}π}, {1||2_{5/6}π}

C₃: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₄: {^d1||1}

C₅: {^d1||2₀₁₀}, {^d1||2_{1/6}π}, {^d1||2_{5/6}π}

C₆: {^d1||3₀₀₁¹}, {^d1||3₀₀₁²}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	1
GM3	2	0	-1	2	0	-1
<u>GM4GM4</u>	2	-2	2	-2	2	-2
<u>GM5GM5</u>	2	2	2	-2	-2	-2
<u>GM6GM6</u>	4	0	-2	-4	0	2

$2_{001}\text{-}6^2_{001}\text{m}^1_2$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$

C_3 : $\{1\|3^1_{001}\}, \{1\|3^2_{001}\}$

C_4 : $\{2_{001}\| -6^1_{001}\}, \{2_{001}\| -6^5_{001}\}$

C_5 : $\{2_{001}\|\text{m}_{001}\}$

C_6 : $\{2_{001}\|\text{m}_{100}\}, \{2_{001}\|\text{m}_{\frac{1}{3}\pi}\}, \{2_{001}\|\text{m}_{\frac{2}{3}\pi}\}$

C_7 : $\{\text{d}1\|1\}$

C_8 : $\{\text{d}1\|2_{010}\}, \{\text{d}1\|2_{\frac{1}{6}\pi}\}, \{\text{d}1\|2_{\frac{5}{6}\pi}\}$

C_9 : $\{\text{d}1\|3^1_{001}\}, \{\text{d}1\|3^2_{001}\}$

C_{10} : $\{\text{d}2_{001}\| -6^1_{001}\}, \{\text{d}2_{001}\| -6^5_{001}\}$

C_{11} : $\{\text{d}2_{001}\|\text{m}_{001}\}$

C_{12} : $\{\text{d}2_{001}\|\text{m}_{100}\}, \{\text{d}2_{001}\|\text{m}_{\frac{1}{3}\pi}\}, \{\text{d}2_{001}\|\text{m}_{\frac{2}{3}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	1	1	-1	1	-1	1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	0	-1	1	-2	0	2	0	-1	1	-2	0
GM6	2	0	-1	-1	2	0	2	0	-1	-1	2	0
$\overline{\text{GM7}}$	1	-1	1	-i	-i	i	-1	1	-1	i	i	-i
$\overline{\text{GM8}}$	1	-1	1	i	i	-i	-1	1	-1	-i	-i	i
$\overline{\text{GM9}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM10}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM11}}$	2	0	-1	-i	2i	0	-2	0	1	i	-2i	0
$\overline{\text{GM12}}$	2	0	-1	i	-2i	0	-2	0	1	-i	2i	0

$m_{001}\text{-}6m_{001}m^1_2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$

$C_3: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$

$C_6: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	1
GM3	2	0	-1	2	0	-1
$\overline{\text{GM4}}$	1	-1	1	-1	1	-1
$\overline{\text{GM5}}$	1	1	1	-1	-1	-1
$\overline{\text{GM6}}$	2	0	-1	-2	0	1

-1-6¹m⁻¹2

Classes:

C₁: {1||1}

C₂: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₃: {1||m₁₀₀}, {1||m _{$\frac{1}{3}\pi$} }, {1||m _{$\frac{2}{3}\pi$} }

C₄: {^d1||1}

C₅: {^d1||3₀₀₁¹}, {^d1||3₀₀₁²}

C₆: {^d1||m₁₀₀}, {^d1||m _{$\frac{1}{3}\pi$} }, {^d1||m _{$\frac{2}{3}\pi$} }

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
<u>GM4GM4</u>	2	2	-2	-2	-2	2
<u>GM5GM5</u>	2	2	2	-2	-2	-2
<u>GM6GM6</u>	4	-2	0	-4	2	0

$2_{001}\text{-}6^1\text{m}2_{001}2$

Classes:

- C_1 : $\{1\|1\}$
 C_2 : $\{1\|3_{001}^1\}, \{1\|3_{001}^2\}$
 C_3 : $\{1\|m_{100}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{\frac{2}{3}\pi}\}$
 C_4 : $\{2_{001}\| -6_{001}^1\}, \{2_{001}\| -6_{001}^5\}$
 C_5 : $\{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$
 C_6 : $\{2_{001}\|m_{001}\}$
 C_7 : $\{^d1\|1\}$
 C_8 : $\{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$
 C_9 : $\{^d1\|m_{100}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{\frac{2}{3}\pi}\}$
 C_{10} : $\{^d2_{001}\| -6_{001}^1\}, \{^d2_{001}\| -6_{001}^5\}$
 C_{11} : $\{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$
 C_{12} : $\{^d2_{001}\|m_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
GM3	1	1	-1	1	-1	1	1	1	-1	1	-1	1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	-1	0	1	0	-2	2	-1	0	1	0	-2
GM6	2	-1	0	-1	0	2	2	-1	0	-1	0	2
$\overline{\text{GM7}}$	1	1	-1	-i	i	-i	-1	-1	1	i	-i	i
$\overline{\text{GM8}}$	1	1	-1	i	-i	i	-1	-1	1	-i	i	-i
$\overline{\text{GM9}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM10}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM11}}$	2	-1	0	-i	0	2i	-2	1	0	i	0	-2i
$\overline{\text{GM12}}$	2	-1	0	i	0	-2i	-2	1	0	-i	0	2i

$m_{001}-6^1m_{001}2$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{1\|m_{100}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{\frac{2}{3}\pi}\}$

$C_4: \{^d1\|1\}$

$C_5: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_6: \{^d1\|m_{100}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{\frac{2}{3}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6
GM1	1	1	1	1	1	1
GM2	1	1	-1	1	1	-1
GM3	2	-1	0	2	-1	0
$\overline{\text{GM4}}$	1	1	-1	-1	-1	1
$\overline{\text{GM5}}$	1	1	1	-1	-1	-1
$\overline{\text{GM6}}$	2	-1	0	-2	1	0

$1\text{-}6\text{-}1\text{m}\text{-}12$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^2\}$
 $C_3: \{1\| -6_{001}^5\}$
 $C_4: \{1\| -6_{001}^1\}$
 $C_5: \{1\|\text{m}_{001}\}$
 $C_6: \{1\|3_{001}^1\}$
 $C_7: \{\text{d}1\|1\}$
 $C_8: \{\text{d}1\|3_{001}^2\}$
 $C_9: \{\text{d}1\| -6_{001}^5\}$
 $C_{10}: \{\text{d}1\| -6_{001}^1\}$
 $C_{11}: \{\text{d}1\|\text{m}_{001}\}$
 $C_{12}: \{\text{d}1\|3_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	$-\omega$	ω^*	ω	-1	$-\omega^*$	1	$-\omega$	ω^*	ω	-1	$-\omega^*$
GM4	1	$-\omega^*$	ω	ω^*	-1	$-\omega$	1	$-\omega^*$	ω	ω^*	-1	$-\omega$
GM5	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$
<u>GM7GM7</u>	2	2	-2	-2	-2	2	-2	-2	2	2	2	-2
<u>GM8GM8</u>	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
<u>GM9GM9</u>	2	-2ω	$2\omega^*$	2ω	-2	$-2\omega^*$	-2	2ω	$-2\omega^*$	-2ω	2	$2\omega^*$
<u>GM10GM10</u>	2	$-2\omega^*$	2ω	$2\omega^*$	-2	-2ω	-2	$2\omega^*$	-2ω	$-2\omega^*$	2	2ω
<u>GM11GM11</u>	2	-2ω	$-2\omega^*$	-2ω	2	$-2\omega^*$	-2	2ω	$2\omega^*$	2ω	-2	$2\omega^*$
<u>GM12GM12</u>	2	$-2\omega^*$	-2ω	$-2\omega^*$	2	-2ω	-2	$2\omega^*$	2ω	$2\omega^*$	-2	2ω

$1\text{-}6^{2001}\text{m}^{2001}2$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^2\}, \{1\|3_{001}^1\}$
 $C_3: \{1\| -6_{001}^5\}, \{1\| -6_{001}^1\}$
 $C_4: \{1\|\text{m}_{001}\}$
 $C_5: \{2_{001}\|\text{m}_{\frac{2}{3}\pi}\}, \{2_{001}\|\text{m}_{\frac{1}{3}\pi}\}, \{2_{001}\|\text{m}_{100}\}$
 $C_6: \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$
 $C_7: \{\text{d}1\|1\}$
 $C_8: \{\text{d}1\|3_{001}^2\}, \{\text{d}1\|3_{001}^1\}$
 $C_9: \{\text{d}1\| -6_{001}^5\}, \{\text{d}1\| -6_{001}^1\}$
 $C_{10}: \{\text{d}1\|\text{m}_{001}\}$
 $C_{11}: \{\text{d}2_{001}\|\text{m}_{\frac{2}{3}\pi}\}, \{\text{d}2_{001}\|\text{m}_{\frac{1}{3}\pi}\}, \{\text{d}2_{001}\|\text{m}_{100}\}$
 $C_{12}: \{\text{d}2_{001}\|2_{\frac{1}{6}\pi}\}, \{\text{d}2_{001}\|2_{010}\}, \{\text{d}2_{001}\|2_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-1	-1	2	0	0	2	-1	-1	2	0	0
GM6	2	-1	1	-2	0	0	2	-1	1	-2	0	0
$\overline{\text{GM7}}$	1	1	-1	-1	-i	i	-1	-1	1	1	i	-i
$\overline{\text{GM8}}$	1	1	-1	-1	i	-i	-1	-1	1	1	-i	i
$\overline{\text{GM9}}$	1	1	1	1	-i	-i	-1	-1	-1	-1	i	i
$\overline{\text{GM10}}$	1	1	1	1	i	i	-1	-1	-1	-1	-i	-i
$\overline{\text{GM11}}$	2	-1	-1	2	0	0	-2	1	1	-2	0	0
$\overline{\text{GM12}}$	2	-1	1	-2	0	0	-2	1	-1	2	0	0

$1\text{-}6^{m_{001}}m^{m_{001}}2$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^2\}$
 $C_3: \{1||-6_{001}^5\}$
 $C_4: \{1||-6_{001}^1\}$
 $C_5: \{1||m_{001}\}$
 $C_6: \{1||3_{001}^1\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^2\}$
 $C_9: \{^d1||-6_{001}^5\}$
 $C_{10}: \{^d1||-6_{001}^1\}$
 $C_{11}: \{^d1||m_{001}\}$
 $C_{12}: \{^d1||3_{001}^1\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	$-\omega$	ω^*	ω	-1	$-\omega^*$	1	$-\omega$	ω^*	ω	-1	$-\omega^*$
GM4	1	$-\omega^*$	ω	ω^*	-1	$-\omega$	1	$-\omega^*$	ω	ω^*	-1	$-\omega$
GM5	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$
$\overline{\text{GM7}}$	1	1	-1	-1	-1	1	-1	-1	1	1	1	-1
$\overline{\text{GM8}}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\overline{\text{GM9}}$	1	$-\omega$	ω^*	ω	-1	$-\omega^*$	-1	ω	$-\omega^*$	$-\omega$	1	ω^*
$\overline{\text{GM10}}$	1	$-\omega^*$	ω	ω^*	-1	$-\omega$	-1	ω^*	$-\omega$	$-\omega^*$	1	ω
$\overline{\text{GM11}}$	1	$-\omega$	$-\omega^*$	$-\omega$	1	$-\omega^*$	-1	ω	ω^*	ω	-1	ω^*
$\overline{\text{GM12}}$	1	$-\omega^*$	$-\omega$	$-\omega^*$	1	$-\omega$	-1	ω^*	ω	ω^*	-1	ω

$1\text{-}6^1\text{m}^12$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|3_{001}^2\}, \{1\|3_{001}^1\}$

C_3 : $\{1\| -6_{001}^5\}, \{1\| -6_{001}^1\}$

C_4 : $\{1\|m_{\frac{2}{3}\pi}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{100}\}$

C_5 : $\{1\|m_{001}\}$

C_6 : $\{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{010}\}, \{1\|2_{\frac{5}{6}\pi}\}$

C_7 : $\{^d1\|1\}$

C_8 : $\{^d1\|3_{001}^2\}, \{^d1\|3_{001}^1\}$

C_9 : $\{^d1\| -6_{001}^5\}, \{^d1\| -6_{001}^1\}$

C_{10} : $\{^d1\|m_{\frac{2}{3}\pi}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{100}\}$

C_{11} : $\{^d1\|m_{001}\}$

C_{12} : $\{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{010}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1
GM4	1	1	1	-1	1	-1	1	1	1	-1	1	-1
GM5	2	-1	-1	0	2	0	2	-1	-1	0	2	0
GM6	2	-1	1	0	-2	0	2	-1	1	0	-2	0
$\overline{\text{GM7}}$	1	1	-1	-1	-1	1	-1	-1	1	1	1	-1
$\overline{\text{GM8}}$	1	1	-1	1	-1	-1	-1	-1	1	-1	1	1
$\overline{\text{GM9}}$	1	1	1	-1	1	-1	-1	-1	-1	1	-1	1
$\overline{\text{GM10}}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\overline{\text{GM11}}$	2	-1	-1	0	2	0	-2	1	1	0	-2	0
$\overline{\text{GM12}}$	2	-1	1	0	-2	0	-2	1	-1	0	2	0

$$6_{001}^1 6_{-1}^2 m_{\frac{2}{3}\pi}^2 m_{\frac{5}{6}\pi}^2$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|m_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{6}\pi}\|m_{010}\}, \{2_{\frac{5}{6}\pi}\|m_{\frac{1}{6}\pi}\}, \{^d2_{010}\|m_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}\|m_{010}\}, \{^d2_{\frac{5}{6}\pi}\|m_{\frac{1}{6}\pi}\}$$

$$C_4: \{2_{100}\|m_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi}\|m_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}\|m_{100}\}, \{^d2_{100}\|m_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{3}\pi}\|m_{\frac{2}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}\|m_{100}\}$$

$$C_5: \{3_{001}^1\|3_{001}^1\}, \{^d3_{001}^2\|3_{001}^2\}$$

$$C_6: \{3_{001}^2\|3_{001}^2\}, \{^d3_{001}^1\|3_{001}^1\}$$

$$C_7: \{6_{001}^1\|6_{001}^1\}, \{^d6_{001}^5\|6_{001}^5\}$$

$$C_8: \{6_{001}^5\|6_{001}^5\}, \{^d6_{001}^1\|6_{001}^1\}$$

$$C_9: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	1	1	1	1
GM5	2	-2	0	0	-1	-1	1	1	2
GM6	2	2	0	0	-1	-1	-1	-1	2
$\overline{\text{GM7}}$	2	0	0	0	-2	2	0	0	-2
$\overline{\text{GM8}}$	2	0	0	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2
$\overline{\text{GM9}}$	2	0	0	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2

$$6_{001}^1 6/m_{001} m^2 \frac{1}{6} \pi m^2 \frac{1}{3} \pi m$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{2_{001} \parallel 2_{001}\}, \{^d 2_{001} \parallel 2_{001}\}$$

$$C_3: \{2_{010} \parallel m_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{6}\pi} \parallel m_{100}\}, \{2_{\frac{5}{6}\pi} \parallel m_{\frac{2}{3}\pi}\}, \{^d 2_{010} \parallel m_{\frac{1}{3}\pi}\}, \{^d 2_{\frac{1}{6}\pi} \parallel m_{100}\}, \{^d 2_{\frac{5}{6}\pi} \parallel m_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{100} \parallel m_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{3}\pi} \parallel m_{\frac{1}{6}\pi}\}, \{2_{\frac{2}{3}\pi} \parallel m_{010}\}, \{^d 2_{100} \parallel m_{\frac{5}{6}\pi}\}, \{^d 2_{\frac{1}{3}\pi} \parallel m_{\frac{1}{6}\pi}\}, \{^d 2_{\frac{2}{3}\pi} \parallel m_{010}\}$$

$$C_5: \{3_{001}^1 \parallel 3_{001}^1\}, \{^d 3_{001}^2 \parallel 3_{001}^2\}$$

$$C_6: \{3_{001}^2 \parallel 3_{001}^2\}, \{^d 3_{001}^1 \parallel 3_{001}^1\}$$

$$C_7: \{6_{001}^1 \parallel 6_{001}^1\}, \{^d 6_{001}^5 \parallel 6_{001}^5\}$$

$$C_8: \{6_{001}^5 \parallel 6_{001}^5\}, \{^d 6_{001}^1 \parallel 6_{001}^1\}$$

$$C_9: \{^d 1 \parallel 1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	1	1	1	1
GM5	2	-2	0	0	-1	-1	1	1	2
GM6	2	2	0	0	-1	-1	-1	-1	2
$\overline{\text{GM7}}$	2	0	0	0	-2	2	0	0	-2
$\overline{\text{GM8}}$	2	0	0	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2
$\overline{\text{GM9}}$	2	0	0	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2

$$6_{001}^1 6_{-1}^1 m_{\frac{1}{6}\pi}^1 m_{\frac{1}{3}\pi}^1 m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|2_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{6}\pi}\|2_{010}\}, \{2_{\frac{5}{6}\pi}\|2_{\frac{1}{6}\pi}\}, \{^d2_{010}\|2_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}\|2_{010}\}, \{^d2_{\frac{5}{6}\pi}\|2_{\frac{1}{6}\pi}\}$$

$$C_4: \{2_{100}\|2_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi}\|2_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}\|2_{100}\}, \{^d2_{100}\|2_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{3}\pi}\|2_{\frac{2}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}\|2_{100}\}$$

$$C_5: \{3_{001}^1\|3_{001}^1\}, \{^d3_{001}^2\|3_{001}^2\}$$

$$C_6: \{3_{001}^2\|3_{001}^2\}, \{^d3_{001}^1\|3_{001}^1\}$$

$$C_7: \{6_{001}^1\|6_{001}^1\}, \{^d6_{001}^5\|6_{001}^5\}$$

$$C_8: \{6_{001}^5\|6_{001}^5\}, \{^d6_{001}^1\|6_{001}^1\}$$

$$C_9: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	1	1	1	1
GM5	2	-2	0	0	-1	-1	1	1	2
GM6	2	2	0	0	-1	-1	-1	-1	2
$\overline{\text{GM7}}$	2	0	0	0	-2	2	0	0	-2
$\overline{\text{GM8}}$	2	0	0	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2
$\overline{\text{GM9}}$	2	0	0	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2

$$6_{001}^1 6/m_{001} m^m \frac{2}{3} \pi m^m \frac{5}{6} \pi m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{^d2_{001}\|2_{001}\}$$

$$C_3: \{2_{010}\|2_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{6}\pi}\|2_{010}\}, \{2_{\frac{5}{6}\pi}\|2_{\frac{1}{6}\pi}\}, \{^d2_{010}\|2_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}\|2_{010}\}, \{^d2_{\frac{5}{6}\pi}\|2_{\frac{1}{6}\pi}\}$$

$$C_4: \{2_{100}\|2_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi}\|2_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}\|2_{100}\}, \{^d2_{100}\|2_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{3}\pi}\|2_{\frac{2}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}\|2_{100}\}$$

$$C_5: \{3_{001}^1\|3_{001}^1\}, \{^d3_{001}^2\|3_{001}^2\}$$

$$C_6: \{3_{001}^2\|3_{001}^2\}, \{^d3_{001}^1\|3_{001}^1\}$$

$$C_7: \{6_{001}^1\|6_{001}^1\}, \{^d6_{001}^5\|6_{001}^5\}$$

$$C_8: \{6_{001}^5\|6_{001}^5\}, \{^d6_{001}^1\|6_{001}^1\}$$

$$C_9: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	1	1	1	1
GM5	2	-2	0	0	-1	-1	1	1	2
GM6	2	2	0	0	-1	-1	-1	-1	2
$\overline{\text{GM7}}$	2	0	0	0	-2	2	0	0	-2
$\overline{\text{GM8}}$	2	0	0	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2
$\overline{\text{GM9}}$	2	0	0	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2

$$-3_{001}^2 6/m_{001} m^{\frac{2}{6}\pi} m^{\frac{5}{6}\pi} m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{2_{001}||-1\}, \{^d2_{001}||-1\}$$

$$C_3: \{2_{010}||m_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{6}\pi}||m_{100}\}, \{2_{\frac{5}{6}\pi}||m_{\frac{2}{3}\pi}\}, \{^d2_{010}||m_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{6}\pi}||m_{100}\}, \{^d2_{\frac{5}{6}\pi}||m_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{100}||2_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi}||2_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{100}\}, \{^d2_{100}||2_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{3}\pi}||2_{\frac{2}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}||2_{100}\}$$

$$C_5: \{3_{001}^1||3_{001}^1\}, \{^d3_{001}^2||3_{001}^2\}$$

$$C_6: \{3_{001}^2||3_{001}^2\}, \{^d3_{001}^1||3_{001}^1\}$$

$$C_7: \{6_{001}^1||-3_{001}^2\}, \{^d6_{001}^5||-3_{001}^1\}$$

$$C_8: \{6_{001}^5||-3_{001}^1\}, \{^d6_{001}^1||-3_{001}^2\}$$

$$C_9: \{^d1||1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	1	1	1	1
GM5	2	-2	0	0	-1	-1	1	1	2
GM6	2	2	0	0	-1	-1	-1	-1	2
$\overline{\text{GM7}}$	2	0	0	0	-2	2	0	0	-2
$\overline{\text{GM8}}$	2	0	0	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2
$\overline{\text{GM9}}$	2	0	0	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2

$$-3_{001}^2 6/2_{001} m^1_{\frac{1}{6}\pi} m^{2\frac{5}{6}\pi}_{\frac{5}{6}\pi}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|m_{001}\}, \{^d2_{001}\|m_{001}\}$$

$$C_3: \{2_{010}\|m_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{6}\pi}\|m_{010}\}, \{2_{\frac{5}{6}\pi}\|m_{\frac{1}{6}\pi}\}, \{^d2_{010}\|m_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}\|m_{010}\}, \{^d2_{\frac{5}{6}\pi}\|m_{\frac{1}{6}\pi}\}$$

$$C_4: \{2_{100}\|2_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi}\|2_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}\|2_{100}\}, \{^d2_{100}\|2_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{3}\pi}\|2_{\frac{2}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}\|2_{100}\}$$

$$C_5: \{3_{001}^1\|3_{001}^1\}, \{^d3_{001}^2\|3_{001}^2\}$$

$$C_6: \{3_{001}^2\|3_{001}^2\}, \{^d3_{001}^1\|3_{001}^1\}$$

$$C_7: \{6_{001}^1\| - 6_{001}^1\}, \{^d6_{001}^5\| - 6_{001}^5\}$$

$$C_8: \{6_{001}^5\| - 6_{001}^5\}, \{^d6_{001}^1\| - 6_{001}^1\}$$

$$C_9: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	1	1	1	1
GM5	2	-2	0	0	-1	-1	1	1	2
GM6	2	2	0	0	-1	-1	-1	-1	2
$\overline{\text{GM7}}$	2	0	0	0	-2	2	0	0	-2
$\overline{\text{GM8}}$	2	0	0	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2
$\overline{\text{GM9}}$	2	0	0	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2

$$-6_{001}^5 6_{-1} m^{2\frac{5}{6}\pi} m^{\frac{2}{3}\pi} m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{2_{001}||-1\}, \{^d2_{001}||-1\}$$

$$C_3: \{2_{010}||m_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{6}\pi}||m_{\frac{2}{3}\pi}\}, \{2_{\frac{5}{6}\pi}||m_{100}\}, \{^d2_{010}||m_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{6}\pi}||m_{\frac{2}{3}\pi}\}, \{^d2_{\frac{5}{6}\pi}||m_{100}\}$$

$$C_4: \{2_{100}||2_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi}||2_{100}\}, \{2_{\frac{2}{3}\pi}||2_{\frac{2}{3}\pi}\}, \{^d2_{100}||2_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{3}\pi}||2_{100}\}, \{^d2_{\frac{2}{3}\pi}||2_{\frac{2}{3}\pi}\}$$

$$C_5: \{3_{001}^1||3_{001}^2\}, \{^d3_{001}^2||3_{001}^1\}$$

$$C_6: \{3_{001}^2||3_{001}^1\}, \{^d3_{001}^1||3_{001}^2\}$$

$$C_7: \{6_{001}^1||-3_{001}^1\}, \{^d6_{001}^5||-3_{001}^2\}$$

$$C_8: \{6_{001}^5||-3_{001}^2\}, \{^d6_{001}^1||-3_{001}^1\}$$

$$C_9: \{^d1||1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	1	1	1	1
GM5	2	-2	0	0	-1	-1	1	1	2
GM6	2	2	0	0	-1	-1	-1	-1	2
$\overline{\text{GM7}}$	2	0	0	0	-2	2	0	0	-2
$\overline{\text{GM8}}$	2	0	0	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2
$\overline{\text{GM9}}$	2	0	0	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2

$$-6_{001}^5 6/2_{001} m \frac{1}{3} \pi m \frac{2}{6} \pi m$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{2_{001} \parallel m_{001}\}, \{^d 2_{001} \parallel m_{001}\}$$

$$C_3: \{2_{010} \parallel m_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{6}\pi} \parallel m_{\frac{1}{6}\pi}\}, \{2_{\frac{5}{6}\pi} \parallel m_{010}\}, \{^d 2_{010} \parallel m_{\frac{5}{6}\pi}\}, \{^d 2_{\frac{1}{6}\pi} \parallel m_{\frac{1}{6}\pi}\}, \{^d 2_{\frac{5}{6}\pi} \parallel m_{010}\}$$

$$C_4: \{2_{100} \parallel 2_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi} \parallel 2_{100}\}, \{2_{\frac{2}{3}\pi} \parallel 2_{\frac{2}{3}\pi}\}, \{^d 2_{100} \parallel 2_{\frac{1}{3}\pi}\}, \{^d 2_{\frac{1}{3}\pi} \parallel 2_{100}\}, \{^d 2_{\frac{2}{3}\pi} \parallel 2_{\frac{2}{3}\pi}\}$$

$$C_5: \{3_{001}^1 \parallel 3_{001}^2\}, \{^d 3_{001}^2 \parallel 3_{001}^1\}$$

$$C_6: \{3_{001}^2 \parallel 3_{001}^1\}, \{^d 3_{001}^1 \parallel 3_{001}^2\}$$

$$C_7: \{6_{001}^1 \parallel -6_{001}^5\}, \{^d 6_{001}^5 \parallel -6_{001}^1\}$$

$$C_8: \{6_{001}^5 \parallel -6_{001}^1\}, \{^d 6_{001}^1 \parallel -6_{001}^5\}$$

$$C_9: \{^d 1 \parallel 1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1
GM3	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	1	1	1	1
GM5	2	-2	0	0	-1	-1	1	1	2
GM6	2	2	0	0	-1	-1	-1	-1	2
$\overline{\text{GM7}}$	2	0	0	0	-2	2	0	0	-2
$\overline{\text{GM8}}$	2	0	0	0	1	-1	$\sqrt{3}$	$-\sqrt{3}$	-2
$\overline{\text{GM9}}$	2	0	0	0	1	-1	$-\sqrt{3}$	$\sqrt{3}$	-2

$$6_{001}^1 6/2_{001} m^2 \frac{2}{3} \pi m^2 \frac{5}{6} \pi m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||-1\}$$

$$C_3: \{2_{001}||m_{001}\}, \{^d 2_{001}||m_{001}\}$$

$$C_4: \{2_{001}||2_{001}\}, \{^d 2_{001}||2_{001}\}$$

$$C_5: \{2_{010}||m_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{6}\pi}||m_{010}\}, \{2_{\frac{5}{6}\pi}||m_{\frac{1}{6}\pi}\}, \{^d 2_{010}||m_{\frac{5}{6}\pi}\}, \{^d 2_{\frac{1}{6}\pi}||m_{010}\}, \{^d 2_{\frac{5}{6}\pi}||m_{\frac{1}{6}\pi}\}$$

$$C_6: \{2_{010}||2_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{6}\pi}||2_{010}\}, \{2_{\frac{5}{6}\pi}||2_{\frac{1}{6}\pi}\}, \{^d 2_{010}||2_{\frac{5}{6}\pi}\}, \{^d 2_{\frac{1}{6}\pi}||2_{010}\}, \{^d 2_{\frac{5}{6}\pi}||2_{\frac{1}{6}\pi}\}$$

$$C_7: \{2_{100}||m_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi}||m_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}||m_{100}\}, \{^d 2_{100}||m_{\frac{1}{3}\pi}\}, \{^d 2_{\frac{1}{3}\pi}||m_{\frac{2}{3}\pi}\}, \{^d 2_{\frac{2}{3}\pi}||m_{100}\}$$

$$C_8: \{2_{100}||2_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi}||2_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{100}\}, \{^d 2_{100}||2_{\frac{1}{3}\pi}\}, \{^d 2_{\frac{1}{3}\pi}||2_{\frac{2}{3}\pi}\}, \{^d 2_{\frac{2}{3}\pi}||2_{100}\}$$

$$C_9: \{3_{001}^1||3_{001}^1\}, \{^d 3_{001}^2||3_{001}^2\}$$

$$C_{10}: \{3_{001}^1||-3_{001}^1\}, \{^d 3_{001}^2||-3_{001}^2\}$$

$$C_{11}: \{3_{001}^2||3_{001}^2\}, \{^d 3_{001}^1||3_{001}^1\}$$

$$C_{12}: \{3_{001}^2||-3_{001}^2\}, \{^d 3_{001}^1||-3_{001}^1\}$$

$$C_{13}: \{6_{001}^1||6_{001}^1\}, \{^d 6_{001}^5||6_{001}^5\}$$

$$C_{14}: \{6_{001}^1||-6_{001}^1\}, \{^d 6_{001}^5||-6_{001}^5\}$$

$$C_{15}: \{6_{001}^5||6_{001}^5\}, \{^d 6_{001}^1||6_{001}^1\}$$

$$C_{16}: \{6_{001}^5||-6_{001}^5\}, \{^d 6_{001}^1||-6_{001}^1\}$$

$$C_{17}: \{^d 1||1\}$$

$$C_{18}: \{^d 1||-1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1
GM5	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1
GM6	1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	1	1
GM7	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1
GM8	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1
GM9	2	-2	-2	2	0	0	0	0	-1	1	-1	1	-1	1	-1	1	2	-2
GM10	2	-2	2	-2	0	0	0	0	-1	1	-1	1	1	-1	1	-1	2	-2
GM11	2	2	-2	-2	0	0	0	0	-1	-1	-1	-1	1	1	1	1	2	2
GM12	2	2	2	2	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	2	2
GM13	2	2	0	0	0	0	0	0	-2	-2	2	2	0	0	0	0	-2	-2
GM14	2	-2	0	0	0	0	0	0	-2	2	2	-2	0	0	0	0	-2	2
GM15	2	-2	0	0	0	0	0	0	1	-1	-1	1	$\sqrt{3}$	$-\sqrt{3}$	$-\sqrt{3}$	$\sqrt{3}$	-2	2
GM16	2	-2	0	0	0	0	0	0	1	-1	-1	1	$-\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	$-\sqrt{3}$	-2	2
GM17	2	2	0	0	0	0	0	0	1	1	-1	-1	$\sqrt{3}$	$\sqrt{3}$	$-\sqrt{3}$	$-\sqrt{3}$	-2	-2
GM18	2	2	0	0	0	0	0	0	1	1	-1	-1	$-\sqrt{3}$	$-\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	-2	-2

$$6_{001}^1 6/2_{001} m \quad m \frac{1}{6} \pi m \quad m \frac{1}{3} \pi m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{2_{001}||m_{001}\}$
 $C_4: \{2_{001}||2_{001}\}$
 $C_5: \{3_{001}^1||3_{001}^1\}$
 $C_6: \{3_{001}^1||-3_{001}^1\}$
 $C_7: \{3_{001}^2||3_{001}^2\}$
 $C_8: \{3_{001}^2||-3_{001}^2\}$
 $C_9: \{6_{001}^1||6_{001}^1\}$
 $C_{10}: \{6_{001}^1||-6_{001}^1\}$
 $C_{11}: \{6_{001}^5||6_{001}^5\}$
 $C_{12}: \{6_{001}^5||-6_{001}^5\}$
 $C_{13}: \{d1||1\}$
 $C_{14}: \{d1||-1\}$
 $C_{15}: \{d2_{001}||m_{001}\}$
 $C_{16}: \{d2_{001}||2_{001}\}$
 $C_{17}: \{d3_{001}^1||3_{001}^1\}$
 $C_{18}: \{d3_{001}^1||-3_{001}^1\}$
 $C_{19}: \{d3_{001}^2||3_{001}^2\}$
 $C_{20}: \{d3_{001}^2||-3_{001}^2\}$
 $C_{21}: \{d6_{001}^1||6_{001}^1\}$
 $C_{22}: \{d6_{001}^1||-6_{001}^1\}$
 $C_{23}: \{d6_{001}^5||6_{001}^5\}$
 $C_{24}: \{d6_{001}^5||-6_{001}^5\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1
GM4	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-1	1	-ω	ω	-ω*	ω*	-ω*	ω*	-ω	ω	1	-1	-1	1	-ω	ω	-ω*	ω*	-ω*	ω*	-ω	ω
GM6	1	-1	-1	1	-ω*	ω*	-ω	ω	-ω	ω	-ω*	ω*	1	-1	-1	1	-ω*	ω*	-ω	ω	-ω	ω	-ω*	ω*
GM7	1	-1	1	-1	-ω	ω	-ω*	ω*	ω*	-ω*	ω	-ω	1	-1	1	-1	-ω	ω	-ω*	ω*	ω*	-ω*	ω	-ω
GM8	1	-1	1	-1	-ω*	ω*	-ω	ω	ω	-ω	ω*	-ω*	1	-1	1	-1	-ω*	ω*	-ω	ω	-ω	ω*	ω*	-ω
GM9	1	1	-1	-1	-ω	-ω	-ω*	-ω*	ω*	ω*	ω	ω	1	1	-1	-1	-ω	-ω	-ω*	-ω*	ω*	ω*	ω	ω
GM10	1	1	-1	-1	-ω*	-ω*	-ω	-ω	ω	ω	ω*	ω*	1	1	-1	-1	-ω*	-ω*	-ω	-ω	ω	ω*	ω*	ω*
GM11	1	1	1	1	-ω	-ω	-ω*	-ω*	-ω*	-ω*	-ω	-ω	1	1	1	1	-ω	-ω	-ω*	-ω*	-ω*	-ω*	-ω	-ω
GM12	1	1	1	1	-ω*	-ω*	-ω	-ω	-ω	-ω	-ω*	-ω*	1	1	1	1	-ω*	-ω*	-ω	-ω	-ω	-ω	-ω*	-ω*
GM13	1	-1	-i	i	-1	1	1	-1	-i	i	-i	i	-1	1	i	-i	1	-1	-1	1	i	-i	i	-i
GM14	1	-1	i	-i	-1	1	1	-1	i	-i	i	-i	-1	1	-i	i	1	-1	-1	1	-i	i	-i	i
GM15	1	-1	-i	i	ω*	-ω*	-ω	ω	-τ*	τ*	τ	-τ	-1	1	i	-i	-ω*	ω*	ω	-ω	τ*	-τ*	-τ	τ
GM16	1	-1	-i	i	ω	-ω	-ω*	ω*	τ	-τ	-τ*	τ*	-1	1	i	-i	-ω	ω	ω*	-ω*	-τ	τ	τ*	-τ*
GM17	1	-1	i	-i	ω*	-ω*	-ω	ω	τ*	-τ*	-τ	τ	-1	1	-i	i	-ω*	ω*	ω	-ω	-τ*	τ*	τ	-τ
GM18	1	-1	i	-i	ω	-ω	-ω*	ω*	-τ	τ	τ*	-τ*	-1	1	-i	i	-ω	ω	ω*	-ω*	τ	-τ	-τ*	τ*
GM19	1	1	-i	i	-1	-1	1	1	i	i	i	i	-1	-1	i	i	1	1	-1	-1	-i	-i	-i	-i
GM20	1	1	i	-i	-1	-1	1	1	-i	-i	-i	-i	-1	-1	-i	-i	1	1	-1	-1	i	i	i	i
GM21	1	1	-i	-i	ω*	ω*	-ω	-ω	τ*	τ*	-τ	-τ	-1	-1	i	i	-ω*	-ω*	ω	ω	-τ*	-τ*	τ	τ
GM22	1	1	-i	-i	ω	ω	-ω*	-ω*	-τ	-τ	τ*	τ*	-1	-1	i	i	-ω	-ω	ω*	ω*	τ	τ	-τ*	-τ*
GM23	1	1	i	i	ω*	ω*	-ω	-ω	-τ*	-τ*	τ	τ	-1	-1	-i	-i	-ω*	-ω*	ω	ω	τ*	τ*	-τ	-τ
GM24	1	1	i	i	ω	ω	-ω*	-ω*	τ	τ	-τ*	-τ*	-1	-1	-i	-i	-ω	-ω	ω*	ω*	-τ	-τ	τ*	τ*

$$-3_{001}^2 6^{-1} m^{\frac{1}{6}\pi} m^{\frac{2}{6}\pi} m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||-1\}$$

$$C_3: \{2_{010}||m_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}||m_{010}\}, \{^d2_{\frac{5}{6}\pi}||m_{\frac{1}{6}\pi}\}$$

$$C_4: \{2_{010}||2_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}||2_{010}\}, \{^d2_{\frac{5}{6}\pi}||2_{\frac{1}{6}\pi}\}$$

$$C_5: \{2_{\frac{1}{6}\pi}||m_{010}\}, \{2_{\frac{5}{6}\pi}||m_{\frac{1}{6}\pi}\}, \{^d2_{010}||m_{\frac{5}{6}\pi}\}$$

$$C_6: \{2_{\frac{1}{6}\pi}||2_{010}\}, \{2_{\frac{5}{6}\pi}||2_{\frac{1}{6}\pi}\}, \{^d2_{010}||2_{\frac{5}{6}\pi}\}$$

$$C_7: \{3_{001}^1||3_{001}^1\}, \{^d3_{001}^2||3_{001}^2\}$$

$$C_8: \{3_{001}^1||-3_{001}^1\}, \{^d3_{001}^2||-3_{001}^2\}$$

$$C_9: \{3_{001}^2||3_{001}^2\}, \{^d3_{001}^1||3_{001}^1\}$$

$$C_{10}: \{3_{001}^2||-3_{001}^2\}, \{^d3_{001}^1||-3_{001}^1\}$$

$$C_{11}: \{^d1||1\}$$

$$C_{12}: \{^d1||-1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	-2	0	0	0	0	-1	1	-1	1	2	-2
GM6	2	2	0	0	0	0	-1	-1	-1	-1	2	2
GM7	2	-2	0	0	0	0	1	-1	-1	1	-2	2
GM8	2	2	0	0	0	0	1	1	-1	-1	-2	-2
GM9GM10	2	-2	0	0	0	0	-2	2	2	-2	-2	2
GM11GM12	2	2	0	0	0	0	-2	-2	2	2	-2	-2

$$-6_{001}^5 6/m_{001} m^{\frac{1}{6}\pi} m^2_{100} m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||-1\}$$

$$C_3: \{2_{100}||m_{\frac{1}{6}\pi}\}, \{2_{\frac{2}{3}\pi}||m_{010}\}, \{^d2_{\frac{1}{3}\pi}||m_{\frac{5}{6}\pi}\}$$

$$C_4: \{2_{100}||2_{\frac{1}{6}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{010}\}, \{^d2_{\frac{1}{3}\pi}||2_{\frac{5}{6}\pi}\}$$

$$C_5: \{2_{\frac{1}{3}\pi}||m_{\frac{5}{6}\pi}\}, \{^d2_{100}||m_{\frac{1}{6}\pi}\}, \{^d2_{\frac{2}{3}\pi}||m_{010}\}$$

$$C_6: \{2_{\frac{1}{3}\pi}||2_{\frac{5}{6}\pi}\}, \{^d2_{100}||2_{\frac{1}{6}\pi}\}, \{^d2_{\frac{2}{3}\pi}||2_{010}\}$$

$$C_7: \{3_{001}^1||3_{001}^2\}, \{^d3_{001}^2||3_{001}^1\}$$

$$C_8: \{3_{001}^1||-3_{001}^2\}, \{^d3_{001}^2||-3_{001}^1\}$$

$$C_9: \{3_{001}^2||3_{001}^1\}, \{^d3_{001}^1||3_{001}^2\}$$

$$C_{10}: \{3_{001}^2||-3_{001}^1\}, \{^d3_{001}^1||-3_{001}^2\}$$

$$C_{11}: \{^d1||1\}$$

$$C_{12}: \{^d1||-1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	-2	0	0	0	0	-1	1	-1	1	2	-2
GM6	2	2	0	0	0	0	-1	-1	-1	-1	2	2
<u>GM7</u>	1	-1	-i	i	i	-i	-1	1	1	-1	-1	1
<u>GM8</u>	1	-1	i	-i	-i	i	-1	1	1	-1	-1	1
<u>GM9</u>	1	1	-i	-i	i	i	-1	-1	1	1	-1	-1
<u>GM10</u>	1	1	i	i	-i	-i	-1	-1	1	1	-1	-1
<u>GM11</u>	2	-2	0	0	0	0	1	-1	-1	1	-2	2
<u>GM12</u>	2	2	0	0	0	0	1	1	-1	-1	-2	-2

$$3_{001}^2 6/2_{001} m^2 \frac{1}{6} \pi m^2 \frac{5}{6} \pi m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{2_{001}||-1\}, \{^d 2_{001}||-1\}$
 $C_4: \{2_{001}||m_{001}\}, \{^d 2_{001}||m_{001}\}$
 $C_5: \{2_{010}||m_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{6}\pi}||m_{100}\}, \{2_{\frac{5}{6}\pi}||m_{\frac{2}{3}\pi}\}, \{^d 2_{010}||m_{\frac{1}{3}\pi}\}, \{^d 2_{\frac{1}{6}\pi}||m_{100}\}, \{^d 2_{\frac{5}{6}\pi}||m_{\frac{2}{3}\pi}\}$
 $C_6: \{2_{010}||m_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{6}\pi}||m_{010}\}, \{2_{\frac{5}{6}\pi}||m_{\frac{1}{6}\pi}\}, \{^d 2_{010}||m_{\frac{5}{6}\pi}\}, \{^d 2_{\frac{1}{6}\pi}||m_{010}\}, \{^d 2_{\frac{5}{6}\pi}||m_{\frac{1}{6}\pi}\}$
 $C_7: \{2_{100}||2_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi}||2_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{100}\}, \{^d 2_{100}||2_{\frac{1}{3}\pi}\}, \{^d 2_{\frac{1}{3}\pi}||2_{\frac{2}{3}\pi}\}, \{^d 2_{\frac{2}{3}\pi}||2_{100}\}$
 $C_8: \{2_{100}||2_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{3}\pi}||2_{\frac{1}{6}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{010}\}, \{^d 2_{100}||2_{\frac{5}{6}\pi}\}, \{^d 2_{\frac{1}{3}\pi}||2_{\frac{1}{6}\pi}\}, \{^d 2_{\frac{2}{3}\pi}||2_{010}\}$
 $C_9: \{3_{001}^1||3_{001}^1\}, \{^d 3_{001}^2||3_{001}^2\}$
 $C_{10}: \{3_{001}^1||6_{001}^5\}, \{^d 3_{001}^2||6_{001}^1\}$
 $C_{11}: \{3_{001}^2||3_{001}^2\}, \{^d 3_{001}^1||3_{001}^1\}$
 $C_{12}: \{3_{001}^2||6_{001}^1\}, \{^d 3_{001}^1||6_{001}^5\}$
 $C_{13}: \{6_{001}^1||-3_{001}^2\}, \{^d 6_{001}^5||-3_{001}^1\}$
 $C_{14}: \{6_{001}^1||-6_{001}^1\}, \{^d 6_{001}^5||-6_{001}^5\}$
 $C_{15}: \{6_{001}^5||-3_{001}^1\}, \{^d 6_{001}^1||-3_{001}^2\}$
 $C_{16}: \{6_{001}^5||-6_{001}^5\}, \{^d 6_{001}^1||-6_{001}^1\}$
 $C_{17}: \{^d 1||1\}$
 $C_{18}: \{^d 1||2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1
GM3	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1
GM4	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1
GM5	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM6	1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	1	1
GM7	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1
GM8	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1
GM9	2	-2	-2	2	0	0	0	0	-1	1	-1	1	1	-1	1	-1	2	-2
GM10	2	-2	2	-2	0	0	0	0	-1	1	-1	1	-1	1	-1	1	2	-2
GM11	2	2	-2	-2	0	0	0	0	-1	-1	-1	-1	1	1	1	1	2	2
GM12	2	2	2	2	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	2	2
GM13	2	2	0	0	0	0	0	0	-2	-2	2	2	0	0	0	0	-2	-2
GM14	2	-2	0	0	0	0	0	0	-2	2	2	-2	0	0	0	0	-2	2
GM15	2	-2	0	0	0	0	0	0	1	-1	-1	1	$\sqrt{3}$	$-\sqrt{3}$	$-\sqrt{3}$	$\sqrt{3}$	-2	2
GM16	2	-2	0	0	0	0	0	0	1	-1	-1	1	$-\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	$-\sqrt{3}$	-2	2
GM17	2	2	0	0	0	0	0	0	1	1	-1	-1	$\sqrt{3}$	$\sqrt{3}$	$-\sqrt{3}$	$-\sqrt{3}$	-2	-2
GM18	2	2	0	0	0	0	0	0	1	1	-1	-1	$-\sqrt{3}$	$-\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	-2	-2

$$3_{001}^2 6/2_{001} m \quad m_{\frac{2}{3}\pi}^2 m \quad m_{\frac{1}{3}\pi}^1 m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{2_{001}||-1\}$
 $C_4: \{2_{001}||m_{001}\}$
 $C_5: \{3_{001}^1||3_{001}^1\}$
 $C_6: \{3_{001}^1||6_{001}^5\}$
 $C_7: \{3_{001}^2||3_{001}^2\}$
 $C_8: \{3_{001}^2||6_{001}^1\}$
 $C_9: \{6_{001}^1||-3_{001}^2\}$
 $C_{10}: \{6_{001}^1||-6_{001}^1\}$
 $C_{11}: \{6_{001}^5||-3_{001}^1\}$
 $C_{12}: \{6_{001}^5||-6_{001}^5\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||2_{001}\}$
 $C_{15}: \{^d2_{001}||-1\}$
 $C_{16}: \{^d2_{001}||m_{001}\}$
 $C_{17}: \{^d3_{001}^1||3_{001}^1\}$
 $C_{18}: \{^d3_{001}^1||6_{001}^5\}$
 $C_{19}: \{^d3_{001}^2||3_{001}^2\}$
 $C_{20}: \{^d3_{001}^2||6_{001}^1\}$
 $C_{21}: \{^d6_{001}^1||-3_{001}^2\}$
 $C_{22}: \{^d6_{001}^1||-6_{001}^1\}$
 $C_{23}: \{^d6_{001}^5||-3_{001}^1\}$
 $C_{24}: \{^d6_{001}^5||-6_{001}^5\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-1	1	-ω	ω	-ω*	ω*	ω*	-ω*	ω	-ω	1	-1	-1	1	-ω	ω	-ω*	ω*	ω*	-ω*	ω	-ω
GM6	1	-1	-1	1	-ω*	ω*	-ω	ω	ω	-ω	ω*	-ω*	1	-1	-1	1	-ω*	ω*	-ω	ω	ω	-ω	ω	-ω*
GM7	1	-1	1	-1	-ω	ω	-ω*	ω*	-ω*	ω*	-ω	ω	1	-1	1	-1	-ω	ω	-ω*	ω*	-ω*	ω	ω	ω
GM8	1	-1	1	-1	-ω*	ω*	-ω	ω	-ω	ω	-ω*	ω*	1	-1	1	-1	-ω*	ω*	-ω	ω	-ω	ω	-ω*	ω*
GM9	1	1	-1	-1	-ω	-ω	-ω*	-ω*	ω*	ω*	ω	ω	1	1	-1	-1	-ω	-ω	-ω*	-ω*	ω*	ω*	ω	ω
GM10	1	1	-1	-1	-ω*	-ω*	-ω	-ω	ω	ω	ω*	ω*	1	1	-1	-1	-ω*	-ω*	-ω	-ω	ω	ω	ω*	ω*
GM11	1	1	1	1	-ω	-ω	-ω*	-ω*	-ω*	-ω*	-ω	-ω	1	1	1	1	-ω	-ω	-ω*	-ω*	-ω*	-ω*	-ω	-ω
GM12	1	1	1	1	-ω*	-ω*	-ω	-ω	-ω	-ω	-ω*	-ω*	1	1	1	1	-ω*	-ω*	-ω	-ω	-ω	-ω	-ω*	-ω*
GM13	1	-1	-i	i	-1	1	1	-1	i	-i	i	-i	-1	1	i	-i	1	-1	-1	1	-i	i	-i	i
GM14	1	-1	i	-i	-1	1	1	-1	-i	i	-i	i	-1	1	-i	i	1	-1	-1	1	i	-i	i	-i
GM15	1	-1	-i	i	ω*	-ω*	-ω	ω	τ*	-τ*	-τ	τ	-1	1	i	-i	-ω*	ω*	ω	-ω	-τ*	τ*	τ	-τ
GM16	1	-1	-i	i	ω	-ω	-ω*	ω*	-τ	τ	τ*	-τ*	-1	1	i	-i	-ω	ω	ω*	-ω*	τ	-τ	-τ*	τ*
GM17	1	-1	i	-i	ω*	-ω*	-ω	ω	-τ*	τ*	τ	-τ	-1	1	-i	i	-ω*	ω*	ω	-ω	τ*	-τ*	-τ	τ
GM18	1	-1	i	-i	ω	-ω	-ω*	ω*	τ	-τ	-τ*	τ*	-1	1	-i	i	-ω	ω	ω*	-ω*	-τ	τ	τ*	-τ*
GM19	1	1	-i	-i	-1	-1	1	1	i	i	i	i	-1	-1	i	i	1	1	-1	-1	-i	-i	-i	-i
GM20	1	1	i	i	-1	-1	1	1	-i	-i	-i	-i	-1	-1	-i	-i	1	1	-1	-1	i	i	i	i
GM21	1	1	-i	-i	ω*	ω*	-ω	-ω	τ*	τ*	-τ	-τ	-1	-1	i	i	-ω*	-ω*	ω	ω	-τ*	-τ*	τ	τ
GM22	1	1	-i	-i	ω	ω	-ω*	-ω*	-τ	-τ	τ*	τ*	-1	-1	i	i	-ω	-ω	ω*	ω*	τ	τ	-τ*	-τ*
GM23	1	1	i	i	ω*	ω*	-ω	-ω	-τ*	-τ*	τ	τ	-1	-1	-i	-i	-ω*	-ω*	ω	ω	τ*	τ*	-τ	-τ
GM24	1	1	i	i	ω	ω	-ω*	-ω*	τ	τ	-τ*	-τ*	-1	-1	-i	-i	-ω	-ω	ω*	ω*	-τ	-τ	τ*	τ*

$$3_{001}^2 6^{-1} m^{2\frac{1}{6}\pi} m^{2\frac{5}{6}\pi} m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{2_{010}||m_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{6}\pi}||m_{100}\}, \{^d2_{\frac{5}{6}\pi}||m_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{010}||m_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}||m_{010}\}, \{^d2_{\frac{5}{6}\pi}||m_{\frac{1}{6}\pi}\}$$

$$C_5: \{2_{\frac{1}{6}\pi}||m_{010}\}, \{2_{\frac{5}{6}\pi}||m_{\frac{1}{6}\pi}\}, \{^d2_{010}||m_{\frac{5}{6}\pi}\}$$

$$C_6: \{2_{\frac{1}{6}\pi}||m_{100}\}, \{2_{\frac{5}{6}\pi}||m_{\frac{2}{3}\pi}\}, \{^d2_{010}||m_{\frac{1}{3}\pi}\}$$

$$C_7: \{3_{001}^1||3_{001}^1\}, \{^d3_{001}^2||3_{001}^2\}$$

$$C_8: \{3_{001}^1||6_{001}^5\}, \{^d3_{001}^2||6_{001}^1\}$$

$$C_9: \{3_{001}^2||3_{001}^2\}, \{^d3_{001}^1||3_{001}^1\}$$

$$C_{10}: \{3_{001}^2||6_{001}^1\}, \{^d3_{001}^1||6_{001}^5\}$$

$$C_{11}: \{^d1||1\}$$

$$C_{12}: \{^d1||2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	-2	0	0	0	0	-1	1	-1	1	2	-2
GM6	2	2	0	0	0	0	-1	-1	-1	-1	2	2
GM7	2	-2	0	0	0	0	1	-1	-1	1	-2	2
GM8	2	2	0	0	0	0	1	1	-1	-1	-2	-2
GM9GM10	2	-2	0	0	0	0	-2	2	2	-2	-2	2
GM11GM12	2	2	0	0	0	0	-2	-2	2	2	-2	-2

$$3_{001}^2 6^{-1} m^{\frac{5}{6}\pi} m^{m_{010}} m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{2_{010}||2_{\frac{1}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}||2_{\frac{5}{6}\pi}\}, \{^d2_{\frac{5}{6}\pi}||2_{010}\}$$

$$C_4: \{2_{010}||2_{\frac{2}{3}\pi}\}, \{^d2_{\frac{1}{6}\pi}||2_{\frac{1}{3}\pi}\}, \{^d2_{\frac{5}{6}\pi}||2_{100}\}$$

$$C_5: \{2_{\frac{1}{6}\pi}||2_{\frac{1}{3}\pi}\}, \{2_{\frac{5}{6}\pi}||2_{100}\}, \{^d2_{010}||2_{\frac{2}{3}\pi}\}$$

$$C_6: \{2_{\frac{1}{6}\pi}||2_{\frac{5}{6}\pi}\}, \{2_{\frac{5}{6}\pi}||2_{010}\}, \{^d2_{010}||2_{\frac{1}{6}\pi}\}$$

$$C_7: \{3_{001}^1||3_{001}^1\}, \{^d3_{001}^2||3_{001}^2\}$$

$$C_8: \{3_{001}^1||6_{001}^5\}, \{^d3_{001}^2||6_{001}^1\}$$

$$C_9: \{3_{001}^2||3_{001}^2\}, \{^d3_{001}^1||3_{001}^1\}$$

$$C_{10}: \{3_{001}^2||6_{001}^1\}, \{^d3_{001}^1||6_{001}^5\}$$

$$C_{11}: \{^d1||1\}$$

$$C_{12}: \{^d1||2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	-2	0	0	0	0	-1	1	-1	1	2	-2
GM6	2	2	0	0	0	0	-1	-1	-1	-1	2	2
<u>GM7</u>	2	-2	0	0	0	0	1	-1	-1	1	-2	2
<u>GM8</u>	2	2	0	0	0	0	1	1	-1	-1	-2	-2
<u>GM9GM10</u>	2	-2	0	0	0	0	-2	2	2	-2	-2	2
<u>GM11GM12</u>	2	2	0	0	0	0	-2	-2	2	2	-2	-2

$$3_{001}^1 6/m_{001} m^5 \frac{5}{6} \pi m^1 \frac{1}{6} \pi m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{2_{100}||2_{\frac{1}{3}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{\frac{2}{3}\pi}\}, \{^d2_{\frac{1}{3}\pi}||2_{100}\}$$

$$C_4: \{2_{100}||2_{\frac{5}{6}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{\frac{1}{6}\pi}\}, \{^d2_{\frac{1}{3}\pi}||2_{010}\}$$

$$C_5: \{2_{\frac{1}{3}\pi}||2_{010}\}, \{^d2_{100}||2_{\frac{5}{6}\pi}\}, \{^d2_{\frac{2}{3}\pi}||2_{\frac{1}{6}\pi}\}$$

$$C_6: \{2_{\frac{1}{3}\pi}||2_{100}\}, \{^d2_{100}||2_{\frac{1}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}||2_{\frac{2}{3}\pi}\}$$

$$C_7: \{3_{001}^1||3_{001}^2\}, \{^d3_{001}^2||3_{001}^1\}$$

$$C_8: \{3_{001}^1||6_{001}^1\}, \{^d3_{001}^2||6_{001}^5\}$$

$$C_9: \{3_{001}^2||3_{001}^1\}, \{^d3_{001}^1||3_{001}^2\}$$

$$C_{10}: \{3_{001}^2||6_{001}^5\}, \{^d3_{001}^1||6_{001}^1\}$$

$$C_{11}: \{^d1||1\}$$

$$C_{12}: \{^d1||2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	-2	0	0	0	0	-1	1	-1	1	2	-2
GM6	2	2	0	0	0	0	-1	-1	-1	-1	2	2
<u>GM7</u>	1	-1	-i	i	-i	i	-1	1	1	-1	-1	1
<u>GM8</u>	1	-1	i	-i	i	-i	-1	1	1	-1	-1	1
<u>GM9</u>	1	1	-i	-i	i	i	-1	-1	1	1	-1	-1
<u>GM10</u>	1	1	i	i	-i	-i	-1	-1	1	1	-1	-1
<u>GM11</u>	2	-2	0	0	0	0	1	-1	-1	1	-2	2
<u>GM12</u>	2	2	0	0	0	0	1	1	-1	-1	-2	-2

$$3^1_{001}6/m_{001}m^2_{\frac{2}{3}\pi}m^2_{100}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{2_{100}||m_{\frac{1}{6}\pi}\}, \{2_{\frac{2}{3}\pi}||m_{010}\}, \{^d2_{\frac{1}{3}\pi}||m_{\frac{5}{6}\pi}\}$$

$$C_4: \{2_{100}||m_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}||m_{100}\}, \{^d2_{\frac{1}{3}\pi}||m_{\frac{1}{3}\pi}\}$$

$$C_5: \{2_{\frac{1}{3}\pi}||m_{\frac{1}{3}\pi}\}, \{^d2_{100}||m_{\frac{2}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}||m_{100}\}$$

$$C_6: \{2_{\frac{1}{3}\pi}||m_{\frac{5}{6}\pi}\}, \{^d2_{100}||m_{\frac{1}{6}\pi}\}, \{^d2_{\frac{2}{3}\pi}||m_{010}\}$$

$$C_7: \{3^1_{001}||3^2_{001}\}, \{^d3^2_{001}||3^1_{001}\}$$

$$C_8: \{3^1_{001}||6^1_{001}\}, \{^d3^2_{001}||6^5_{001}\}$$

$$C_9: \{3^2_{001}||3^1_{001}\}, \{^d3^1_{001}||3^2_{001}\}$$

$$C_{10}: \{3^2_{001}||6^5_{001}\}, \{^d3^1_{001}||6^1_{001}\}$$

$$C_{11}: \{^d1||1\}$$

$$C_{12}: \{^d1||2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	-2	0	0	0	0	-1	1	-1	1	2	-2
GM6	2	2	0	0	0	0	-1	-1	-1	-1	2	2
<u>GM7</u>	1	-1	-i	i	-i	i	-1	1	1	-1	-1	1
<u>GM8</u>	1	-1	i	-i	i	-i	-1	1	1	-1	-1	1
<u>GM9</u>	1	1	-i	-i	i	i	-1	-1	1	1	-1	-1
<u>GM10</u>	1	1	i	i	-i	-i	-1	-1	1	1	-1	-1
<u>GM11</u>	2	-2	0	0	0	0	1	-1	-1	1	-2	2
<u>GM12</u>	2	2	0	0	0	0	1	1	-1	-1	-2	-2

$$6_{001}^1 6_{/1}^1 m^{\frac{2}{6}\pi} m^{\frac{2}{3}\pi} m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||m_{001}\}$$

$$C_3: \{2_{001}||-1\}, \{^d2_{001}||-1\}$$

$$C_4: \{2_{001}||2_{001}\}, \{^d2_{001}||2_{001}\}$$

$$C_5: \{2_{010}||2_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{6}\pi}||2_{010}\}, \{2_{\frac{5}{6}\pi}||2_{\frac{1}{6}\pi}\}, \{^d2_{010}||2_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{6}\pi}||2_{010}\}, \{^d2_{\frac{5}{6}\pi}||2_{\frac{1}{6}\pi}\}$$

$$C_6: \{2_{010}||m_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{6}\pi}||m_{100}\}, \{2_{\frac{5}{6}\pi}||m_{\frac{2}{3}\pi}\}, \{^d2_{010}||m_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{6}\pi}||m_{100}\}, \{^d2_{\frac{5}{6}\pi}||m_{\frac{2}{3}\pi}\}$$

$$C_7: \{2_{100}||2_{\frac{1}{3}\pi}\}, \{2_{\frac{1}{3}\pi}||2_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{100}\}, \{^d2_{100}||2_{\frac{1}{3}\pi}\}, \{^d2_{\frac{1}{3}\pi}||2_{\frac{2}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}||2_{100}\}$$

$$C_8: \{2_{100}||m_{\frac{5}{6}\pi}\}, \{2_{\frac{1}{3}\pi}||m_{\frac{1}{6}\pi}\}, \{2_{\frac{2}{3}\pi}||m_{010}\}, \{^d2_{100}||m_{\frac{5}{6}\pi}\}, \{^d2_{\frac{1}{3}\pi}||m_{\frac{1}{6}\pi}\}, \{^d2_{\frac{2}{3}\pi}||m_{010}\}$$

$$C_9: \{3_{001}^1||-6_{001}^5\}, \{^d3_{001}^2||-6_{001}^1\}$$

$$C_{10}: \{3_{001}^1||3_{001}^1\}, \{^d3_{001}^2||3_{001}^2\}$$

$$C_{11}: \{3_{001}^2||-6_{001}^1\}, \{^d3_{001}^1||-6_{001}^5\}$$

$$C_{12}: \{3_{001}^2||3_{001}^2\}, \{^d3_{001}^1||3_{001}^1\}$$

$$C_{13}: \{6_{001}^1||-3_{001}^2\}, \{^d6_{001}^5||-3_{001}^1\}$$

$$C_{14}: \{6_{001}^1||6_{001}^1\}, \{^d6_{001}^5||6_{001}^5\}$$

$$C_{15}: \{6_{001}^5||-3_{001}^1\}, \{^d6_{001}^1||-3_{001}^2\}$$

$$C_{16}: \{6_{001}^5||6_{001}^5\}, \{^d6_{001}^1||6_{001}^1\}$$

$$C_{17}: \{^d1||1\}$$

$$C_{18}: \{^d1||m_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1
GM3	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1
GM4	1	-1	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1
GM5	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1
GM6	1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	1	1
GM7	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1
GM8	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1
GM9	2	-2	-2	2	0	0	0	0	1	-1	1	-1	1	-1	1	-1	2	-2
GM10	2	-2	2	-2	0	0	0	0	1	-1	1	-1	-1	1	-1	1	2	-2
GM11	2	2	-2	-2	0	0	0	0	-1	-1	-1	-1	1	1	1	1	2	2
GM12	2	2	2	2	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	2	2
GM13	2	2	0	0	0	0	0	0	-2	-2	2	2	0	0	0	0	-2	-2
GM14	2	-2	0	0	0	0	0	0	2	-2	-2	2	0	0	0	0	-2	2
GM15	2	-2	0	0	0	0	0	0	-1	1	1	-1	$\sqrt{3}$	$-\sqrt{3}$	$-\sqrt{3}$	$\sqrt{3}$	-2	2
GM16	2	-2	0	0	0	0	0	0	-1	1	1	-1	$-\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	$-\sqrt{3}$	-2	2
GM17	2	2	0	0	0	0	0	0	1	1	-1	-1	$\sqrt{3}$	$\sqrt{3}$	$-\sqrt{3}$	$-\sqrt{3}$	-2	-2
GM18	2	2	0	0	0	0	0	0	1	1	-1	-1	$-\sqrt{3}$	$-\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	-2	-2

$$6_{001}^1 6_{/1m}^1 m_{\frac{2}{3}\pi}^2 m_{\frac{5}{6}\pi}^5$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||m_{001}\}$
 $C_3: \{2_{001}||-1\}$
 $C_4: \{2_{001}||2_{001}\}$
 $C_5: \{3_{001}^1||-6_{001}^5\}$
 $C_6: \{3_{001}^1||3_{001}^1\}$
 $C_7: \{3_{001}^2||-6_{001}^1\}$
 $C_8: \{3_{001}^2||3_{001}^2\}$
 $C_9: \{6_{001}^1||-3_{001}^2\}$
 $C_{10}: \{6_{001}^1||6_{001}^1\}$
 $C_{11}: \{6_{001}^5||-3_{001}^1\}$
 $C_{12}: \{6_{001}^5||6_{001}^5\}$
 $C_{13}: \{d_1||1\}$
 $C_{14}: \{d_1||m_{001}\}$
 $C_{15}: \{d_2||-1\}$
 $C_{16}: \{d_2||2_{001}\}$
 $C_{17}: \{d_3||-6_{001}^5\}$
 $C_{18}: \{d_3||3_{001}^1\}$
 $C_{19}: \{d_3||-6_{001}^1\}$
 $C_{20}: \{d_3||3_{001}^2\}$
 $C_{21}: \{d_6||-3_{001}^2\}$
 $C_{22}: \{d_6||6_{001}^1\}$
 $C_{23}: \{d_6||-3_{001}^1\}$
 $C_{24}: \{d_6||6_{001}^5\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	-1	1	-1	1	-1	1	-1	1	-1	1
GM3	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	1	1	-1	-1	-1	1	1	-1	-1	1	1	1	1	1	-1	-1	-1	-1
GM5	1	-1	-1	1	ω^*	$-\omega^*$	ω	$-\omega$	ω	$-\omega$	ω^*	$-\omega^*$	1	-1	-1	1	ω^*	$-\omega^*$	ω	$-\omega$	ω	$-\omega$	ω^*	$-\omega^*$
GM6	1	-1	-1	1	ω	$-\omega$	ω^*	$-\omega^*$	ω^*	$-\omega^*$	ω	$-\omega$	1	-1	-1	1	ω	$-\omega$	ω^*	$-\omega^*$	ω^*	$-\omega^*$	ω	$-\omega$
GM7	1	-1	1	-1	ω^*	$-\omega^*$	ω	$-\omega$	$-\omega$	ω	$-\omega^*$	ω^*	1	-1	1	-1	ω^*	$-\omega^*$	ω	$-\omega$	$-\omega$	ω	$-\omega^*$	ω^*
GM8	1	-1	1	-1	ω	$-\omega$	ω^*	$-\omega^*$	$-\omega^*$	ω^*	$-\omega$	ω	1	-1	1	-1	ω	$-\omega$	ω^*	$-\omega^*$	$-\omega^*$	ω^*	$-\omega$	ω
GM9	1	1	-1	-1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	ω^*	ω^*	ω	ω	1	1	-1	-1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	ω^*	ω^*	ω	ω
GM10	1	1	-1	-1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	ω	ω	ω^*	ω^*	1	1	-1	-1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	ω	ω	ω^*	ω^*
GM11	1	1	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
GM12	1	1	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM13	1	-1	-i	i	1	-1	-1	1	i	-i	i	-i	-1	1	i	-i	-1	1	1	-1	-i	i	-i	i
GM14	1	-1	i	-i	1	-1	-1	1	-i	i	-i	i	-1	1	-i	i	-1	1	1	-1	i	-i	i	-i
GM15	1	-1	-i	i	$-\omega$	ω	ω^*	$-\omega^*$	$-\tau$	τ	τ^*	$-\tau^*$	-1	1	i	-i	ω	$-\omega$	$-\omega^*$	ω^*	τ	$-\tau$	$-\tau^*$	τ^*
GM16	1	-1	-i	i	$-\omega^*$	ω^*	ω	$-\omega$	τ^*	$-\tau^*$	$-\tau$	τ	-1	1	i	-i	ω^*	$-\omega^*$	$-\omega$	ω	$-\tau^*$	τ^*	τ	$-\tau$
GM17	1	-1	i	-i	$-\omega$	ω	ω^*	$-\omega^*$	τ	$-\tau$	$-\tau^*$	τ^*	-1	1	-i	i	ω	$-\omega$	$-\omega^*$	ω^*	$-\tau$	τ	τ^*	$-\tau^*$
GM18	1	-1	i	-i	$-\omega^*$	ω^*	ω	$-\omega$	$-\tau^*$	τ^*	τ	$-\tau$	-1	1	-i	i	ω^*	$-\omega^*$	$-\omega$	ω	τ^*	$-\tau^*$	$-\tau$	τ
GM19	1	1	-i	-i	-1	-1	1	1	i	i	i	i	-1	-1	i	i	1	1	-1	-1	-i	-i	-i	-i
GM20	1	1	i	i	-1	-1	1	1	-i	-i	-i	-i	-1	-1	-i	-i	1	1	-1	-1	i	i	i	i
GM21	1	1	-i	-i	ω^*	ω^*	$-\omega$	$-\omega$	τ^*	τ^*	$-\tau$	$-\tau$	-1	-1	i	i	$-\omega^*$	$-\omega^*$	ω	ω	$-\tau^*$	$-\tau^*$	τ	τ
GM22	1	1	-i	-i	ω	$-\omega$	$-\omega^*$	$-\omega^*$	$-\tau$	$-\tau$	τ^*	τ^*	-1	-1	i	i	$-\omega$	$-\omega$	ω^*	ω^*	τ	τ	$-\tau^*$	$-\tau^*$
GM23	1	1	i	i	ω^*	ω^*	$-\omega$	$-\omega$	$-\tau^*$	$-\tau^*$	τ	τ	-1	-1	-i	-i	$-\omega^*$	$-\omega^*$	ω	ω	τ^*	τ^*	$-\tau$	$-\tau$
GM24	1	1	i	i	ω	ω	$-\omega^*$	$-\omega^*$	τ	τ	$-\tau^*$	$-\tau^*$	-1	-1	-i	-i	$-\omega$	$-\omega$	ω^*	ω^*	$-\tau$	$-\tau$	τ^*	τ^*

$$-3_{001}^2 6/1 m^m \frac{5}{6} \pi m^2_{010} m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||m_{001}\}$$

$$C_3: \{2_{010}||2_{\frac{2}{3}}\pi\}, \{^d2_{\frac{1}{6}}\pi||2_{\frac{1}{3}}\pi\}, \{^d2_{\frac{5}{6}}\pi||2_{100}\}$$

$$C_4: \{2_{010}||m_{\frac{1}{6}}\pi\}, \{^d2_{\frac{1}{6}}\pi||m_{\frac{5}{6}}\pi\}, \{^d2_{\frac{5}{6}}\pi||m_{010}\}$$

$$C_5: \{2_{\frac{1}{6}}\pi||2_{\frac{1}{3}}\pi\}, \{2_{\frac{5}{6}}\pi||2_{100}\}, \{^d2_{010}||2_{\frac{2}{3}}\pi\}$$

$$C_6: \{2_{\frac{1}{6}}\pi||m_{\frac{5}{6}}\pi\}, \{2_{\frac{5}{6}}\pi||m_{010}\}, \{^d2_{010}||m_{\frac{1}{6}}\pi\}$$

$$C_7: \{3_{001}^1||-6_{001}^5\}, \{^d3_{001}^2||-6_{001}^1\}$$

$$C_8: \{3_{001}^1||3_{001}^1\}, \{^d3_{001}^2||3_{001}^2\}$$

$$C_9: \{3_{001}^2||-6_{001}^1\}, \{^d3_{001}^1||-6_{001}^5\}$$

$$C_{10}: \{3_{001}^2||3_{001}^2\}, \{^d3_{001}^1||3_{001}^1\}$$

$$C_{11}: \{^d1||1\}$$

$$C_{12}: \{^d1||m_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1
GM3	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1
GM4	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	-2	0	0	0	0	1	-1	1	-1	2	-2
GM6	2	2	0	0	0	0	-1	-1	-1	-1	2	2
<u>GM7</u>	2	-2	0	0	0	0	-1	1	1	-1	-2	2
<u>GM8</u>	2	2	0	0	0	0	1	1	-1	-1	-2	-2
<u>GM9GM10</u>	2	-2	0	0	0	0	2	-2	-2	2	-2	2
<u>GM11GM12</u>	2	2	0	0	0	0	-2	-2	2	2	-2	-2

$$-6_{001}^5 6/1 m^{2\frac{2}{3}\pi} m^{m010} m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||m_{001}\}$$

$$C_3: \{2_{100}||2_{\frac{1}{6}\pi}\}, \{2_{\frac{2}{3}\pi}||2_{010}\}, \{^d2_{\frac{1}{3}\pi}||2_{\frac{5}{6}\pi}\}$$

$$C_4: \{2_{100}||m_{\frac{2}{3}\pi}\}, \{2_{\frac{2}{3}\pi}||m_{100}\}, \{^d2_{\frac{1}{3}\pi}||m_{\frac{1}{3}\pi}\}$$

$$C_5: \{2_{\frac{1}{3}\pi}||2_{\frac{5}{6}\pi}\}, \{^d2_{100}||2_{\frac{1}{6}\pi}\}, \{^d2_{\frac{2}{3}\pi}||2_{010}\}$$

$$C_6: \{2_{\frac{1}{3}\pi}||m_{\frac{1}{3}\pi}\}, \{^d2_{100}||m_{\frac{2}{3}\pi}\}, \{^d2_{\frac{2}{3}\pi}||m_{100}\}$$

$$C_7: \{3_{001}^1||-6_{001}^1\}, \{^d3_{001}^2||-6_{001}^5\}$$

$$C_8: \{3_{001}^1||3_{001}^2\}, \{^d3_{001}^2||3_{001}^1\}$$

$$C_9: \{3_{001}^2||-6_{001}^5\}, \{^d3_{001}^1||-6_{001}^1\}$$

$$C_{10}: \{3_{001}^2||3_{001}^1\}, \{^d3_{001}^1||3_{001}^2\}$$

$$C_{11}: \{^d1||1\}$$

$$C_{12}: \{^d1||m_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1
GM3	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1
GM4	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	-2	0	0	0	0	1	-1	1	-1	2	-2
GM6	2	2	0	0	0	0	-1	-1	-1	-1	2	2
GM7	1	-1	-i	i	i	-i	1	-1	-1	1	-1	1
GM8	1	-1	i	-i	-i	i	1	-1	-1	1	-1	1
GM9	1	1	-i	-i	i	i	-1	-1	1	1	-1	-1
GM10	1	1	i	i	-i	-i	-1	-1	1	1	-1	-1
GM11	2	-2	0	0	0	0	-1	1	1	-1	-2	2
GM12	2	2	0	0	0	0	1	1	-1	-1	-2	-2

$$3_{001}^2 6/1 m^2 \frac{2}{3} \pi m^2 \frac{1}{3} \pi m$$

Classes:

- C₁: {1||1}
- C₂: {1||-1}
- C₃: {1||m₀₀₁}
- C₄: {1||2₀₀₁}
- C₅: {2₁₀₀||m _{$\frac{1}{3}\pi$} }, {2 _{$\frac{2}{3}\pi$} ||m₁₀₀}, {^d2 _{$\frac{1}{3}\pi$} ||m _{$\frac{2}{3}\pi$} }
- C₆: {2₁₀₀||m _{$\frac{5}{6}\pi$} }, {2 _{$\frac{2}{3}\pi$} ||m₀₁₀}, {^d2 _{$\frac{1}{3}\pi$} ||m _{$\frac{1}{6}\pi$} }
- C₇: {2₁₀₀||2 _{$\frac{1}{3}\pi$} }, {2 _{$\frac{2}{3}\pi$} ||2₁₀₀}, {^d2 _{$\frac{1}{3}\pi$} ||2 _{$\frac{2}{3}\pi$} }
- C₈: {2₁₀₀||2 _{$\frac{5}{6}\pi$} }, {2 _{$\frac{2}{3}\pi$} ||2₀₁₀}, {^d2 _{$\frac{1}{3}\pi$} ||2 _{$\frac{1}{6}\pi$} }
- C₉: {2 _{$\frac{1}{3}\pi$} ||m _{$\frac{1}{6}\pi$} }, {^d2₁₀₀||m _{$\frac{5}{6}\pi$} }, {^d2 _{$\frac{2}{3}\pi$} ||m₀₁₀}
- C₁₀: {2 _{$\frac{1}{3}\pi$} ||m _{$\frac{2}{3}\pi$} }, {^d2₁₀₀||m _{$\frac{1}{3}\pi$} }, {^d2 _{$\frac{2}{3}\pi$} ||m₁₀₀}
- C₁₁: {2 _{$\frac{1}{3}\pi$} ||2 _{$\frac{1}{6}\pi$} }, {^d2₁₀₀||2 _{$\frac{5}{6}\pi$} }, {^d2 _{$\frac{2}{3}\pi$} ||2₀₁₀}
- C₁₂: {2 _{$\frac{1}{3}\pi$} ||2 _{$\frac{2}{3}\pi$} }, {^d2₁₀₀||2 _{$\frac{1}{3}\pi$} }, {^d2 _{$\frac{2}{3}\pi$} ||2₁₀₀}
- C₁₃: {3₀₀₁¹||3₀₀₁¹}, {^d3₀₀₁²||3₀₀₁²}
- C₁₄: {3₀₀₁¹||6₀₀₁⁵}, {^d3₀₀₁²||6₀₀₁¹}
- C₁₅: {3₀₀₁¹||-3₀₀₁¹}, {^d3₀₀₁²||-3₀₀₁²}
- C₁₆: {3₀₀₁¹||-6₀₀₁⁵}, {^d3₀₀₁²||-6₀₀₁¹}
- C₁₇: {3₀₀₁²||3₀₀₁²}, {^d3₀₀₁¹||3₀₀₁¹}
- C₁₈: {3₀₀₁²||6₀₀₁¹}, {^d3₀₀₁¹||6₀₀₁⁵}
- C₁₉: {3₀₀₁²||-3₀₀₁²}, {^d3₀₀₁¹||-3₀₀₁¹}
- C₂₀: {3₀₀₁²||-6₀₀₁¹}, {^d3₀₀₁¹||-6₀₀₁⁵}
- C₂₁: {^d1||1}
- C₂₂: {^d1||-1}
- C₂₃: {^d1||m₀₀₁}
- C₂₄: {^d1||2₀₀₁}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	-1	-1	1
GM3	1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	-1	-1	1
GM4	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1
GM5	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1
GM6	1	1	-1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1
GM7	1	1	-1	-1	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1
GM8	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
GM9	2	-2	-2	2	0	0	0	0	0	0	0	0	-1	-1	1	1	-1	-1	1	1	2	-2	-2	2
GM10	2	-2	2	-2	0	0	0	0	0	0	0	0	-1	1	1	-1	-1	1	1	-1	2	-2	2	-2
GM11	2	2	-2	-2	0	0	0	0	0	0	0	0	-1	1	-1	1	-1	1	-1	1	2	2	-2	-2
GM12	2	2	2	2	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	2	2	2	2
GM13	1	-1	-1	1	-i	-i	i	i	i	i	-i	-i	-1	-1	1	1	1	1	-1	-1	-1	1	1	-1
GM14	1	-1	-1	1	i	i	-i	-i	-i	-i	i	i	-1	-1	1	1	1	1	-1	-1	-1	1	1	-1
GM15	1	-1	1	-1	-i	i	i	-i	-i	i	i	-i	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1
GM16	1	-1	1	-1	i	-i	-i	i	i	-i	-i	i	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1
GM17	1	1	-1	-1	-i	i	-i	i	-i	i	-i	i	-1	1	-1	1	1	-1	1	-1	-1	-1	1	1
GM18	1	1	-1	-1	i	-i	i	-i	i	-i	i	-i	-1	1	-1	1	1	-1	1	-1	-1	-1	1	1
GM19	1	1	1	1	-i	-i	-i	-i	i	i	i	i	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM20	1	1	1	1	i	i	i	i	-i	-i	-i	-i	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM21	2	-2	-2	2	0	0	0	0	0	0	0	0	1	1	-1	-1	-1	-1	1	1	-2	2	2	-2
GM22	2	-2	2	-2	0	0	0	0	0	0	0	0	1	-1	-1	1	-1	1	1	-1	-2	2	-2	2
GM23	2	2	-2	-2	0	0	0	0	0	0	0	0	1	-1	1	-1	-1	1	-1	1	-2	-2	2	2
GM24	2	2	2	2	0	0	0	0	0	0	0	0	1	1	1	1	-1	-1	-1	-1	-2	-2	-2	-2

$$3_{001}^2 6_1^1 m \frac{m}{6} \pi m \frac{m}{6} \pi m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||-1\}$
 $C_3: \{1||m_{001}\}$
 $C_4: \{1||2_{001}\}$
 $C_5: \{3_{001}^1||3_{001}^1\}$
 $C_6: \{3_{001}^1||6_{001}^5\}$
 $C_7: \{3_{001}^1||-3_{001}^1\}$
 $C_8: \{3_{001}^1||-6_{001}^5\}$
 $C_9: \{3_{001}^2||3_{001}^2\}$
 $C_{10}: \{3_{001}^2||6_{001}^1\}$
 $C_{11}: \{3_{001}^2||-3_{001}^2\}$
 $C_{12}: \{3_{001}^2||-6_{001}^1\}$
 $C_{13}: \{d_1||1\}$
 $C_{14}: \{d_1||-1\}$
 $C_{15}: \{d_1||m_{001}\}$
 $C_{16}: \{d_1||2_{001}\}$
 $C_{17}: \{d_3^1_{001}||3_{001}^1\}$
 $C_{18}: \{d_3^1_{001}||6_{001}^5\}$
 $C_{19}: \{d_3^1_{001}||-3_{001}^1\}$
 $C_{20}: \{d_3^1_{001}||-6_{001}^5\}$
 $C_{21}: \{d_3^2_{001}||3_{001}^2\}$
 $C_{22}: \{d_3^2_{001}||6_{001}^1\}$
 $C_{23}: \{d_3^2_{001}||-3_{001}^2\}$
 $C_{24}: \{d_3^2_{001}||-6_{001}^1\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	-1
GM3	1	-1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	1	-1	1	1	1	-1	-1	1
GM4	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1
GM5	1	-1	-1	1	- ω	- ω	ω	ω	- ω^*	- ω^*	ω^*	ω^*	1	-1	-1	1	- ω	- ω	ω	ω	- ω^*	- ω^*	ω^*	ω^*
GM6	1	-1	-1	1	- ω^*	- ω^*	ω^*	ω^*	- ω	- ω	ω	ω	1	-1	-1	1	- ω^*	- ω^*	ω^*	ω^*	- ω	- ω	ω	ω
GM7	1	-1	1	-1	- ω	ω	ω	- ω	- ω^*	ω^*	ω^*	- ω^*	1	-1	1	-1	- ω	ω	ω	- ω	- ω^*	ω^*	ω^*	- ω^*
GM8	1	-1	1	-1	- ω^*	ω^*	ω^*	- ω^*	- ω	ω	ω	- ω	1	-1	1	-1	- ω^*	ω^*	ω^*	- ω^*	- ω	ω	ω	- ω
GM9	1	1	-1	-1	- ω	ω	- ω	ω	- ω^*	ω^*	- ω^*	ω^*	1	1	-1	-1	- ω	ω	- ω	ω	- ω^*	ω^*	- ω^*	ω^*
GM10	1	1	-1	-1	- ω^*	ω^*	- ω^*	ω^*	- ω	ω	- ω	ω	1	1	-1	-1	- ω^*	ω^*	- ω^*	ω^*	- ω	ω	- ω	ω
GM11	1	1	1	1	- ω	- ω	- ω	- ω	- ω^*	- ω^*	- ω^*	- ω^*	1	1	1	1	- ω	- ω	- ω	- ω	- ω^*	- ω^*	- ω^*	- ω^*
GM12	1	1	1	1	- ω^*	- ω^*	- ω^*	- ω^*	- ω	- ω	- ω	- ω	1	1	1	1	- ω^*	- ω^*	- ω^*	- ω^*	- ω	- ω	- ω	- ω
GM13	1	-1	-1	1	-1	-1	1	1	1	1	-1	-1	-1	1	1	-1	1	1	-1	-1	-1	-1	1	1
GM14	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1
GM15	1	1	-1	-1	-1	1	-1	1	1	-1	1	-1	-1	-1	1	1	1	1	-1	-1	-1	1	1	-1
GM16	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM17	1	-1	-1	1	ω^*	ω^*	- ω^*	- ω^*	- ω	- ω	ω	ω	-1	1	1	-1	- ω^*	- ω^*	ω^*	ω^*	ω	ω	- ω	- ω
GM18	1	-1	-1	1	ω	ω	- ω	- ω	- ω^*	- ω^*	ω^*	ω^*	-1	1	1	-1	- ω	- ω	ω	ω^*	ω	ω^*	- ω^*	- ω^*
GM19	1	-1	1	-1	ω^*	- ω^*	- ω^*	- ω^*	- ω	ω	ω	- ω	-1	1	-1	1	- ω^*	ω^*	- ω^*	- ω^*	ω	- ω	- ω	ω
GM20	1	-1	1	-1	ω	- ω	- ω	ω	- ω^*	ω^*	ω^*	- ω^*	-1	1	-1	1	- ω	ω	ω	- ω	ω^*	- ω^*	- ω^*	ω^*
GM21	1	1	-1	-1	ω^*	- ω^*	ω^*	- ω^*	- ω	ω	ω	- ω	ω	-1	-1	1	1	- ω^*	ω^*	- ω^*	ω^*	ω	- ω	- ω
GM22	1	1	-1	-1	ω	- ω	ω	- ω	- ω^*	ω^*	- ω^*	- ω^*	-1	-1	1	1	- ω	ω	ω	ω^*	- ω^*	ω	ω^*	- ω^*
GM23	1	1	1	1	ω^*	ω^*	ω^*	ω^*	- ω	- ω	- ω	- ω	-1	-1	-1	-1	- ω^*	- ω^*	- ω^*	- ω^*	ω	ω	ω	ω
GM24	1	1	1	1	ω	ω	ω	ω	- ω^*	- ω^*	- ω^*	- ω^*	-1	-1	-1	-1	- ω	- ω	- ω	- ω	ω^*	ω^*	ω^*	ω^*

$$-16/m_{001}m_{210}^2m_{100}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{2_{001}\| -1\}, \{^d2_{001}\| -1\}$$

$$C_4: \{2_{001}\| -3_{001}^1\}, \{^d2_{001}\| -3_{001}^2\}$$

$$C_5: \{2_{001}\| -3_{001}^2\}, \{^d2_{001}\| -3_{001}^1\}$$

$$C_6: \{2_{010}\|2_{100}\}, \{2_{010}\|2_{\frac{1}{3}\pi}\}, \{2_{010}\|2_{\frac{2}{3}\pi}\}, \{^d2_{010}\|2_{100}\}, \{^d2_{010}\|2_{\frac{1}{3}\pi}\}, \{^d2_{010}\|2_{\frac{2}{3}\pi}\}$$

$$C_7: \{2_{100}\|m_{100}\}, \{2_{100}\|m_{\frac{1}{3}\pi}\}, \{2_{100}\|m_{\frac{2}{3}\pi}\}, \{^d2_{100}\|m_{100}\}, \{^d2_{100}\|m_{\frac{1}{3}\pi}\}, \{^d2_{100}\|m_{\frac{2}{3}\pi}\}$$

$$C_8: \{^d1\|1\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1
GM3	1	1	-1	-1	-1	1	-1	1	1
GM4	1	1	1	1	1	-1	-1	1	1
GM5	2	-1	-2	1	1	0	0	2	-1
GM6	2	-1	2	-1	-1	0	0	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8}}$	2	-1	0	$\sqrt{3}$	$-\sqrt{3}$	0	0	-2	1
$\overline{\text{GM9}}$	2	-1	0	$-\sqrt{3}$	$\sqrt{3}$	0	0	-2	1

$$m_{100}6/2_{001}m^{-1}m^2_{100}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$$

$$C_3: \{2_{001}\| - 6^1_{001}\}, \{^d2_{001}\| - 6^5_{001}\}$$

$$C_4: \{2_{001}\| - 6^5_{001}\}, \{^d2_{001}\| - 6^1_{001}\}$$

$$C_5: \{2_{001}\|m_{001}\}, \{^d2_{001}\|m_{001}\}$$

$$C_6: \{2_{010}\|2_{100}\}, \{2_{010}\|2_{\frac{1}{3}\pi}\}, \{2_{010}\|2_{\frac{2}{3}\pi}\}, \{^d2_{010}\|2_{100}\}, \{^d2_{010}\|2_{\frac{1}{3}\pi}\}, \{^d2_{010}\|2_{\frac{2}{3}\pi}\}$$

$$C_7: \{2_{100}\|m_{010}\}, \{2_{100}\|m_{\frac{1}{6}\pi}\}, \{2_{100}\|m_{\frac{5}{6}\pi}\}, \{^d2_{100}\|m_{010}\}, \{^d2_{100}\|m_{\frac{1}{6}\pi}\}, \{^d2_{100}\|m_{\frac{5}{6}\pi}\}$$

$$C_8: \{^d1\|1\}$$

$$C_9: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1
GM3	1	1	-1	-1	-1	1	-1	1	1
GM4	1	1	1	1	1	-1	-1	1	1
GM5	2	-1	-1	-1	2	0	0	2	-1
GM6	2	-1	1	1	-2	0	0	2	-1
<u>GM7</u>	2	2	0	0	0	0	0	-2	-2
<u>GM8GM9</u>	4	-2	0	0	0	0	0	-4	2

$$m_{100}6/m_{010}m^{m_{001}}m^{2_{010}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{2_{001}\| - 1\}, \{^d2_{001}\| - 1\}$$

$$C_4: \{2_{001}\| - 3_{001}^1\}, \{^d2_{001}\| - 3_{001}^2\}$$

$$C_5: \{2_{001}\| - 3_{001}^2\}, \{^d2_{001}\| - 3_{001}^1\}$$

$$C_6: \{2_{010}\|m_{010}\}, \{2_{010}\|m_{\frac{1}{6}\pi}\}, \{2_{010}\|m_{\frac{5}{6}\pi}\}, \{^d2_{010}\|m_{010}\}, \{^d2_{010}\|m_{\frac{1}{6}\pi}\}, \{^d2_{010}\|m_{\frac{5}{6}\pi}\}$$

$$C_7: \{2_{100}\|2_{010}\}, \{2_{100}\|2_{\frac{1}{6}\pi}\}, \{2_{100}\|2_{\frac{5}{6}\pi}\}, \{^d2_{100}\|2_{010}\}, \{^d2_{100}\|2_{\frac{1}{6}\pi}\}, \{^d2_{100}\|2_{\frac{5}{6}\pi}\}$$

$$C_8: \{^d1\|1\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1
GM3	1	1	-1	-1	-1	1	-1	1	1
GM4	1	1	1	1	1	-1	-1	1	1
GM5	2	-1	-2	1	1	0	0	2	-1
GM6	2	-1	2	-1	-1	0	0	2	-1
<u>GM7</u>	2	2	0	0	0	0	0	-2	-2
<u>GM8GM9</u>	4	-2	0	0	0	0	0	-4	2

$$m_{010}6^{-1}m_{2100}m_{m001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}, \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{010}\|-1\}, \{^d2_{010}\|-1\}$$

$$C_5: \{2_{010}\|-3_{001}^1\}, \{^d2_{010}\|-3_{001}^2\}$$

$$C_6: \{2_{010}\|-3_{001}^2\}, \{^d2_{010}\|-3_{001}^1\}$$

$$C_7: \{2_{100}\|m_{100}\}, \{2_{100}\|m_{\frac{1}{3}\pi}\}, \{2_{100}\|m_{\frac{2}{3}\pi}\}, \{^d2_{100}\|m_{100}\}, \{^d2_{100}\|m_{\frac{1}{3}\pi}\}, \{^d2_{100}\|m_{\frac{2}{3}\pi}\}$$

$$C_8: \{^d1\|1\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1
GM3	1	1	-1	1	1	1	-1	1	1
GM4	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-1	0	-2	1	1	0	2	-1
GM6	2	-1	0	2	-1	-1	0	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8}}$	2	-1	0	0	$\sqrt{3}$	$-\sqrt{3}$	0	-2	1
$\overline{\text{GM9}}$	2	-1	0	0	$-\sqrt{3}$	$\sqrt{3}$	0	-2	1

$2_{001}6/2_{010}m^m m_{010}m^m m_{100}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{2_{001}||2_{001}\}, \{^d2_{001}||2_{001}\}$
 $C_5: \{2_{001}||6_{001}^1\}, \{^d2_{001}||6_{001}^1\}$
 $C_6: \{2_{001}||6_{001}^5\}, \{^d2_{001}||6_{001}^5\}$
 $C_7: \{2_{010}||-6_{001}^1\}, \{^d2_{010}||-6_{001}^1\}$
 $C_8: \{2_{010}||-6_{001}^5\}, \{^d2_{010}||-6_{001}^5\}$
 $C_9: \{2_{010}||m_{001}\}, \{^d2_{010}||m_{001}\}$
 $C_{10}: \{2_{100}||-1\}, \{^d2_{100}||-1\}$
 $C_{11}: \{2_{100}||-3_{001}^1\}, \{^d2_{100}||-3_{001}^1\}$
 $C_{12}: \{2_{100}||-3_{001}^2\}, \{^d2_{100}||-3_{001}^2\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||3_{001}^1\}$
 $C_{15}: \{^d1||3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
GM3	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
GM5	1	$-\omega$	$-\omega^*$	-1	ω^*	ω	ω^*	ω	-1	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	-1	ω	ω^*	ω	ω^*	-1	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
GM7	1	$-\omega$	$-\omega^*$	-1	ω^*	ω	$-\omega^*$	$-\omega$	1	-1	ω	ω^*	1	$-\omega$	$-\omega^*$
GM8	1	$-\omega^*$	$-\omega$	-1	ω	ω^*	$-\omega$	$-\omega^*$	1	-1	ω^*	ω	1	$-\omega^*$	$-\omega$
GM9	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	ω^*	ω	-1	-1	ω	ω^*	1	$-\omega$	$-\omega^*$
GM10	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	ω	ω^*	-1	-1	ω^*	ω	1	$-\omega^*$	$-\omega$
GM11	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM12	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
GM13	2	2	2	0	0	0	0	0	0	0	0	0	-2	-2	-2
GM14	2	-2ω	$-2\omega^*$	0	0	0	0	0	0	0	0	0	-2	2ω	$2\omega^*$
GM15	2	$-2\omega^*$	-2ω	0	0	0	0	0	0	0	0	0	-2	$2\omega^*$	2ω

$2_{001}\bar{6}/^{-1}m^m m_{010}m^m m_{100}m$

Classes:

C₁: {1||1}

C₂: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₃: {2₀₀₁||2₀₀₁}, {^d2₀₀₁||2₀₀₁}

C₄: {2₀₀₁||6₀₀₁¹}, {^d2₀₀₁||6₀₀₁⁵}

C₅: {2₀₀₁||6₀₀₁⁵}, {^d2₀₀₁||6₀₀₁¹}

C₆: {2₀₁₀||2₀₁₀}, {2₀₁₀||2 _{$\frac{1}{6}\pi$} }, {2₀₁₀||2 _{$\frac{5}{6}\pi$} }, {^d2₀₁₀||2₀₁₀}, {^d2₀₁₀||2 _{$\frac{1}{6}\pi$} }, {^d2₀₁₀||2 _{$\frac{5}{6}\pi$} }

C₇: {2₁₀₀||2₁₀₀}, {2₁₀₀||2 _{$\frac{1}{3}\pi$} }, {2₁₀₀||2 _{$\frac{2}{3}\pi$} }, {^d2₁₀₀||2₁₀₀}, {^d2₁₀₀||2 _{$\frac{1}{3}\pi$} }, {^d2₁₀₀||2 _{$\frac{2}{3}\pi$} }

C₈: {^d1||1}

C₉: {^d1||3₀₀₁¹}, {^d1||3₀₀₁²}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1
GM3	1	1	-1	-1	-1	1	-1	1	1
GM4	1	1	1	1	1	-1	-1	1	1
GM5	2	-1	-2	1	1	0	0	2	-1
GM6	2	-1	2	-1	-1	0	0	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8}}$	2	-1	0	$\sqrt{3}$	$-\sqrt{3}$	0	0	-2	1
$\overline{\text{GM9}}$	2	-1	0	$-\sqrt{3}$	$\sqrt{3}$	0	0	-2	1

$$m_{010}6/2_{010}m^{m_{001}}m^2_{100}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}, \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{010}\| -6_{001}^1\}, \{^d2_{010}\| -6_{001}^5\}$$

$$C_5: \{2_{010}\| -6_{001}^5\}, \{^d2_{010}\| -6_{001}^1\}$$

$$C_6: \{2_{010}\|m_{001}\}, \{^d2_{010}\|m_{001}\}$$

$$C_7: \{2_{100}\|m_{010}\}, \{2_{100}\|m_{\frac{1}{6}\pi}\}, \{2_{100}\|m_{\frac{5}{6}\pi}\}, \{^d2_{100}\|m_{010}\}, \{^d2_{100}\|m_{\frac{1}{6}\pi}\}, \{^d2_{100}\|m_{\frac{5}{6}\pi}\}$$

$$C_8: \{^d1\|1\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1
GM3	1	1	-1	1	1	1	-1	1	1
GM4	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-1	0	-1	-1	2	0	2	-1
GM6	2	-1	0	1	1	-2	0	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8}}$	2	-1	0	$\sqrt{3}$	$-\sqrt{3}$	0	0	-2	1
$\overline{\text{GM9}}$	2	-1	0	$-\sqrt{3}$	$\sqrt{3}$	0	0	-2	1

$$-16/2_{100}\mathbf{m}^{\mathbf{m}_{010}}\mathbf{m}^{2_{010}}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}, \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{010}\|\mathbf{m}_{010}\}, \{2_{010}\|\mathbf{m}_{\frac{1}{6}\pi}\}, \{2_{010}\|\mathbf{m}_{\frac{5}{6}\pi}\}, \{^d2_{010}\|\mathbf{m}_{010}\}, \{^d2_{010}\|\mathbf{m}_{\frac{1}{6}\pi}\}, \{^d2_{010}\|\mathbf{m}_{\frac{5}{6}\pi}\}$$

$$C_5: \{2_{100}\| -6_{001}^1\}, \{^d2_{100}\| -6_{001}^5\}$$

$$C_6: \{2_{100}\| -6_{001}^5\}, \{^d2_{100}\| -6_{001}^1\}$$

$$C_7: \{2_{100}\|\mathbf{m}_{001}\}, \{^d2_{100}\|\mathbf{m}_{001}\}$$

$$C_8: \{^d1\|1\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	1	1
GM3	1	1	-1	1	-1	-1	-1	1	1
GM4	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-1	0	0	-1	-1	2	2	-1
GM6	2	-1	0	0	1	1	-2	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8}}$	2	-1	0	0	$\sqrt{3}$	$-\sqrt{3}$	0	-2	1
$\overline{\text{GM9}}$	2	-1	0	0	$-\sqrt{3}$	$\sqrt{3}$	0	-2	1

$2_{010}6/m_{100}m^{2_{001}}m^{2_{100}}m$

Classes:

C₁: {1||1}

C₂: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₃: {2₀₀₁||m₁₀₀}, {2₀₀₁||m _{$\frac{1}{3}\pi$} }, {2₀₀₁||m _{$\frac{2}{3}\pi$} }, {^d2₀₀₁||m₁₀₀}, {^d2₀₀₁||m _{$\frac{1}{3}\pi$} }, {^d2₀₀₁||m _{$\frac{2}{3}\pi$} }

C₄: {2₀₁₀||2₀₀₁}, {^d2₀₁₀||2₀₀₁}

C₅: {2₀₁₀||6₀₀₁¹}, {^d2₀₁₀||6₀₀₁⁵}

C₆: {2₀₁₀||6₀₀₁⁵}, {^d2₀₁₀||6₀₀₁¹}

C₇: {2₁₀₀||m₀₁₀}, {2₁₀₀||m _{$\frac{1}{6}\pi$} }, {2₁₀₀||m _{$\frac{5}{6}\pi$} }, {^d2₁₀₀||m₀₁₀}, {^d2₁₀₀||m _{$\frac{1}{6}\pi$} }, {^d2₁₀₀||m _{$\frac{5}{6}\pi$} }

C₈: {^d1||1}

C₉: {^d1||3₀₀₁¹}, {^d1||3₀₀₁²}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1
GM3	1	1	-1	1	1	1	-1	1	1
GM4	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-1	0	-2	1	1	0	2	-1
GM6	2	-1	0	2	-1	-1	0	2	-1
<u>GM7</u>	2	2	0	0	0	0	0	-2	-2
<u>GM8GM9</u>	4	-2	0	0	0	0	0	-4	2

$$2_{100}6/m_{010}m^m_{100}m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$$

$$C_3: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}, \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$$

$$C_4: \{2_{010}\|2_{100}\}, \{2_{010}\|2_{\frac{1}{3}\pi}\}, \{2_{010}\|2_{\frac{2}{3}\pi}\}, \{^d2_{010}\|2_{100}\}, \{^d2_{010}\|2_{\frac{1}{3}\pi}\}, \{^d2_{010}\|2_{\frac{2}{3}\pi}\}$$

$$C_5: \{2_{100}\|2_{001}\}, \{^d2_{100}\|2_{001}\}$$

$$C_6: \{2_{100}\|6^1_{001}\}, \{^d2_{100}\|6^5_{001}\}$$

$$C_7: \{2_{100}\|6^5_{001}\}, \{^d2_{100}\|6^1_{001}\}$$

$$C_8: \{^d1\|1\}$$

$$C_9: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	1	1
GM3	1	1	-1	1	-1	-1	-1	1	1
GM4	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-1	0	0	-2	1	1	2	-1
GM6	2	-1	0	0	2	-1	-1	2	-1
<u>GM7</u>	2	2	0	0	0	0	0	-2	-2
<u>GM8GM9</u>	4	-2	0	0	0	0	0	-4	2

$$m_{010}6/m_{001}m^2_{010}m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$$

$$C_3: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}, \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{010}\|m_{100}\}, \{2_{010}\|m_{\frac{1}{3}\pi}\}, \{2_{010}\|m_{\frac{2}{3}\pi}\}, \{^d2_{010}\|m_{100}\}, \{^d2_{010}\|m_{\frac{1}{3}\pi}\}, \{^d2_{010}\|m_{\frac{2}{3}\pi}\}$$

$$C_5: \{2_{100}\|-1\}, \{^d2_{100}\|-1\}$$

$$C_6: \{2_{100}\|-3^1_{001}\}, \{^d2_{100}\|-3^2_{001}\}$$

$$C_7: \{2_{100}\|-3^2_{001}\}, \{^d2_{100}\|-3^1_{001}\}$$

$$C_8: \{^d1\|1\}$$

$$C_9: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	1	1
GM3	1	1	-1	1	-1	-1	-1	1	1
GM4	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-1	0	0	-2	1	1	2	-1
GM6	2	-1	0	0	2	-1	-1	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8GM9}}$	4	-2	0	0	0	0	0	-4	2

$m_{001}6/m_{010}m^2_{010}m_{100}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$

$C_3: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}, \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$

$C_4: \{2_{010}\|m_{100}\}, \{2_{010}\|m_{\frac{1}{3}\pi}\}, \{2_{010}\|m_{\frac{2}{3}\pi}\}, \{^d2_{010}\|m_{100}\}, \{^d2_{010}\|m_{\frac{1}{3}\pi}\}, \{^d2_{010}\|m_{\frac{2}{3}\pi}\}$

$C_5: \{2_{100}\|-1\}, \{^d2_{100}\|-1\}$

$C_6: \{2_{100}\|-3^1_{001}\}, \{^d2_{100}\|-3^2_{001}\}$

$C_7: \{2_{100}\|-3^2_{001}\}, \{^d2_{100}\|-3^1_{001}\}$

$C_8: \{^d1\|1\}$

$C_9: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	1	1
GM3	1	1	-1	1	-1	-1	-1	1	1
GM4	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-1	0	0	-2	1	1	2	-1
GM6	2	-1	0	0	2	-1	-1	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8GM9}}$	4	-2	0	0	0	0	0	-4	2

$$2_{100}6/m_{100}m^2_{010}m^2_{001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$$

$$C_3: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{\frac{1}{6}\pi}\}, \{2_{001}\|m_{\frac{5}{6}\pi}\}, \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{\frac{1}{6}\pi}\}, \{^d2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_4: \{2_{010}\|m_{100}\}, \{2_{010}\|m_{\frac{1}{3}\pi}\}, \{2_{010}\|m_{\frac{2}{3}\pi}\}, \{^d2_{010}\|m_{100}\}, \{^d2_{010}\|m_{\frac{1}{3}\pi}\}, \{^d2_{010}\|m_{\frac{2}{3}\pi}\}$$

$$C_5: \{2_{100}\|2_{001}\}, \{^d2_{100}\|2_{001}\}$$

$$C_6: \{2_{100}\|6^1_{001}\}, \{^d2_{100}\|6^5_{001}\}$$

$$C_7: \{2_{100}\|6^5_{001}\}, \{^d2_{100}\|6^1_{001}\}$$

$$C_8: \{^d1\|1\}$$

$$C_9: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	1	1
GM3	1	1	-1	1	-1	-1	-1	1	1
GM4	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-1	0	0	-2	1	1	2	-1
GM6	2	-1	0	0	2	-1	-1	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8}}$	2	-1	0	0	0	$\sqrt{3}$	$-\sqrt{3}$	-2	1
$\overline{\text{GM9}}$	2	-1	0	0	0	$-\sqrt{3}$	$\sqrt{3}$	-2	1

$$2_{100}6/2_{001}m^m m_{100}m^{-1}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{2_{001}||-6_{001}^1\}, \{^d2_{001}||-6_{001}^1\}$
 $C_5: \{2_{001}||-6_{001}^5\}, \{^d2_{001}||-6_{001}^5\}$
 $C_6: \{2_{001}||m_{001}\}, \{^d2_{001}||m_{001}\}$
 $C_7: \{2_{010}||-1\}, \{^d2_{010}||-1\}$
 $C_8: \{2_{010}||-3_{001}^1\}, \{^d2_{010}||-3_{001}^1\}$
 $C_9: \{2_{010}||-3_{001}^2\}, \{^d2_{010}||-3_{001}^2\}$
 $C_{10}: \{2_{100}||2_{001}\}, \{^d2_{100}||2_{001}\}$
 $C_{11}: \{2_{100}||6_{001}^1\}, \{^d2_{100}||6_{001}^1\}$
 $C_{12}: \{2_{100}||6_{001}^5\}, \{^d2_{100}||6_{001}^5\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||3_{001}^1\}$
 $C_{15}: \{^d1||3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
GM3	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
GM5	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	-1	ω	ω^*	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$
GM6	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	-1	ω^*	ω	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$
GM7	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	$-\omega$	$-\omega^*$	-1	ω^*	ω	1	$-\omega$	$-\omega^*$
GM8	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	$-\omega^*$	$-\omega$	-1	ω	ω^*	1	$-\omega^*$	$-\omega$
GM9	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	-1	ω	ω^*	-1	ω^*	ω	1	$-\omega$	$-\omega^*$
GM10	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	-1	ω^*	ω	-1	ω	ω^*	1	$-\omega^*$	$-\omega$
GM11	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$
GM12	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$
GM13	2	2	2	0	0	0	0	0	0	0	0	0	-2	-2	-2
GM14	2	-2ω	$-2\omega^*$	0	0	0	0	0	0	0	0	0	-2	2ω	$2\omega^*$
GM15	2	$-2\omega^*$	-2ω	0	0	0	0	0	0	0	0	0	-2	$2\omega^*$	2ω

$$2_{100}\bar{6}/^{-1}\mathbf{m}2_{001}\mathbf{m}2_{010}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{2_{001}\|\mathbf{m}_{100}\}, \{2_{001}\|\mathbf{m}_{\frac{1}{3}\pi}\}, \{2_{001}\|\mathbf{m}_{\frac{2}{3}\pi}\}, \{^d2_{001}\|\mathbf{m}_{100}\}, \{^d2_{001}\|\mathbf{m}_{\frac{1}{3}\pi}\}, \{^d2_{001}\|\mathbf{m}_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{010}\|\mathbf{m}_{010}\}, \{2_{010}\|\mathbf{m}_{\frac{1}{6}\pi}\}, \{2_{010}\|\mathbf{m}_{\frac{5}{6}\pi}\}, \{^d2_{010}\|\mathbf{m}_{010}\}, \{^d2_{010}\|\mathbf{m}_{\frac{1}{6}\pi}\}, \{^d2_{010}\|\mathbf{m}_{\frac{5}{6}\pi}\}$$

$$C_5: \{2_{100}\|2_{001}\}, \{^d2_{100}\|2_{001}\}$$

$$C_6: \{2_{100}\|6_{001}^1\}, \{^d2_{100}\|6_{001}^5\}$$

$$C_7: \{2_{100}\|6_{001}^5\}, \{^d2_{100}\|6_{001}^1\}$$

$$C_8: \{^d1\|1\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	1	1
GM3	1	1	-1	1	-1	-1	-1	1	1
GM4	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-1	0	0	-2	1	1	2	-1
GM6	2	-1	0	0	2	-1	-1	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8}}$	2	-1	0	0	0	$\sqrt{3}$	$-\sqrt{3}$	-2	1
$\overline{\text{GM9}}$	2	-1	0	0	0	$-\sqrt{3}$	$\sqrt{3}$	-2	1

$2_{100}6/m_{100}m^{m_{001}}m^{m_{010}}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}, \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$

$C_4: \{2_{010}\|2_{010}\}, \{2_{010}\|2_{\frac{1}{6}\pi}\}, \{2_{010}\|2_{\frac{5}{6}\pi}\}, \{^d2_{010}\|2_{010}\}, \{^d2_{010}\|2_{\frac{1}{6}\pi}\}, \{^d2_{010}\|2_{\frac{5}{6}\pi}\}$

$C_5: \{2_{100}\|2_{001}\}, \{^d2_{100}\|2_{001}\}$

$C_6: \{2_{100}\|6_{001}^1\}, \{^d2_{100}\|6_{001}^5\}$

$C_7: \{2_{100}\|6_{001}^5\}, \{^d2_{100}\|6_{001}^1\}$

$C_8: \{^d1\|1\}$

$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9
GM1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	1	1	1
GM3	1	1	-1	1	-1	-1	-1	1	1
GM4	1	1	1	-1	-1	-1	-1	1	1
GM5	2	-1	0	0	-2	1	1	2	-1
GM6	2	-1	0	0	2	-1	-1	2	-1
$\overline{\text{GM7}}$	2	2	0	0	0	0	0	-2	-2
$\overline{\text{GM8}}$	2	-1	0	0	0	$\sqrt{3}$	$-\sqrt{3}$	-2	1
$\overline{\text{GM9}}$	2	-1	0	0	0	$-\sqrt{3}$	$\sqrt{3}$	-2	1

$2_{001}6/2_{001}m^2_{010}m^2_{100}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3^1_{001}\}, \{1||3^2_{001}\}$
 $C_3: \{1||-1\}$
 $C_4: \{1||-3^1_{001}\}, \{1||-3^2_{001}\}$
 $C_5: \{2_{001}||6^1_{001}\}, \{^d2_{001}||6^5_{001}\}$
 $C_6: \{2_{001}||6^5_{001}\}, \{^d2_{001}||6^1_{001}\}$
 $C_7: \{2_{001}||m_{001}\}, \{^d2_{001}||m_{001}\}$
 $C_8: \{2_{001}||-6^1_{001}\}, \{^d2_{001}||-6^5_{001}\}$
 $C_9: \{2_{001}||-6^5_{001}\}, \{^d2_{001}||-6^1_{001}\}$
 $C_{10}: \{2_{001}||2_{001}\}, \{^d2_{001}||2_{001}\}$
 $C_{11}: \{2_{010}||m_{100}\}, \{2_{010}||m_{\frac{1}{3}\pi}\}, \{2_{010}||m_{\frac{2}{3}\pi}\}, \{^d2_{010}||m_{100}\}, \{^d2_{010}||m_{\frac{1}{3}\pi}\}, \{^d2_{010}||m_{\frac{2}{3}\pi}\}$
 $C_{12}: \{2_{010}||2_{100}\}, \{2_{010}||2_{\frac{1}{3}\pi}\}, \{2_{010}||2_{\frac{2}{3}\pi}\}, \{^d2_{010}||2_{100}\}, \{^d2_{010}||2_{\frac{1}{3}\pi}\}, \{^d2_{010}||2_{\frac{2}{3}\pi}\}$
 $C_{13}: \{2_{100}||m_{010}\}, \{2_{100}||m_{\frac{1}{6}\pi}\}, \{2_{100}||m_{\frac{5}{6}\pi}\}, \{^d2_{100}||m_{010}\}, \{^d2_{100}||m_{\frac{1}{6}\pi}\}, \{^d2_{100}||m_{\frac{5}{6}\pi}\}$
 $C_{14}: \{2_{100}||2_{010}\}, \{2_{100}||2_{\frac{1}{6}\pi}\}, \{2_{100}||2_{\frac{5}{6}\pi}\}, \{^d2_{100}||2_{010}\}, \{^d2_{100}||2_{\frac{1}{6}\pi}\}, \{^d2_{100}||2_{\frac{5}{6}\pi}\}$
 $C_{15}: \{^d1||1\}$
 $C_{16}: \{^d1||3^1_{001}\}, \{^d1||3^2_{001}\}$
 $C_{17}: \{^d1||-1\}$
 $C_{18}: \{^d1||-3^1_{001}\}, \{^d1||-3^2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	-1	-1	1	1	-1	1	1	-1	-1
GM3	1	1	-1	-1	-1	-1	1	1	1	-1	1	-1	-1	1	1	1	-1	-1
GM4	1	1	-1	-1	1	1	-1	-1	-1	1	-1	1	-1	1	1	1	-1	-1
GM5	1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	1	-1	1	1	-1	-1
GM6	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
GM7	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1
GM8	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1
GM9	2	-1	-2	1	-1	-1	-2	1	1	2	0	0	0	0	2	-1	-2	1
GM10	2	-1	-2	1	1	1	2	-1	-1	-2	0	0	0	0	2	-1	-2	1
GM11	2	-1	2	-1	-1	-1	2	-1	-1	2	0	0	0	0	2	-1	2	-1
GM12	2	-1	2	-1	1	1	-2	1	1	-2	0	0	0	0	2	-1	2	-1
GM13	2	2	-2	-2	0	0	0	0	0	0	0	0	0	0	-2	-2	2	2
GM14	2	2	2	2	0	0	0	0	0	0	0	0	0	0	-2	-2	-2	-2
GM15	2	-1	-2	1	$\sqrt{3}$	$-\sqrt{3}$	0	$-\sqrt{3}$	$\sqrt{3}$	0	0	0	0	0	-2	1	2	-1
GM16	2	-1	-2	1	$-\sqrt{3}$	$\sqrt{3}$	0	$\sqrt{3}$	$-\sqrt{3}$	0	0	0	0	0	-2	1	2	-1
GM17	2	-1	2	-1	$\sqrt{3}$	$-\sqrt{3}$	0	$\sqrt{3}$	$-\sqrt{3}$	0	0	0	0	0	-2	1	-2	1
GM18	2	-1	2	-1	$-\sqrt{3}$	$\sqrt{3}$	0	$-\sqrt{3}$	$\sqrt{3}$	0	0	0	0	0	-2	1	-2	1

$$^{-1}6/^{-1}m^{2001}m^{m001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{1\|-1\}$$

$$C_4: \{1\|-3_{001}^1\}, \{1\|-3_{001}^2\}$$

$$C_5: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_6: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_9: \{^d1\|-1\}$$

$$C_{10}: \{^d1\|-3_{001}^1\}, \{^d1\|-3_{001}^2\}$$

$$C_{11}: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_{12}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-1	-2	1	0	0	2	-1	-2	1	0	0
GM6	2	-1	2	-1	0	0	2	-1	2	-1	0	0
GM7	2	-1	-2	1	0	0	-2	1	2	-1	0	0
GM8	2	-1	2	-1	0	0	-2	1	-2	1	0	0
GM9GM10	2	2	-2	-2	0	0	-2	-2	2	2	0	0
GM11GM12	2	2	2	2	0	0	-2	-2	-2	-2	0	0

$$2_{001}6/2_{001}m^{-1}m^m m_{001}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||-3_{001}^1\}$
 $C_6: \{1||-3_{001}^2\}$
 $C_7: \{2_{001}||6_{001}^1\}$
 $C_8: \{2_{001}||6_{001}^5\}$
 $C_9: \{2_{001}||m_{001}\}$
 $C_{10}: \{2_{001}||-6_{001}^1\}$
 $C_{11}: \{2_{001}||-6_{001}^5\}$
 $C_{12}: \{2_{001}||2_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||3_{001}^1\}$
 $C_{15}: \{^d1||3_{001}^2\}$
 $C_{16}: \{^d1||-1\}$
 $C_{17}: \{^d1||-3_{001}^1\}$
 $C_{18}: \{^d1||-3_{001}^2\}$
 $C_{19}: \{^d2_{001}||6_{001}^1\}$
 $C_{20}: \{^d2_{001}||6_{001}^5\}$
 $C_{21}: \{^d2_{001}||m_{001}\}$
 $C_{22}: \{^d2_{001}||-6_{001}^1\}$
 $C_{23}: \{^d2_{001}||-6_{001}^5\}$
 $C_{24}: \{^d2_{001}||2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	-1	-1	-1	-1	-1	1	1	1	-1
GM3	1	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM5	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	ω^*	ω	1	$-\omega^*$	$-\omega$	-1	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	ω^*	ω	1	$-\omega^*$	$-\omega$	-1
GM6	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	ω	ω^*	1	$-\omega$	$-\omega^*$	-1	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	ω	ω^*	1	$-\omega$	$-\omega^*$	-1
GM7	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	$-\omega^*$	$-\omega$	-1	ω^*	ω	1	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	$-\omega^*$	$-\omega$	-1	ω^*	ω	1
GM8	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	$-\omega$	$-\omega^*$	-1	ω	ω^*	1	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	$-\omega$	$-\omega^*$	-1	ω	ω^*	1
GM9	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	ω^*	ω	-1	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	ω^*	ω	-1
GM10	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	ω	ω^*	-1	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	ω	ω^*	-1
GM11	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1
GM12	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega$	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1
GM13GM14	2	2	2	-2	-2	-2	0	0	0	0	0	0	-2	-2	-2	2	2	2	0	0	0	0	0	0
GM15GM16	2	2	2	2	2	2	0	0	0	0	0	0	-2	-2	-2	-2	-2	-2	0	0	0	0	0	0
GM17GM18	2	-2ω	$-2\omega^*$	-2	2ω	$2\omega^*$	0	0	0	0	0	0	-2	2ω	$2\omega^*$	2	-2ω	$-2\omega^*$	0	0	0	0	0	0
GM19GM20	2	$-2\omega^*$	-2ω	-2	$2\omega^*$	2ω	0	0	0	0	0	0	-2	$2\omega^*$	2ω	2	$-2\omega^*$	-2ω	0	0	0	0	0	0
GM21GM22	2	-2ω	$-2\omega^*$	2	-2ω	$-2\omega^*$	0	0	0	0	0	0	-2	2ω	$2\omega^*$	-2	2ω	$2\omega^*$	0	0	0	0	0	0
GM23GM24	2	$-2\omega^*$	-2ω	2	$-2\omega^*$	-2ω	0	0	0	0	0	0	-2	$2\omega^*$	2ω	-2	$2\omega^*$	2ω	0	0	0	0	0	0

$$m_{001}6/m_{001}m^2_{001}m^{-1}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||3^1_{001}\}, \{1||3^2_{001}\}$$

$$C_3: \{1||-1\}$$

$$C_4: \{1||-3^1_{001}\}, \{1||-3^2_{001}\}$$

$$C_5: \{2_{001}||m_{100}\}, \{2_{001}||m_{\frac{1}{3}\pi}\}, \{2_{001}||m_{\frac{2}{3}\pi}\}$$

$$C_6: \{2_{001}||2_{100}\}, \{2_{001}||2_{\frac{1}{3}\pi}\}, \{2_{001}||2_{\frac{2}{3}\pi}\}$$

$$C_7: \{^d1||1\}$$

$$C_8: \{^d1||3^1_{001}\}, \{^d1||3^2_{001}\}$$

$$C_9: \{^d1||-1\}$$

$$C_{10}: \{^d1||-3^1_{001}\}, \{^d1||-3^2_{001}\}$$

$$C_{11}: \{^d2_{001}||m_{100}\}, \{^d2_{001}||m_{\frac{1}{3}\pi}\}, \{^d2_{001}||m_{\frac{2}{3}\pi}\}$$

$$C_{12}: \{^d2_{001}||2_{100}\}, \{^d2_{001}||2_{\frac{1}{3}\pi}\}, \{^d2_{001}||2_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-1	-2	1	0	0	2	-1	-2	1	0	0
GM6	2	-1	2	-1	0	0	2	-1	2	-1	0	0
<u>GM7GM7</u>	4	-2	-4	2	0	0	-4	2	4	-2	0	0
<u>GM8GM8</u>	4	-2	4	-2	0	0	-4	2	-4	2	0	0
<u>GM9GM10</u>	2	2	-2	-2	0	0	-2	-2	2	2	0	0
<u>GM11GM12</u>	2	2	2	2	0	0	-2	-2	-2	-2	0	0

$2_{001}6/2_{001}m^{m_{010}}m^{m_{100}}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||-3_{001}^1\}$
 $C_6: \{1||-3_{001}^2\}$
 $C_7: \{2_{001}||6_{001}^1\}$
 $C_8: \{2_{001}||6_{001}^5\}$
 $C_9: \{2_{001}||m_{001}\}$
 $C_{10}: \{2_{001}||-6_{001}^1\}$
 $C_{11}: \{2_{001}||-6_{001}^5\}$
 $C_{12}: \{2_{001}||2_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||3_{001}^1\}$
 $C_{15}: \{^d1||3_{001}^2\}$
 $C_{16}: \{^d1||-1\}$
 $C_{17}: \{^d1||-3_{001}^1\}$
 $C_{18}: \{^d1||-3_{001}^2\}$
 $C_{19}: \{^d2_{001}||6_{001}^1\}$
 $C_{20}: \{^d2_{001}||6_{001}^5\}$
 $C_{21}: \{^d2_{001}||m_{001}\}$
 $C_{22}: \{^d2_{001}||-6_{001}^1\}$
 $C_{23}: \{^d2_{001}||-6_{001}^5\}$
 $C_{24}: \{^d2_{001}||2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	-1	-1	1	1	1	-1	1	1	1	-1	-1	-1	-1	-1	1	1	1	-1
GM3	1	1	1	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM5	1	- ω	- ω^*	-1	ω	ω^*	ω^*	ω	1	- ω^*	- ω	-1	1	- ω	- ω^*	-1	ω	ω^*	ω^*	ω	1	- ω^*	- ω	-1
GM6	1	- ω^*	- ω	-1	ω^*	ω	ω	ω^*	1	- ω	- ω^*	-1	1	- ω^*	- ω	-1	ω^*	ω	ω	ω^*	1	- ω	- ω^*	-1
GM7	1	- ω	- ω^*	-1	ω	ω^*	- ω^*	- ω	-1	ω^*	ω	1	1	- ω	- ω^*	-1	ω	ω^*	- ω^*	- ω	-1	ω^*	ω	1
GM8	1	- ω^*	- ω	-1	ω^*	ω	- ω	- ω^*	-1	ω	ω^*	1	1	- ω^*	- ω	-1	ω^*	ω	- ω	- ω^*	-1	ω	ω^*	1
GM9	1	- ω	- ω^*	1	- ω	- ω^*	ω^*	ω	-1	ω^*	ω	-1	1	- ω	- ω^*	1	- ω	- ω^*	ω^*	ω	-1	ω^*	ω	-1
GM10	1	- ω^*	- ω	1	- ω^*	- ω	ω	ω^*	-1	ω	ω^*	-1	1	- ω^*	- ω	1	- ω^*	- ω	ω	ω^*	-1	ω	ω^*	-1
GM11	1	- ω	- ω^*	1	- ω	- ω^*	- ω^*	- ω	1	- ω^*	- ω	1	1	- ω	- ω^*	1	- ω	- ω^*	- ω^*	- ω	1	- ω^*	- ω	1
GM12	1	- ω^*	- ω	1	- ω^*	- ω	- ω	- ω^*	1	- ω	- ω^*	1	1	- ω^*	- ω	1	- ω^*	- ω	- ω	- ω^*	1	- ω	- ω^*	1
GM13	1	1	1	-1	-1	-1	-i	-i	i	i	i	-i	-1	-1	-1	1	1	1	i	i	-i	-i	-i	i
GM14	1	1	1	-1	-1	-1	i	i	-i	-i	-i	i	-1	-1	-1	1	1	1	-i	-i	i	i	i	-i
GM15	1	1	1	1	1	1	-i	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i	i	i
GM16	1	1	1	1	1	1	i	i	i	i	i	-1	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i	-i
GM17	1	- ω	- ω^*	-1	ω	ω^*	τ	- τ^*	i	- τ	τ^*	-i	-1	ω	ω^*	1	- ω	- ω^*	- τ	τ^*	-i	τ	- τ^*	i
GM18	1	- ω	- ω^*	-1	ω	ω^*	- τ	τ^*	-i	τ	- τ^*	i	-1	ω	ω^*	1	- ω	- ω^*	τ	- τ^*	i	- τ	τ^*	-i
GM19	1	- ω^*	- ω	-1	ω^*	ω	- τ^*	τ	i	τ^*	- τ	-i	-1	ω^*	ω	1	- ω^*	- ω	τ^*	- τ	-i	τ^*	τ	i
GM20	1	- ω^*	- ω	-1	ω^*	ω	τ^*	- τ	-i	- τ^*	τ	i	-1	ω^*	ω	1	- ω^*	- ω	- τ^*	τ	i	τ^*	- τ	-i
GM21	1	- ω	- ω^*	1	- ω	- ω^*	τ	- τ^*	-i	τ	- τ^*	-i	-1	ω	ω^*	-1	ω	ω^*	- τ	τ^*	i	- τ	τ^*	i
GM22	1	- ω	- ω^*	1	- ω	- ω^*	- τ	τ^*	i	- τ	τ^*	i	-1	ω	ω^*	-1	ω	ω^*	τ	- τ^*	-i	τ	- τ^*	-i
GM23	1	- ω^*	- ω	1	- ω^*	- ω	- τ^*	τ	-i	- τ^*	τ	-i	-1	ω^*	ω	-1	ω^*	ω	τ^*	- τ	i	τ^*	- τ	i
GM24	1	- ω^*	- ω	1	- ω^*	- ω	τ^*	- τ	i	τ^*	- τ	i	-1	ω^*	ω	-1	ω^*	ω	- τ^*	τ	-i	- τ^*	τ	-i

$m_{100}6/m_{100}m^2_{001}m^{m_{010}}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$
 $C_3: \{1\|-1\}$
 $C_4: \{1\|-3^1_{001}\}, \{1\|-3^2_{001}\}$
 $C_5: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$
 $C_6: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$
 $C_9: \{^d1\|-1\}$
 $C_{10}: \{^d1\|-3^1_{001}\}, \{^d1\|-3^2_{001}\}$
 $C_{11}: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$
 $C_{12}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-1	-2	1	0	0	2	-1	-2	1	0	0
GM6	2	-1	2	-1	0	0	2	-1	2	-1	0	0
<u>GM7</u>	1	1	-1	-1	-i	i	-1	-1	1	1	i	-i
<u>GM8</u>	1	1	-1	-1	i	-i	-1	-1	1	1	-i	i
<u>GM9</u>	1	1	1	1	-i	-i	-1	-1	-1	-1	i	i
<u>GM10</u>	1	1	1	1	i	i	-1	-1	-1	-1	-i	-i
<u>GM11</u>	2	-1	-2	1	0	0	-2	1	2	-1	0	0
<u>GM12</u>	2	-1	2	-1	0	0	-2	1	-2	1	0	0

$2_{001}6/2_{100}m^2_{100}m^2_{010}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{010}\}, \{1||2_{\frac{1}{6}\pi}\}, \{1||2_{\frac{5}{6}\pi}\}$

$C_3: \{1||3_{001}^1\}, \{1||3_{001}^2\}$

$C_4: \{2_{001}||2_{001}\}, \{^d2_{001}||2_{001}\}$

$C_5: \{2_{001}||2_{100}\}, \{2_{001}||2_{\frac{1}{3}\pi}\}, \{2_{001}||2_{\frac{2}{3}\pi}\}, \{^d2_{001}||2_{100}\}, \{^d2_{001}||2_{\frac{1}{3}\pi}\}, \{^d2_{001}||2_{\frac{2}{3}\pi}\}$

$C_6: \{2_{001}||6_{001}^1\}, \{2_{001}||6_{001}^5\}, \{^d2_{001}||6_{001}^1\}, \{^d2_{001}||6_{001}^5\}$

$C_7: \{2_{010}||-1\}, \{^d2_{010}||-1\}$

$C_8: \{2_{010}||-3_{001}^1\}, \{2_{010}||-3_{001}^2\}, \{^d2_{010}||-3_{001}^1\}, \{^d2_{010}||-3_{001}^2\}$

$C_9: \{2_{010}||m_{010}\}, \{2_{010}||m_{\frac{1}{6}\pi}\}, \{2_{010}||m_{\frac{5}{6}\pi}\}, \{^d2_{010}||m_{010}\}, \{^d2_{010}||m_{\frac{1}{6}\pi}\}, \{^d2_{010}||m_{\frac{5}{6}\pi}\}$

$C_{10}: \{2_{100}||-6_{001}^1\}, \{2_{100}||-6_{001}^5\}, \{^d2_{100}||-6_{001}^1\}, \{^d2_{100}||-6_{001}^5\}$

$C_{11}: \{2_{100}||m_{001}\}, \{^d2_{100}||m_{001}\}$

$C_{12}: \{2_{100}||m_{100}\}, \{2_{100}||m_{\frac{1}{3}\pi}\}, \{2_{100}||m_{\frac{2}{3}\pi}\}, \{^d2_{100}||m_{100}\}, \{^d2_{100}||m_{\frac{1}{3}\pi}\}, \{^d2_{100}||m_{\frac{2}{3}\pi}\}$

$C_{13}: \{^d1||1\}$

$C_{14}: \{^d1||2_{010}\}, \{^d1||2_{\frac{1}{6}\pi}\}, \{^d1||2_{\frac{5}{6}\pi}\}$

$C_{15}: \{^d1||3_{001}^1\}, \{^d1||3_{001}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	-1	-1	1	1	1	-1	1	-1	1
GM3	1	-1	1	-1	1	-1	1	1	-1	-1	-1	1	1	-1	1
GM4	1	-1	1	1	-1	1	-1	-1	1	-1	-1	1	1	-1	1
GM5	1	-1	1	1	-1	1	1	1	-1	1	1	-1	1	-1	1
GM6	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
GM7	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
GM9	2	0	-1	-2	0	1	-2	1	0	-1	2	0	2	0	-1
GM10	2	0	-1	-2	0	1	2	-1	0	1	-2	0	2	0	-1
GM11	2	0	-1	2	0	-1	-2	1	0	1	-2	0	2	0	-1
GM12	2	0	-1	2	0	-1	2	-1	0	-1	2	0	2	0	-1
$\overline{\text{GM13}}$	2	-2	2	0	0	0	0	0	0	0	0	0	-2	2	-2
$\overline{\text{GM14}}$	2	2	2	0	0	0	0	0	0	0	0	0	-2	-2	-2
$\overline{\text{GM15}}$	4	0	-2	0	0	0	0	0	0	0	0	0	-4	0	2

$2_{001}6^{-1}m^{-1}m^{m001}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||2_{010}\}, \{1||2_{\frac{1}{6}\pi}\}, \{1||2_{\frac{5}{6}\pi}\}$

$C_3: \{1||3_{001}^1\}, \{1||3_{001}^2\}$

$C_4: \{2_{001}||2_{001}\}$

$C_5: \{2_{001}||2_{100}\}, \{2_{001}||2_{\frac{1}{3}\pi}\}, \{2_{001}||2_{\frac{2}{3}\pi}\}$

$C_6: \{2_{001}||6_{001}^1\}, \{2_{001}||6_{001}^5\}$

$C_7: \{^d1||1\}$

$C_8: \{^d1||2_{010}\}, \{^d1||2_{\frac{1}{6}\pi}\}, \{^d1||2_{\frac{5}{6}\pi}\}$

$C_9: \{^d1||3_{001}^1\}, \{^d1||3_{001}^2\}$

$C_{10}: \{^d2_{001}||2_{001}\}$

$C_{11}: \{^d2_{001}||2_{100}\}, \{^d2_{001}||2_{\frac{1}{3}\pi}\}, \{^d2_{001}||2_{\frac{2}{3}\pi}\}$

$C_{12}: \{^d2_{001}||6_{001}^1\}, \{^d2_{001}||6_{001}^5\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	1	-1	1	1	-1	1	1	-1	1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	0	-1	-2	0	1	2	0	-1	-2	0	1
GM6	2	0	-1	2	0	-1	2	0	-1	2	0	-1
<u>GM7GM8</u>	2	-2	2	0	0	0	-2	2	-2	0	0	0
<u>GM9GM10</u>	2	2	2	0	0	0	-2	-2	-2	0	0	0
<u>GM11GM12</u>	4	0	-2	0	0	0	-4	0	2	0	0	0

$$m_{001}6/2_{001}m^{2_{001}}m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$$

$$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_4: \{2_{001}\| -6_{001}^1\}, \{2_{001}\| -6_{001}^5\}$$

$$C_5: \{2_{001}\|m_{001}\}$$

$$C_6: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_{10}: \{^d2_{001}\| -6_{001}^1\}, \{^d2_{001}\| -6_{001}^5\}$$

$$C_{11}: \{^d2_{001}\|m_{001}\}$$

$$C_{12}: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	1	1	-1	1	-1	1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	0	-1	1	-2	0	2	0	-1	1	-2	0
GM6	2	0	-1	-1	2	0	2	0	-1	-1	2	0
<u>GM7GM8</u>	2	-2	2	0	0	0	-2	2	-2	0	0	0
<u>GM9GM10</u>	2	2	2	0	0	0	-2	-2	-2	0	0	0
<u>GM11GM12</u>	4	0	-2	0	0	0	-4	0	2	0	0	0

$$-16/m_{001}m^{m_{001}}m^{2_{001}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$$

$$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_4: \{2_{001}\| -1\}$$

$$C_5: \{2_{001}\| -3_{001}^1\}, \{2_{001}\| -3_{001}^2\}$$

$$C_6: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{\frac{1}{6}\pi}\}, \{2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_{10}: \{^d2_{001}\| -1\}$$

$$C_{11}: \{^d2_{001}\| -3_{001}^1\}, \{^d2_{001}\| -3_{001}^2\}$$

$$C_{12}: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{\frac{1}{6}\pi}\}, \{^d2_{001}\|m_{\frac{5}{6}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	1	1	-1	1	-1	1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	0	-1	-2	1	0	2	0	-1	-2	1	0
GM6	2	0	-1	2	-1	0	2	0	-1	2	-1	0
<u>GM7GM8</u>	2	-2	2	0	0	0	-2	2	-2	0	0	0
<u>GM9GM10</u>	2	2	2	0	0	0	-2	-2	-2	0	0	0
<u>GM11GM12</u>	4	0	-2	0	0	0	-4	0	2	0	0	0

$$2_{001}6/m_{001}m^{m_{001}}m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$$

$$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_4: \{2_{001}\|2_{001}\}$$

$$C_5: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$$

$$C_6: \{2_{001}\|6_{001}^1\}, \{2_{001}\|6_{001}^5\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_{10}: \{^d2_{001}\|2_{001}\}$$

$$C_{11}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$$

$$C_{12}: \{^d2_{001}\|6_{001}^1\}, \{^d2_{001}\|6_{001}^5\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	1	-1	1	1	-1	1	1	-1	1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	0	-1	-2	0	1	2	0	-1	-2	0	1
GM6	2	0	-1	2	0	-1	2	0	-1	2	0	-1
<u>GM7GM8</u>	2	-2	2	0	0	0	-2	2	-2	0	0	0
<u>GM9GM10</u>	2	2	2	0	0	0	-2	-2	-2	0	0	0
<u>GM11GM12</u>	4	0	-2	0	0	0	-4	0	2	0	0	0

$$m_{001}6^{-1}m^{-1}m^{2_{001}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$$

$$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_4: \{2_{001}\| -1\}$$

$$C_5: \{2_{001}\| -3_{001}^1\}, \{2_{001}\| -3_{001}^2\}$$

$$C_6: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{\frac{1}{6}\pi}\}, \{2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_{10}: \{^d2_{001}\| -1\}$$

$$C_{11}: \{^d2_{001}\| -3_{001}^1\}, \{^d2_{001}\| -3_{001}^2\}$$

$$C_{12}: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{\frac{1}{6}\pi}\}, \{^d2_{001}\|m_{\frac{5}{6}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	1	1	-1	1	-1	1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	0	-1	-2	1	0	2	0	-1	-2	1	0
GM6	2	0	-1	2	-1	0	2	0	-1	2	-1	0
<u>GM7GM8</u>	2	-2	2	0	0	0	-2	2	-2	0	0	0
<u>GM9GM10</u>	2	2	2	0	0	0	-2	-2	-2	0	0	0
<u>GM11GM12</u>	4	0	-2	0	0	0	-4	0	2	0	0	0

$$^{-1}6/2_{001}m^2_{001}m^{m_{001}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$$

$$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_4: \{2_{001}\| -6_{001}^1\}, \{2_{001}\| -6_{001}^5\}$$

$$C_5: \{2_{001}\|m_{001}\}$$

$$C_6: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_{10}: \{^d2_{001}\| -6_{001}^1\}, \{^d2_{001}\| -6_{001}^5\}$$

$$C_{11}: \{^d2_{001}\|m_{001}\}$$

$$C_{12}: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	1	1	-1	1	-1	1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	0	-1	1	-2	0	2	0	-1	1	-2	0
GM6	2	0	-1	-1	2	0	2	0	-1	-1	2	0
<u>GM7GM8</u>	2	-2	2	0	0	0	-2	2	-2	0	0	0
<u>GM9GM10</u>	2	2	2	0	0	0	-2	-2	-2	0	0	0
<u>GM11GM12</u>	4	0	-2	0	0	0	-4	0	2	0	0	0

$2_{001}\bar{6}/m_{100}m_{100}m_{010}m$

Classes:

C₁: {1||1}

C₂: {1||2₀₁₀}, {1||2 _{$\frac{1}{6}\pi$} }, {1||2 _{$\frac{5}{6}\pi$} }

C₃: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₄: {2₀₀₁||2₀₀₁}

C₅: {2₀₀₁||2₁₀₀}, {2₀₀₁||2 _{$\frac{1}{3}\pi$} }, {2₀₀₁||2 _{$\frac{2}{3}\pi$} }

C₆: {2₀₀₁||6₀₀₁¹}, {2₀₀₁||6₀₀₁⁵}

C₇: {^d1||1}

C₈: {^d1||2₀₁₀}, {^d1||2 _{$\frac{1}{6}\pi$} }, {^d1||2 _{$\frac{5}{6}\pi$} }

C₉: {^d1||3₀₀₁¹}, {^d1||3₀₀₁²}

C₁₀: {^d2₀₀₁||2₀₀₁}

C₁₁: {^d2₀₀₁||2₁₀₀}, {^d2₀₀₁||2 _{$\frac{1}{3}\pi$} }, {^d2₀₀₁||2 _{$\frac{2}{3}\pi$} }

C₁₂: {^d2₀₀₁||6₀₀₁¹}, {^d2₀₀₁||6₀₀₁⁵}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	1	-1	1	1	-1	1	1	-1	1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	0	-1	-2	0	1	2	0	-1	-2	0	1
GM6	2	0	-1	2	0	-1	2	0	-1	2	0	-1
GM7	1	-1	1	-i	i	-i	-1	1	-1	i	-i	i
GM8	1	-1	1	i	-i	i	-1	1	-1	-i	i	-i
GM9	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
GM10	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
GM11	2	0	-1	2i	0	-i	-2	0	1	-2i	0	i
GM12	2	0	-1	-2i	0	i	-2	0	1	2i	0	-i

$$m_{010}6/2_{001}m^{2_{001}}m^{m_{100}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$$

$$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_4: \{2_{001}\| -6_{001}^1\}, \{2_{001}\| -6_{001}^5\}$$

$$C_5: \{2_{001}\|m_{001}\}$$

$$C_6: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_{10}: \{^d2_{001}\| -6_{001}^1\}, \{^d2_{001}\| -6_{001}^5\}$$

$$C_{11}: \{^d2_{001}\|m_{001}\}$$

$$C_{12}: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	1	1	-1	1	-1	1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	0	-1	1	-2	0	2	0	-1	1	-2	0
GM6	2	0	-1	-1	2	0	2	0	-1	-1	2	0
<u>GM7</u>	1	-1	1	-i	-i	i	-1	1	-1	i	i	-i
<u>GM8</u>	1	-1	1	i	i	-i	-1	1	-1	-i	-i	i
<u>GM9</u>	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
<u>GM10</u>	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
<u>GM11</u>	2	0	-1	-i	2i	0	-2	0	1	i	-2i	0
<u>GM12</u>	2	0	-1	i	-2i	0	-2	0	1	-i	2i	0

$m_{100}6/m_{010}m_{010}m_{200}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$

$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_4: \{2_{001}\| -1\}$

$C_5: \{2_{001}\| -3_{001}^1\}, \{2_{001}\| -3_{001}^2\}$

$C_6: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{\frac{1}{6}\pi}\}, \{2_{001}\|m_{\frac{5}{6}\pi}\}$

$C_7: \{^d1\|1\}$

$C_8: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$

$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_{10}: \{^d2_{001}\| -1\}$

$C_{11}: \{^d2_{001}\| -3_{001}^1\}, \{^d2_{001}\| -3_{001}^2\}$

$C_{12}: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{\frac{1}{6}\pi}\}, \{^d2_{001}\|m_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	1	1	-1	1	-1	1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	0	-1	-2	1	0	2	0	-1	-2	1	0
GM6	2	0	-1	2	-1	0	2	0	-1	2	-1	0
$\overline{\text{GM7}}$	1	-1	1	-i	-i	i	-1	1	-1	i	i	-i
$\overline{\text{GM8}}$	1	-1	1	i	i	-i	-1	1	-1	-i	-i	i
$\overline{\text{GM9}}$	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
$\overline{\text{GM10}}$	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
$\overline{\text{GM11}}$	2	0	-1	2i	-i	0	-2	0	1	-2i	i	0
$\overline{\text{GM12}}$	2	0	-1	-2i	i	0	-2	0	1	2i	-i	0

$$2_{001}6/2_{100}m^1m^2_{001}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||3_{001}^1\}, \{1||3_{001}^2\}$$

$$C_3: \{1||m_{100}\}, \{1||m_{\frac{1}{3}\pi}\}, \{1||m_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{001}||2_{001}\}, \{^d2_{001}||2_{001}\}$$

$$C_5: \{2_{001}||6_{001}^1\}, \{2_{001}||6_{001}^5\}, \{^d2_{001}||6_{001}^1\}, \{^d2_{001}||6_{001}^5\}$$

$$C_6: \{2_{001}||m_{010}\}, \{2_{001}||m_{\frac{1}{6}\pi}\}, \{2_{001}||m_{\frac{5}{6}\pi}\}, \{^d2_{001}||m_{010}\}, \{^d2_{001}||m_{\frac{1}{6}\pi}\}, \{^d2_{001}||m_{\frac{5}{6}\pi}\}$$

$$C_7: \{2_{010}||-1\}, \{^d2_{010}||-1\}$$

$$C_8: \{2_{010}||-3_{001}^1\}, \{2_{010}||-3_{001}^2\}, \{^d2_{010}||-3_{001}^1\}, \{^d2_{010}||-3_{001}^2\}$$

$$C_9: \{2_{010}||2_{100}\}, \{2_{010}||2_{\frac{1}{3}\pi}\}, \{2_{010}||2_{\frac{2}{3}\pi}\}, \{^d2_{010}||2_{100}\}, \{^d2_{010}||2_{\frac{1}{3}\pi}\}, \{^d2_{010}||2_{\frac{2}{3}\pi}\}$$

$$C_{10}: \{2_{100}||-6_{001}^1\}, \{2_{100}||-6_{001}^5\}, \{^d2_{100}||-6_{001}^1\}, \{^d2_{100}||-6_{001}^5\}$$

$$C_{11}: \{2_{100}||2_{010}\}, \{2_{100}||2_{\frac{1}{6}\pi}\}, \{2_{100}||2_{\frac{5}{6}\pi}\}, \{^d2_{100}||2_{010}\}, \{^d2_{100}||2_{\frac{1}{6}\pi}\}, \{^d2_{100}||2_{\frac{5}{6}\pi}\}$$

$$C_{12}: \{2_{100}||m_{001}\}, \{^d2_{100}||m_{001}\}$$

$$C_{13}: \{^d1||1\}$$

$$C_{14}: \{^d1||3_{001}^1\}, \{^d1||3_{001}^2\}$$

$$C_{15}: \{^d1||m_{100}\}, \{^d1||m_{\frac{1}{3}\pi}\}, \{^d1||m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	-1	-1	1	1	-1	1	1	1	-1
GM3	1	1	-1	-1	-1	1	1	1	-1	-1	1	-1	1	1	-1
GM4	1	1	-1	1	1	-1	-1	-1	1	-1	1	-1	1	1	-1
GM5	1	1	-1	1	1	-1	1	1	-1	1	-1	1	1	1	-1
GM6	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
GM7	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
GM9	2	-1	0	-2	1	0	-2	1	0	-1	0	2	2	-1	0
GM10	2	-1	0	-2	1	0	2	-1	0	1	0	-2	2	-1	0
GM11	2	-1	0	2	-1	0	-2	1	0	1	0	-2	2	-1	0
GM12	2	-1	0	2	-1	0	2	-1	0	-1	0	2	2	-1	0
<u>GM13</u>	2	2	-2	0	0	0	0	0	0	0	0	0	-2	-2	2
<u>GM14</u>	2	2	2	0	0	0	0	0	0	0	0	0	-2	-2	-2
<u>GM15</u>	4	-2	0	0	0	0	0	0	0	0	0	0	-4	2	0

$2_{001}6^{-1}m^1m^2_{001}m$

Classes:

C₁: {1||1}

C₂: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₃: {1||m₁₀₀}, {1||m _{$\frac{1}{3}\pi$} }, {1||m _{$\frac{2}{3}\pi$} }

C₄: {2₀₀₁||2₀₀₁}

C₅: {2₀₀₁||6₀₀₁¹}, {2₀₀₁||6₀₀₁⁵}

C₆: {2₀₀₁||m₀₁₀}, {2₀₀₁||m _{$\frac{1}{6}\pi$} }, {2₀₀₁||m _{$\frac{5}{6}\pi$} }

C₇: {d₁||1}

C₈: {d₁||3₀₀₁¹}, {d₁||3₀₀₁²}

C₉: {d₁||m₁₀₀}, {d₁||m _{$\frac{1}{3}\pi$} }, {d₁||m _{$\frac{2}{3}\pi$} }

C₁₀: {d₂₀₀₁||2₀₀₁}

C₁₁: {d₂₀₀₁||6₀₀₁¹}, {d₂₀₀₁||6₀₀₁⁵}

C₁₂: {d₂₀₀₁||m₀₁₀}, {d₂₀₀₁||m _{$\frac{1}{6}\pi$} }, {d₂₀₀₁||m _{$\frac{5}{6}\pi$} }

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	1	-1	1	1	-1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	-1	0	-2	1	0	2	-1	0	-2	1	0
GM6	2	-1	0	2	-1	0	2	-1	0	2	-1	0
GM7GM8	2	2	-2	0	0	0	-2	-2	2	0	0	0
GM9GM10	2	2	2	0	0	0	-2	-2	-2	0	0	0
GM11GM12	4	-2	0	0	0	0	-4	2	0	0	0	0

$$m_{001}6/2_{001}m^1m^{m_{001}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{1\|m_{100}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{001}\| -6_{001}^1\}, \{2_{001}\| -6_{001}^5\}$$

$$C_5: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$$

$$C_6: \{2_{001}\|m_{001}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_9: \{^d1\|m_{100}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{\frac{2}{3}\pi}\}$$

$$C_{10}: \{^d2_{001}\| -6_{001}^1\}, \{^d2_{001}\| -6_{001}^5\}$$

$$C_{11}: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$$

$$C_{12}: \{^d2_{001}\|m_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
GM3	1	1	-1	1	-1	1	1	1	-1	1	-1	1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	-1	0	1	0	-2	2	-1	0	1	0	-2
GM6	2	-1	0	-1	0	2	2	-1	0	-1	0	2
<u>GM7GM8</u>	2	2	-2	0	0	0	-2	-2	2	0	0	0
<u>GM9GM10</u>	2	2	2	0	0	0	-2	-2	-2	0	0	0
<u>GM11GM12</u>	4	-2	0	0	0	0	-4	2	0	0	0	0

$$^{-1}6/m_{001}m^1m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{1\|m_{100}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{001}\| -1\}$$

$$C_5: \{2_{001}\| -3_{001}^1\}, \{2_{001}\| -3_{001}^2\}$$

$$C_6: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_9: \{^d1\|m_{100}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{\frac{2}{3}\pi}\}$$

$$C_{10}: \{^d2_{001}\| -1\}$$

$$C_{11}: \{^d2_{001}\| -3_{001}^1\}, \{^d2_{001}\| -3_{001}^2\}$$

$$C_{12}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	1	-1	1	1	-1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	-1	0	-2	1	0	2	-1	0	-2	1	0
GM6	2	-1	0	2	-1	0	2	-1	0	2	-1	0
<u>GM7GM8</u>	2	2	-2	0	0	0	-2	-2	2	0	0	0
<u>GM9GM10</u>	2	2	2	0	0	0	-2	-2	-2	0	0	0
<u>GM11GM12</u>	4	-2	0	0	0	0	-4	2	0	0	0	0

$2_{001}6/m_{001}m^1m^2_{001}m$

Classes:

C₁: {1||1}

C₂: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₃: {1||m₁₀₀}, {1||m _{$\frac{1}{3}\pi$} }, {1||m _{$\frac{2}{3}\pi$} }

C₄: {2₀₀₁||2₀₀₁}

C₅: {2₀₀₁||6₀₀₁¹}, {2₀₀₁||6₀₀₁⁵}

C₆: {2₀₀₁||m₀₁₀}, {2₀₀₁||m _{$\frac{1}{6}\pi$} }, {2₀₀₁||m _{$\frac{5}{6}\pi$} }

C₇: {d₁||1}

C₈: {d₁||3₀₀₁¹}, {d₁||3₀₀₁²}

C₉: {d₁||m₁₀₀}, {d₁||m _{$\frac{1}{3}\pi$} }, {d₁||m _{$\frac{2}{3}\pi$} }

C₁₀: {d₂₀₀₁||2₀₀₁}

C₁₁: {d₂₀₀₁||6₀₀₁¹}, {d₂₀₀₁||6₀₀₁⁵}

C₁₂: {d₂₀₀₁||m₀₁₀}, {d₂₀₀₁||m _{$\frac{1}{6}\pi$} }, {d₂₀₀₁||m _{$\frac{5}{6}\pi$} }

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	1	-1	1	1	-1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	-1	0	-2	1	0	2	-1	0	-2	1	0
GM6	2	-1	0	2	-1	0	2	-1	0	2	-1	0
<u>GM7GM8</u>	2	2	-2	0	0	0	-2	-2	2	0	0	0
<u>GM9GM10</u>	2	2	2	0	0	0	-2	-2	-2	0	0	0
<u>GM11GM12</u>	4	-2	0	0	0	0	-4	2	0	0	0	0

$m_{001}6^{-1}m^1m^{m_{001}}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{1\|m_{100}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{\frac{2}{3}\pi}\}$

$C_4: \{2_{001}\| -1\}$

$C_5: \{2_{001}\| -3_{001}^1\}, \{2_{001}\| -3_{001}^2\}$

$C_6: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$

$C_7: \{^d1\|1\}$

$C_8: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_9: \{^d1\|m_{100}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{\frac{2}{3}\pi}\}$

$C_{10}: \{^d2_{001}\| -1\}$

$C_{11}: \{^d2_{001}\| -3_{001}^1\}, \{^d2_{001}\| -3_{001}^2\}$

$C_{12}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	1	-1	1	1	-1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	-1	0	-2	1	0	2	-1	0	-2	1	0
GM6	2	-1	0	2	-1	0	2	-1	0	2	-1	0
<u>GM7GM8</u>	2	2	-2	0	0	0	-2	-2	2	0	0	0
<u>GM9GM10</u>	2	2	2	0	0	0	-2	-2	-2	0	0	0
<u>GM11GM12</u>	4	-2	0	0	0	0	-4	2	0	0	0	0

$$^{-1}6/2_{001}m^1m^{-1}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{1\|m_{100}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{001}\| -6_{001}^1\}, \{2_{001}\| -6_{001}^5\}$$

$$C_5: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$$

$$C_6: \{2_{001}\|m_{001}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_9: \{^d1\|m_{100}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{\frac{2}{3}\pi}\}$$

$$C_{10}: \{^d2_{001}\| -6_{001}^1\}, \{^d2_{001}\| -6_{001}^5\}$$

$$C_{11}: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$$

$$C_{12}: \{^d2_{001}\|m_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
GM3	1	1	-1	1	-1	1	1	1	-1	1	-1	1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	-1	0	1	0	-2	2	-1	0	1	0	-2
GM6	2	-1	0	-1	0	2	2	-1	0	-1	0	2
<u>GM7GM8</u>	2	2	-2	0	0	0	-2	-2	2	0	0	0
<u>GM9GM10</u>	2	2	2	0	0	0	-2	-2	-2	0	0	0
<u>GM11GM12</u>	4	-2	0	0	0	0	-4	2	0	0	0	0

$2_{001}6/m_{100}m^1m^2_{001}m$

Classes:

C₁: {1||1}

C₂: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₃: {1||m₁₀₀}, {1||m _{$\frac{1}{3}\pi$} }, {1||m _{$\frac{2}{3}\pi$} }

C₄: {2₀₀₁||2₀₀₁}

C₅: {2₀₀₁||6₀₀₁¹}, {2₀₀₁||6₀₀₁⁵}

C₆: {2₀₀₁||m₀₁₀}, {2₀₀₁||m _{$\frac{1}{6}\pi$} }, {2₀₀₁||m _{$\frac{5}{6}\pi$} }

C₇: {^d1||1}

C₈: {^d1||3₀₀₁¹}, {^d1||3₀₀₁²}

C₉: {^d1||m₁₀₀}, {^d1||m _{$\frac{1}{3}\pi$} }, {^d1||m _{$\frac{2}{3}\pi$} }

C₁₀: {^d2₀₀₁||2₀₀₁}

C₁₁: {^d2₀₀₁||6₀₀₁¹}, {^d2₀₀₁||6₀₀₁⁵}

C₁₂: {^d2₀₀₁||m₀₁₀}, {^d2₀₀₁||m _{$\frac{1}{6}\pi$} }, {^d2₀₀₁||m _{$\frac{5}{6}\pi$} }

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	1	-1	1	1	-1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	-1	0	-2	1	0	2	-1	0	-2	1	0
GM6	2	-1	0	2	-1	0	2	-1	0	2	-1	0
<u>GM7</u>	1	1	-1	-i	-i	i	-1	-1	1	i	i	-i
<u>GM8</u>	1	1	-1	i	i	-i	-1	-1	1	-i	-i	i
<u>GM9</u>	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
<u>GM10</u>	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
<u>GM11</u>	2	-1	0	2i	-i	0	-2	1	0	-2i	i	0
<u>GM12</u>	2	-1	0	-2i	i	0	-2	1	0	2i	-i	0

$$m_{010}6/2_{001}m^1m_{010}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_3: \{1\|m_{100}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{\frac{2}{3}\pi}\}$$

$$C_4: \{2_{001}\| -6_{001}^1\}, \{2_{001}\| -6_{001}^5\}$$

$$C_5: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$$

$$C_6: \{2_{001}\|m_{001}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_9: \{^d1\|m_{100}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{\frac{2}{3}\pi}\}$$

$$C_{10}: \{^d2_{001}\| -6_{001}^1\}, \{^d2_{001}\| -6_{001}^5\}$$

$$C_{11}: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$$

$$C_{12}: \{^d2_{001}\|m_{001}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
GM3	1	1	-1	1	-1	1	1	1	-1	1	-1	1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	-1	0	1	0	-2	2	-1	0	1	0	-2
GM6	2	-1	0	-1	0	2	2	-1	0	-1	0	2
<u>GM7</u>	1	1	-1	-i	i	-i	-1	-1	1	i	-i	i
<u>GM8</u>	1	1	-1	i	-i	i	-1	-1	1	-i	i	-i
<u>GM9</u>	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
<u>GM10</u>	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
<u>GM11</u>	2	-1	0	-i	0	2i	-2	1	0	i	0	-2i
<u>GM12</u>	2	-1	0	i	0	-2i	-2	1	0	-i	0	2i

$m_{100}6/m_{010}m^1m^m_{100}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{1\|m_{100}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{\frac{2}{3}\pi}\}$

$C_4: \{2_{001}\| -1\}$

$C_5: \{2_{001}\| -3_{001}^1\}, \{2_{001}\| -3_{001}^2\}$

$C_6: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$

$C_7: \{^d1\|1\}$

$C_8: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_9: \{^d1\|m_{100}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{\frac{2}{3}\pi}\}$

$C_{10}: \{^d2_{001}\| -1\}$

$C_{11}: \{^d2_{001}\| -3_{001}^1\}, \{^d2_{001}\| -3_{001}^2\}$

$C_{12}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	1	-1	1	1	-1	1	1	-1
GM4	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
GM5	2	-1	0	-2	1	0	2	-1	0	-2	1	0
GM6	2	-1	0	2	-1	0	2	-1	0	2	-1	0
<u>GM7</u>	1	1	-1	-i	-i	i	-1	-1	1	i	i	-i
<u>GM8</u>	1	1	-1	i	i	-i	-1	-1	1	-i	-i	i
<u>GM9</u>	1	1	1	-i	-i	-i	-1	-1	-1	i	i	i
<u>GM10</u>	1	1	1	i	i	i	-1	-1	-1	-i	-i	-i
<u>GM11</u>	2	-1	0	2i	-i	0	-2	1	0	-2i	i	0
<u>GM12</u>	2	-1	0	-2i	i	0	-2	1	0	2i	-i	0

$$^{-1}6/^{-1}m^{-1}m^1m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||3_{001}^1\}, \{1||3_{001}^2\}$$

$$C_3: \{1||-1\}$$

$$C_4: \{1||m_{010}\}, \{1||m_{\frac{1}{6}\pi}\}, \{1||m_{\frac{5}{6}\pi}\}$$

$$C_5: \{1||-3_{001}^1\}, \{1||-3_{001}^2\}$$

$$C_6: \{1||2_{010}\}, \{1||2_{\frac{1}{6}\pi}\}, \{1||2_{\frac{5}{6}\pi}\}$$

$$C_7: \{^d1||1\}$$

$$C_8: \{^d1||3_{001}^1\}, \{^d1||3_{001}^2\}$$

$$C_9: \{^d1||-1\}$$

$$C_{10}: \{^d1||m_{010}\}, \{^d1||m_{\frac{1}{6}\pi}\}, \{^d1||m_{\frac{5}{6}\pi}\}$$

$$C_{11}: \{^d1||-3_{001}^1\}, \{^d1||-3_{001}^2\}$$

$$C_{12}: \{^d1||2_{010}\}, \{^d1||2_{\frac{1}{6}\pi}\}, \{^d1||2_{\frac{5}{6}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1
GM4	1	1	1	-1	1	-1	1	1	1	-1	1	-1
GM5	2	-1	-2	0	1	0	2	-1	-2	0	1	0
GM6	2	-1	2	0	-1	0	2	-1	2	0	-1	0
<u>GM7GM7</u>	2	2	-2	-2	-2	2	-2	-2	2	2	2	-2
<u>GM8GM8</u>	2	2	-2	2	-2	-2	-2	-2	2	-2	2	2
<u>GM9GM9</u>	2	2	2	-2	2	-2	-2	-2	-2	2	-2	2
<u>GM10GM10</u>	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
<u>GM11GM11</u>	4	-2	-4	0	2	0	-4	2	4	0	-2	0
<u>GM12GM12</u>	4	-2	4	0	-2	0	-4	2	-4	0	2	0

$$2_{001}6/2_{001}m^2_{001}m^1m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$$

$$C_3: \{1\|-1\}$$

$$C_4: \{1\|m_{010}\}, \{1\|m_{\frac{1}{6}\pi}\}, \{1\|m_{\frac{5}{6}\pi}\}$$

$$C_5: \{1\|-3^1_{001}\}, \{1\|-3^2_{001}\}$$

$$C_6: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$$

$$C_7: \{2_{001}\|6^1_{001}\}, \{2_{001}\|6^5_{001}\}$$

$$C_8: \{2_{001}\|m_{001}\}$$

$$C_9: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_{10}: \{2_{001}\|-6^1_{001}\}, \{2_{001}\|-6^5_{001}\}$$

$$C_{11}: \{2_{001}\|2_{001}\}$$

$$C_{12}: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$$

$$C_{13}: \{^d1\|1\}$$

$$C_{14}: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$$

$$C_{15}: \{^d1\|-1\}$$

$$C_{16}: \{^d1\|m_{010}\}, \{^d1\|m_{\frac{1}{6}\pi}\}, \{^d1\|m_{\frac{5}{6}\pi}\}$$

$$C_{17}: \{^d1\|-3^1_{001}\}, \{^d1\|-3^2_{001}\}$$

$$C_{18}: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$$

$$C_{19}: \{^d2_{001}\|6^1_{001}\}, \{^d2_{001}\|6^5_{001}\}$$

$$C_{20}: \{^d2_{001}\|m_{001}\}$$

$$C_{21}: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_{22}: \{^d2_{001}\|-6^1_{001}\}, \{^d2_{001}\|-6^5_{001}\}$$

$$C_{23}: \{^d2_{001}\|2_{001}\}$$

$$C_{24}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	-1	1	1	1	-1	-1	1	1	-1	-1	-1	1	-1	1	1	1	-1	-1
GM3	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1
GM4	1	1	-1	1	-1	-1	-1	1	-1	1	-1	1	1	1	-1	1	-1	-1	-1	1	-1	1	-1	1
GM5	1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	-1
GM6	1	1	1	-1	1	-1	-1	-1	1	-1	-1	1	1	1	1	-1	1	-1	-1	-1	1	-1	-1	1
GM7	1	1	1	-1	1	-1	1	1	-1	1	1	-1	1	1	1	-1	1	-1	1	1	-1	1	1	-1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM9	2	-1	-2	0	1	0	1	2	0	-1	-2	0	2	-1	-2	0	1	0	1	2	0	-1	-2	0
GM10	2	-1	-2	0	1	0	-1	-2	0	1	2	0	2	-1	-2	0	1	0	-1	-2	0	1	2	0
GM11	2	-1	2	0	-1	0	-1	2	0	-1	2	0	2	-1	2	0	-1	0	-1	2	0	-1	2	0
GM12	2	-1	2	0	-1	0	1	-2	0	1	-2	0	2	-1	2	0	-1	0	1	-2	0	1	-2	0
GM13	1	1	-1	-1	-1	1	-i	i	i	i	-i	-i	-1	-1	1	1	1	-1	i	-i	-i	-i	i	i
GM14	1	1	-1	-1	-1	1	i	-i	-i	-i	i	i	-1	-1	1	1	1	-1	-i	i	i	i	-i	-i
GM15	1	1	-1	1	-1	-1	-i	i	-i	i	-i	i	-1	-1	1	-1	1	1	i	-i	i	-i	i	-i
GM16	1	1	-1	1	-1	-1	i	-i	i	-i	i	-i	-1	-1	1	-1	1	1	-i	i	-i	i	-i	i
GM17	1	1	1	-1	1	-1	-i	-i	i	-i	-i	i	-1	-1	-1	1	-1	1	i	i	-i	i	i	-i
GM18	1	1	1	-1	1	-1	i	i	-i	i	i	-i	-1	-1	-1	1	-1	1	-i	-i	i	-i	-i	i
GM19	1	1	1	1	1	1	-i	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i	i	i
GM20	1	1	1	1	1	1	i	i	i	i	i	i	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i	-i
GM21	2	-1	-2	0	1	0	-i	-2i	0	i	2i	0	-2	1	2	0	-1	0	i	2i	0	-i	-2i	0
GM22	2	-1	-2	0	1	0	i	2i	0	-i	-2i	0	-2	1	2	0	-1	0	-i	-2i	0	i	2i	0
GM23	2	-1	2	0	-1	0	i	-2i	0	i	-2i	0	-2	1	-2	0	1	0	-i	2i	0	-i	2i	0
GM24	2	-1	2	0	-1	0	-i	2i	0	-i	2i	0	-2	1	-2	0	1	0	i	-2i	0	i	-2i	0

$m_{001}6/m_{001}m^{m_{001}}m^1m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$

$C_3: \{1\|-1\}$

$C_4: \{1\|m_{010}\}, \{1\|m_{\frac{1}{6}\pi}\}, \{1\|m_{\frac{5}{6}\pi}\}$

$C_5: \{1\|-3_{001}^1\}, \{1\|-3_{001}^2\}$

$C_6: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$

$C_7: \{^d1\|1\}$

$C_8: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$

$C_9: \{^d1\|-1\}$

$C_{10}: \{^d1\|m_{010}\}, \{^d1\|m_{\frac{1}{6}\pi}\}, \{^d1\|m_{\frac{5}{6}\pi}\}$

$C_{11}: \{^d1\|-3_{001}^1\}, \{^d1\|-3_{001}^2\}$

$C_{12}: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1
GM4	1	1	1	-1	1	-1	1	1	1	-1	1	-1
GM5	2	-1	-2	0	1	0	2	-1	-2	0	1	0
GM6	2	-1	2	0	-1	0	2	-1	2	0	-1	0
$\overline{\text{GM7}}$	1	1	-1	-1	-1	1	-1	-1	1	1	1	-1
$\overline{\text{GM8}}$	1	1	-1	1	-1	-1	-1	-1	1	-1	1	1
$\overline{\text{GM9}}$	1	1	1	-1	1	-1	-1	-1	-1	1	-1	1
$\overline{\text{GM10}}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\overline{\text{GM11}}$	2	-1	-2	0	1	0	-2	1	2	0	-1	0
$\overline{\text{GM12}}$	2	-1	2	0	-1	0	-2	1	-2	0	1	0

$16/2_{010}m^2_{100}m^2_{100}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$
 $C_4: \{1\|6_{001}^1\}, \{1\|6_{001}^5\}$
 $C_5: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}, \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$
 $C_6: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}, \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$
 $C_7: \{2_{010}\| -1\}, \{^d2_{010}\| -1\}$
 $C_8: \{2_{010}\| -3_{001}^1\}, \{^d2_{010}\| -3_{001}^2\}$
 $C_9: \{2_{010}\| -3_{001}^2\}, \{^d2_{010}\| -3_{001}^1\}$
 $C_{10}: \{2_{010}\| -6_{001}^1\}, \{^d2_{010}\| -6_{001}^5\}$
 $C_{11}: \{2_{010}\| -6_{001}^5\}, \{^d2_{010}\| -6_{001}^1\}$
 $C_{12}: \{2_{010}\|m_{001}\}, \{^d2_{010}\|m_{001}\}$
 $C_{13}: \{2_{100}\|m_{010}\}, \{2_{100}\|m_{\frac{1}{6}\pi}\}, \{2_{100}\|m_{\frac{5}{6}\pi}\}, \{^d2_{100}\|m_{010}\}, \{^d2_{100}\|m_{\frac{1}{6}\pi}\}, \{^d2_{100}\|m_{\frac{5}{6}\pi}\}$
 $C_{14}: \{2_{100}\|m_{100}\}, \{2_{100}\|m_{\frac{1}{3}\pi}\}, \{2_{100}\|m_{\frac{2}{3}\pi}\}, \{^d2_{100}\|m_{100}\}, \{^d2_{100}\|m_{\frac{1}{3}\pi}\}, \{^d2_{100}\|m_{\frac{2}{3}\pi}\}$
 $C_{15}: \{^d1\|1\}$
 $C_{16}: \{^d1\|2_{001}\}$
 $C_{17}: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$
 $C_{18}: \{^d1\|6_{001}^1\}, \{^d1\|6_{001}^5\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	-1	-1	-1	1	1	1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	1	-1
GM4	1	-1	1	-1	1	-1	-1	-1	-1	1	1	1	-1	1	1	-1	1	-1
GM5	1	-1	1	-1	1	-1	1	1	1	-1	-1	-1	1	-1	1	-1	1	-1
GM6	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
GM7	1	1	1	1	-1	-1	1	1	1	1	1	1	-1	-1	1	1	1	1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1
GM9	2	-2	-1	1	0	0	-2	1	1	-1	-1	2	0	0	2	-2	-1	1
GM10	2	-2	-1	1	0	0	2	-1	-1	1	1	-2	0	0	2	-2	-1	1
GM11	2	2	-1	-1	0	0	-2	1	1	1	1	-2	0	0	2	2	-1	-1
GM12	2	2	-1	-1	0	0	2	-1	-1	-1	-1	2	0	0	2	2	-1	-1
GM13	2	-2	2	-2	0	0	0	0	0	0	0	0	0	0	-2	2	-2	2
GM14	2	2	2	2	0	0	0	0	0	0	0	0	0	0	-2	-2	-2	-2
GM15	2	-2	-1	1	0	0	0	$\sqrt{3}$	$-\sqrt{3}$	$\sqrt{3}$	$-\sqrt{3}$	0	0	0	-2	2	1	-1
GM16	2	-2	-1	1	0	0	0	$-\sqrt{3}$	$\sqrt{3}$	$-\sqrt{3}$	$\sqrt{3}$	0	0	0	-2	2	1	-1
GM17	2	2	-1	-1	0	0	0	$\sqrt{3}$	$-\sqrt{3}$	$-\sqrt{3}$	$\sqrt{3}$	0	0	0	-2	-2	1	1
GM18	2	2	-1	-1	0	0	0	$-\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	$-\sqrt{3}$	0	0	0	-2	-2	1	1

$$^16/m_{001}m^{-1}m^{-1}m$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$
 $C_4: \{1\|6_{001}^1\}, \{1\|6_{001}^5\}$
 $C_5: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$
 $C_6: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|2_{001}\}$
 $C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$
 $C_{10}: \{^d1\|6_{001}^1\}, \{^d1\|6_{001}^5\}$
 $C_{11}: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$
 $C_{12}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-2	-1	1	0	0	2	-2	-1	1	0	0
GM6	2	2	-1	-1	0	0	2	2	-1	-1	0	0
<u>GM7GM7</u>	4	-4	-2	2	0	0	-4	4	2	-2	0	0
<u>GM8GM8</u>	4	4	-2	-2	0	0	-4	-4	2	2	0	0
<u>GM9GM10</u>	2	-2	2	-2	0	0	-2	2	-2	2	0	0
<u>GM11GM12</u>	2	2	2	2	0	0	-2	-2	-2	-2	0	0

$$^16/-^1m^{2001}m^{2001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_4: \{1\|6_{001}^1\}, \{1\|6_{001}^5\}$$

$$C_5: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{\frac{1}{6}\pi}\}, \{2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_6: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|2_{001}\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_{10}: \{^d1\|6_{001}^1\}, \{^d1\|6_{001}^5\}$$

$$C_{11}: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{\frac{1}{6}\pi}\}, \{^d2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_{12}: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-2	-1	1	0	0	2	-2	-1	1	0	0
GM6	2	2	-1	-1	0	0	2	2	-1	-1	0	0
$\overline{\text{GM7}}$	2	-2	-1	1	0	0	-2	2	1	-1	0	0
$\overline{\text{GM8}}$	2	2	-1	-1	0	0	-2	-2	1	1	0	0
$\overline{\text{GM9GM10}}$	2	-2	2	-2	0	0	-2	2	-2	2	0	0
$\overline{\text{GM11GM12}}$	2	2	2	2	0	0	-2	-2	-2	-2	0	0

$$16/2_{001}m^{m001}m^{m001}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||3_{001}^1\}$
 $C_4: \{1||3_{001}^2\}$
 $C_5: \{1||6_{001}^1\}$
 $C_6: \{1||6_{001}^5\}$
 $C_7: \{2_{001}||-1\}$
 $C_8: \{2_{001}||-3_{001}^1\}$
 $C_9: \{2_{001}||-3_{001}^2\}$
 $C_{10}: \{2_{001}||-6_{001}^1\}$
 $C_{11}: \{2_{001}||-6_{001}^5\}$
 $C_{12}: \{2_{001}||m_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||2_{001}\}$
 $C_{15}: \{^d1||3_{001}^1\}$
 $C_{16}: \{^d1||3_{001}^2\}$
 $C_{17}: \{^d1||6_{001}^1\}$
 $C_{18}: \{^d1||6_{001}^5\}$
 $C_{19}: \{^d2_{001}||-1\}$
 $C_{20}: \{^d2_{001}||-3_{001}^1\}$
 $C_{21}: \{^d2_{001}||-3_{001}^2\}$
 $C_{22}: \{^d2_{001}||-6_{001}^1\}$
 $C_{23}: \{^d2_{001}||-6_{001}^5\}$
 $C_{24}: \{^d2_{001}||m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	-1	-1	-1	1	1	1	1	-1	1	1	-1	-1	-1	-1	-1	1	1	1
GM3	1	-1	1	1	-1	-1	1	1	1	-1	-1	-1	1	-1	1	1	-1	-1	1	1	1	-1	-1	-1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM5	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	-1	ω	ω^*	$-\omega^*$	$-\omega$	1	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	-1	ω	ω^*	$-\omega^*$	$-\omega$	1
GM6	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	-1	ω^*	ω	$-\omega$	$-\omega^*$	1	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	-1	ω^*	ω	$-\omega$	$-\omega^*$	1
GM7	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	$-\omega$	$-\omega^*$	ω^*	ω	-1	1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	$-\omega$	$-\omega^*$	ω^*	ω	-1
GM8	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	$-\omega^*$	$-\omega$	ω	ω^*	-1	1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	$-\omega^*$	$-\omega$	ω	ω^*	-1
GM9	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	-1	ω	ω^*	ω^*	ω	-1	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	-1	ω	ω^*	ω^*	ω	-1
GM10	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	-1	ω^*	ω	ω	ω^*	-1	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	-1	ω^*	ω	ω	ω^*	-1
GM11	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1
GM12	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1
GM13GM14	2	-2	2	2	-2	-2	0	0	0	0	0	0	-2	2	-2	-2	2	2	0	0	0	0	0	0
GM15GM16	2	-2	-2ω	$-2\omega^*$	$2\omega^*$	2ω	0	0	0	0	0	0	-2	2	2ω	$2\omega^*$	$-2\omega^*$	-2ω	0	0	0	0	0	0
GM17GM18	2	-2	$-2\omega^*$	-2ω	2ω	$2\omega^*$	0	0	0	0	0	0	-2	2	$2\omega^*$	2ω	-2ω	$-2\omega^*$	0	0	0	0	0	0
GM19GM20	2	2	2	2	2	2	0	0	0	0	0	0	-2	-2	-2	-2	-2	-2	0	0	0	0	0	0
GM21GM22	2	2	-2ω	$-2\omega^*$	$-2\omega^*$	-2ω	0	0	0	0	0	0	-2	-2	2ω	$2\omega^*$	$2\omega^*$	2ω	0	0	0	0	0	0
GM23GM24	2	2	$-2\omega^*$	-2ω	-2ω	$-2\omega^*$	0	0	0	0	0	0	-2	-2	$2\omega^*$	2ω	2ω	$2\omega^*$	0	0	0	0	0	0

$$16^{-1}m^{m001}m^{m001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_4: \{1\|6_{001}^1\}, \{1\|6_{001}^5\}$$

$$C_5: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$$

$$C_6: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|2_{001}\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_{10}: \{^d1\|6_{001}^1\}, \{^d1\|6_{001}^5\}$$

$$C_{11}: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$$

$$C_{12}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-2	-1	1	0	0	2	-2	-1	1	0	0
GM6	2	2	-1	-1	0	0	2	2	-1	-1	0	0
$\overline{\text{GM7}}$	2	-2	-1	1	0	0	-2	2	1	-1	0	0
$\overline{\text{GM8}}$	2	2	-1	-1	0	0	-2	-2	1	1	0	0
$\overline{\text{GM9GM10}}$	2	-2	2	-2	0	0	-2	2	-2	2	0	0
$\overline{\text{GM11GM12}}$	2	2	2	2	0	0	-2	-2	-2	-2	0	0

$$16/2_{001}m^{-1}m^{-1}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||3_{001}^1\}$
 $C_4: \{1||3_{001}^2\}$
 $C_5: \{1||6_{001}^1\}$
 $C_6: \{1||6_{001}^5\}$
 $C_7: \{2_{001}||-1\}$
 $C_8: \{2_{001}||-3_{001}^1\}$
 $C_9: \{2_{001}||-3_{001}^2\}$
 $C_{10}: \{2_{001}||-6_{001}^1\}$
 $C_{11}: \{2_{001}||-6_{001}^5\}$
 $C_{12}: \{2_{001}||m_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||2_{001}\}$
 $C_{15}: \{^d1||3_{001}^1\}$
 $C_{16}: \{^d1||3_{001}^2\}$
 $C_{17}: \{^d1||6_{001}^1\}$
 $C_{18}: \{^d1||6_{001}^5\}$
 $C_{19}: \{^d2_{001}||-1\}$
 $C_{20}: \{^d2_{001}||-3_{001}^1\}$
 $C_{21}: \{^d2_{001}||-3_{001}^2\}$
 $C_{22}: \{^d2_{001}||-6_{001}^1\}$
 $C_{23}: \{^d2_{001}||-6_{001}^5\}$
 $C_{24}: \{^d2_{001}||m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	-1	-1	-1	1	1	1	1	-1	1	1	-1	-1	-1	-1	-1	1	1	1
GM3	1	-1	1	1	-1	-1	1	1	1	-1	-1	-1	1	-1	1	1	-1	-1	1	1	1	-1	-1	-1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM5	1	-1	- ω	- ω^*	ω^*	ω	-1	ω	ω^*	- ω^*	- ω	1	1	-1	- ω	- ω^*	ω^*	ω	-1	ω	ω^*	- ω^*	- ω	1
GM6	1	-1	- ω^*	- ω	ω	ω^*	-1	ω^*	ω	- ω	- ω^*	1	1	-1	- ω^*	- ω	ω	ω^*	-1	ω^*	ω	- ω	- ω^*	1
GM7	1	-1	- ω	- ω^*	ω^*	ω	1	- ω	- ω^*	ω^*	ω	-1	1	-1	- ω	- ω^*	ω^*	ω	1	- ω	- ω^*	ω^*	ω	-1
GM8	1	-1	- ω^*	- ω	ω	ω^*	1	- ω^*	- ω	ω	ω^*	-1	1	-1	- ω^*	- ω	ω	ω^*	1	- ω^*	- ω	ω	ω^*	-1
GM9	1	1	- ω	- ω^*	- ω^*	- ω	-1	ω	ω^*	ω^*	ω	-1	1	1	- ω	- ω^*	- ω^*	- ω	-1	ω	ω^*	ω^*	ω	-1
GM10	1	1	- ω^*	- ω	- ω	- ω^*	-1	ω^*	ω	ω	ω^*	-1	1	1	- ω^*	- ω	- ω	- ω^*	-1	ω^*	ω	ω	ω^*	-1
GM11	1	1	- ω	- ω^*	- ω^*	- ω	1	- ω	- ω^*	- ω^*	- ω	1	1	1	- ω	- ω^*	- ω^*	- ω	1	- ω	- ω^*	- ω^*	- ω	1
GM12	1	1	- ω^*	- ω	- ω	- ω^*	1	- ω^*	- ω	- ω	- ω^*	1	1	1	- ω^*	- ω	- ω	- ω^*	1	- ω^*	- ω	- ω	- ω^*	1
GM13GM14	2	-2	2	2	-2	-2	0	0	0	0	0	0	-2	2	-2	-2	2	2	0	0	0	0	0	0
GM15GM16	2	-2	-2 ω	-2 ω^*	2 ω^*	2 ω	0	0	0	0	0	0	-2	2	2 ω	2 ω^*	-2 ω^*	-2 ω	0	0	0	0	0	0
GM17GM18	2	-2	-2 ω^*	-2 ω	2 ω	2 ω^*	0	0	0	0	0	0	-2	2	2 ω^*	2 ω	-2 ω	-2 ω^*	0	0	0	0	0	0
GM19GM20	2	2	2	2	2	2	0	0	0	0	0	0	-2	-2	-2	-2	-2	-2	0	0	0	0	0	0
GM21GM22	2	2	-2 ω	-2 ω^*	-2 ω^*	-2 ω	0	0	0	0	0	0	-2	-2	2 ω	2 ω^*	2 ω^*	2 ω	0	0	0	0	0	0
GM23GM24	2	2	-2 ω^*	-2 ω	-2 ω	-2 ω^*	0	0	0	0	0	0	-2	-2	2 ω^*	2 ω	2 ω	2 ω^*	0	0	0	0	0	0

$$^16/m_{001}m^2_{001}m^2_{001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_4: \{1\|6_{001}^1\}, \{1\|6_{001}^5\}$$

$$C_5: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{\frac{1}{6}\pi}\}, \{2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_6: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|2_{001}\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_{10}: \{^d1\|6_{001}^1\}, \{^d1\|6_{001}^5\}$$

$$C_{11}: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{\frac{1}{6}\pi}\}, \{^d2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_{12}: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-2	-1	1	0	0	2	-2	-1	1	0	0
GM6	2	2	-1	-1	0	0	2	2	-1	-1	0	0
<u>GM7GM7</u>	4	-4	-2	2	0	0	-4	4	2	-2	0	0
<u>GM8GM8</u>	4	4	-2	-2	0	0	-4	-4	2	2	0	0
<u>GM9GM10</u>	2	-2	2	-2	0	0	-2	2	-2	2	0	0
<u>GM11GM12</u>	2	2	2	2	0	0	-2	-2	-2	-2	0	0

$16/m_{010}m_{100}m_{100}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{001}\}$
 $C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$
 $C_4: \{1\|6_{001}^1\}, \{1\|6_{001}^5\}$
 $C_5: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$
 $C_6: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|2_{001}\}$
 $C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$
 $C_{10}: \{^d1\|6_{001}^1\}, \{^d1\|6_{001}^5\}$
 $C_{11}: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$
 $C_{12}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-2	-1	1	0	0	2	-2	-1	1	0	0
GM6	2	2	-1	-1	0	0	2	2	-1	-1	0	0
<u>GM7</u>	1	-1	1	-1	-i	i	-1	1	-1	1	i	-i
<u>GM8</u>	1	-1	1	-1	i	-i	-1	1	-1	1	-i	i
<u>GM9</u>	1	1	1	1	-i	-i	-1	-1	-1	-1	i	i
<u>GM10</u>	1	1	1	1	i	i	-1	-1	-1	-1	-i	-i
<u>GM11</u>	2	-2	-1	1	0	0	-2	2	1	-1	0	0
<u>GM12</u>	2	2	-1	-1	0	0	-2	-2	1	1	0	0

$$16/m_{100}m^2_{001}m^2_{001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_4: \{1\|6_{001}^1\}, \{1\|6_{001}^5\}$$

$$C_5: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{\frac{1}{6}\pi}\}, \{2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_6: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|2_{001}\}$$

$$C_9: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_{10}: \{^d1\|6_{001}^1\}, \{^d1\|6_{001}^5\}$$

$$C_{11}: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{\frac{1}{6}\pi}\}, \{^d2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_{12}: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-2	-1	1	0	0	2	-2	-1	1	0	0
GM6	2	2	-1	-1	0	0	2	2	-1	-1	0	0
<u>GM7</u>	1	-1	1	-1	-i	i	-1	1	-1	1	i	-i
<u>GM8</u>	1	-1	1	-1	i	-i	-1	1	-1	1	-i	i
<u>GM9</u>	1	1	1	1	-i	-i	-1	-1	-1	-1	i	i
<u>GM10</u>	1	1	1	1	i	i	-1	-1	-1	-1	-i	-i
<u>GM11</u>	2	-2	-1	1	0	0	-2	2	1	-1	0	0
<u>GM12</u>	2	2	-1	-1	0	0	-2	-2	1	1	0	0

$16/2_{001}m^{m010}m^{m010}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||3_{001}^1\}$
 $C_4: \{1||3_{001}^2\}$
 $C_5: \{1||6_{001}^1\}$
 $C_6: \{1||6_{001}^5\}$
 $C_7: \{2_{001}||-1\}$
 $C_8: \{2_{001}||-3_{001}^1\}$
 $C_9: \{2_{001}||-3_{001}^2\}$
 $C_{10}: \{2_{001}||-6_{001}^1\}$
 $C_{11}: \{2_{001}||-6_{001}^5\}$
 $C_{12}: \{2_{001}||m_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||2_{001}\}$
 $C_{15}: \{^d1||3_{001}^1\}$
 $C_{16}: \{^d1||3_{001}^2\}$
 $C_{17}: \{^d1||6_{001}^1\}$
 $C_{18}: \{^d1||6_{001}^5\}$
 $C_{19}: \{^d2_{001}||-1\}$
 $C_{20}: \{^d2_{001}||-3_{001}^1\}$
 $C_{21}: \{^d2_{001}||-3_{001}^2\}$
 $C_{22}: \{^d2_{001}||-6_{001}^1\}$
 $C_{23}: \{^d2_{001}||-6_{001}^5\}$
 $C_{24}: \{^d2_{001}||m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	-1	-1	-1	1	1	1	1	-1	1	1	-1	-1	-1	-1	-1	1	1	1
GM3	1	-1	1	1	-1	-1	1	1	1	-1	-1	-1	1	-1	1	1	-1	-1	1	1	1	-1	-1	-1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM5	1	-1	- ω	- ω^*	ω^*	ω	-1	ω	ω^*	- ω^*	- ω	1	1	-1	- ω	- ω^*	ω^*	ω	-1	ω	ω^*	- ω^*	- ω	1
GM6	1	-1	- ω^*	- ω	ω	ω^*	-1	ω^*	ω	- ω	- ω^*	1	1	-1	- ω^*	- ω	ω	ω^*	-1	ω^*	ω	- ω	- ω^*	1
GM7	1	-1	- ω	- ω^*	ω^*	ω	1	- ω	- ω^*	ω^*	ω	-1	1	-1	- ω	- ω^*	ω^*	ω	1	- ω	- ω^*	ω^*	ω	-1
GM8	1	-1	- ω^*	- ω	ω	ω^*	1	- ω^*	- ω	ω	ω^*	-1	1	-1	- ω^*	- ω	ω	ω^*	1	- ω^*	- ω	ω	ω^*	-1
GM9	1	1	- ω	- ω^*	- ω^*	- ω	-1	ω	ω^*	ω^*	ω	-1	1	1	- ω	- ω^*	- ω^*	- ω	-1	ω	ω^*	ω^*	ω	-1
GM10	1	1	- ω^*	- ω	- ω	- ω^*	-1	ω^*	ω	ω	ω^*	-1	1	1	- ω^*	- ω	- ω	- ω^*	-1	ω^*	ω	ω	ω^*	-1
GM11	1	1	- ω	- ω^*	- ω^*	- ω	1	- ω	- ω^*	- ω^*	- ω	1	1	1	- ω	- ω^*	- ω^*	- ω	1	- ω	- ω^*	- ω^*	- ω	1
GM12	1	1	- ω^*	- ω	- ω	- ω^*	1	- ω^*	- ω	- ω	- ω^*	1	1	1	- ω^*	- ω	- ω	- ω^*	1	- ω^*	- ω	- ω	- ω^*	1
GM13	1	-1	1	1	-1	-1	-i	-i	-i	i	i	i	-1	1	-1	-1	1	1	i	i	i	-i	-i	-i
GM14	1	-1	1	1	-1	-1	i	i	i	-i	-i	-i	-1	1	-1	-1	1	1	-i	-i	-i	i	i	i
GM15	1	-1	- ω	- ω^*	ω^*	ω	-i	- τ^*	τ	- τ	τ^*	i	-1	1	ω	ω^*	- ω^*	- ω	i	τ^*	- τ	τ	- τ^*	-i
GM16	1	-1	- ω^*	- ω	ω^*	ω	i	τ^*	- τ	- τ	- τ^*	-i	-1	1	ω	ω^*	- ω^*	- ω	-i	- τ^*	τ	- τ	τ^*	i
GM17	1	-1	- ω^*	- ω	ω	ω^*	-i	τ	- τ^*	τ^*	- τ	i	-1	1	ω^*	ω	- ω	- ω^*	i	- τ	τ^*	- τ^*	τ	-i
GM18	1	-1	- ω^*	- ω	ω	ω^*	i	- τ	τ^*	- τ^*	τ	-i	-1	1	ω^*	ω	- ω	- ω^*	-i	τ	- τ^*	τ^*	- τ	i
GM19	1	1	1	1	1	1	-i	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i	i	i
GM20	1	1	1	1	1	1	i	i	i	i	i	i	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i	-i
GM21	1	1	- ω	- ω^*	- ω^*	- ω	-i	- τ^*	τ	τ	- τ^*	-i	-1	-1	ω	ω^*	ω^*	ω	i	τ^*	- τ	- τ	τ^*	i
GM22	1	1	- ω	- ω^*	- ω^*	- ω	i	τ^*	- τ	- τ	τ^*	i	-1	-1	ω	ω^*	ω^*	ω	-i	- τ^*	τ	τ	- τ^*	-i
GM23	1	1	- ω^*	- ω	- ω	- ω^*	-i	τ	- τ^*	- τ^*	τ	-i	-1	-1	ω^*	ω	ω	ω^*	i	- τ	τ^*	τ^*	- τ	i
GM24	1	1	- ω^*	- ω	- ω	- ω^*	i	- τ	τ^*	τ^*	- τ	i	-1	-1	ω^*	ω	ω	ω^*	-i	τ	- τ^*	- τ^*	τ	-i

$2_{001}6^1/m^2_{100}m^2_{010}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3^2_{001}\}, \{1||3^1_{001}\}$
 $C_3: \{1||-6^5_{001}\}, \{1||-6^1_{001}\}$
 $C_4: \{1||m_{001}\}$
 $C_5: \{2_{001}||6^5_{001}\}, \{^d2_{001}||6^1_{001}\}$
 $C_6: \{2_{001}||6^1_{001}\}, \{^d2_{001}||6^5_{001}\}$
 $C_7: \{2_{001}||2_{001}\}, \{^d2_{001}||2_{001}\}$
 $C_8: \{2_{001}||-3^1_{001}\}, \{^d2_{001}||-3^2_{001}\}$
 $C_9: \{2_{001}||-1\}, \{^d2_{001}||-1\}$
 $C_{10}: \{2_{001}||-3^2_{001}\}, \{^d2_{001}||-3^1_{001}\}$
 $C_{11}: \{2_{010}||m_{\frac{1}{6}\pi}\}, \{2_{010}||m_{010}\}, \{2_{010}||m_{\frac{5}{6}\pi}\}, \{^d2_{010}||m_{\frac{1}{6}\pi}\}, \{^d2_{010}||m_{010}\}, \{^d2_{010}||m_{\frac{5}{6}\pi}\}$
 $C_{12}: \{2_{010}||2^2_{\frac{2}{3}\pi}\}, \{2_{010}||2^1_{\frac{1}{3}\pi}\}, \{2_{010}||2_{100}\}, \{^d2_{010}||2^2_{\frac{2}{3}\pi}\}, \{^d2_{010}||2^1_{\frac{1}{3}\pi}\}, \{^d2_{010}||2_{100}\}$
 $C_{13}: \{2_{100}||m_{\frac{2}{3}\pi}\}, \{2_{100}||m_{\frac{1}{3}\pi}\}, \{2_{100}||m_{100}\}, \{^d2_{100}||m_{\frac{2}{3}\pi}\}, \{^d2_{100}||m_{\frac{1}{3}\pi}\}, \{^d2_{100}||m_{100}\}$
 $C_{14}: \{2_{100}||2^1_{\frac{1}{6}\pi}\}, \{2_{100}||2_{010}\}, \{2_{100}||2^2_{\frac{5}{6}\pi}\}, \{^d2_{100}||2^1_{\frac{1}{6}\pi}\}, \{^d2_{100}||2_{010}\}, \{^d2_{100}||2^2_{\frac{5}{6}\pi}\}$
 $C_{15}: \{^d1||1\}$
 $C_{16}: \{^d1||3^2_{001}\}, \{^d1||3^1_{001}\}$
 $C_{17}: \{^d1||-6^5_{001}\}, \{^d1||-6^1_{001}\}$
 $C_{18}: \{^d1||m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	-1	1	1	1	-1	1	1	-1	1	1	-1	-1
GM3	1	1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	1	1	-1	-1
GM4	1	1	-1	-1	1	1	1	-1	-1	-1	-1	1	-1	1	1	1	-1	-1
GM5	1	1	-1	-1	1	1	1	-1	-1	-1	1	-1	1	-1	1	1	-1	-1
GM6	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
GM7	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1
GM8	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1
GM9	2	-1	-1	2	-1	-1	2	-1	2	-1	0	0	0	0	2	-1	-1	2
GM10	2	-1	-1	2	1	1	-2	1	-2	1	0	0	0	0	2	-1	-1	2
GM11	2	-1	1	-2	-1	-1	2	1	-2	1	0	0	0	0	2	-1	1	-2
GM12	2	-1	1	-2	1	1	-2	-1	2	-1	0	0	0	0	2	-1	1	-2
GM13	2	2	-2	-2	0	0	0	0	0	0	0	0	0	0	-2	-2	2	2
GM14	2	2	2	2	0	0	0	0	0	0	0	0	0	0	-2	-2	-2	-2
GM15	2	-1	-1	2	$\sqrt{3}$	$-\sqrt{3}$	0	$\sqrt{3}$	0	$-\sqrt{3}$	0	0	0	0	-2	1	1	-2
GM16	2	-1	-1	2	$-\sqrt{3}$	$\sqrt{3}$	0	$-\sqrt{3}$	0	$\sqrt{3}$	0	0	0	0	-2	1	1	-2
GM17	2	-1	1	-2	$\sqrt{3}$	$-\sqrt{3}$	0	$-\sqrt{3}$	0	$\sqrt{3}$	0	0	0	0	-2	1	-1	2
GM18	2	-1	1	-2	$-\sqrt{3}$	$\sqrt{3}$	0	$\sqrt{3}$	0	$-\sqrt{3}$	0	0	0	0	-2	1	-1	2

$$2_{001}6/1m^{-1}m^m{}_{001}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^2\}$
 $C_3: \{1||-6_{001}^5\}$
 $C_4: \{1||-6_{001}^1\}$
 $C_5: \{1||m_{001}\}$
 $C_6: \{1||3_{001}^1\}$
 $C_7: \{2_{001}||6_{001}^5\}$
 $C_8: \{2_{001}||6_{001}^1\}$
 $C_9: \{2_{001}||2_{001}\}$
 $C_{10}: \{2_{001}||-3_{001}^1\}$
 $C_{11}: \{2_{001}||-1\}$
 $C_{12}: \{2_{001}||-3_{001}^2\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||3_{001}^2\}$
 $C_{15}: \{^d1||-6_{001}^5\}$
 $C_{16}: \{^d1||-6_{001}^1\}$
 $C_{17}: \{^d1||m_{001}\}$
 $C_{18}: \{^d1||3_{001}^1\}$
 $C_{19}: \{^d2_{001}||6_{001}^5\}$
 $C_{20}: \{^d2_{001}||6_{001}^1\}$
 $C_{21}: \{^d2_{001}||2_{001}\}$
 $C_{22}: \{^d2_{001}||-3_{001}^1\}$
 $C_{23}: \{^d2_{001}||-1\}$
 $C_{24}: \{^d2_{001}||-3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	1	-1	-1	-1	1	1	1
GM3	1	1	-1	-1	-1	1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	1	-1	-1	-1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM5	1	- ω^*	ω^*	ω	-1	- ω^*	ω^*	ω	-1	- ω^*	1	- ω	1	- ω	ω^*	ω	-1	- ω^*	ω^*	ω	-1	- ω^*	1	- ω
GM6	1	- ω^*	ω	ω^*	-1	- ω	ω	ω^*	-1	- ω	1	- ω^*	1	- ω^*	ω	ω^*	-1	- ω	ω	ω^*	-1	- ω	1	- ω^*
GM7	1	- ω	ω^*	ω	-1	- ω^*	- ω^*	- ω	1	ω^*	-1	ω	1	- ω	ω^*	ω	-1	- ω^*	- ω^*	- ω	1	ω^*	-1	ω
GM8	1	- ω^*	ω	ω^*	-1	- ω	- ω	- ω^*	1	ω	-1	ω^*	1	- ω^*	ω	ω^*	-1	- ω	- ω	- ω^*	1	ω	-1	ω^*
GM9	1	- ω	- ω^*	- ω	1	- ω^*	ω^*	ω	-1	ω^*	-1	ω	1	- ω	- ω^*	- ω	1	- ω^*	ω^*	ω	-1	ω^*	-1	ω
GM10	1	- ω^*	- ω	- ω^*	1	- ω	ω	ω^*	-1	ω	-1	ω^*	1	- ω^*	- ω	- ω^*	1	- ω	ω	ω^*	-1	ω	-1	ω^*
GM11	1	- ω	- ω^*	- ω	1	- ω^*	- ω^*	- ω	1	- ω^*	1	- ω	1	- ω	- ω^*	- ω	1	- ω^*	- ω^*	- ω	1	- ω^*	1	- ω
GM12	1	- ω^*	- ω	- ω^*	1	- ω	- ω	- ω^*	1	- ω	1	- ω^*	1	- ω^*	- ω	- ω^*	1	- ω	- ω	- ω^*	1	- ω	1	- ω^*
GM13GM14	2	2	-2	-2	-2	2	0	0	0	0	0	0	-2	-2	2	2	2	-2	0	0	0	0	0	0
GM15GM16	2	2	2	2	2	2	0	0	0	0	0	0	-2	-2	-2	-2	-2	-2	0	0	0	0	0	0
GM17GM18	2	-2 ω	2 ω^*	2 ω	-2	-2 ω^*	0	0	0	0	0	0	-2	2 ω	-2 ω^*	-2 ω	2	2 ω^*	0	0	0	0	0	0
GM19GM20	2	-2 ω^*	2 ω	2 ω^*	-2	-2 ω	0	0	0	0	0	0	-2	2 ω^*	-2 ω	-2 ω^*	2	2 ω	0	0	0	0	0	0
GM21GM22	2	-2 ω	-2 ω^*	-2 ω	2	-2 ω^*	0	0	0	0	0	0	-2	2 ω	2 ω^*	2 ω	-2	2 ω^*	0	0	0	0	0	0
GM23GM24	2	-2 ω^*	-2 ω	-2 ω^*	2	-2 ω	0	0	0	0	0	0	-2	2 ω^*	2 ω	2 ω^*	-2	2 ω	0	0	0	0	0	0

$$m_{001}6^1m^{2001}m^{-1}m$$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^2\}, \{1||3_{001}^1\}$
 $C_3: \{1||-6_{001}^5\}, \{1||-6_{001}^1\}$
 $C_4: \{1||m_{001}\}$
 $C_5: \{2_{001}||m_{\frac{2}{3}\pi}\}, \{2_{001}||m_{\frac{1}{3}\pi}\}, \{2_{001}||m_{100}\}$
 $C_6: \{2_{001}||2_{\frac{1}{6}\pi}\}, \{2_{001}||2_{010}\}, \{2_{001}||2_{\frac{5}{6}\pi}\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^2\}, \{^d1||3_{001}^1\}$
 $C_9: \{^d1||-6_{001}^5\}, \{^d1||-6_{001}^1\}$
 $C_{10}: \{^d1||m_{001}\}$
 $C_{11}: \{^d2_{001}||m_{\frac{2}{3}\pi}\}, \{^d2_{001}||m_{\frac{1}{3}\pi}\}, \{^d2_{001}||m_{100}\}$
 $C_{12}: \{^d2_{001}||2_{\frac{1}{6}\pi}\}, \{^d2_{001}||2_{010}\}, \{^d2_{001}||2_{\frac{5}{6}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-1	-1	2	0	0	2	-1	-1	2	0	0
GM6	2	-1	1	-2	0	0	2	-1	1	-2	0	0
<u>GM7GM7</u>	4	-2	-2	4	0	0	-4	2	2	-4	0	0
<u>GM8GM8</u>	4	-2	2	-4	0	0	-4	2	-2	4	0	0
<u>GM9GM10</u>	2	2	-2	-2	0	0	-2	-2	2	2	0	0
<u>GM11GM12</u>	2	2	2	2	0	0	-2	-2	-2	-2	0	0

$$^{-1}6/1m^{2001}m^{m001}m$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^2\}, \{1\|3_{001}^1\}$
 $C_3: \{1\| -6_{001}^5\}, \{1\| -6_{001}^1\}$
 $C_4: \{1\|m_{001}\}$
 $C_5: \{2_{001}\|m_{\frac{2}{3}\pi}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{100}\}$
 $C_6: \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3_{001}^2\}, \{^d1\|3_{001}^1\}$
 $C_9: \{^d1\| -6_{001}^5\}, \{^d1\| -6_{001}^1\}$
 $C_{10}: \{^d1\|m_{001}\}$
 $C_{11}: \{^d2_{001}\|m_{\frac{2}{3}\pi}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{100}\}$
 $C_{12}: \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-1	-1	2	0	0	2	-1	-1	2	0	0
GM6	2	-1	1	-2	0	0	2	-1	1	-2	0	0
<u>GM7</u>	2	-1	-1	2	0	0	-2	1	1	-2	0	0
<u>GM8</u>	2	-1	1	-2	0	0	-2	1	-1	2	0	0
<u>GM9GM10</u>	2	2	-2	-2	0	0	-2	-2	2	2	0	0
<u>GM11GM12</u>	2	2	2	2	0	0	-2	-2	-2	-2	0	0

$2_{001}6/1m^m m_{100}m^m m_{010}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^2\}$
 $C_3: \{1||-6_{001}^5\}$
 $C_4: \{1||-6_{001}^1\}$
 $C_5: \{1||m_{001}\}$
 $C_6: \{1||3_{001}^1\}$
 $C_7: \{2_{001}||6_{001}^5\}$
 $C_8: \{2_{001}||6_{001}^1\}$
 $C_9: \{2_{001}||2_{001}\}$
 $C_{10}: \{2_{001}||-3_{001}^1\}$
 $C_{11}: \{2_{001}||-1\}$
 $C_{12}: \{2_{001}||-3_{001}^2\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||3_{001}^2\}$
 $C_{15}: \{^d1||-6_{001}^5\}$
 $C_{16}: \{^d1||-6_{001}^1\}$
 $C_{17}: \{^d1||m_{001}\}$
 $C_{18}: \{^d1||3_{001}^1\}$
 $C_{19}: \{^d2_{001}||6_{001}^5\}$
 $C_{20}: \{^d2_{001}||6_{001}^1\}$
 $C_{21}: \{^d2_{001}||2_{001}\}$
 $C_{22}: \{^d2_{001}||-3_{001}^1\}$
 $C_{23}: \{^d2_{001}||-1\}$
 $C_{24}: \{^d2_{001}||-3_{001}^2\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	1	-1	-1	-1	1	1	1
GM3	1	1	-1	-1	-1	1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	1	-1	-1	-1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM5	1	- ω	ω^*	ω	-1	- ω^*	ω^*	ω	-1	- ω^*	1	- ω	1	- ω	ω^*	ω	-1	- ω^*	ω^*	ω	-1	- ω^*	1	- ω
GM6	1	- ω^*	ω	ω^*	-1	- ω	ω	ω^*	-1	- ω	1	- ω^*	1	- ω^*	ω	ω^*	-1	- ω	ω	ω^*	-1	- ω	1	- ω^*
GM7	1	- ω	ω^*	ω	-1	- ω^*	- ω^*	- ω	1	ω^*	-1	ω	1	- ω	ω^*	ω	-1	- ω^*	- ω^*	- ω	1	ω^*	-1	ω
GM8	1	- ω^*	ω	ω^*	-1	- ω	- ω	- ω^*	1	ω	-1	ω^*	1	- ω^*	ω	ω^*	-1	- ω	- ω	- ω^*	1	ω	-1	ω^*
GM9	1	- ω	- ω^*	- ω	1	- ω^*	ω^*	ω	-1	ω^*	-1	ω	1	- ω	- ω^*	- ω	1	- ω^*	ω^*	ω	-1	ω^*	-1	ω
GM10	1	- ω^*	- ω	- ω^*	1	- ω	ω	ω^*	-1	ω	-1	ω^*	1	- ω^*	- ω	- ω^*	1	- ω	ω	ω^*	-1	ω	-1	ω^*
GM11	1	- ω	- ω^*	- ω	1	- ω^*	- ω^*	- ω	1	- ω^*	1	- ω	1	- ω	- ω^*	- ω	1	- ω^*	- ω^*	- ω	1	- ω^*	1	- ω
GM12	1	- ω^*	- ω	- ω^*	1	- ω	- ω	- ω^*	1	- ω	1	- ω^*	1	- ω^*	- ω	- ω^*	1	- ω	- ω	- ω^*	1	- ω	1	- ω^*
GM13	1	1	-1	-1	-1	1	-i	-i	-i	i	i	i	-1	-1	1	1	1	-1	i	i	i	-i	-i	-i
GM14	1	1	-1	-1	-1	1	i	i	i	-i	-i	-i	-1	-1	1	1	1	-1	-i	-i	-i	i	i	i
GM15	1	1	1	1	1	1	-i	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i	i	i
GM16	1	1	1	1	1	1	i	i	i	i	i	i	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i	-i
GM17	1	- ω	ω^*	ω	-1	- ω^*	τ	- τ^*	-i	- τ	i	τ^*	-1	ω	- ω^*	- ω	1	ω^*	- τ	τ^*	i	τ	-i	- τ^*
GM18	1	- ω	ω^*	ω	-1	- ω^*	- τ	τ^*	i	τ	-i	- τ^*	-1	ω	- ω^*	- ω	1	ω^*	τ	- τ^*	-i	- τ	i	τ^*
GM19	1	- ω^*	ω	ω^*	-1	- ω	- τ^*	τ	-i	τ^*	i	- τ	-1	ω^*	- ω	- ω^*	1	ω	τ^*	- τ	i	- τ^*	-i	τ
GM20	1	- ω^*	ω	ω^*	-1	- ω	τ^*	- τ	i	- τ^*	-i	τ	-1	ω^*	- ω	- ω^*	1	ω	- τ^*	τ	-i	τ^*	i	- τ
GM21	1	- ω	- ω^*	- ω	1	- ω^*	τ	- τ^*	-i	τ	-i	- τ^*	-1	ω	ω^*	ω	-1	ω^*	- τ	τ^*	i	- τ	i	τ^*
GM22	1	- ω	- ω^*	- ω	1	- ω^*	- τ	τ^*	i	- τ	i	τ^*	-1	ω	ω^*	ω	-1	ω^*	τ	- τ^*	-i	τ	-i	- τ^*
GM23	1	- ω^*	- ω	- ω^*	1	- ω	- τ^*	τ	-i	- τ^*	-i	τ	-1	ω^*	ω	ω^*	-1	ω	τ^*	- τ	i	τ^*	i	- τ
GM24	1	- ω^*	- ω	- ω^*	1	- ω	τ^*	- τ	i	τ^*	i	- τ	-1	ω^*	ω	ω^*	-1	ω	- τ^*	τ	-i	- τ^*	-i	τ

$$m_{010}6^1m^2_{001}m^m_{100}m$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3^2_{001}\}, \{1\|3^1_{001}\}$
 $C_3: \{1\|-6^5_{001}\}, \{1\|-6^1_{001}\}$
 $C_4: \{1\|m_{001}\}$
 $C_5: \{2_{001}\|m_{\frac{2}{3}\pi}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{100}\}$
 $C_6: \{2_{001}\|2^{\frac{1}{6}\pi}\}, \{2_{001}\|2_{010}\}, \{2_{001}\|2^{\frac{5}{6}\pi}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3^2_{001}\}, \{^d1\|3^1_{001}\}$
 $C_9: \{^d1\|-6^5_{001}\}, \{^d1\|-6^1_{001}\}$
 $C_{10}: \{^d1\|m_{001}\}$
 $C_{11}: \{^d2_{001}\|m_{\frac{2}{3}\pi}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{100}\}$
 $C_{12}: \{^d2_{001}\|2^{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2^{\frac{5}{6}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-1	-1	2	0	0	2	-1	-1	2	0	0
GM6	2	-1	1	-2	0	0	2	-1	1	-2	0	0
<u>GM7</u>	1	1	-1	-1	-i	i	-1	-1	1	1	i	-i
<u>GM8</u>	1	1	-1	-1	i	-i	-1	-1	1	1	-i	i
<u>GM9</u>	1	1	1	1	-i	-i	-1	-1	-1	-1	i	i
<u>GM10</u>	1	1	1	1	i	i	-1	-1	-1	-1	-i	-i
<u>GM11</u>	2	-1	-1	2	0	0	-2	1	1	-2	0	0
<u>GM12</u>	2	-1	1	-2	0	0	-2	1	-1	2	0	0

$16/1m^{-1}m^{-1}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{1||6_{001}^1\}$
 $C_5: \{1||6_{001}^5\}$
 $C_6: \{1||-1\}$
 $C_7: \{1||m_{001}\}$
 $C_8: \{1||-3_{001}^1\}$
 $C_9: \{1||-3_{001}^2\}$
 $C_{10}: \{1||-6_{001}^1\}$
 $C_{11}: \{1||-6_{001}^5\}$
 $C_{12}: \{1||2_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||3_{001}^1\}$
 $C_{15}: \{^d1||3_{001}^2\}$
 $C_{16}: \{^d1||6_{001}^1\}$
 $C_{17}: \{^d1||6_{001}^5\}$
 $C_{18}: \{^d1||-1\}$
 $C_{19}: \{^d1||m_{001}\}$
 $C_{20}: \{^d1||-3_{001}^1\}$
 $C_{21}: \{^d1||-3_{001}^2\}$
 $C_{22}: \{^d1||-6_{001}^1\}$
 $C_{23}: \{^d1||-6_{001}^5\}$
 $C_{24}: \{^d1||2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	-1	1	1	-1	-1	1	1	1	-1	-1	-1	1	-1	-1	1	1	-1
GM3	1	1	1	-1	-1	1	-1	1	1	-1	-1	-1	1	1	1	-1	1	1	-1	1	-1	-1	-1	-1
GM4	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
GM5	1	- ω	- ω^*	ω^*	ω	-1	1	ω	ω^*	- ω^*	- ω	-1	1	- ω	- ω^*	ω^*	ω	-1	1	ω	ω^*	- ω^*	- ω	-1
GM6	1	- ω^*	- ω	ω	ω^*	-1	1	ω^*	ω	- ω	- ω^*	-1	1	- ω^*	- ω	ω	ω^*	-1	1	ω^*	ω	- ω	- ω^*	-1
GM7	1	- ω	- ω^*	ω^*	ω	1	-1	- ω	- ω^*	ω^*	ω	-1	1	- ω	- ω^*	ω^*	ω	1	-1	- ω	- ω^*	ω^*	ω	-1
GM8	1	- ω^*	- ω	ω	ω^*	1	-1	- ω^*	- ω	ω	ω^*	-1	1	- ω^*	- ω	ω	ω^*	1	-1	- ω^*	- ω	ω	ω^*	-1
GM9	1	- ω	- ω^*	- ω^*	- ω	-1	-1	ω	ω^*	ω^*	ω	1	1	- ω	- ω^*	- ω^*	- ω	-1	-1	ω	ω^*	ω^*	ω	1
GM10	1	- ω^*	- ω	- ω	- ω^*	-1	-1	ω^*	ω	ω	ω^*	1	1	- ω^*	- ω	- ω	- ω^*	-1	-1	ω^*	ω	ω	ω^*	1
GM11	1	- ω	- ω^*	- ω^*	- ω	1	1	- ω	- ω^*	- ω^*	- ω	1	1	- ω	- ω^*	- ω^*	- ω	1	1	- ω	- ω^*	- ω^*	- ω	1
GM12	1	- ω^*	- ω	- ω	- ω^*	1	1	- ω^*	- ω	- ω	- ω^*	1	1	- ω^*	- ω	- ω	- ω^*	1	1	- ω^*	- ω	- ω	- ω^*	1
GM13GM13	2	2	2	-2	-2	-2	2	-2	-2	2	2	-2	-2	-2	-2	2	2	2	-2	2	2	-2	-2	2
GM14GM14	2	2	2	-2	-2	2	-2	2	2	-2	-2	-2	-2	-2	-2	2	2	-2	2	-2	-2	2	2	2
GM15GM15	2	2	2	2	2	-2	-2	-2	-2	-2	-2	2	-2	-2	-2	-2	-2	2	2	2	2	2	2	-2
GM16GM16	2	2	2	2	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
GM17GM17	2	-2 ω	-2 ω^*	2 ω^*	2 ω	-2	2	2 ω	2 ω^*	-2 ω^*	-2 ω	-2	-2	2 ω	2 ω^*	-2 ω^*	-2 ω	2	-2	-2 ω	-2 ω^*	2 ω^*	2 ω	2
GM18GM18	2	-2 ω^*	-2 ω	2 ω	-2	2	2 ω^*	2 ω	-2 ω	-2 ω^*	-2	-2	2 ω^*	2 ω	-2 ω^*	-2 ω	-2 ω^*	2	-2	-2 ω^*	-2 ω	2 ω^*	2 ω	2
GM19GM19	2	-2 ω	-2 ω^*	2 ω^*	2 ω	2	-2	-2 ω	-2 ω^*	2 ω^*	2 ω	-2	-2	2 ω	2 ω^*	-2 ω^*	-2 ω	-2	2	2 ω	2 ω^*	-2 ω^*	-2 ω	2
GM20GM20	2	-2 ω^*	-2 ω	2 ω	2 ω^*	2	-2	-2 ω^*	-2 ω	2 ω	2 ω^*	-2	-2	2 ω^*	2 ω	-2 ω	-2 ω^*	-2	2	2 ω^*	2 ω	-2 ω	-2 ω^*	2
GM21GM21	2	-2 ω	-2 ω^*	-2 ω^*	-2 ω	-2	-2	2 ω	2 ω^*	2 ω^*	2 ω	2	-2	2 ω	2 ω^*	2 ω^*	2 ω	2	2	-2 ω^*	-2 ω	-2 ω^*	-2 ω	-2
GM22GM22	2	-2 ω^*	-2 ω	-2 ω	-2 ω^*	-2	-2	2 ω^*	2 ω	2 ω	2 ω^*	2	-2	2 ω^*	2 ω	2 ω	2 ω^*	2	2	-2 ω^*	-2 ω	-2 ω^*	-2 ω	-2
GM23GM23	2	-2 ω	-2 ω^*	-2 ω^*	-2 ω	2	2	-2 ω	-2 ω^*	-2 ω^*	-2 ω	2	-2	2 ω	2 ω^*	2 ω^*	2 ω	-2	-2	2 ω	2 ω^*	2 ω^*	2 ω	-2
GM24GM24	2	-2 ω^*	-2 ω	-2 ω	-2 ω^*	2	2	-2 ω^*	-2 ω	-2 ω	-2 ω^*	2	-2	2 ω^*	2 ω	2 ω	2 ω^*	-2	-2	2 ω^*	2 ω	2 ω	2 ω^*	-2

$${}^16/{}^1m{}^2{}_{001}m{}^2{}_{001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|3^1_{001}\}, \{1\|3^2_{001}\}$$

$$C_3: \{1\|6^1_{001}\}, \{1\|6^5_{001}\}$$

$$C_4: \{1\|-1\}$$

$$C_5: \{1\|m_{001}\}$$

$$C_6: \{1\|-3^1_{001}\}, \{1\|-3^2_{001}\}$$

$$C_7: \{1\|-6^1_{001}\}, \{1\|-6^5_{001}\}$$

$$C_8: \{1\|2_{001}\}$$

$$C_9: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{\frac{1}{6}\pi}\}, \{2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_{10}: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_{11}: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$$

$$C_{12}: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$$

$$C_{13}: \{^d1\|1\}$$

$$C_{14}: \{^d1\|3^1_{001}\}, \{^d1\|3^2_{001}\}$$

$$C_{15}: \{^d1\|6^1_{001}\}, \{^d1\|6^5_{001}\}$$

$$C_{16}: \{^d1\|-1\}$$

$$C_{17}: \{^d1\|m_{001}\}$$

$$C_{18}: \{^d1\|-3^1_{001}\}, \{^d1\|-3^2_{001}\}$$

$$C_{19}: \{^d1\|-6^1_{001}\}, \{^d1\|-6^5_{001}\}$$

$$C_{20}: \{^d1\|2_{001}\}$$

$$C_{21}: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{\frac{1}{6}\pi}\}, \{^d2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_{22}: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_{23}: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$$

$$C_{24}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	1	-1	-1	1	1	-1	1	1	-1	-1	1	-1	1	-1	-1	1	1	-1
GM3	1	1	-1	-1	1	-1	1	-1	1	-1	1	1	1	1	-1	-1	1	-1	1	-1	1	-1	-1	1
GM4	1	1	-1	1	-1	1	-1	-1	-1	1	-1	1	1	1	-1	1	-1	1	-1	-1	-1	1	-1	1
GM5	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1
GM6	1	1	1	-1	-1	-1	-1	1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	1	-1	-1	1	1
GM7	1	1	1	-1	-1	-1	-1	1	1	1	-1	-1	1	1	1	-1	-1	-1	-1	1	1	1	-1	-1
GM8	1	1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1
GM9	2	-1	-1	-2	-2	1	1	2	0	0	0	0	2	-1	-1	-2	-2	1	1	2	0	0	0	0
GM10	2	-1	-1	2	2	-1	-1	2	0	0	0	0	2	-1	-1	2	2	-1	-1	2	0	0	0	0
GM11	2	-1	1	-2	2	1	-1	-2	0	0	0	0	2	-1	1	-2	2	1	-1	-2	0	0	0	0
GM12	2	-1	1	2	-2	-1	1	-2	0	0	0	0	2	-1	1	2	-2	-1	1	-2	0	0	0	0
GM13	1	1	-1	-1	1	-1	1	-1	-i	i	i	-i	-1	-1	1	1	-1	1	-1	1	i	-i	-i	i
GM14	1	1	-1	-1	1	-1	1	-1	i	-i	-i	i	-1	-1	1	1	-1	1	-1	1	-i	i	i	-i
GM15	1	1	-1	1	-1	1	-1	-1	-i	i	-i	i	-1	-1	1	-1	1	-1	1	1	i	-i	i	-i
GM16	1	1	-1	1	-1	1	-1	-1	i	-i	i	-i	-1	-1	1	-1	1	-1	1	1	-i	i	-i	i
GM17	1	1	1	-1	-1	-1	-1	1	-i	-i	i	i	-1	-1	-1	1	1	1	1	-1	i	i	-i	-i
GM18	1	1	1	-1	-1	-1	-1	1	i	i	-i	-i	-1	-1	-1	1	1	1	1	-1	-i	-i	i	i
GM19	1	1	1	1	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	-1	-1	-1	i	i	i
GM20	1	1	1	1	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-1	-1	-1	-1	-1	-i	-i	-i
GM21	2	-1	-1	-2	-2	1	1	2	0	0	0	0	-2	1	1	2	2	-1	-1	-2	0	0	0	0
GM22	2	-1	-1	2	2	-1	-1	2	0	0	0	0	-2	1	1	-2	-2	1	1	-2	0	0	0	0
GM23	2	-1	1	-2	2	1	-1	-2	0	0	0	0	-2	1	-1	2	-2	-1	1	2	0	0	0	0
GM24	2	-1	1	2	-2	-1	1	-2	0	0	0	0	-2	1	-1	-2	2	1	-1	2	0	0	0	0

$16/1m^{m001}m^{m001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^1\}$
 $C_3: \{1||3_{001}^2\}$
 $C_4: \{1||6_{001}^1\}$
 $C_5: \{1||6_{001}^5\}$
 $C_6: \{1||-1\}$
 $C_7: \{1||m_{001}\}$
 $C_8: \{1||-3_{001}^1\}$
 $C_9: \{1||-3_{001}^2\}$
 $C_{10}: \{1||-6_{001}^1\}$
 $C_{11}: \{1||-6_{001}^5\}$
 $C_{12}: \{1||2_{001}\}$
 $C_{13}: \{^d1||1\}$
 $C_{14}: \{^d1||3_{001}^1\}$
 $C_{15}: \{^d1||3_{001}^2\}$
 $C_{16}: \{^d1||6_{001}^1\}$
 $C_{17}: \{^d1||6_{001}^5\}$
 $C_{18}: \{^d1||-1\}$
 $C_{19}: \{^d1||m_{001}\}$
 $C_{20}: \{^d1||-3_{001}^1\}$
 $C_{21}: \{^d1||-3_{001}^2\}$
 $C_{22}: \{^d1||-6_{001}^1\}$
 $C_{23}: \{^d1||-6_{001}^5\}$
 $C_{24}: \{^d1||2_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	1	-1	-1	1	1	-1	1	1	1	-1	-1	-1	1	-1	-1	1	1	-1
GM3	1	1	1	-1	-1	1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	1	-1	1	1	-1	-1	-1
GM4	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
GM5	1	- ω	- ω^*	ω^*	ω	-1	1	ω	ω^*	- ω^*	- ω	-1	1	- ω	- ω^*	ω^*	ω	-1	1	ω	ω^*	- ω^*	- ω	-1
GM6	1	- ω^*	- ω	ω	ω^*	-1	1	ω^*	ω	- ω	- ω^*	-1	1	- ω^*	- ω	ω	ω^*	-1	1	ω^*	ω	- ω	- ω^*	-1
GM7	1	- ω	- ω^*	ω^*	ω	1	-1	- ω	- ω^*	ω^*	ω	-1	1	- ω	- ω^*	ω^*	ω	1	-1	- ω	- ω^*	ω^*	ω	-1
GM8	1	- ω^*	- ω	ω	ω^*	1	-1	- ω^*	- ω	ω	ω^*	-1	1	- ω^*	- ω	ω	ω^*	1	-1	- ω^*	- ω	ω	ω^*	-1
GM9	1	- ω	- ω^*	- ω^*	- ω	-1	-1	ω	ω^*	ω^*	ω	1	1	- ω	- ω^*	- ω^*	- ω	-1	-1	ω	ω^*	ω^*	ω	1
GM10	1	- ω^*	- ω	- ω	- ω^*	-1	-1	ω^*	ω	ω	ω^*	1	1	- ω^*	- ω	- ω	- ω^*	-1	-1	ω^*	ω	ω	ω^*	1
GM11	1	- ω	- ω^*	- ω^*	- ω	1	1	- ω	- ω^*	- ω^*	- ω	1	1	- ω	- ω^*	- ω^*	- ω	1	1	- ω	- ω^*	- ω^*	- ω	1
GM12	1	- ω^*	- ω	- ω	- ω^*	1	1	- ω^*	- ω	- ω	- ω^*	1	1	- ω^*	- ω	- ω	- ω^*	1	1	- ω^*	- ω	- ω	- ω^*	1
GM13	1	1	1	-1	-1	-1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	-1	1	1	-1	-1	1
GM14	1	1	1	-1	-1	1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	1	-1	-1	1	1	1
GM15	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1
GM16	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
GM17	1	- ω	- ω^*	ω^*	ω	-1	1	ω	ω^*	- ω^*	- ω	-1	-1	ω	ω^*	- ω^*	- ω	1	-1	- ω	- ω^*	ω^*	ω	1
GM18	1	- ω^*	- ω	ω	ω^*	-1	1	ω^*	ω	- ω	- ω^*	-1	-1	ω^*	ω	- ω	- ω^*	1	-1	- ω^*	- ω	ω	ω^*	1
GM19	1	- ω	- ω^*	ω^*	ω	1	-1	- ω	- ω^*	ω^*	ω	-1	-1	ω	ω^*	- ω^*	- ω	-1	1	ω	ω^*	- ω^*	- ω	1
GM20	1	- ω^*	- ω	ω	ω^*	1	-1	- ω^*	- ω	ω	ω^*	-1	-1	ω^*	ω	- ω	- ω^*	-1	1	ω^*	ω	- ω	- ω^*	1
GM21	1	- ω	- ω^*	- ω^*	- ω	-1	-1	ω	ω^*	ω^*	ω	1	-1	ω	ω^*	ω^*	ω	1	1	- ω	- ω^*	- ω^*	- ω	-1
GM22	1	- ω^*	- ω	- ω	- ω^*	-1	-1	ω^*	ω	ω	ω^*	1	-1	ω^*	ω	ω	ω^*	1	1	- ω^*	- ω	- ω	- ω^*	-1
GM23	1	- ω	- ω^*	- ω	- ω	1	1	- ω	- ω^*	- ω^*	- ω	1	-1	ω^*	ω	ω^*	ω	-1	-1	ω	ω^*	ω^*	ω	-1
GM24	1	- ω^*	- ω	- ω	- ω^*	1	1	- ω^*	- ω	- ω	- ω^*	1	-1	ω^*	ω	ω	ω^*	-1	-1	ω^*	ω	ω	ω^*	-1

$16^-1m^-1m^-1m$

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}

C₃: {1||2₀₁₀}, {1||2 _{$\frac{1}{6}\pi$} }, {1||2 _{$\frac{5}{6}\pi$} }

C₄: {1||2₁₀₀}, {1||2 _{$\frac{1}{3}\pi$} }, {1||2 _{$\frac{2}{3}\pi$} }

C₅: {1||3₀₀₁¹}, {1||3₀₀₁²}

C₆: {1||6₀₀₁¹}, {1||6₀₀₁⁵}

C₇: {^d1||1}

C₈: {^d1||2₀₀₁}

C₉: {^d1||2₀₁₀}, {^d1||2 _{$\frac{1}{6}\pi$} }, {^d1||2 _{$\frac{5}{6}\pi$} }

C₁₀: {^d1||2₁₀₀}, {^d1||2 _{$\frac{1}{3}\pi$} }, {^d1||2 _{$\frac{2}{3}\pi$} }

C₁₁: {^d1||3₀₀₁¹}, {^d1||3₀₀₁²}

C₁₂: {^d1||6₀₀₁¹}, {^d1||6₀₀₁⁵}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	1	1	-1	-1	1	1
GM5	2	-2	0	0	-1	1	2	-2	0	0	-1	1
GM6	2	2	0	0	-1	-1	2	2	0	0	-1	-1
<u>GM7GM7</u>	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2
<u>GM8GM8</u>	2	-2	2	-2	2	-2	-2	2	-2	2	-2	2
<u>GM9GM9</u>	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2
<u>GM10GM10</u>	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
<u>GM11GM11</u>	4	-4	0	0	-2	2	-4	4	0	0	2	-2
<u>GM12GM12</u>	4	4	0	0	-2	-2	-4	-4	0	0	2	2

$$^16/2_{001}m^2_{001}m^2_{001}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$$

$$C_4: \{1\|2_{100}\}, \{1\|2_{\frac{1}{3}\pi}\}, \{1\|2_{\frac{2}{3}\pi}\}$$

$$C_5: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_6: \{1\|6_{001}^1\}, \{1\|6_{001}^5\}$$

$$C_7: \{2_{001}\| - 1\}$$

$$C_8: \{2_{001}\| - 3_{001}^1\}, \{2_{001}\| - 3_{001}^2\}$$

$$C_9: \{2_{001}\| - 6_{001}^1\}, \{2_{001}\| - 6_{001}^5\}$$

$$C_{10}: \{2_{001}\|m_{001}\}$$

$$C_{11}: \{2_{001}\|m_{010}\}, \{2_{001}\|m_{\frac{1}{6}\pi}\}, \{2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_{12}: \{2_{001}\|m_{100}\}, \{2_{001}\|m_{\frac{1}{3}\pi}\}, \{2_{001}\|m_{\frac{2}{3}\pi}\}$$

$$C_{13}: \{^d1\|1\}$$

$$C_{14}: \{^d1\|2_{001}\}$$

$$C_{15}: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$$

$$C_{16}: \{^d1\|2_{100}\}, \{^d1\|2_{\frac{1}{3}\pi}\}, \{^d1\|2_{\frac{2}{3}\pi}\}$$

$$C_{17}: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_{18}: \{^d1\|6_{001}^1\}, \{^d1\|6_{001}^5\}$$

$$C_{19}: \{^d2_{001}\| - 1\}$$

$$C_{20}: \{^d2_{001}\| - 3_{001}^1\}, \{^d2_{001}\| - 3_{001}^2\}$$

$$C_{21}: \{^d2_{001}\| - 6_{001}^1\}, \{^d2_{001}\| - 6_{001}^5\}$$

$$C_{22}: \{^d2_{001}\|m_{001}\}$$

$$C_{23}: \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m_{\frac{1}{6}\pi}\}, \{^d2_{001}\|m_{\frac{5}{6}\pi}\}$$

$$C_{24}: \{^d2_{001}\|m_{100}\}, \{^d2_{001}\|m_{\frac{1}{3}\pi}\}, \{^d2_{001}\|m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄	
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
GM2	1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	1	-1	-1	1	1	-1	-1	-1	1	1	1	1	-1
GM3	1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	-1	-1	1	1	-1	1	1	-1	-1	-1	-1	1
GM4	1	-1	1	-1	1	-1	-1	-1	1	1	-1	1	1	-1	1	-1	1	-1	-1	-1	1	1	-1	1	1
GM5	1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	-1	1	-1
GM6	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	1
GM7	1	1	-1	-1	1	1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	1	1	-1	-1	-1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
GM9	2	-2	0	0	-1	1	2	-1	1	-2	0	0	2	-2	0	0	-1	1	2	-1	1	-2	0	0	0
GM10	2	-2	0	0	-1	1	-2	1	-1	2	0	0	2	-2	0	0	-1	1	-2	1	-1	2	0	0	0
GM11	2	2	0	0	-1	-1	2	-1	-1	2	0	0	2	2	0	0	-1	-1	2	-1	-1	2	0	0	0
GM12	2	2	0	0	-1	-1	-2	1	1	-2	0	0	2	2	0	0	-1	-1	-2	1	1	-2	0	0	0
GM13	1	-1	-1	1	1	-1	-i	-i	i	i	i	-i	-1	1	1	-1	-1	1	i	i	-i	-i	-i	i	i
GM14	1	-1	-1	1	1	-1	i	i	-i	-i	-i	i	-1	1	1	-1	-1	1	-i	-i	i	i	i	i	-i
GM15	1	-1	1	-1	1	-1	-i	-i	i	i	-i	i	-1	1	-1	1	-1	1	i	i	-i	-i	-i	i	-i
GM16	1	-1	1	-1	1	-1	i	i	-i	-i	i	-i	-1	1	-1	1	-1	1	-i	-i	i	i	-i	i	i
GM17	1	1	-1	-1	1	1	-i	-i	-i	-i	i	i	-1	-1	1	1	-1	-1	i	i	i	i	-i	-i	-i
GM18	1	1	-1	-1	1	1	i	i	i	i	-i	-i	-1	-1	1	1	-1	-1	-i	-i	-i	-i	i	i	i
GM19	1	1	1	1	1	1	-i	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i	i	i	i
GM20	1	1	1	1	1	1	i	i	i	i	i	i	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i	-i	-i
GM21	2	-2	0	0	-1	1	-2i	i	-i	2i	0	0	-2	2	0	0	1	-1	2i	-i	i	-2i	0	0	0
GM22	2	-2	0	0	-1	1	2i	-i	i	-2i	0	0	-2	2	0	0	1	-1	-2i	i	-i	2i	0	0	0
GM23	2	2	0	0	-1	-1	-2i	i	i	-2i	0	0	-2	-2	0	0	1	1	2i	-i	-i	2i	0	0	0
GM24	2	2	0	0	-1	-1	2i	-i	-i	2i	0	0	-2	-2	0	0	1	1	-2i	i	i	-2i	0	0	0

$$16/m001m^m001m^m001m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}$$

$$C_3: \{1\|2_{010}\}, \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{\frac{5}{6}\pi}\}$$

$$C_4: \{1\|2_{100}\}, \{1\|2_{\frac{1}{3}\pi}\}, \{1\|2_{\frac{2}{3}\pi}\}$$

$$C_5: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$$

$$C_6: \{1\|6_{001}^1\}, \{1\|6_{001}^5\}$$

$$C_7: \{^d1\|1\}$$

$$C_8: \{^d1\|2_{001}\}$$

$$C_9: \{^d1\|2_{010}\}, \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$$

$$C_{10}: \{^d1\|2_{100}\}, \{^d1\|2_{\frac{1}{3}\pi}\}, \{^d1\|2_{\frac{2}{3}\pi}\}$$

$$C_{11}: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$$

$$C_{12}: \{^d1\|6_{001}^1\}, \{^d1\|6_{001}^5\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	-1	-1	1	1	1	1	-1	-1	1	1
GM5	2	-2	0	0	-1	1	2	-2	0	0	-1	1
GM6	2	2	0	0	-1	-1	2	2	0	0	-1	-1
GM7	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
GM8	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1
GM9	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
GM10	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM11	2	-2	0	0	-1	1	-2	2	0	0	1	-1
GM12	2	2	0	0	-1	-1	-2	-2	0	0	1	1

$16^{-1}m^1m^1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||2_{001}\}$
 $C_3: \{1||3_{001}^1\}, \{1||3_{001}^2\}$
 $C_4: \{1||6_{001}^1\}, \{1||6_{001}^5\}$
 $C_5: \{1||m_{010}\}, \{1||m_{\frac{1}{6}\pi}\}, \{1||m_{\frac{5}{6}\pi}\}$
 $C_6: \{1||m_{100}\}, \{1||m_{\frac{1}{3}\pi}\}, \{1||m_{\frac{2}{3}\pi}\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||2_{001}\}$
 $C_9: \{^d1||3_{001}^1\}, \{^d1||3_{001}^2\}$
 $C_{10}: \{^d1||6_{001}^1\}, \{^d1||6_{001}^5\}$
 $C_{11}: \{^d1||m_{010}\}, \{^d1||m_{\frac{1}{6}\pi}\}, \{^d1||m_{\frac{5}{6}\pi}\}$
 $C_{12}: \{^d1||m_{100}\}, \{^d1||m_{\frac{1}{3}\pi}\}, \{^d1||m_{\frac{2}{3}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-2	-1	1	0	0	2	-2	-1	1	0	0
GM6	2	2	-1	-1	0	0	2	2	-1	-1	0	0
<u>GM7GM7</u>	2	-2	2	-2	-2	2	-2	2	-2	2	2	-2
<u>GM8GM8</u>	2	-2	2	-2	2	-2	-2	2	-2	2	-2	2
<u>GM9GM9</u>	2	2	2	2	-2	-2	-2	-2	-2	-2	2	2
<u>GM10GM10</u>	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
<u>GM11GM11</u>	4	-4	-2	2	0	0	-4	4	2	-2	0	0
<u>GM12GM12</u>	4	4	-2	-2	0	0	-4	-4	2	2	0	0

$16/2_{001}m^1m^1m$

Classes:

- $C_1: \{1\|1\}$
- $C_2: \{1\|2_{001}\}$
- $C_3: \{1\|3_{001}^1\}, \{1\|3_{001}^2\}$
- $C_4: \{1\|6_{001}^1\}, \{1\|6_{001}^5\}$
- $C_5: \{1\|m_{010}\}, \{1\|m_{\frac{1}{6}\pi}\}, \{1\|m_{\frac{5}{6}\pi}\}$
- $C_6: \{1\|m_{100}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{\frac{2}{3}\pi}\}$
- $C_7: \{2_{001}\| - 1\}$
- $C_8: \{2_{001}\| - 3_{001}^1\}, \{2_{001}\| - 3_{001}^2\}$
- $C_9: \{2_{001}\| - 6_{001}^1\}, \{2_{001}\| - 6_{001}^5\}$
- $C_{10}: \{2_{001}\|2_{010}\}, \{2_{001}\|2_{\frac{1}{6}\pi}\}, \{2_{001}\|2_{\frac{5}{6}\pi}\}$
- $C_{11}: \{2_{001}\|2_{100}\}, \{2_{001}\|2_{\frac{1}{3}\pi}\}, \{2_{001}\|2_{\frac{2}{3}\pi}\}$
- $C_{12}: \{2_{001}\|m_{001}\}$
- $C_{13}: \{^d1\|1\}$
- $C_{14}: \{^d1\|2_{001}\}$
- $C_{15}: \{^d1\|3_{001}^1\}, \{^d1\|3_{001}^2\}$
- $C_{16}: \{^d1\|6_{001}^1\}, \{^d1\|6_{001}^5\}$
- $C_{17}: \{^d1\|m_{010}\}, \{^d1\|m_{\frac{1}{6}\pi}\}, \{^d1\|m_{\frac{5}{6}\pi}\}$
- $C_{18}: \{^d1\|m_{100}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{\frac{2}{3}\pi}\}$
- $C_{19}: \{^d2_{001}\| - 1\}$
- $C_{20}: \{^d2_{001}\| - 3_{001}^1\}, \{^d2_{001}\| - 3_{001}^2\}$
- $C_{21}: \{^d2_{001}\| - 6_{001}^1\}, \{^d2_{001}\| - 6_{001}^5\}$
- $C_{22}: \{^d2_{001}\|2_{010}\}, \{^d2_{001}\|2_{\frac{1}{6}\pi}\}, \{^d2_{001}\|2_{\frac{5}{6}\pi}\}$
- $C_{23}: \{^d2_{001}\|2_{100}\}, \{^d2_{001}\|2_{\frac{1}{3}\pi}\}, \{^d2_{001}\|2_{\frac{2}{3}\pi}\}$
- $C_{24}: \{^d2_{001}\|m_{001}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	-1	-1	1	1	-1	1	1	-1	1	-1	-1	1	-1	-1	1	1	-1	1
GM3	1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	1	-1	1	-1	-1	1	1	1	-1	-1	1	-1
GM4	1	-1	1	-1	1	-1	-1	-1	1	-1	1	1	1	-1	1	-1	1	-1	-1	-1	1	-1	1	1
GM5	1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	-1
GM6	1	1	1	1	-1	-1	-1	-1	-1	1	1	-1	1	1	1	1	-1	-1	-1	-1	-1	1	1	-1
GM7	1	1	1	1	-1	-1	1	1	1	-1	-1	1	1	1	1	1	-1	-1	1	1	1	-1	-1	1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
GM9	2	-2	-1	1	0	0	2	-1	1	0	0	-2	2	-2	-1	1	0	0	2	-1	1	0	0	-2
GM10	2	-2	-1	1	0	0	-2	1	-1	0	0	2	2	-2	-1	1	0	0	-2	1	-1	0	0	2
GM11	2	2	-1	-1	0	0	2	-1	-1	0	0	2	2	2	-1	-1	0	0	2	-1	-1	0	0	2
GM12	2	2	-1	-1	0	0	-2	1	1	0	0	-2	2	2	-1	-1	0	0	-2	1	1	0	0	-2
GM13	1	-1	1	-1	-1	1	-i	-i	i	i	-i	i	-1	1	-1	1	1	-1	i	i	-i	-i	i	-i
GM14	1	-1	1	-1	-1	1	i	i	-i	-i	i	-i	-1	1	-1	1	1	-1	-i	-i	i	i	-i	i
GM15	1	-1	1	-1	1	-1	-i	-i	i	-i	i	i	-1	1	-1	1	-1	1	i	i	-i	i	-i	-i
GM16	1	-1	1	-1	1	-1	i	i	-i	i	-i	-i	-1	1	-1	1	-1	1	-i	-i	i	-i	i	i
GM17	1	1	1	1	-1	-1	-i	-i	-i	i	i	-i	-1	-1	-1	-1	1	1	i	i	i	-i	-i	i
GM18	1	1	1	1	-1	-1	i	i	i	-i	-i	i	-1	-1	-1	-1	1	1	-i	-i	-i	i	i	-i
GM19	1	1	1	1	1	1	-i	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i	i	i
GM20	1	1	1	1	1	1	i	i	i	i	i	i	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i	-i
GM21	2	-2	-1	1	0	0	-2i	i	-i	0	0	2i	-2	2	1	-1	0	0	2i	-i	i	0	0	-2i
GM22	2	-2	-1	1	0	0	2i	-i	i	0	0	-2i	-2	2	1	-1	0	0	-2i	i	-i	0	0	2i
GM23	2	2	-1	-1	0	0	-2i	i	i	0	0	-2i	-2	-2	1	1	0	0	2i	-i	-i	0	0	2i
GM24	2	2	-1	-1	0	0	2i	-i	-i	0	0	2i	-2	-2	1	1	0	0	-2i	i	i	0	0	-2i

$$16/m001m^1m^1m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}$$

$$C_3: \{1||3_{001}^1\}, \{1||3_{001}^2\}$$

$$C_4: \{1||6_{001}^1\}, \{1||6_{001}^5\}$$

$$C_5: \{1||m_{010}\}, \{1||m_{\frac{1}{6}\pi}\}, \{1||m_{\frac{5}{6}\pi}\}$$

$$C_6: \{1||m_{100}\}, \{1||m_{\frac{1}{3}\pi}\}, \{1||m_{\frac{2}{3}\pi}\}$$

$$C_7: \{^d1||1\}$$

$$C_8: \{^d1||2_{001}\}$$

$$C_9: \{^d1||3_{001}^1\}, \{^d1||3_{001}^2\}$$

$$C_{10}: \{^d1||6_{001}^1\}, \{^d1||6_{001}^5\}$$

$$C_{11}: \{^d1||m_{010}\}, \{^d1||m_{\frac{1}{6}\pi}\}, \{^d1||m_{\frac{5}{6}\pi}\}$$

$$C_{12}: \{^d1||m_{100}\}, \{^d1||m_{\frac{1}{3}\pi}\}, \{^d1||m_{\frac{2}{3}\pi}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
GM3	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
GM4	1	1	1	1	-1	-1	1	1	1	1	-1	-1
GM5	2	-2	-1	1	0	0	2	-2	-1	1	0	0
GM6	2	2	-1	-1	0	0	2	2	-1	-1	0	0
<u>GM7</u>	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1
<u>GM8</u>	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1
<u>GM9</u>	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1
<u>GM10</u>	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
<u>GM11</u>	2	-2	-1	1	0	0	-2	2	1	-1	0	0
<u>GM12</u>	2	2	-1	-1	0	0	-2	-2	1	1	0	0

$-16/1m^1m^{-1}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{001}^2\}, \{1||3_{001}^1\}$
 $C_3: \{1||-6_{001}^5\}, \{1||-6_{001}^1\}$
 $C_4: \{1||m_{\frac{2}{3}\pi}\}, \{1||m_{\frac{1}{3}\pi}\}, \{1||m_{100}\}$
 $C_5: \{1||m_{001}\}$
 $C_6: \{1||2_{\frac{1}{6}\pi}\}, \{1||2_{010}\}, \{1||2_{\frac{5}{6}\pi}\}$
 $C_7: \{^d1||1\}$
 $C_8: \{^d1||3_{001}^2\}, \{^d1||3_{001}^1\}$
 $C_9: \{^d1||-6_{001}^5\}, \{^d1||-6_{001}^1\}$
 $C_{10}: \{^d1||m_{\frac{2}{3}\pi}\}, \{^d1||m_{\frac{1}{3}\pi}\}, \{^d1||m_{100}\}$
 $C_{11}: \{^d1||m_{001}\}$
 $C_{12}: \{^d1||2_{\frac{1}{6}\pi}\}, \{^d1||2_{010}\}, \{^d1||2_{\frac{5}{6}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1
GM4	1	1	1	-1	1	-1	1	1	1	-1	1	-1
GM5	2	-1	-1	0	2	0	2	-1	-1	0	2	0
GM6	2	-1	1	0	-2	0	2	-1	1	0	-2	0
<u>GM7GM7</u>	2	2	-2	-2	-2	2	-2	-2	2	2	2	-2
<u>GM8GM8</u>	2	2	-2	2	-2	-2	-2	-2	2	-2	2	2
<u>GM9GM9</u>	2	2	2	-2	2	-2	-2	-2	-2	2	-2	2
<u>GM10GM10</u>	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
<u>GM11GM11</u>	4	-2	-2	0	4	0	-4	2	2	0	-4	0
<u>GM12GM12</u>	4	-2	2	0	-4	0	-4	2	-2	0	4	0

$2_{001}6/1m^1m^2_{001}m$

Classes:

- $C_1: \{1\|1\}$
- $C_2: \{1\|3^2_{001}\}, \{1\|3^1_{001}\}$
- $C_3: \{1\|-6^5_{001}\}, \{1\|-6^1_{001}\}$
- $C_4: \{1\|m^{\frac{2}{3}}_{\pi}\}, \{1\|m^{\frac{1}{3}}_{\pi}\}, \{1\|m_{100}\}$
- $C_5: \{1\|m_{001}\}$
- $C_6: \{1\|2^{\frac{1}{6}}_{\pi}\}, \{1\|2_{010}\}, \{1\|2^{\frac{5}{6}}_{\pi}\}$
- $C_7: \{2_{001}\|6^5_{001}\}, \{2_{001}\|6^1_{001}\}$
- $C_8: \{2_{001}\|2_{001}\}$
- $C_9: \{2_{001}\|-3^1_{001}\}, \{2_{001}\|-3^2_{001}\}$
- $C_{10}: \{2_{001}\|m^{\frac{1}{6}}_{\pi}\}, \{2_{001}\|m_{010}\}, \{2_{001}\|m^{\frac{5}{6}}_{\pi}\}$
- $C_{11}: \{2_{001}\|-1\}$
- $C_{12}: \{2_{001}\|2^{\frac{2}{3}}_{\pi}\}, \{2_{001}\|2^{\frac{1}{3}}_{\pi}\}, \{2_{001}\|2_{100}\}$
- $C_{13}: \{^d1\|1\}$
- $C_{14}: \{^d1\|3^2_{001}\}, \{^d1\|3^1_{001}\}$
- $C_{15}: \{^d1\|-6^5_{001}\}, \{^d1\|-6^1_{001}\}$
- $C_{16}: \{^d1\|m^{\frac{2}{3}}_{\pi}\}, \{^d1\|m^{\frac{1}{3}}_{\pi}\}, \{^d1\|m_{100}\}$
- $C_{17}: \{^d1\|m_{001}\}$
- $C_{18}: \{^d1\|2^{\frac{1}{6}}_{\pi}\}, \{^d1\|2_{010}\}, \{^d1\|2^{\frac{5}{6}}_{\pi}\}$
- $C_{19}: \{^d2_{001}\|6^5_{001}\}, \{^d2_{001}\|6^1_{001}\}$
- $C_{20}: \{^d2_{001}\|2_{001}\}$
- $C_{21}: \{^d2_{001}\|-3^1_{001}\}, \{^d2_{001}\|-3^2_{001}\}$
- $C_{22}: \{^d2_{001}\|m^{\frac{1}{6}}_{\pi}\}, \{^d2_{001}\|m_{010}\}, \{^d2_{001}\|m^{\frac{5}{6}}_{\pi}\}$
- $C_{23}: \{^d2_{001}\|-1\}$
- $C_{24}: \{^d2_{001}\|2^{\frac{2}{3}}_{\pi}\}, \{^d2_{001}\|2^{\frac{1}{3}}_{\pi}\}, \{^d2_{001}\|2_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄	
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
GM2	1	1	-1	-1	-1	1	-1	-1	1	1	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1	1	1	-1
GM3	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1
GM4	1	1	-1	1	-1	-1	-1	-1	1	-1	1	1	1	1	-1	1	-1	-1	-1	-1	1	-1	1	1	1
GM5	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	-1
GM6	1	1	1	-1	1	-1	-1	-1	-1	1	-1	1	1	1	1	-1	1	-1	-1	-1	-1	1	-1	1	1
GM7	1	1	1	-1	1	-1	1	1	1	-1	1	-1	1	1	1	-1	1	-1	1	1	1	-1	1	-1	-1
GM8	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
GM9	2	-1	1	0	-2	0	-1	2	1	0	-2	0	2	-1	1	0	-2	0	-1	2	1	0	-2	0	0
GM10	2	-1	1	0	-2	0	1	-2	-1	0	2	0	2	-1	1	0	-2	0	1	-2	-1	0	2	0	0
GM11	2	-1	-1	0	2	0	-1	2	-1	0	2	0	2	-1	-1	0	2	0	-1	2	-1	0	2	0	0
GM12	2	-1	-1	0	2	0	1	-2	1	0	-2	0	2	-1	-1	0	2	0	1	-2	1	0	-2	0	0
GM13	1	1	-1	-1	-1	1	-i	-i	i	i	i	-i	-1	-1	1	1	1	-1	i	i	-i	-i	-i	i	i
GM14	1	1	-1	-1	-1	1	i	i	-i	-i	-i	i	-1	-1	1	1	1	-1	-i	-i	i	i	i	i	-i
GM15	1	1	-1	1	-1	-1	-i	-i	i	-i	i	i	-1	-1	1	-1	1	1	i	i	-i	i	-i	-i	-i
GM16	1	1	-1	1	-1	-1	i	i	-i	i	-i	-i	-1	-1	1	-1	1	1	-i	-i	i	-i	i	i	i
GM17	1	1	1	-1	1	-1	-i	-i	-i	i	-i	i	-1	-1	-1	1	-1	1	i	i	i	-i	i	i	-i
GM18	1	1	1	-1	1	-1	i	i	i	-i	i	-i	-1	-1	-1	1	-1	1	-i	-i	-i	i	-i	i	i
GM19	1	1	1	1	1	1	-i	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i	i	i	i
GM20	1	1	1	1	1	1	i	i	i	i	i	i	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i	-i	-i
GM21	2	-1	1	0	-2	0	i	-2i	-i	0	2i	0	-2	1	-1	0	2	0	-i	2i	i	0	-2i	0	0
GM22	2	-1	1	0	-2	0	-i	2i	i	0	-2i	0	-2	1	-1	0	2	0	i	-2i	-i	0	2i	0	0
GM23	2	-1	-1	0	2	0	i	-2i	i	0	-2i	0	-2	1	1	0	-2	0	-i	2i	-i	0	2i	0	0
GM24	2	-1	-1	0	2	0	-i	2i	-i	0	2i	0	-2	1	1	0	-2	0	i	-2i	i	0	-2i	0	0

$$m_{001}6^1 m^1 m m_{001} m$$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{001}^2\}, \{1\|3_{001}^1\}$
 $C_3: \{1\| -6_{001}^5\}, \{1\| -6_{001}^1\}$
 $C_4: \{1\|m_{\frac{2}{3}\pi}\}, \{1\|m_{\frac{1}{3}\pi}\}, \{1\|m_{100}\}$
 $C_5: \{1\|m_{001}\}$
 $C_6: \{1\|2_{\frac{1}{6}\pi}\}, \{1\|2_{010}\}, \{1\|2_{\frac{5}{6}\pi}\}$
 $C_7: \{^d1\|1\}$
 $C_8: \{^d1\|3_{001}^2\}, \{^d1\|3_{001}^1\}$
 $C_9: \{^d1\| -6_{001}^5\}, \{^d1\| -6_{001}^1\}$
 $C_{10}: \{^d1\|m_{\frac{2}{3}\pi}\}, \{^d1\|m_{\frac{1}{3}\pi}\}, \{^d1\|m_{100}\}$
 $C_{11}: \{^d1\|m_{001}\}$
 $C_{12}: \{^d1\|2_{\frac{1}{6}\pi}\}, \{^d1\|2_{010}\}, \{^d1\|2_{\frac{5}{6}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂
GM1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
GM3	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1
GM4	1	1	1	-1	1	-1	1	1	1	-1	1	-1
GM5	2	-1	-1	0	2	0	2	-1	-1	0	2	0
GM6	2	-1	1	0	-2	0	2	-1	1	0	-2	0
<u>GM7</u>	1	1	-1	-1	-1	1	-1	-1	1	1	1	-1
<u>GM8</u>	1	1	-1	1	-1	-1	-1	-1	1	-1	1	1
<u>GM9</u>	1	1	1	-1	1	-1	-1	-1	-1	1	-1	1
<u>GM10</u>	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
<u>GM11</u>	2	-1	-1	0	2	0	-2	1	1	0	-2	0
<u>GM12</u>	2	-1	1	0	-2	0	-2	1	-1	0	2	0

$16/1m^1m^1m$

Classes:

- $C_1: \{1||1\}$
- $C_2: \{1||3_{001}^1\}, \{1||3_{001}^2\}$
- $C_3: \{1||6_{001}^1\}, \{1||6_{001}^5\}$
- $C_4: \{1||-1\}$
- $C_5: \{1||m_{001}\}$
- $C_6: \{1||m_{010}\}, \{1||m_{\frac{1}{6}\pi}\}, \{1||m_{\frac{5}{6}\pi}\}$
- $C_7: \{1||m_{100}\}, \{1||m_{\frac{1}{3}\pi}\}, \{1||m_{\frac{2}{3}\pi}\}$
- $C_8: \{1||-3_{001}^1\}, \{1||-3_{001}^2\}$
- $C_9: \{1||-6_{001}^1\}, \{1||-6_{001}^5\}$
- $C_{10}: \{1||2_{001}\}$
- $C_{11}: \{1||2_{010}\}, \{1||2_{\frac{1}{6}\pi}\}, \{1||2_{\frac{5}{6}\pi}\}$
- $C_{12}: \{1||2_{100}\}, \{1||2_{\frac{1}{3}\pi}\}, \{1||2_{\frac{2}{3}\pi}\}$
- $C_{13}: \{^d1||1\}$
- $C_{14}: \{^d1||3_{001}^1\}, \{^d1||3_{001}^2\}$
- $C_{15}: \{^d1||6_{001}^1\}, \{^d1||6_{001}^5\}$
- $C_{16}: \{^d1||-1\}$
- $C_{17}: \{^d1||m_{001}\}$
- $C_{18}: \{^d1||m_{010}\}, \{^d1||m_{\frac{1}{6}\pi}\}, \{^d1||m_{\frac{5}{6}\pi}\}$
- $C_{19}: \{^d1||m_{100}\}, \{^d1||m_{\frac{1}{3}\pi}\}, \{^d1||m_{\frac{2}{3}\pi}\}$
- $C_{20}: \{^d1||-3_{001}^1\}, \{^d1||-3_{001}^2\}$
- $C_{21}: \{^d1||-6_{001}^1\}, \{^d1||-6_{001}^5\}$
- $C_{22}: \{^d1||2_{001}\}$
- $C_{23}: \{^d1||2_{010}\}, \{^d1||2_{\frac{1}{6}\pi}\}, \{^d1||2_{\frac{5}{6}\pi}\}$
- $C_{24}: \{^d1||2_{100}\}, \{^d1||2_{\frac{1}{3}\pi}\}, \{^d1||2_{\frac{2}{3}\pi}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀	C ₂₁	C ₂₂	C ₂₃	C ₂₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	1	-1	-1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	1	-1	-1	1
GM4	1	1	-1	1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	1	-1	-1	1	1	-1	-1	-1	1
GM5	1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	-1	1	-1
GM6	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
GM7	1	1	1	-1	-1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	1	-1	-1
GM8	1	1	1	1	1	-1	-1	1	1	1	-1	-1	1	1	1	1	1	-1	-1	1	1	1	-1	-1
GM9	2	-1	-1	-2	-2	0	0	1	1	2	0	0	2	-1	-1	-2	-2	0	0	1	1	2	0	0
GM10	2	-1	-1	2	2	0	0	-1	-1	2	0	0	2	-1	-1	2	2	0	0	-1	-1	2	0	0
GM11	2	-1	1	-2	2	0	0	1	-1	-2	0	0	2	-1	1	-2	2	0	0	1	-1	-2	0	0
GM12	2	-1	1	2	-2	0	0	-1	1	-2	0	0	2	-1	1	2	-2	0	0	-1	1	-2	0	0
GM13	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	1
GM14	1	1	-1	-1	1	1	-1	-1	1	-1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	1	1	-1
GM15	1	1	-1	1	-1	-1	1	1	-1	-1	-1	1	-1	-1	1	-1	1	1	-1	-1	1	1	1	-1
GM16	1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	1
GM17	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
GM18	1	1	1	-1	-1	1	1	-1	-1	1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	1	1
GM19	1	1	1	1	1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	1	1
GM20	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
GM21	2	-1	-1	-2	-2	0	0	1	1	2	0	0	-2	1	1	2	2	0	0	-1	-1	-2	0	0
GM22	2	-1	-1	2	2	0	0	-1	-1	2	0	0	-2	1	1	-2	-2	0	0	1	1	-2	0	0
GM23	2	-1	1	-2	2	0	0	1	-1	-2	0	0	-2	1	-1	2	-2	0	0	-1	1	2	0	0
GM24	2	-1	1	2	-2	0	0	-1	1	-2	0	0	-2	1	-1	-2	2	0	0	1	-1	2	0	0

$$2_{100}2^3_{111}3$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{2_{010}\|2_{010}\}, \{2_{100}\|2_{100}\}, \{^d2_{001}\|2_{001}\}, \{^d2_{010}\|2_{010}\}, \{^d2_{100}\|2_{100}\}$$

$$C_3: \{3^1_{-1-11}\|3^1_{-1-11}\}, \{3^1_{-11-1}\|3^1_{-11-1}\}, \{3^1_{1-1-1}\|3^1_{1-1-1}\}, \{3^1_{111}\|3^1_{111}\}$$

$$C_4: \{3^2_{-1-11}\|3^2_{-1-11}\}, \{3^2_{-11-1}\|3^2_{-11-1}\}, \{3^2_{1-1-1}\|3^2_{1-1-1}\}, \{3^2_{111}\|3^2_{111}\}$$

$$C_5: \{^d1\|1\}$$

$$C_6: \{^d3^1_{-1-11}\|3^1_{-1-11}\}, \{^d3^1_{-11-1}\|3^1_{-11-1}\}, \{^d3^1_{1-1-1}\|3^1_{1-1-1}\}, \{^d3^1_{111}\|3^1_{111}\}$$

$$C_7: \{^d3^2_{-1-11}\|3^2_{-1-11}\}, \{^d3^2_{-11-1}\|3^2_{-11-1}\}, \{^d3^2_{1-1-1}\|3^2_{1-1-1}\}, \{^d3^2_{111}\|3^2_{111}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	1	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM3	1	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
GM4	3	-1	0	0	3	0	0
$\overline{\text{GM5}}$	2	0	1	-1	-2	-1	1
$\overline{\text{GM6}}$	2	0	$-\omega$	ω^*	-2	ω	$-\omega^*$
$\overline{\text{GM7}}$	2	0	$-\omega^*$	ω	-2	ω^*	$-\omega$

$1_2 3^1_{001} 3$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

C_3 : $\{3^1_{001}\|3^1_{-1-11}\}, \{3^1_{001}\|3^1_{-11-1}\}, \{3^1_{001}\|3^1_{1-1-1}\}, \{3^1_{001}\|3^1_{111}\}$

C_4 : $\{3^2_{001}\|3^2_{-1-11}\}, \{3^2_{001}\|3^2_{-11-1}\}, \{3^2_{001}\|3^2_{1-1-1}\}, \{3^2_{001}\|3^2_{111}\}$

C_5 : $\{^d1\|1\}$

C_6 : $\{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

C_7 : $\{^d3^1_{001}\|3^1_{-1-11}\}, \{^d3^1_{001}\|3^1_{-11-1}\}, \{^d3^1_{001}\|3^1_{1-1-1}\}, \{^d3^1_{001}\|3^1_{111}\}$

C_8 : $\{^d3^2_{001}\|3^2_{-1-11}\}, \{^d3^2_{001}\|3^2_{-11-1}\}, \{^d3^2_{001}\|3^2_{1-1-1}\}, \{^d3^2_{001}\|3^2_{111}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$
GM3	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$
GM4	3	-1	0	0	3	-1	0	0
$\overline{\text{GM5}}$	1	1	-1	1	-1	-1	1	-1
$\overline{\text{GM6}}$	1	1	ω^*	$-\omega$	-1	-1	$-\omega^*$	ω
$\overline{\text{GM7}}$	1	1	ω	$-\omega^*$	-1	-1	$-\omega$	ω^*
$\overline{\text{GM8}}$	3	-1	0	0	-3	1	0	0

$1_2^1 3$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

C_3 : $\{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}$

C_4 : $\{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$

C_5 : $\{^d1\|1\}$

C_6 : $\{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

C_7 : $\{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}$

C_8 : $\{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$
GM3	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$
GM4	3	-1	0	0	3	-1	0	0
$\overline{\text{GM5}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM6}}$	1	1	$-\omega$	$-\omega^*$	-1	-1	ω	ω^*
$\overline{\text{GM7}}$	1	1	$-\omega^*$	$-\omega$	-1	-1	ω^*	ω
$\overline{\text{GM8}}$	3	-1	0	0	-3	1	0	0

$$m_{100}m^{-3^2}_{-1-11-3}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{010}\}, \{2_{010}\|2_{001}\}, \{2_{100}\|2_{100}\}, \{^d2_{001}\|2_{010}\}, \{^d2_{010}\|2_{001}\}, \{^d2_{100}\|2_{100}\}$$

$$C_3: \{3^1_{-1-11}\|3^2_{111}\}, \{3^1_{-11-1}\|3^2_{1-1-1}\}, \{3^1_{1-1-1}\|3^2_{-1-11}\}, \{3^1_{111}\|3^2_{-11-1}\}$$

$$C_4: \{3^2_{-1-11}\|3^1_{111}\}, \{3^2_{-11-1}\|3^1_{1-1-1}\}, \{3^2_{1-1-1}\|3^1_{-1-11}\}, \{3^2_{111}\|3^1_{-11-1}\}$$

$$C_5: \{^d1\|1\}$$

$$C_6: \{^d3^1_{-1-11}\|3^2_{111}\}, \{^d3^1_{-11-1}\|3^2_{1-1-1}\}, \{^d3^1_{1-1-1}\|3^2_{-1-11}\}, \{^d3^1_{111}\|3^2_{-11-1}\}$$

$$C_7: \{^d3^2_{-1-11}\|3^1_{111}\}, \{^d3^2_{-11-1}\|3^1_{1-1-1}\}, \{^d3^2_{1-1-1}\|3^1_{-1-11}\}, \{^d3^2_{111}\|3^1_{-11-1}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	3	-1	0	0	3	0	0
GM3GM4	2	2	-1	-1	2	-1	-1
GM5	2	0	1	-1	-2	-1	1
GM6GM7	4	0	-1	1	-4	1	-1

$2_{100}\mathbf{m}^3_{111}\text{-}3$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|-1\}$

$C_3: \{2_{001}\|\mathbf{m}_{001}\}, \{2_{010}\|\mathbf{m}_{010}\}, \{2_{100}\|\mathbf{m}_{100}\}, \{\mathbf{d}2_{001}\|\mathbf{m}_{001}\}, \{\mathbf{d}2_{010}\|\mathbf{m}_{010}\}, \{\mathbf{d}2_{100}\|\mathbf{m}_{100}\}$

$C_4: \{2_{001}\|2_{001}\}, \{2_{010}\|2_{010}\}, \{2_{100}\|2_{100}\}, \{\mathbf{d}2_{001}\|2_{001}\}, \{\mathbf{d}2_{010}\|2_{010}\}, \{\mathbf{d}2_{100}\|2_{100}\}$

$C_5: \{3^1_{-1-11}\|3^1_{-1-11}\}, \{3^1_{-11-1}\|3^1_{-11-1}\}, \{3^1_{1-1-1}\|3^1_{1-1-1}\}, \{3^1_{111}\|3^1_{111}\}$

$C_6: \{3^1_{-1-11}\|-3^1_{-1-11}\}, \{3^1_{-11-1}\|-3^1_{-11-1}\}, \{3^1_{1-1-1}\|-3^1_{1-1-1}\}, \{3^1_{111}\|-3^1_{111}\}$

$C_7: \{3^2_{-1-11}\|3^2_{-1-11}\}, \{3^2_{-11-1}\|3^2_{-11-1}\}, \{3^2_{1-1-1}\|3^2_{1-1-1}\}, \{3^2_{111}\|3^2_{111}\}$

$C_8: \{3^2_{-1-11}\|-3^2_{-1-11}\}, \{3^2_{-11-1}\|-3^2_{-11-1}\}, \{3^2_{1-1-1}\|-3^2_{1-1-1}\}, \{3^2_{111}\|-3^2_{111}\}$

$C_9: \{\mathbf{d}1\|1\}$

$C_{10}: \{\mathbf{d}1\|-1\}$

$C_{11}: \{\mathbf{d}3^1_{-1-11}\|3^1_{-1-11}\}, \{\mathbf{d}3^1_{-11-1}\|3^1_{-11-1}\}, \{\mathbf{d}3^1_{1-1-1}\|3^1_{1-1-1}\}, \{\mathbf{d}3^1_{111}\|3^1_{111}\}$

$C_{12}: \{\mathbf{d}3^1_{-1-11}\|-3^1_{-1-11}\}, \{\mathbf{d}3^1_{-11-1}\|-3^1_{-11-1}\}, \{\mathbf{d}3^1_{1-1-1}\|-3^1_{1-1-1}\}, \{\mathbf{d}3^1_{111}\|-3^1_{111}\}$

$C_{13}: \{\mathbf{d}3^2_{-1-11}\|3^2_{-1-11}\}, \{\mathbf{d}3^2_{-11-1}\|3^2_{-11-1}\}, \{\mathbf{d}3^2_{1-1-1}\|3^2_{1-1-1}\}, \{\mathbf{d}3^2_{111}\|3^2_{111}\}$

$C_{14}: \{\mathbf{d}3^2_{-1-11}\|-3^2_{-1-11}\}, \{\mathbf{d}3^2_{-11-1}\|-3^2_{-11-1}\}, \{\mathbf{d}3^2_{1-1-1}\|-3^2_{1-1-1}\}, \{\mathbf{d}3^2_{111}\|-3^2_{111}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	-1	1	$-\omega$	ω	$-\omega^*$	ω^*	1	-1	$-\omega$	ω	$-\omega^*$	ω^*
GM4	1	-1	-1	1	$-\omega^*$	ω^*	$-\omega$	ω	1	-1	$-\omega^*$	ω^*	$-\omega$	ω
GM5	1	1	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM6	1	1	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
GM7	3	-3	1	-1	0	0	0	0	3	-3	0	0	0	0
GM8	3	3	-1	-1	0	0	0	0	3	3	0	0	0	0
<u>GM9</u>	2	-2	0	0	1	-1	-1	1	-2	2	-1	1	1	-1
<u>GM10</u>	2	2	0	0	1	1	-1	-1	-2	-2	-1	-1	1	1
<u>GM11</u>	2	-2	0	0	$-\omega$	ω	ω^*	$-\omega^*$	-2	2	ω	$-\omega$	$-\omega^*$	ω^*
<u>GM12</u>	2	-2	0	0	$-\omega^*$	ω^*	ω	$-\omega$	-2	2	ω^*	$-\omega^*$	$-\omega$	ω
<u>GM13</u>	2	2	0	0	$-\omega$	$-\omega$	ω^*	ω^*	-2	-2	ω	ω	$-\omega^*$	$-\omega^*$
<u>GM14</u>	2	2	0	0	$-\omega^*$	$-\omega^*$	ω	ω	-2	-2	ω^*	ω^*	$-\omega$	$-\omega$

$2_{001}\mathbf{m}^6{}^5_{001}\text{-}3$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

C_3 : $\{2_{001}\| -1\}$

C_4 : $\{2_{001}\|\mathbf{m}_{001}\}, \{2_{001}\|\mathbf{m}_{010}\}, \{2_{001}\|\mathbf{m}_{100}\}$

C_5 : $\{3^1_{001}\|3^1_{-1-11}\}, \{3^1_{001}\|3^1_{-11-1}\}, \{3^1_{001}\|3^1_{1-1-1}\}, \{3^1_{001}\|3^1_{111}\}$

C_6 : $\{3^2_{001}\|3^2_{-1-11}\}, \{3^2_{001}\|3^2_{-11-1}\}, \{3^2_{001}\|3^2_{1-1-1}\}, \{3^2_{001}\|3^2_{111}\}$

C_7 : $\{6^1_{001}\| -3^2_{-1-11}\}, \{6^1_{001}\| -3^2_{-11-1}\}, \{6^1_{001}\| -3^2_{1-1-1}\}, \{6^1_{001}\| -3^2_{111}\}$

C_8 : $\{6^5_{001}\| -3^1_{-1-11}\}, \{6^5_{001}\| -3^1_{-11-1}\}, \{6^5_{001}\| -3^1_{1-1-1}\}, \{6^5_{001}\| -3^1_{111}\}$

C_9 : $\{^d1\|1\}$

C_{10} : $\{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

C_{11} : $\{^d2_{001}\| -1\}$

C_{12} : $\{^d2_{001}\|\mathbf{m}_{001}\}, \{^d2_{001}\|\mathbf{m}_{010}\}, \{^d2_{001}\|\mathbf{m}_{100}\}$

C_{13} : $\{^d3^1_{001}\|3^1_{-1-11}\}, \{^d3^1_{001}\|3^1_{-11-1}\}, \{^d3^1_{001}\|3^1_{1-1-1}\}, \{^d3^1_{001}\|3^1_{111}\}$

C_{14} : $\{^d3^2_{001}\|3^2_{-1-11}\}, \{^d3^2_{001}\|3^2_{-11-1}\}, \{^d3^2_{001}\|3^2_{1-1-1}\}, \{^d3^2_{001}\|3^2_{111}\}$

C_{15} : $\{^d6^1_{001}\| -3^2_{-1-11}\}, \{^d6^1_{001}\| -3^2_{-11-1}\}, \{^d6^1_{001}\| -3^2_{1-1-1}\}, \{^d6^1_{001}\| -3^2_{111}\}$

C_{16} : $\{^d6^5_{001}\| -3^1_{-1-11}\}, \{^d6^5_{001}\| -3^1_{-11-1}\}, \{^d6^5_{001}\| -3^1_{1-1-1}\}, \{^d6^5_{001}\| -3^1_{111}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
GM3	1	1	-1	-1	$-\omega$	$-\omega^*$	ω^*	ω	1	1	-1	-1	$-\omega$	$-\omega^*$	ω^*	ω
GM4	1	1	-1	-1	$-\omega^*$	$-\omega$	ω	ω^*	1	1	-1	-1	$-\omega^*$	$-\omega$	ω	ω^*
GM5	1	1	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$	1	1	1	1	$-\omega$	$-\omega^*$	$-\omega^*$	$-\omega$
GM6	1	1	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$	1	1	1	1	$-\omega^*$	$-\omega$	$-\omega$	$-\omega^*$
GM7	3	-1	-3	1	0	0	0	0	3	-1	-3	1	0	0	0	0
GM8	3	-1	3	-1	0	0	0	0	3	-1	3	-1	0	0	0	0
$\overline{\text{GM9}}$	1	1	-i	-i	-1	1	i	i	-1	-1	i	i	1	-1	-i	-i
$\overline{\text{GM10}}$	1	1	i	i	-1	1	-i	-i	-1	-1	-i	-i	1	-1	i	i
$\overline{\text{GM11}}$	1	1	-i	-i	ω^*	$-\omega$	τ^*	$-\tau$	-1	-1	i	i	$-\omega^*$	ω	$-\tau^*$	τ
$\overline{\text{GM12}}$	1	1	-i	-i	ω	$-\omega^*$	$-\tau$	τ^*	-1	-1	i	i	$-\omega$	ω^*	τ	$-\tau^*$
$\overline{\text{GM13}}$	1	1	i	i	ω^*	$-\omega$	$-\tau^*$	τ	-1	-1	-i	-i	$-\omega^*$	ω	τ^*	$-\tau$
$\overline{\text{GM14}}$	1	1	i	i	ω	$-\omega^*$	τ	$-\tau^*$	-1	-1	-i	-i	$-\omega$	ω^*	$-\tau$	τ^*
$\overline{\text{GM15}}$	3	-1	3i	-i	0	0	0	0	-3	1	-3i	i	0	0	0	0
$\overline{\text{GM16}}$	3	-1	-3i	i	0	0	0	0	-3	1	3i	-i	0	0	0	0

$m_{001}m^{-6^1_{001}-3}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

$C_3: \{3^1_{001}\|3^2_{-1-11}\}, \{3^1_{001}\|3^2_{-11-1}\}, \{3^1_{001}\|3^2_{1-1-1}\}, \{3^1_{001}\|3^2_{111}\}$

$C_4: \{3^2_{001}\|3^1_{-1-11}\}, \{3^2_{001}\|3^1_{-11-1}\}, \{3^2_{001}\|3^1_{1-1-1}\}, \{3^2_{001}\|3^1_{111}\}$

$C_5: \{^d1\|1\}$

$C_6: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

$C_7: \{^d3^1_{001}\|3^2_{-1-11}\}, \{^d3^1_{001}\|3^2_{-11-1}\}, \{^d3^1_{001}\|3^2_{1-1-1}\}, \{^d3^1_{001}\|3^2_{111}\}$

$C_8: \{^d3^2_{001}\|3^1_{-1-11}\}, \{^d3^2_{001}\|3^1_{-11-1}\}, \{^d3^2_{001}\|3^1_{1-1-1}\}, \{^d3^2_{001}\|3^1_{111}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	3	-1	0	0	3	-1	0	0
GM3GM4	2	2	-1	-1	2	2	-1	-1
$\overline{\text{GM5}}$	1	1	-1	1	-1	-1	1	-1
$\overline{\text{GM6}}$	3	-1	0	0	-3	1	0	0
$\overline{\text{GM7GM8}}$	2	2	1	-1	-2	-2	-1	1

$$^{-1}\mathbf{m}^{-3^1_{001}}\mathbf{-3}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$$

$$C_3: \{3^1_{001}\|3^1_{-1-11}\}, \{3^1_{001}\|3^1_{-11-1}\}, \{3^1_{001}\|3^1_{1-1-1}\}, \{3^1_{001}\|3^1_{111}\}$$

$$C_4: \{3^2_{001}\|3^2_{-1-11}\}, \{3^2_{001}\|3^2_{-11-1}\}, \{3^2_{001}\|3^2_{1-1-1}\}, \{3^2_{001}\|3^2_{111}\}$$

$$C_5: \{^d1\|1\}$$

$$C_6: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$$

$$C_7: \{^d3^1_{001}\|3^1_{-1-11}\}, \{^d3^1_{001}\|3^1_{-11-1}\}, \{^d3^1_{001}\|3^1_{1-1-1}\}, \{^d3^1_{001}\|3^1_{111}\}$$

$$C_8: \{^d3^2_{001}\|3^2_{-1-11}\}, \{^d3^2_{001}\|3^2_{-11-1}\}, \{^d3^2_{001}\|3^2_{1-1-1}\}, \{^d3^2_{001}\|3^2_{111}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	3	-1	0	0	3	-1	0	0
GM3GM4	2	2	-1	-1	2	2	-1	-1
GM5GM5	2	2	-2	2	-2	-2	2	-2
GM6GM6	6	-2	0	0	-6	2	0	0
GM7GM8	2	2	1	-1	-2	-2	-1	1

$1m^{3^1}_{001}-3$

Classes:

C₁: {1||1}

C₂: {1||-1}

C₃: {1||m₀₀₁}, {1||m₀₁₀}, {1||m₁₀₀}

C₄: {1||2₀₀₁}, {1||2₀₁₀}, {1||2₁₀₀}

C₅: {3¹₀₀₁||3¹₋₁₋₁₁}, {3¹₀₀₁||3¹₋₁₁₋₁}, {3¹₀₀₁||3¹₁₋₁₋₁}, {3¹₀₀₁||3¹₁₁₁}

C₆: {3¹₀₀₁||-3¹₋₁₋₁₁}, {3¹₀₀₁||-3¹₋₁₁₋₁}, {3¹₀₀₁||-3¹₁₋₁₋₁}, {3¹₀₀₁||-3¹₁₁₁}

C₇: {3²₀₀₁||3²₋₁₋₁₁}, {3²₀₀₁||3²₋₁₁₋₁}, {3²₀₀₁||3²₁₋₁₋₁}, {3²₀₀₁||3²₁₁₁}

C₈: {3²₀₀₁||-3²₋₁₋₁₁}, {3²₀₀₁||-3²₋₁₁₋₁}, {3²₀₀₁||-3²₁₋₁₋₁}, {3²₀₀₁||-3²₁₁₁}

C₉: {d¹₁||1}

C₁₀: {d¹₁||-1}

C₁₁: {d¹₁||m₀₀₁}, {d¹₁||m₀₁₀}, {d¹₁||m₁₀₀}

C₁₂: {d¹₁||2₀₀₁}, {d¹₁||2₀₁₀}, {d¹₁||2₁₀₀}

C₁₃: {d³₀₀₁||3¹₋₁₋₁₁}, {d³₀₀₁||3¹₋₁₁₋₁}, {d³₀₀₁||3¹₁₋₁₋₁}, {d³₀₀₁||3¹₁₁₁}

C₁₄: {d³₀₀₁||-3¹₋₁₋₁₁}, {d³₀₀₁||-3¹₋₁₁₋₁}, {d³₀₀₁||-3¹₁₋₁₋₁}, {d³₀₀₁||-3¹₁₁₁}

C₁₅: {d³₀₀₁||3²₋₁₋₁₁}, {d³₀₀₁||3²₋₁₁₋₁}, {d³₀₀₁||3²₁₋₁₋₁}, {d³₀₀₁||3²₁₁₁}

C₁₆: {d³₀₀₁||-3²₋₁₋₁₁}, {d³₀₀₁||-3²₋₁₁₋₁}, {d³₀₀₁||-3²₁₋₁₋₁}, {d³₀₀₁||-3²₁₁₁}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1
GM3	1	-1	-1	1	-ω	ω	-ω*	ω*	1	-1	-1	1	-ω	ω	-ω*	ω*
GM4	1	-1	-1	1	-ω*	ω*	-ω	ω	1	-1	-1	1	-ω*	ω*	-ω	ω
GM5	1	1	1	1	-ω	-ω	-ω*	-ω*	1	1	1	1	-ω	-ω	-ω*	-ω*
GM6	1	1	1	1	-ω*	-ω*	-ω	-ω	1	1	1	1	-ω*	-ω*	-ω	-ω
GM7	3	-3	1	-1	0	0	0	0	3	-3	1	-1	0	0	0	0
GM8	3	3	-1	-1	0	0	0	0	3	3	-1	-1	0	0	0	0
GM9	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1
GM10	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1
GM11	1	-1	-1	1	ω*	-ω*	-ω	ω	-1	1	1	-1	-ω*	ω*	ω	-ω
GM12	1	-1	-1	1	ω	-ω	-ω*	ω*	-1	1	1	-1	-ω	ω	ω*	-ω*
GM13	1	1	1	1	ω*	ω*	-ω	-ω	-1	-1	-1	-1	-ω*	-ω*	ω	ω
GM14	1	1	1	1	ω	ω	-ω*	-ω*	-1	-1	-1	-1	-ω	-ω	ω*	ω*
GM15	3	-3	1	-1	0	0	0	0	-3	3	-1	1	0	0	0	0
GM16	3	3	-1	-1	0	0	0	0	-3	-3	1	1	0	0	0	0

$^{-1}\mathbf{m}^{-1}\text{-}3$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

C_3 : $\{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}$

C_4 : $\{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$

C_5 : $\{^d1\|1\}$

C_6 : $\{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

C_7 : $\{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}$

C_8 : $\{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	3	-1	0	0	3	-1	0	0
GM3GM4	2	2	-1	-1	2	2	-1	-1
GM5GM5	2	2	2	2	-2	-2	-2	-2
GM6GM6	6	-2	0	0	-6	2	0	0
GM7GM8	2	2	-1	-1	-2	-2	1	1

$2_{001}\mathbf{m}2_{001}\text{-}3$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$$

$$C_3: \{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}$$

$$C_4: \{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$$

$$C_5: \{2_{001}\| -1\}$$

$$C_6: \{2_{001}\| -3_{-1-11}^1\}, \{2_{001}\| -3_{-11-1}^1\}, \{2_{001}\| -3_{1-1-1}^1\}, \{2_{001}\| -3_{111}^1\}$$

$$C_7: \{2_{001}\| -3_{-1-11}^2\}, \{2_{001}\| -3_{-11-1}^2\}, \{2_{001}\| -3_{1-1-1}^2\}, \{2_{001}\| -3_{111}^2\}$$

$$C_8: \{2_{001}\|\mathbf{m}_{001}\}, \{2_{001}\|\mathbf{m}_{010}\}, \{2_{001}\|\mathbf{m}_{100}\}$$

$$C_9: \{^d1\|1\}$$

$$C_{10}: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$$

$$C_{11}: \{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}$$

$$C_{12}: \{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$$

$$C_{13}: \{^d2_{001}\| -1\}$$

$$C_{14}: \{^d2_{001}\| -3_{-1-11}^1\}, \{^d2_{001}\| -3_{-11-1}^1\}, \{^d2_{001}\| -3_{1-1-1}^1\}, \{^d2_{001}\| -3_{111}^1\}$$

$$C_{15}: \{^d2_{001}\| -3_{-1-11}^2\}, \{^d2_{001}\| -3_{-11-1}^2\}, \{^d2_{001}\| -3_{1-1-1}^2\}, \{^d2_{001}\| -3_{111}^2\}$$

$$C_{16}: \{^d2_{001}\|\mathbf{m}_{001}\}, \{^d2_{001}\|\mathbf{m}_{010}\}, \{^d2_{001}\|\mathbf{m}_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM3	1	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	-1	1	1	$-\omega$	$-\omega^*$	-1	ω	ω^*	-1
GM4	1	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	-1	1	1	$-\omega^*$	$-\omega$	-1	ω^*	ω	-1
GM5	1	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1	1	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$	1
GM6	1	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1	1	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$	1
GM7	3	-1	0	0	-3	0	0	1	3	-1	0	0	-3	0	0	1
GM8	3	-1	0	0	3	0	0	-1	3	-1	0	0	3	0	0	-1
GM9	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
GM10	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i
GM11	1	1	$-\omega$	$-\omega^*$	-i	$-\tau^*$	τ	-i	-1	-1	ω	ω^*	i	τ^*	$-\tau$	i
GM12	1	1	$-\omega$	$-\omega^*$	i	τ^*	$-\tau$	i	-1	-1	ω	ω^*	-i	$-\tau^*$	τ	-i
GM13	1	1	$-\omega^*$	$-\omega$	-i	τ	$-\tau^*$	-i	-1	-1	ω^*	ω	i	$-\tau$	τ^*	i
GM14	1	1	$-\omega^*$	$-\omega$	i	$-\tau$	τ^*	i	-1	-1	ω^*	ω	-i	τ	$-\tau^*$	-i
GM15	3	-1	0	0	3i	0	0	-i	-3	1	0	0	-3i	0	0	i
GM16	3	-1	0	0	-3i	0	0	i	-3	1	0	0	3i	0	0	-i

$m_{001}m_{001}\text{-}3$

Classes:

C_1 : $\{1\parallel 1\}$

C_2 : $\{1\parallel 2_{001}\}, \{1\parallel 2_{010}\}, \{1\parallel 2_{100}\}$

C_3 : $\{1\parallel 3_{-1-11}^1\}, \{1\parallel 3_{-11-1}^1\}, \{1\parallel 3_{1-1-1}^1\}, \{1\parallel 3_{111}^1\}$

C_4 : $\{1\parallel 3_{-1-11}^2\}, \{1\parallel 3_{-11-1}^2\}, \{1\parallel 3_{1-1-1}^2\}, \{1\parallel 3_{111}^2\}$

C_5 : $\{^d1\parallel 1\}$

C_6 : $\{^d1\parallel 2_{001}\}, \{^d1\parallel 2_{010}\}, \{^d1\parallel 2_{100}\}$

C_7 : $\{^d1\parallel 3_{-1-11}^1\}, \{^d1\parallel 3_{-11-1}^1\}, \{^d1\parallel 3_{1-1-1}^1\}, \{^d1\parallel 3_{111}^1\}$

C_8 : $\{^d1\parallel 3_{-1-11}^2\}, \{^d1\parallel 3_{-11-1}^2\}, \{^d1\parallel 3_{1-1-1}^2\}, \{^d1\parallel 3_{111}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	3	-1	0	0	3	-1	0	0
GM3GM4	2	2	-1	-1	2	2	-1	-1
$\overline{\text{GM5}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM6}}$	3	-1	0	0	-3	1	0	0
$\overline{\text{GM7GM8}}$	2	2	-1	-1	-2	-2	1	1

$^1m^1-3$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{-1-11}^1\}, \{1||3_{-11-1}^1\}, \{1||3_{1-1-1}^1\}, \{1||3_{111}^1\}$
 $C_3: \{1||3_{-1-11}^2\}, \{1||3_{-11-1}^2\}, \{1||3_{1-1-1}^2\}, \{1||3_{111}^2\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||m_{001}\}, \{1||m_{010}\}, \{1||m_{100}\}$
 $C_6: \{1||-3_{-1-11}^1\}, \{1||-3_{-11-1}^1\}, \{1||-3_{1-1-1}^1\}, \{1||-3_{111}^1\}$
 $C_7: \{1||-3_{-1-11}^2\}, \{1||-3_{-11-1}^2\}, \{1||-3_{1-1-1}^2\}, \{1||-3_{111}^2\}$
 $C_8: \{1||2_{001}\}, \{1||2_{010}\}, \{1||2_{100}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||3_{-1-11}^1\}, \{^d1||3_{-11-1}^1\}, \{^d1||3_{1-1-1}^1\}, \{^d1||3_{111}^1\}$
 $C_{11}: \{^d1||3_{-1-11}^2\}, \{^d1||3_{-11-1}^2\}, \{^d1||3_{1-1-1}^2\}, \{^d1||3_{111}^2\}$
 $C_{12}: \{^d1||-1\}$
 $C_{13}: \{^d1||m_{001}\}, \{^d1||m_{010}\}, \{^d1||m_{100}\}$
 $C_{14}: \{^d1||-3_{-1-11}^1\}, \{^d1||-3_{-11-1}^1\}, \{^d1||-3_{1-1-1}^1\}, \{^d1||-3_{111}^1\}$
 $C_{15}: \{^d1||-3_{-1-11}^2\}, \{^d1||-3_{-11-1}^2\}, \{^d1||-3_{1-1-1}^2\}, \{^d1||-3_{111}^2\}$
 $C_{16}: \{^d1||2_{001}\}, \{^d1||2_{010}\}, \{^d1||2_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1
GM3	1	$-\omega$	$-\omega^*$	-1	-1	ω	ω^*	1	1	$-\omega$	$-\omega^*$	-1	-1	ω	ω^*	1
GM4	1	$-\omega^*$	$-\omega$	-1	-1	ω^*	ω	1	1	$-\omega^*$	$-\omega$	-1	-1	ω^*	ω	1
GM5	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$	1
GM6	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$	1
GM7	3	0	0	-3	1	0	0	-1	3	0	0	-3	1	0	0	-1
GM8	3	0	0	3	-1	0	0	-1	3	0	0	3	-1	0	0	-1
GM9	1	1	1	-1	-1	-1	-1	1	-1	-1	-1	1	1	1	1	-1
GM10	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
GM11	1	$-\omega$	$-\omega^*$	-1	-1	ω	ω^*	1	-1	ω	ω^*	1	1	$-\omega$	$-\omega^*$	-1
GM12	1	$-\omega^*$	$-\omega$	-1	-1	ω^*	ω	1	-1	ω^*	ω	1	1	$-\omega^*$	$-\omega$	-1
GM13	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$	1	-1	ω	ω^*	-1	-1	ω	ω^*	-1
GM14	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$	1	-1	ω^*	ω	-1	-1	ω^*	ω	-1
GM15	3	0	0	-3	1	0	0	-1	-3	0	0	3	-1	0	0	1
GM16	3	0	0	3	-1	0	0	-1	-3	0	0	-3	1	0	0	1

$$4^1_{100}4^3_{111}3^2_{110}2$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{-101}\|2_{-101}\}, \{2_{01-1}\|2_{01-1}\}, \{2_{011}\|2_{011}\}, \{2_{1-10}\|2_{1-10}\}, \{2_{101}\|2_{101}\}, \{2_{110}\|2_{110}\}, \{^d2_{-101}\|2_{-101}\}, \\ \{^d2_{01-1}\|2_{01-1}\}, \{^d2_{011}\|2_{011}\}, \{^d2_{1-10}\|2_{1-10}\}, \{^d2_{101}\|2_{101}\}, \{^d2_{110}\|2_{110}\}$$

$$C_3: \{2_{001}\|2_{001}\}, \{2_{010}\|2_{010}\}, \{2_{100}\|2_{100}\}, \{^d2_{001}\|2_{001}\}, \{^d2_{010}\|2_{010}\}, \{^d2_{100}\|2_{100}\}$$

$$C_4: \{3^1_{-1-11}\|3^1_{-1-11}\}, \{3^1_{-11-1}\|3^1_{-11-1}\}, \{3^1_{1-1-1}\|3^1_{1-1-1}\}, \{3^1_{111}\|3^1_{111}\}, \{^d3^2_{-1-11}\|3^2_{-1-11}\}, \{^d3^2_{-11-1}\|3^2_{-11-1}\}, \\ \{^d3^2_{1-1-1}\|3^2_{1-1-1}\}, \{^d3^2_{111}\|3^2_{111}\}$$

$$C_5: \{3^2_{-1-11}\|3^2_{-1-11}\}, \{3^2_{-11-1}\|3^2_{-11-1}\}, \{3^2_{1-1-1}\|3^2_{1-1-1}\}, \{3^2_{111}\|3^2_{111}\}, \{^d3^1_{-1-11}\|3^1_{-1-11}\}, \{^d3^1_{-11-1}\|3^1_{-11-1}\}, \\ \{^d3^1_{1-1-1}\|3^1_{1-1-1}\}, \{^d3^1_{111}\|3^1_{111}\}$$

$$C_6: \{4^1_{001}\|4^1_{001}\}, \{4^1_{010}\|4^1_{010}\}, \{4^1_{100}\|4^1_{100}\}, \{^d4^3_{001}\|4^3_{001}\}, \{^d4^3_{010}\|4^3_{010}\}, \{^d4^3_{100}\|4^3_{100}\}$$

$$C_7: \{4^3_{001}\|4^3_{001}\}, \{4^3_{010}\|4^3_{010}\}, \{4^3_{100}\|4^3_{100}\}, \{^d4^1_{001}\|4^1_{001}\}, \{^d4^1_{010}\|4^1_{010}\}, \{^d4^1_{100}\|4^1_{100}\}$$

$$C_8: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	1	-1	-1	1
GM3	2	0	2	-1	-1	0	0	2
GM4	3	1	-1	0	0	-1	-1	3
GM5	3	-1	-1	0	0	1	1	3
$\overline{\text{GM6}}$	2	0	0	1	-1	$-\sqrt{2}$	$\sqrt{2}$	-2
$\overline{\text{GM7}}$	2	0	0	1	-1	$\sqrt{2}$	$-\sqrt{2}$	-2
$\overline{\text{GM8}}$	4	0	0	-1	1	0	0	-4

$$-4^3_{0104}3^2_{-11-13}m_{1-102}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{2_{010}\|2_{100}\}, \{2_{100}\|2_{010}\}, \{^d2_{001}\|2_{001}\}, \{^d2_{010}\|2_{100}\}, \{^d2_{100}\|2_{010}\}$$

$$C_3: \{3^1_{-1-11}\|3^2_{-11-1}\}, \{3^1_{-11-1}\|3^2_{111}\}, \{3^1_{1-1-1}\|3^2_{-1-11}\}, \{3^1_{111}\|3^2_{1-1-1}\}$$

$$C_4: \{3^2_{-1-11}\|3^1_{-11-1}\}, \{3^2_{-11-1}\|3^1_{111}\}, \{3^2_{1-1-1}\|3^1_{-1-11}\}, \{3^2_{111}\|3^1_{1-1-1}\}$$

$$C_5: \{^d1\|1\}$$

$$C_6: \{^d3^1_{-1-11}\|3^2_{-11-1}\}, \{^d3^1_{-11-1}\|3^2_{111}\}, \{^d3^1_{1-1-1}\|3^2_{-1-11}\}, \{^d3^1_{111}\|3^2_{1-1-1}\}$$

$$C_7: \{^d3^2_{-1-11}\|3^1_{-11-1}\}, \{^d3^2_{-11-1}\|3^1_{111}\}, \{^d3^2_{1-1-1}\|3^1_{-1-11}\}, \{^d3^2_{111}\|3^1_{1-1-1}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	1	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM3	1	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
GM4	3	-1	0	0	3	0	0
$\overline{\text{GM5}}$	2	0	1	-1	-2	-1	1
$\overline{\text{GM6}}$	2	0	$-\omega$	ω^*	-2	ω	$-\omega^*$
$\overline{\text{GM7}}$	2	0	$-\omega^*$	ω	-2	ω^*	$-\omega$

$$2_{\frac{2}{3}\pi}^2 4_{001}^3 3^1 2_{100}^2$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$$

$$C_3: \{2_{100}\|2_{1-10}\}, \{2_{100}\|2_{110}\}, \{2_{\frac{2}{3}\pi}\|2_{01-1}\}, \{2_{\frac{2}{3}\pi}\|2_{011}\}, \{^d2_{\frac{1}{3}\pi}\|2_{-101}\}, \{^d2_{\frac{1}{3}\pi}\|2_{101}\}$$

$$C_4: \{2_{100}\|4_{001}^1\}, \{2_{100}\|4_{001}^3\}, \{2_{\frac{2}{3}\pi}\|4_{100}^1\}, \{2_{\frac{2}{3}\pi}\|4_{100}^3\}, \{^d2_{\frac{1}{3}\pi}\|4_{010}^1\}, \{^d2_{\frac{1}{3}\pi}\|4_{010}^3\}$$

$$C_5: \{2_{\frac{1}{3}\pi}\|2_{-101}\}, \{2_{\frac{1}{3}\pi}\|2_{101}\}, \{^d2_{100}\|2_{1-10}\}, \{^d2_{100}\|2_{110}\}, \{^d2_{\frac{2}{3}\pi}\|2_{01-1}\}, \{^d2_{\frac{2}{3}\pi}\|2_{011}\}$$

$$C_6: \{2_{\frac{1}{3}\pi}\|4_{010}^1\}, \{2_{\frac{1}{3}\pi}\|4_{010}^3\}, \{^d2_{100}\|4_{001}^1\}, \{^d2_{100}\|4_{001}^3\}, \{^d2_{\frac{2}{3}\pi}\|4_{100}^1\}, \{^d2_{\frac{2}{3}\pi}\|4_{100}^3\}$$

$$C_7: \{3_{001}^1\|3_{-1-11}^1\}, \{3_{001}^1\|3_{-11-1}^1\}, \{3_{001}^1\|3_{1-1-1}^1\}, \{3_{001}^1\|3_{111}^1\}, \{^d3_{001}^2\|3_{-1-11}^2\}, \{^d3_{001}^2\|3_{-11-1}^2\}, \{^d3_{001}^2\|3_{1-1-1}^2\}, \{^d3_{001}^2\|3_{111}^2\}$$

$$C_8: \{3_{001}^2\|3_{-1-11}^2\}, \{3_{001}^2\|3_{-11-1}^2\}, \{3_{001}^2\|3_{1-1-1}^2\}, \{3_{001}^2\|3_{111}^2\}, \{^d3_{001}^1\|3_{-1-11}^1\}, \{^d3_{001}^1\|3_{-11-1}^1\}, \{^d3_{001}^1\|3_{1-1-1}^1\}, \{^d3_{001}^1\|3_{111}^1\}$$

$$C_9: \{^d1\|1\}$$

$$C_{10}: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	2	2	0	0	0	0	-1	-1	2	2
GM4	3	-1	-1	1	-1	1	0	0	3	-1
GM5	3	-1	1	-1	1	-1	0	0	3	-1
GM6	1	1	-i	-i	i	i	-1	1	-1	-1
GM7	1	1	i	i	-i	-i	-1	1	-1	-1
GM8	2	2	0	0	0	0	1	-1	-2	-2
GM9	3	-1	-i	i	i	-i	0	0	-3	1
GM10	3	-1	i	-i	-i	i	0	0	-3	1

$$m_{\frac{1}{6}\pi} 4^3 m_{010} 2$$

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}, {1||2₀₁₀}, {1||2₁₀₀}

C₃: {3₀₀₁¹||3₋₁₋₁₁¹}, {3₀₀₁¹||3₋₁₁₋₁¹}, {3₀₀₁¹||3₁₋₁₋₁¹}, {3₀₀₁¹||3₁₁₁¹}

C₄: {3₀₀₁²||3₋₁₋₁₁²}, {3₀₀₁²||3₋₁₁₋₁²}, {3₀₀₁²||3₁₋₁₋₁²}, {3₀₀₁²||3₁₁₁²}

C₅: {d₁||1}

C₆: {d₁||2₀₀₁}, {d₁||2₀₁₀}, {d₁||2₁₀₀}

C₇: {d₃₀₀₁¹||3₋₁₋₁₁¹}, {d₃₀₀₁¹||3₋₁₁₋₁¹}, {d₃₀₀₁¹||3₁₋₁₋₁¹}, {d₃₀₀₁¹||3₁₁₁¹}

C₈: {d₃₀₀₁²||3₋₁₋₁₁²}, {d₃₀₀₁²||3₋₁₁₋₁²}, {d₃₀₀₁²||3₁₋₁₋₁²}, {d₃₀₀₁²||3₁₁₁²}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	-ω	-ω*	1	1	-ω	-ω*
GM3	1	1	-ω*	-ω	1	1	-ω*	-ω
GM4	3	-1	0	0	3	-1	0	0
<u>GM5</u>	1	1	-1	1	-1	-1	1	-1
<u>GM6</u>	1	1	ω*	-ω	-1	-1	-ω*	ω
<u>GM7</u>	1	1	ω	-ω*	-1	-1	-ω	ω*
<u>GM8</u>	3	-1	0	0	-3	1	0	0

$-1_4 1_3 -1_2$

Classes:

$C_1: \{1 \parallel 1\}$

$C_2: \{1 \parallel 2_{001}\}, \{1 \parallel 2_{010}\}, \{1 \parallel 2_{100}\}$

$C_3: \{1 \parallel 3_{-1-11}^1\}, \{1 \parallel 3_{-11-1}^1\}, \{1 \parallel 3_{1-1-1}^1\}, \{1 \parallel 3_{111}^1\}$

$C_4: \{1 \parallel 3_{-1-11}^2\}, \{1 \parallel 3_{-11-1}^2\}, \{1 \parallel 3_{1-1-1}^2\}, \{1 \parallel 3_{111}^2\}$

$C_5: \{^d 1 \parallel 1\}$

$C_6: \{^d 1 \parallel 2_{001}\}, \{^d 1 \parallel 2_{010}\}, \{^d 1 \parallel 2_{100}\}$

$C_7: \{^d 1 \parallel 3_{-1-11}^1\}, \{^d 1 \parallel 3_{-11-1}^1\}, \{^d 1 \parallel 3_{1-1-1}^1\}, \{^d 1 \parallel 3_{111}^1\}$

$C_8: \{^d 1 \parallel 3_{-1-11}^2\}, \{^d 1 \parallel 3_{-11-1}^2\}, \{^d 1 \parallel 3_{1-1-1}^2\}, \{^d 1 \parallel 3_{111}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$
GM3	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$
GM4	3	-1	0	0	3	-1	0	0
<u>GM5GM5</u>	2	2	2	2	-2	-2	-2	-2
<u>GM6GM6</u>	2	2	-2ω	$-2\omega^*$	-2	-2	2ω	$2\omega^*$
<u>GM7GM7</u>	2	2	$-2\omega^*$	-2ω	-2	-2	$2\omega^*$	2ω
<u>GM8GM8</u>	6	-2	0	0	-6	2	0	0

$2_{001}4^13^2_{001}2$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

C_3 : $\{1\|3^1_{-1-11}\}, \{1\|3^1_{-11-1}\}, \{1\|3^1_{1-1-1}\}, \{1\|3^1_{111}\}, \{1\|3^2_{-1-11}\}, \{1\|3^2_{-11-1}\}, \{1\|3^2_{1-1-1}\}, \{1\|3^2_{111}\}$

C_4 : $\{2_{001}\|2_{-101}\}, \{2_{001}\|2_{01-1}\}, \{2_{001}\|2_{011}\}, \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{101}\}, \{2_{001}\|2_{110}\}$

C_5 : $\{2_{001}\|4^1_{001}\}, \{2_{001}\|4^1_{010}\}, \{2_{001}\|4^1_{100}\}, \{2_{001}\|4^3_{001}\}, \{2_{001}\|4^3_{010}\}, \{2_{001}\|4^3_{100}\}$

C_6 : $\{^d1\|1\}$

C_7 : $\{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

C_8 : $\{^d1\|3^1_{-1-11}\}, \{^d1\|3^1_{-11-1}\}, \{^d1\|3^1_{1-1-1}\}, \{^d1\|3^1_{111}\}, \{^d1\|3^2_{-1-11}\}, \{^d1\|3^2_{-11-1}\}, \{^d1\|3^2_{1-1-1}\}, \{^d1\|3^2_{111}\}$

C_9 : $\{^d2_{001}\|2_{-101}\}, \{^d2_{001}\|2_{01-1}\}, \{^d2_{001}\|2_{011}\}, \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{101}\}, \{^d2_{001}\|2_{110}\}$

C_{10} : $\{^d2_{001}\|4^1_{001}\}, \{^d2_{001}\|4^1_{010}\}, \{^d2_{001}\|4^1_{100}\}, \{^d2_{001}\|4^3_{001}\}, \{^d2_{001}\|4^3_{010}\}, \{^d2_{001}\|4^3_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	1	1	1	-1	-1
GM3	2	2	-1	0	0	2	2	-1	0	0
GM4	3	-1	0	-1	1	3	-1	0	-1	1
GM5	3	-1	0	1	-1	3	-1	0	1	-1
$\overline{\text{GM6}}$	1	1	1	-i	-i	-1	-1	-1	i	i
$\overline{\text{GM7}}$	1	1	1	i	i	-1	-1	-1	-i	-i
$\overline{\text{GM8}}$	2	2	-1	0	0	-2	-2	1	0	0
$\overline{\text{GM9}}$	3	-1	0	-i	i	-3	1	0	i	-i
$\overline{\text{GM10}}$	3	-1	0	i	-i	-3	1	0	-i	i

$m_{001}4^13m_{001}2$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

C_3 : $\{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}$

C_4 : $\{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$

C_5 : $\{^d1\|1\}$

C_6 : $\{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

C_7 : $\{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}$

C_8 : $\{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$
GM3	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$
GM4	3	-1	0	0	3	-1	0	0
$\overline{\text{GM5}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM6}}$	1	1	$-\omega$	$-\omega^*$	-1	-1	ω	ω^*
$\overline{\text{GM7}}$	1	1	$-\omega^*$	$-\omega$	-1	-1	ω^*	ω
$\overline{\text{GM8}}$	3	-1	0	0	-3	1	0	0

$1_4 1_3 1_2$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{-101}\}, \{1\|2_{01-1}\}, \{1\|2_{011}\}, \{1\|2_{1-10}\}, \{1\|2_{101}\}, \{1\|2_{110}\}$

C_3 : $\{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

C_4 : $\{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}, \{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$

C_5 : $\{1\|4_{001}^1\}, \{1\|4_{010}^1\}, \{1\|4_{100}^1\}, \{1\|4_{001}^3\}, \{1\|4_{010}^3\}, \{1\|4_{100}^3\}$

C_6 : $\{^d1\|1\}$

C_7 : $\{^d1\|2_{-101}\}, \{^d1\|2_{01-1}\}, \{^d1\|2_{011}\}, \{^d1\|2_{1-10}\}, \{^d1\|2_{101}\}, \{^d1\|2_{110}\}$

C_8 : $\{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

C_9 : $\{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}, \{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$

C_{10} : $\{^d1\|4_{001}^1\}, \{^d1\|4_{010}^1\}, \{^d1\|4_{100}^1\}, \{^d1\|4_{001}^3\}, \{^d1\|4_{010}^3\}, \{^d1\|4_{100}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	1	-1	1	1	-1
GM3	2	0	2	-1	0	2	0	2	-1	0
GM4	3	-1	-1	0	1	3	-1	-1	0	1
GM5	3	1	-1	0	-1	3	1	-1	0	-1
$\overline{\text{GM6}}$	1	-1	1	1	-1	-1	1	-1	-1	1
$\overline{\text{GM7}}$	1	1	1	1	1	-1	-1	-1	-1	-1
$\overline{\text{GM8}}$	2	0	2	-1	0	-2	0	-2	1	0
$\overline{\text{GM9}}$	3	-1	-1	0	1	-3	1	1	0	-1
$\overline{\text{GM10}}$	3	1	-1	0	-1	-3	-1	1	0	1

$$4^1_{100}-4^3_{111}3^2_{110}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{-101}\|m_{-101}\}, \{2_{01-1}\|m_{01-1}\}, \{2_{011}\|m_{011}\}, \{2_{1-10}\|m_{1-10}\}, \{2_{101}\|m_{101}\}, \{2_{110}\|m_{110}\}, \{^d2_{-101}\|m_{-101}\}, \{^d2_{01-1}\|m_{01-1}\}, \{^d2_{011}\|m_{011}\}, \{^d2_{1-10}\|m_{1-10}\}, \{^d2_{101}\|m_{101}\}, \{^d2_{110}\|m_{110}\}$$

$$C_3: \{2_{001}\|2_{001}\}, \{2_{010}\|2_{010}\}, \{2_{100}\|2_{100}\}, \{^d2_{001}\|2_{001}\}, \{^d2_{010}\|2_{010}\}, \{^d2_{100}\|2_{100}\}$$

$$C_4: \{3^1_{-1-11}\|3^1_{-1-11}\}, \{3^1_{-11-1}\|3^1_{-11-1}\}, \{3^1_{1-1-1}\|3^1_{1-1-1}\}, \{3^1_{111}\|3^1_{111}\}, \{^d3^2_{-1-11}\|3^2_{-1-11}\}, \{^d3^2_{-11-1}\|3^2_{-11-1}\}, \{^d3^2_{1-1-1}\|3^2_{1-1-1}\}, \{^d3^2_{111}\|3^2_{111}\}$$

$$C_5: \{3^2_{-1-11}\|3^2_{-1-11}\}, \{3^2_{-11-1}\|3^2_{-11-1}\}, \{3^2_{1-1-1}\|3^2_{1-1-1}\}, \{3^2_{111}\|3^2_{111}\}, \{^d3^1_{-1-11}\|3^1_{-1-11}\}, \{^d3^1_{-11-1}\|3^1_{-11-1}\}, \{^d3^1_{1-1-1}\|3^1_{1-1-1}\}, \{^d3^1_{111}\|3^1_{111}\}$$

$$C_6: \{4^1_{001}\| - 4^1_{001}\}, \{4^1_{010}\| - 4^1_{010}\}, \{4^1_{100}\| - 4^1_{100}\}, \{^d4^3_{001}\| - 4^3_{001}\}, \{^d4^3_{010}\| - 4^3_{010}\}, \{^d4^3_{100}\| - 4^3_{100}\}$$

$$C_7: \{4^3_{001}\| - 4^3_{001}\}, \{4^3_{010}\| - 4^3_{010}\}, \{4^3_{100}\| - 4^3_{100}\}, \{^d4^1_{001}\| - 4^1_{001}\}, \{^d4^1_{010}\| - 4^1_{010}\}, \{^d4^1_{100}\| - 4^1_{100}\}$$

$$C_8: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	1	-1	-1	1
GM3	2	0	2	-1	-1	0	0	2
GM4	3	1	-1	0	0	-1	-1	3
GM5	3	-1	-1	0	0	1	1	3
$\overline{\text{GM6}}$	2	0	0	1	-1	$-\sqrt{2}$	$\sqrt{2}$	-2
$\overline{\text{GM7}}$	2	0	0	1	-1	$\sqrt{2}$	$-\sqrt{2}$	-2
$\overline{\text{GM8}}$	4	0	0	-1	1	0	0	-4

$$-4^3_{010}-4^3_{-11-1}3^{m_1-10}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{001}\|2_{001}\}, \{2_{010}\|2_{100}\}, \{2_{100}\|2_{010}\}, \{^d2_{001}\|2_{001}\}, \{^d2_{010}\|2_{100}\}, \{^d2_{100}\|2_{010}\}$$

$$C_3: \{3^1_{-1-11}\|3^2_{-11-1}\}, \{3^1_{-11-1}\|3^2_{111}\}, \{3^1_{1-1-1}\|3^2_{-1-11}\}, \{3^1_{111}\|3^2_{1-1-1}\}$$

$$C_4: \{3^2_{-1-11}\|3^1_{-11-1}\}, \{3^2_{-11-1}\|3^1_{111}\}, \{3^2_{1-1-1}\|3^1_{-1-11}\}, \{3^2_{111}\|3^1_{1-1-1}\}$$

$$C_5: \{^d1\|1\}$$

$$C_6: \{^d3^1_{-1-11}\|3^2_{-11-1}\}, \{^d3^1_{-11-1}\|3^2_{111}\}, \{^d3^1_{1-1-1}\|3^2_{-1-11}\}, \{^d3^1_{111}\|3^2_{1-1-1}\}$$

$$C_7: \{^d3^2_{-1-11}\|3^1_{-11-1}\}, \{^d3^2_{-11-1}\|3^1_{111}\}, \{^d3^2_{1-1-1}\|3^1_{-1-11}\}, \{^d3^2_{111}\|3^1_{1-1-1}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇
GM1	1	1	1	1	1	1	1
GM2	1	1	$-\omega$	$-\omega^*$	1	$-\omega$	$-\omega^*$
GM3	1	1	$-\omega^*$	$-\omega$	1	$-\omega^*$	$-\omega$
GM4	3	-1	0	0	3	0	0
$\overline{\text{GM5}}$	2	0	1	-1	-2	-1	1
$\overline{\text{GM6}}$	2	0	$-\omega$	ω^*	-2	ω	$-\omega^*$
$\overline{\text{GM7}}$	2	0	$-\omega^*$	ω	-2	ω^*	$-\omega$

$$2_{\frac{2}{3}\pi}^2 - 4_{001}^3 3_{2100}^2 m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||2_{001}\}, \{1||2_{010}\}, \{1||2_{100}\}$$

$$C_3: \{2_{100}||-4_{001}^1\}, \{2_{100}||-4_{001}^3\}, \{2_{\frac{2}{3}\pi}||-4_{100}^1\}, \{2_{\frac{2}{3}\pi}||-4_{100}^3\}, \{^d2_{\frac{1}{3}\pi}||-4_{010}^1\}, \{^d2_{\frac{1}{3}\pi}||-4_{010}^3\}$$

$$C_4: \{2_{100}||m_{1-10}\}, \{2_{100}||m_{110}\}, \{2_{\frac{2}{3}\pi}||m_{01-1}\}, \{2_{\frac{2}{3}\pi}||m_{011}\}, \{^d2_{\frac{1}{3}\pi}||m_{-101}\}, \{^d2_{\frac{1}{3}\pi}||m_{101}\}$$

$$C_5: \{2_{\frac{1}{3}\pi}||-4_{010}^1\}, \{2_{\frac{1}{3}\pi}||-4_{010}^3\}, \{^d2_{100}||-4_{001}^1\}, \{^d2_{100}||-4_{001}^3\}, \{^d2_{\frac{2}{3}\pi}||-4_{100}^1\}, \{^d2_{\frac{2}{3}\pi}||-4_{100}^3\}$$

$$C_6: \{2_{\frac{1}{3}\pi}||m_{-101}\}, \{2_{\frac{1}{3}\pi}||m_{101}\}, \{^d2_{100}||m_{1-10}\}, \{^d2_{100}||m_{110}\}, \{^d2_{\frac{2}{3}\pi}||m_{01-1}\}, \{^d2_{\frac{2}{3}\pi}||m_{011}\}$$

$$C_7: \{3_{001}^1||3_{-1-11}^1\}, \{3_{001}^1||3_{-11-1}^1\}, \{3_{001}^1||3_{1-1-1}^1\}, \{3_{001}^1||3_{111}^1\}, \{^d3_{001}^2||3_{-1-11}^2\}, \{^d3_{001}^2||3_{-11-1}^2\}, \{^d3_{001}^2||3_{1-1-1}^2\}, \{^d3_{001}^2||3_{111}^2\}$$

$$C_8: \{3_{001}^2||3_{-1-11}^2\}, \{3_{001}^2||3_{-11-1}^2\}, \{3_{001}^2||3_{1-1-1}^2\}, \{3_{001}^2||3_{111}^2\}, \{^d3_{001}^1||3_{-1-11}^1\}, \{^d3_{001}^1||3_{-11-1}^1\}, \{^d3_{001}^1||3_{1-1-1}^1\}, \{^d3_{001}^1||3_{111}^1\}$$

$$C_9: \{^d1||1\}$$

$$C_{10}: \{^d1||2_{001}\}, \{^d1||2_{010}\}, \{^d1||2_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	2	2	0	0	0	0	-1	-1	2	2
GM4	3	-1	-1	1	-1	1	0	0	3	-1
GM5	3	-1	1	-1	1	-1	0	0	3	-1
GM6	1	1	-i	-i	i	i	-1	1	-1	-1
GM7	1	1	i	i	-i	-i	-1	1	-1	-1
GM8	2	2	0	0	0	0	1	-1	-2	-2
GM9	3	-1	-i	i	i	-i	0	0	-3	1
GM10	3	-1	i	-i	-i	i	0	0	-3	1

$$m_{\frac{1}{6}\pi} 3^1_{001} 3^1_{010} m$$

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}, {1||2₀₁₀}, {1||2₁₀₀}

C₃: {3¹₀₀₁||3¹₋₁₋₁₁}, {3¹₀₀₁||3¹₋₁₁₋₁}, {3¹₀₀₁||3¹₁₋₁₋₁}, {3¹₀₀₁||3¹₁₁₁}

C₄: {3²₀₀₁||3²₋₁₋₁₁}, {3²₀₀₁||3²₋₁₁₋₁}, {3²₀₀₁||3²₁₋₁₋₁}, {3²₀₀₁||3²₁₁₁}

C₅: {d¹₁||1}

C₆: {d¹₁||2₀₀₁}, {d¹₁||2₀₁₀}, {d¹₁||2₁₀₀}

C₇: {d³₀₀₁||3¹₋₁₋₁₁}, {d³₀₀₁||3¹₋₁₁₋₁}, {d³₀₀₁||3¹₁₋₁₋₁}, {d³₀₀₁||3¹₁₁₁}

C₈: {d³₀₀₁||3²₋₁₋₁₁}, {d³₀₀₁||3²₋₁₁₋₁}, {d³₀₀₁||3²₁₋₁₋₁}, {d³₀₀₁||3²₁₁₁}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$
GM3	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$
GM4	3	-1	0	0	3	-1	0	0
<u>GM5</u>	1	1	-1	1	-1	-1	1	-1
<u>GM6</u>	1	1	ω^*	$-\omega$	-1	-1	$-\omega^*$	ω
<u>GM7</u>	1	1	ω	$-\omega^*$	-1	-1	$-\omega$	ω^*
<u>GM8</u>	3	-1	0	0	-3	1	0	0

-1-4¹3⁻¹m

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}, {1||2₀₁₀}, {1||2₁₀₀}

C₃: {1||3¹₋₁₋₁₁}, {1||3¹₋₁₁₋₁}, {1||3¹₁₋₁₋₁}, {1||3¹₁₁₁}

C₄: {1||3²₋₁₋₁₁}, {1||3²₋₁₁₋₁}, {1||3²₁₋₁₋₁}, {1||3²₁₁₁}

C₅: {^d1||1}

C₆: {^d1||2₀₀₁}, {^d1||2₀₁₀}, {^d1||2₁₀₀}

C₇: {^d1||3¹₋₁₋₁₁}, {^d1||3¹₋₁₁₋₁}, {^d1||3¹₁₋₁₋₁}, {^d1||3¹₁₁₁}

C₈: {^d1||3²₋₁₋₁₁}, {^d1||3²₋₁₁₋₁}, {^d1||3²₁₋₁₋₁}, {^d1||3²₁₁₁}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$
GM3	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$
GM4	3	-1	0	0	3	-1	0	0
<u>GM5GM5</u>	2	2	2	2	-2	-2	-2	-2
<u>GM6GM6</u>	2	2	-2ω	$-2\omega^*$	-2	-2	2ω	$2\omega^*$
<u>GM7GM7</u>	2	2	$-2\omega^*$	-2ω	-2	-2	$2\omega^*$	2ω
<u>GM8GM8</u>	6	-2	0	0	-6	2	0	0

$2_{001}\text{-}4^13^2_{001}\text{m}$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

$C_3: \{1\|3^1_{-1-11}\}, \{1\|3^1_{-11-1}\}, \{1\|3^1_{1-1-1}\}, \{1\|3^1_{111}\}, \{1\|3^2_{-1-11}\}, \{1\|3^2_{-11-1}\}, \{1\|3^2_{1-1-1}\}, \{1\|3^2_{111}\}$

$C_4: \{2_{001}\| -4^1_{001}\}, \{2_{001}\| -4^1_{010}\}, \{2_{001}\| -4^1_{100}\}, \{2_{001}\| -4^3_{001}\}, \{2_{001}\| -4^3_{010}\}, \{2_{001}\| -4^3_{100}\}$

$C_5: \{2_{001}\|m_{-101}\}, \{2_{001}\|m_{01-1}\}, \{2_{001}\|m_{011}\}, \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{101}\}, \{2_{001}\|m_{110}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

$C_8: \{^d1\|3^1_{-1-11}\}, \{^d1\|3^1_{-11-1}\}, \{^d1\|3^1_{1-1-1}\}, \{^d1\|3^1_{111}\}, \{^d1\|3^2_{-1-11}\}, \{^d1\|3^2_{-11-1}\}, \{^d1\|3^2_{1-1-1}\}, \{^d1\|3^2_{111}\}$

$C_9: \{^d2_{001}\| -4^1_{001}\}, \{^d2_{001}\| -4^1_{010}\}, \{^d2_{001}\| -4^1_{100}\}, \{^d2_{001}\| -4^3_{001}\}, \{^d2_{001}\| -4^3_{010}\}, \{^d2_{001}\| -4^3_{100}\}$

$C_{10}: \{^d2_{001}\|m_{-101}\}, \{^d2_{001}\|m_{01-1}\}, \{^d2_{001}\|m_{011}\}, \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{101}\}, \{^d2_{001}\|m_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	1	1	1	-1	-1
GM3	2	2	-1	0	0	2	2	-1	0	0
GM4	3	-1	0	-1	1	3	-1	0	-1	1
GM5	3	-1	0	1	-1	3	-1	0	1	-1
<u>GM6</u>	1	1	1	-i	-i	-1	-1	-1	i	i
<u>GM7</u>	1	1	1	i	i	-1	-1	-1	-i	-i
<u>GM8</u>	2	2	-1	0	0	-2	-2	1	0	0
<u>GM9</u>	3	-1	0	-i	i	-3	1	0	i	-i
<u>GM10</u>	3	-1	0	i	-i	-3	1	0	-i	i

$m_{001}\text{-}4^13m_{001}m$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

C_3 : $\{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}$

C_4 : $\{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$

C_5 : $\{^d1\|1\}$

C_6 : $\{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

C_7 : $\{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}$

C_8 : $\{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
GM1	1	1	1	1	1	1	1	1
GM2	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$
GM3	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$
GM4	3	-1	0	0	3	-1	0	0
$\overline{\text{GM5}}$	1	1	1	1	-1	-1	-1	-1
$\overline{\text{GM6}}$	1	1	$-\omega$	$-\omega^*$	-1	-1	ω	ω^*
$\overline{\text{GM7}}$	1	1	$-\omega^*$	$-\omega$	-1	-1	ω^*	ω
$\overline{\text{GM8}}$	3	-1	0	0	-3	1	0	0

$1_4 1_3 1_m$

Classes:

C₁: {1||1}

C₂: {1||3¹₋₁₁₋₁}, {1||3²₋₁₋₁₁}, {1||3¹₁₋₁₋₁}, {1||3²₁₁₁}, {1||3¹₋₁₋₁₁}, {1||3²₋₁₁₋₁}, {1||3²₁₋₁₋₁}, {1||3¹₁₁₁}

C₃: {1||2₀₀₁}, {1||2₁₀₀}, {1||2₀₁₀}

C₄: {1||-4³₀₀₁}, {1||-4¹₀₀₁}, {1||-4³₀₁₀}, {1||-4¹₀₁₀}, {1||-4¹₁₀₀}, {1||-4³₁₀₀}

C₅: {1||m₁₋₁₀}, {1||m₁₁₀}, {1||m₁₀₁}, {1||m₋₁₀₁}, {1||m₀₁₋₁}, {1||m₀₁₁}

C₆: {^d1||1}

C₇: {^d1||3¹₋₁₁₋₁}, {^d1||3²₋₁₋₁₁}, {^d1||3¹₁₋₁₋₁}, {^d1||3²₁₁₁}, {^d1||3¹₋₁₋₁₁}, {^d1||3²₋₁₁₋₁}, {^d1||3²₁₋₁₋₁}, {^d1||3¹₁₁₁}

C₈: {^d1||2₀₀₁}, {^d1||2₁₀₀}, {^d1||2₀₁₀}

C₉: {^d1||-4³₀₀₁}, {^d1||-4¹₀₀₁}, {^d1||-4³₀₁₀}, {^d1||-4¹₀₁₀}, {^d1||-4¹₁₀₀}, {^d1||-4³₁₀₀}

C₁₀: {^d1||m₁₋₁₀}, {^d1||m₁₁₀}, {^d1||m₁₀₁}, {^d1||m₋₁₀₁}, {^d1||m₀₁₋₁}, {^d1||m₀₁₁}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	1	1	1	-1	-1
GM3	2	-1	2	0	0	2	-1	2	0	0
GM4	3	0	-1	-1	1	3	0	-1	-1	1
GM5	3	0	-1	1	-1	3	0	-1	1	-1
GM6	1	1	1	-1	-1	-1	-1	-1	1	1
GM7	1	1	1	1	1	-1	-1	-1	-1	-1
GM8	2	-1	2	0	0	-2	1	-2	0	0
GM9	3	0	-1	-1	1	-3	0	1	1	-1
GM10	3	0	-1	1	-1	-3	0	1	-1	1

$$m_{100}m^{-3^1_{-11-1}}3^{2^1_{1-10}}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{-101}\|m_{-101}\}, \{2_{01-1}\|m_{011}\}, \{2_{011}\|m_{01-1}\}, \{2_{1-10}\|m_{110}\}, \{2_{101}\|m_{101}\}, \{2_{110}\|m_{1-10}\}, \{^d2_{-101}\|m_{-101}\}, \{^d2_{01-1}\|m_{011}\}, \{^d2_{011}\|m_{01-1}\}, \{^d2_{1-10}\|m_{110}\}, \{^d2_{101}\|m_{101}\}, \{^d2_{110}\|m_{1-10}\}$$

$$C_3: \{2_{001}\|2_{001}\}, \{2_{010}\|2_{010}\}, \{2_{100}\|2_{100}\}, \{^d2_{001}\|2_{001}\}, \{^d2_{010}\|2_{010}\}, \{^d2_{100}\|2_{100}\}$$

$$C_4: \{3^1_{-1-11}\|3^1_{1-1-1}\}, \{3^1_{-11-1}\|3^1_{111}\}, \{3^1_{1-1-1}\|3^1_{-1-11}\}, \{3^1_{111}\|3^1_{-11-1}\}, \{^d3^2_{-1-11}\|3^2_{1-1-1}\}, \{^d3^2_{-11-1}\|3^2_{111}\}, \{^d3^2_{1-1-1}\|3^2_{-1-11}\}, \{^d3^2_{111}\|3^2_{-11-1}\}$$

$$C_5: \{3^2_{-1-11}\|3^2_{1-1-1}\}, \{3^2_{-11-1}\|3^2_{111}\}, \{3^2_{1-1-1}\|3^2_{-1-11}\}, \{3^2_{111}\|3^2_{-11-1}\}, \{^d3^1_{-1-11}\|3^1_{1-1-1}\}, \{^d3^1_{-11-1}\|3^1_{111}\}, \{^d3^1_{1-1-1}\|3^1_{-1-11}\}, \{^d3^1_{111}\|3^1_{-11-1}\}$$

$$C_6: \{4^1_{001}\| - 4^3_{001}\}, \{4^1_{010}\| - 4^3_{010}\}, \{4^1_{100}\| - 4^3_{100}\}, \{^d4^3_{001}\| - 4^1_{001}\}, \{^d4^3_{010}\| - 4^3_{010}\}, \{^d4^3_{100}\| - 4^1_{100}\}$$

$$C_7: \{4^3_{001}\| - 4^1_{001}\}, \{4^3_{010}\| - 4^1_{010}\}, \{4^3_{100}\| - 4^1_{100}\}, \{^d4^1_{001}\| - 4^3_{001}\}, \{^d4^1_{010}\| - 4^3_{010}\}, \{^d4^1_{100}\| - 4^3_{100}\}$$

$$C_8: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	1	-1	-1	1
GM3	2	0	2	-1	-1	0	0	2
GM4	3	1	-1	0	0	-1	-1	3
GM5	3	-1	-1	0	0	1	1	3
$\overline{\text{GM6}}$	2	0	0	1	-1	$-\sqrt{2}$	$\sqrt{2}$	-2
$\overline{\text{GM7}}$	2	0	0	1	-1	$\sqrt{2}$	$-\sqrt{2}$	-2
$\overline{\text{GM8}}$	4	0	0	-1	1	0	0	-4

$$m_{100}m^{-3^2}_{-11-1}-3m_{101}m$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{2_{-101}\|2_{1-10}\}, \{2_{01-1}\|2_{011}\}, \{2_{011}\|2_{01-1}\}, \{2_{1-10}\|2_{101}\}, \{2_{101}\|2_{110}\}, \{2_{110}\|2_{-101}\}, \{^d2_{-101}\|2_{1-10}\}, \\ \{^d2_{01-1}\|2_{011}\}, \{^d2_{011}\|2_{01-1}\}, \{^d2_{1-10}\|2_{101}\}, \{^d2_{101}\|2_{110}\}, \{^d2_{110}\|2_{-101}\}$$

$$C_3: \{2_{001}\|2_{010}\}, \{2_{010}\|2_{001}\}, \{2_{100}\|2_{100}\}, \{^d2_{001}\|2_{010}\}, \{^d2_{010}\|2_{001}\}, \{^d2_{100}\|2_{100}\}$$

$$C_4: \{3^1_{-1-11}\|3^2_{1-1-1}\}, \{3^1_{-11-1}\|3^2_{111}\}, \{3^1_{1-1-1}\|3^2_{-11-1}\}, \{3^1_{111}\|3^2_{-1-11}\}, \{^d3^2_{-1-11}\|3^1_{1-1-1}\}, \{^d3^2_{-11-1}\|3^1_{111}\}, \\ \{^d3^2_{1-1-1}\|3^1_{-11-1}\}, \{^d3^2_{111}\|3^1_{-1-11}\}$$

$$C_5: \{3^2_{-1-11}\|3^1_{1-1-1}\}, \{3^2_{-11-1}\|3^1_{111}\}, \{3^2_{1-1-1}\|3^1_{-11-1}\}, \{3^2_{111}\|3^1_{-1-11}\}, \{^d3^1_{-1-11}\|3^2_{1-1-1}\}, \{^d3^1_{-11-1}\|3^2_{111}\}, \\ \{^d3^1_{1-1-1}\|3^2_{-11-1}\}, \{^d3^1_{111}\|3^2_{-1-11}\}$$

$$C_6: \{4^1_{001}\|4^1_{010}\}, \{4^1_{010}\|4^3_{001}\}, \{4^1_{100}\|4^1_{100}\}, \{^d4^3_{001}\|4^3_{010}\}, \{^d4^3_{010}\|4^1_{001}\}, \{^d4^3_{100}\|4^3_{100}\}$$

$$C_7: \{4^3_{001}\|4^3_{010}\}, \{4^3_{010}\|4^1_{001}\}, \{4^3_{100}\|4^3_{100}\}, \{^d4^1_{001}\|4^1_{010}\}, \{^d4^1_{010}\|4^3_{001}\}, \{^d4^1_{100}\|4^1_{100}\}$$

$$C_8: \{^d1\|1\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈
GM1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	1	-1	-1	1
GM3	2	0	2	-1	-1	0	0	2
GM4	3	1	-1	0	0	-1	-1	3
GM5	3	-1	-1	0	0	1	1	3
$\overline{\text{GM6}}$	2	0	0	1	-1	$-\sqrt{2}$	$\sqrt{2}$	-2
$\overline{\text{GM7}}$	2	0	0	1	-1	$\sqrt{2}$	$-\sqrt{2}$	-2
$\overline{\text{GM8}}$	4	0	0	-1	1	0	0	-4

$2_{100}m^3{}^1_{111}-3^2{}_{110}m$

Classes:

$C_1: \{1||1\}$

$C_2: \{1||-1\}$

$C_3: \{2_{-101}||m_{-101}\}, \{2_{01-1}||m_{01-1}\}, \{2_{011}||m_{011}\}, \{2_{1-10}||m_{1-10}\}, \{2_{101}||m_{101}\}, \{2_{110}||m_{110}\}, \{^d2_{-101}||m_{-101}\}, \{^d2_{01-1}||m_{01-1}\}, \{^d2_{011}||m_{011}\}, \{^d2_{1-10}||m_{1-10}\}, \{^d2_{101}||m_{101}\}, \{^d2_{110}||m_{110}\}$

$C_4: \{2_{-101}||2_{-101}\}, \{2_{01-1}||2_{01-1}\}, \{2_{011}||2_{011}\}, \{2_{1-10}||2_{1-10}\}, \{2_{101}||2_{101}\}, \{2_{110}||2_{110}\}, \{^d2_{-101}||2_{-101}\}, \{^d2_{01-1}||2_{01-1}\}, \{^d2_{011}||2_{011}\}, \{^d2_{1-10}||2_{1-10}\}, \{^d2_{101}||2_{101}\}, \{^d2_{110}||2_{110}\}$

$C_5: \{2_{001}||m_{001}\}, \{2_{010}||m_{010}\}, \{2_{100}||m_{100}\}, \{^d2_{001}||m_{001}\}, \{^d2_{010}||m_{010}\}, \{^d2_{100}||m_{100}\}$

$C_6: \{2_{001}||2_{001}\}, \{2_{010}||2_{010}\}, \{2_{100}||2_{100}\}, \{^d2_{001}||2_{001}\}, \{^d2_{010}||2_{010}\}, \{^d2_{100}||2_{100}\}$

$C_7: \{3^1_{-1-11}||3^1_{-1-11}\}, \{3^1_{-11-1}||3^1_{-11-1}\}, \{3^1_{1-1-1}||3^1_{1-1-1}\}, \{3^1_{111}||3^1_{111}\}, \{^d3^2_{-1-11}||3^2_{-1-11}\}, \{^d3^2_{-11-1}||3^2_{-11-1}\}, \{^d3^2_{1-1-1}||3^2_{1-1-1}\}, \{^d3^2_{111}||3^2_{111}\}$

$C_8: \{3^1_{-1-11}||-3^1_{-1-11}\}, \{3^1_{-11-1}||-3^1_{-11-1}\}, \{3^1_{1-1-1}||-3^1_{1-1-1}\}, \{3^1_{111}||-3^1_{111}\}, \{^d3^2_{-1-11}||-3^2_{-1-11}\}, \{^d3^2_{-11-1}||-3^2_{-11-1}\}, \{^d3^2_{1-1-1}||-3^2_{1-1-1}\}, \{^d3^2_{111}||-3^2_{111}\}$

$C_9: \{3^2_{-1-11}||3^2_{-1-11}\}, \{3^2_{-11-1}||3^2_{-11-1}\}, \{3^2_{1-1-1}||3^2_{1-1-1}\}, \{3^2_{111}||3^2_{111}\}, \{^d3^1_{-1-11}||3^1_{-1-11}\}, \{^d3^1_{-11-1}||3^1_{-11-1}\}, \{^d3^1_{1-1-1}||3^1_{1-1-1}\}, \{^d3^1_{111}||3^1_{111}\}$

$C_{10}: \{3^2_{-1-11}||-3^2_{-1-11}\}, \{3^2_{-11-1}||-3^2_{-11-1}\}, \{3^2_{1-1-1}||-3^2_{1-1-1}\}, \{3^2_{111}||-3^2_{111}\}, \{^d3^1_{-1-11}||-3^1_{-1-11}\}, \{^d3^1_{-11-1}||-3^1_{-11-1}\}, \{^d3^1_{1-1-1}||-3^1_{1-1-1}\}, \{^d3^1_{111}||-3^1_{111}\}$

$C_{11}: \{4^1_{001}||4^1_{001}\}, \{4^1_{010}||4^1_{010}\}, \{4^1_{100}||4^1_{100}\}, \{^d4^3_{001}||4^3_{001}\}, \{^d4^3_{010}||4^3_{010}\}, \{^d4^3_{100}||4^3_{100}\}$

$C_{12}: \{4^1_{001}||-4^1_{001}\}, \{4^1_{010}||-4^1_{010}\}, \{4^1_{100}||-4^1_{100}\}, \{^d4^3_{001}||-4^3_{001}\}, \{^d4^3_{010}||-4^3_{010}\}, \{^d4^3_{100}||-4^3_{100}\}$

$C_{13}: \{4^3_{001}||4^3_{001}\}, \{4^3_{010}||4^3_{010}\}, \{4^3_{100}||4^3_{100}\}, \{^d4^1_{001}||4^1_{001}\}, \{^d4^1_{010}||4^1_{010}\}, \{^d4^1_{100}||4^1_{100}\}$

$C_{14}: \{4^3_{001}||-4^3_{001}\}, \{4^3_{010}||-4^3_{010}\}, \{4^3_{100}||-4^3_{100}\}, \{^d4^1_{001}||-4^1_{001}\}, \{^d4^1_{010}||-4^1_{010}\}, \{^d4^1_{100}||-4^1_{100}\}$

$C_{15}: \{^d1||1\}$

$C_{16}: \{^d1||-1\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1
GM4	1	1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	1	1
GM5	2	2	0	0	2	2	-1	-1	-1	-1	0	0	0	0	2	2
GM6	2	-2	0	0	-2	2	-1	1	-1	1	0	0	0	0	2	-2
GM7	3	3	1	1	-1	-1	0	0	0	0	-1	-1	-1	-1	3	3
GM8	3	3	-1	-1	-1	-1	0	0	0	0	1	1	1	1	3	3
GM9	3	-3	-1	1	1	-1	0	0	0	0	-1	1	-1	1	3	-3
GM10	3	-3	1	-1	1	-1	0	0	0	0	1	-1	1	-1	3	-3
GM11	2	2	0	0	0	0	1	1	-1	-1	$-\sqrt{2}$	$-\sqrt{2}$	$\sqrt{2}$	$\sqrt{2}$	-2	-2
GM12	2	2	0	0	0	0	1	1	-1	-1	$\sqrt{2}$	$\sqrt{2}$	$-\sqrt{2}$	$-\sqrt{2}$	-2	-2
GM13	2	-2	0	0	0	0	1	-1	-1	1	$-\sqrt{2}$	$\sqrt{2}$	$\sqrt{2}$	$-\sqrt{2}$	-2	2
GM14	2	-2	0	0	0	0	1	-1	-1	1	$\sqrt{2}$	$-\sqrt{2}$	$-\sqrt{2}$	$\sqrt{2}$	-2	2
GM15	4	4	0	0	0	0	-1	-1	1	1	0	0	0	0	-4	-4
GM16	4	-4	0	0	0	0	-1	1	1	-1	0	0	0	0	-4	4

$$2_{010}m^{3^2}_{-11-1}3m_{1-10}m$$

Classes:

$$C_1: \{1 \parallel 1\}$$

$$C_2: \{1 \parallel -1\}$$

$$C_3: \{2_{001} \parallel m_{001}\}, \{2_{010} \parallel m_{100}\}, \{2_{100} \parallel m_{010}\}, \{^d2_{001} \parallel m_{001}\}, \{^d2_{010} \parallel m_{100}\}, \{^d2_{100} \parallel m_{010}\}$$

$$C_4: \{2_{001} \parallel 2_{001}\}, \{2_{010} \parallel 2_{100}\}, \{2_{100} \parallel 2_{010}\}, \{^d2_{001} \parallel 2_{001}\}, \{^d2_{010} \parallel 2_{100}\}, \{^d2_{100} \parallel 2_{010}\}$$

$$C_5: \{3^1_{-1-11} \parallel 3^2_{-11-1}\}, \{3^1_{-11-1} \parallel 3^2_{111}\}, \{3^1_{1-1-1} \parallel 3^2_{-1-11}\}, \{3^1_{111} \parallel 3^2_{1-1-1}\}$$

$$C_6: \{3^1_{-1-11} \parallel -3^2_{-11-1}\}, \{3^1_{-11-1} \parallel -3^2_{111}\}, \{3^1_{1-1-1} \parallel -3^2_{-1-11}\}, \{3^1_{111} \parallel -3^2_{1-1-1}\}$$

$$C_7: \{3^2_{-1-11} \parallel 3^1_{-11-1}\}, \{3^2_{-11-1} \parallel 3^1_{111}\}, \{3^2_{1-1-1} \parallel 3^1_{-1-11}\}, \{3^2_{111} \parallel 3^1_{1-1-1}\}$$

$$C_8: \{3^2_{-1-11} \parallel -3^1_{-11-1}\}, \{3^2_{-11-1} \parallel -3^1_{111}\}, \{3^2_{1-1-1} \parallel -3^1_{-1-11}\}, \{3^2_{111} \parallel -3^1_{1-1-1}\}$$

$$C_9: \{^d1 \parallel 1\}$$

$$C_{10}: \{^d1 \parallel -1\}$$

$$C_{11}: \{^d3^1_{-1-11} \parallel 3^2_{-11-1}\}, \{^d3^1_{-11-1} \parallel 3^2_{111}\}, \{^d3^1_{1-1-1} \parallel 3^2_{-1-11}\}, \{^d3^1_{111} \parallel 3^2_{1-1-1}\}$$

$$C_{12}: \{^d3^1_{-1-11} \parallel -3^2_{-11-1}\}, \{^d3^1_{-11-1} \parallel -3^2_{111}\}, \{^d3^1_{1-1-1} \parallel -3^2_{-1-11}\}, \{^d3^1_{111} \parallel -3^2_{1-1-1}\}$$

$$C_{13}: \{^d3^2_{-1-11} \parallel 3^1_{-11-1}\}, \{^d3^2_{-11-1} \parallel 3^1_{111}\}, \{^d3^2_{1-1-1} \parallel 3^1_{-1-11}\}, \{^d3^2_{111} \parallel 3^1_{1-1-1}\}$$

$$C_{14}: \{^d3^2_{-1-11} \parallel -3^1_{-11-1}\}, \{^d3^2_{-11-1} \parallel -3^1_{111}\}, \{^d3^2_{1-1-1} \parallel -3^1_{-1-11}\}, \{^d3^2_{111} \parallel -3^1_{1-1-1}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1
GM3	1	-1	-1	1	$-\omega$	ω	$-\omega^*$	ω^*	1	-1	$-\omega$	ω	$-\omega^*$	ω^*
GM4	1	-1	-1	1	$-\omega^*$	ω^*	$-\omega$	ω	1	-1	$-\omega^*$	ω^*	$-\omega$	ω
GM5	1	1	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$	1	1	$-\omega$	$-\omega$	$-\omega^*$	$-\omega^*$
GM6	1	1	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$	1	1	$-\omega^*$	$-\omega^*$	$-\omega$	$-\omega$
GM7	3	-3	1	-1	0	0	0	0	3	-3	0	0	0	0
GM8	3	3	-1	-1	0	0	0	0	3	3	0	0	0	0
<u>GM9</u>	2	-2	0	0	1	-1	-1	1	-2	2	-1	1	1	-1
<u>GM10</u>	2	2	0	0	1	1	-1	-1	-2	-2	-1	-1	1	1
<u>GM11</u>	2	-2	0	0	$-\omega$	ω	ω^*	$-\omega^*$	-2	2	ω	$-\omega$	$-\omega^*$	ω^*
<u>GM12</u>	2	-2	0	0	$-\omega^*$	ω^*	ω	$-\omega$	-2	2	ω^*	$-\omega^*$	$-\omega$	ω
<u>GM13</u>	2	2	0	0	$-\omega$	$-\omega$	ω^*	ω^*	-2	-2	ω	ω	$-\omega^*$	$-\omega^*$
<u>GM14</u>	2	2	0	0	$-\omega^*$	$-\omega^*$	ω	ω	-2	-2	ω^*	ω^*	$-\omega$	$-\omega$

$2_{001}\mathbf{m}^6{}_{001}\text{-}3^2{}_{010}\mathbf{m}$

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}, {1||2₀₁₀}, {1||2₁₀₀}

C₃: {2₀₀₁||-1}, {^d2₀₀₁||-1}

C₄: {2₀₀₁||m₀₀₁}, {2₀₀₁||m₀₁₀}, {2₀₀₁||m₁₀₀}, {^d2₀₀₁||m₀₀₁}, {^d2₀₀₁||m₀₁₀}, {^d2₀₀₁||m₁₀₀}

C₅: {2₀₁₀||-4¹₀₀₁}, {2₀₁₀||-4³₀₀₁}, {2_{1/6}π||-4¹₁₀₀}, {2_{1/6}π||-4³₁₀₀}, {2_{5/6}π||-4¹₀₁₀}, {2_{5/6}π||-4³₀₁₀}, {^d2₀₁₀||-4¹₀₀₁}, {^d2₀₁₀||-4³₀₀₁}, {^d2_{1/6}π||-4¹₁₀₀}, {^d2_{1/6}π||-4³₁₀₀}, {^d2_{5/6}π||-4¹₀₁₀}, {^d2_{5/6}π||-4³₀₁₀}

C₆: {2₀₁₀||m₁₋₁₀}, {2₀₁₀||m₁₁₀}, {2_{1/6}π||m₀₁₋₁}, {2_{1/6}π||m₀₁₁}, {2_{5/6}π||m₋₁₀₁}, {2_{5/6}π||m₁₀₁}, {^d2₀₁₀||m₁₋₁₀}, {^d2₀₁₀||m₁₁₀}, {^d2_{1/6}π||m₀₁₋₁}, {^d2_{1/6}π||m₀₁₁}, {^d2_{5/6}π||m₋₁₀₁}, {^d2_{5/6}π||m₁₀₁}

C₇: {2₁₀₀||2₁₋₁₀}, {2₁₀₀||2₁₁₀}, {2_{1/3}π||2₋₁₀₁}, {2_{1/3}π||2₁₀₁}, {2_{2/3}π||2₀₁₋₁}, {2_{2/3}π||2₀₁₁}, {^d2₁₀₀||2₁₋₁₀}, {^d2₁₀₀||2₁₁₀}, {^d2_{1/3}π||2₋₁₀₁}, {^d2_{1/3}π||2₁₀₁}, {^d2_{2/3}π||2₀₁₋₁}, {^d2_{2/3}π||2₀₁₁}

C₈: {2₁₀₀||4¹₀₀₁}, {2₁₀₀||4³₀₀₁}, {2_{1/3}π||4¹₀₁₀}, {2_{1/3}π||4³₀₁₀}, {2_{2/3}π||4¹₁₀₀}, {2_{2/3}π||4³₁₀₀}, {^d2₁₀₀||4¹₀₀₁}, {^d2₁₀₀||4³₀₀₁}, {^d2_{1/3}π||4¹₀₁₀}, {^d2_{1/3}π||4³₀₁₀}, {^d2_{2/3}π||4¹₁₀₀}, {^d2_{2/3}π||4³₁₀₀}

C₉: {3¹₀₀₁||3¹₋₁₋₁₁}, {3¹₀₀₁||3¹₋₁₁₋₁}, {3¹₀₀₁||3¹₁₋₁₋₁}, {3¹₀₀₁||3¹₁₁₁}, {^d3²₀₀₁||3²₋₁₋₁₁}, {^d3²₀₀₁||3²₋₁₁₋₁}, {^d3²₀₀₁||3²₁₋₁₋₁}, {^d3²₀₀₁||3²₁₁₁}

C₁₀: {3²₀₀₁||3²₋₁₋₁₁}, {3²₀₀₁||3²₋₁₁₋₁}, {3²₀₀₁||3²₁₋₁₋₁}, {3²₀₀₁||3²₁₁₁}, {^d3¹₀₀₁||3¹₋₁₋₁₁}, {^d3¹₀₀₁||3¹₋₁₁₋₁}, {^d3¹₀₀₁||3¹₁₋₁₋₁}, {^d3¹₀₀₁||3¹₁₁₁}

C₁₁: {6¹₀₀₁||-3²₋₁₋₁₁}, {6¹₀₀₁||-3²₋₁₁₋₁}, {6¹₀₀₁||-3²₁₋₁₋₁}, {6¹₀₀₁||-3²₁₁₁}, {^d6⁵₀₀₁||-3¹₋₁₋₁₁}, {^d6⁵₀₀₁||-3¹₋₁₁₋₁}, {^d6⁵₀₀₁||-3¹₁₋₁₋₁}, {^d6⁵₀₀₁||-3¹₁₁₁}

C₁₂: {6⁵₀₀₁||-3¹₋₁₋₁₁}, {6⁵₀₀₁||-3¹₋₁₁₋₁}, {6⁵₀₀₁||-3¹₁₋₁₋₁}, {6⁵₀₀₁||-3¹₁₁₁}, {^d6¹₀₀₁||-3²₋₁₋₁₁}, {^d6¹₀₀₁||-3²₋₁₁₋₁}, {^d6¹₀₀₁||-3²₁₋₁₋₁}, {^d6¹₀₀₁||-3²₁₁₁}

C₁₃: {^d1||1}

C₁₄: {^d1||2₀₀₁}, {^d1||2₀₁₀}, {^d1||2₁₀₀}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	1
GM3	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1
GM4	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1
GM5	2	2	-2	-2	0	0	0	0	-1	-1	1	1	2	2
GM6	2	2	2	2	0	0	0	0	-1	-1	-1	-1	2	2
GM7	3	-1	-3	1	-1	1	-1	1	0	0	0	0	3	-1
GM8	3	-1	-3	1	1	-1	1	-1	0	0	0	0	3	-1
GM9	3	-1	3	-1	-1	1	1	-1	0	0	0	0	3	-1
GM10	3	-1	3	-1	1	-1	-1	1	0	0	0	0	3	-1
GM11	2	2	0	0	0	0	0	0	-2	2	0	0	-2	-2
GM12	2	2	0	0	0	0	0	0	1	-1	√3	-√3	-2	-2
GM13	2	2	0	0	0	0	0	0	1	-1	-√3	√3	-2	-2
GM14	6	-2	0	0	0	0	0	0	0	0	0	0	-6	2

$2_{001}\mathbf{m}6_{001}^5\text{-}3_{\mathbf{m}100}\mathbf{m}$

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}, {1||2₀₁₀}, {1||2₁₀₀}

C₃: {2₀₀₁||-1}

C₄: {2₀₀₁||m₀₀₁}, {2₀₀₁||m₀₁₀}, {2₀₀₁||m₁₀₀}

C₅: {3₀₀₁¹||3₋₁₋₁₁¹}, {3₀₀₁¹||3₋₁₁₋₁¹}, {3₀₀₁¹||3₁₋₁₋₁¹}, {3₀₀₁¹||3₁₁₁¹}

C₆: {3₀₀₁²||3₋₁₋₁₁²}, {3₀₀₁²||3₋₁₁₋₁²}, {3₀₀₁²||3₁₋₁₋₁²}, {3₀₀₁²||3₁₁₁²}

C₇: {6₀₀₁¹||-3₋₁₋₁₁²}, {6₀₀₁¹||-3₋₁₁₋₁²}, {6₀₀₁¹||-3₁₋₁₋₁²}, {6₀₀₁¹||-3₁₁₁²}

C₈: {6₀₀₁⁵||-3₋₁₋₁₁¹}, {6₀₀₁⁵||-3₋₁₁₋₁¹}, {6₀₀₁⁵||-3₁₋₁₋₁¹}, {6₀₀₁⁵||-3₁₁₁¹}

C₉: {d₁||1}

C₁₀: {d₁||2₀₀₁}, {d₁||2₀₁₀}, {d₁||2₁₀₀}

C₁₁: {d₂₀₀₁||-1}

C₁₂: {d₂₀₀₁||m₀₀₁}, {d₂₀₀₁||m₀₁₀}, {d₂₀₀₁||m₁₀₀}

C₁₃: {d₃₀₀₁¹||3₋₁₋₁₁¹}, {d₃₀₀₁¹||3₋₁₁₋₁¹}, {d₃₀₀₁¹||3₁₋₁₋₁¹}, {d₃₀₀₁¹||3₁₁₁¹}

C₁₄: {d₃₀₀₁²||3₋₁₋₁₁²}, {d₃₀₀₁²||3₋₁₁₋₁²}, {d₃₀₀₁²||3₁₋₁₋₁²}, {d₃₀₀₁²||3₁₁₁²}

C₁₅: {d₆₀₀₁¹||-3₋₁₋₁₁²}, {d₆₀₀₁¹||-3₋₁₁₋₁²}, {d₆₀₀₁¹||-3₁₋₁₋₁²}, {d₆₀₀₁¹||-3₁₁₁²}

C₁₆: {d₆₀₀₁⁵||-3₋₁₋₁₁¹}, {d₆₀₀₁⁵||-3₋₁₁₋₁¹}, {d₆₀₀₁⁵||-3₁₋₁₋₁¹}, {d₆₀₀₁⁵||-3₁₁₁¹}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
GM3	1	1	-1	-1	-ω	-ω*	ω*	ω	1	1	-1	-1	-ω	-ω*	ω*	ω
GM4	1	1	-1	-1	-ω*	-ω	ω	ω*	1	1	-1	-1	-ω*	-ω	ω	ω*
GM5	1	1	1	1	-ω	-ω*	-ω*	-ω	1	1	1	1	-ω	-ω*	-ω*	-ω
GM6	1	1	1	1	-ω*	-ω	-ω	-ω*	1	1	1	1	-ω*	-ω	-ω	-ω*
GM7	3	-1	-3	1	0	0	0	0	3	-1	-3	1	0	0	0	0
GM8	3	-1	3	-1	0	0	0	0	3	-1	3	-1	0	0	0	0
GM9	1	1	-i	-i	-1	1	i	i	-1	-1	i	i	1	-1	-i	-i
GM10	1	1	i	i	-1	1	-i	-i	-1	-1	-i	-i	1	-1	i	i
GM11	1	1	-i	-i	ω*	-ω	τ*	-τ	-1	-1	i	i	-ω*	ω	-τ*	τ
GM12	1	1	-i	-i	ω	-ω*	-τ	τ*	-1	-1	i	i	-ω	ω*	τ	-τ*
GM13	1	1	i	i	ω*	-ω	-τ*	τ	-1	-1	-i	-i	-ω*	ω	τ*	-τ
GM14	1	1	i	i	ω	-ω*	τ	-τ*	-1	-1	-i	-i	-ω	ω*	-τ	τ*
GM15	3	-1	3i	-i	0	0	0	0	-3	1	-3i	i	0	0	0	0
GM16	3	-1	-3i	i	0	0	0	0	-3	1	3i	-i	0	0	0	0

$$^{-1}\mathbf{m}^{-3^1_{001}}\mathbf{-3}^{2_{010}}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$$

$$C_3: \{2_{010}\| -4^1_{001}\}, \{2_{010}\| -4^3_{001}\}, \{^d2_{\frac{1}{6}\pi}\| -4^1_{100}\}, \{^d2_{\frac{1}{6}\pi}\| -4^3_{100}\}, \{^d2_{\frac{5}{6}\pi}\| -4^1_{010}\}, \{^d2_{\frac{5}{6}\pi}\| -4^3_{010}\}$$

$$C_4: \{2_{010}\|\mathbf{m}_{1-10}\}, \{2_{010}\|\mathbf{m}_{110}\}, \{^d2_{\frac{1}{6}\pi}\|\mathbf{m}_{01-1}\}, \{^d2_{\frac{1}{6}\pi}\|\mathbf{m}_{011}\}, \{^d2_{\frac{5}{6}\pi}\|\mathbf{m}_{-101}\}, \{^d2_{\frac{5}{6}\pi}\|\mathbf{m}_{101}\}$$

$$C_5: \{2_{\frac{1}{6}\pi}\| -4^1_{100}\}, \{2_{\frac{1}{6}\pi}\| -4^3_{100}\}, \{2_{\frac{5}{6}\pi}\| -4^1_{010}\}, \{2_{\frac{5}{6}\pi}\| -4^3_{010}\}, \{^d2_{010}\| -4^1_{001}\}, \{^d2_{010}\| -4^3_{001}\}$$

$$C_6: \{2_{\frac{1}{6}\pi}\|\mathbf{m}_{01-1}\}, \{2_{\frac{1}{6}\pi}\|\mathbf{m}_{011}\}, \{2_{\frac{5}{6}\pi}\|\mathbf{m}_{-101}\}, \{2_{\frac{5}{6}\pi}\|\mathbf{m}_{101}\}, \{^d2_{010}\|\mathbf{m}_{1-10}\}, \{^d2_{010}\|\mathbf{m}_{110}\}$$

$$C_7: \{3^1_{001}\|3^1_{-1-11}\}, \{3^1_{001}\|3^1_{-11-1}\}, \{3^1_{001}\|3^1_{1-1-1}\}, \{3^1_{001}\|3^1_{111}\}, \{^d3^2_{001}\|3^2_{-1-11}\}, \{^d3^2_{001}\|3^2_{-11-1}\}, \{^d3^2_{001}\|3^2_{1-1-1}\}, \{^d3^2_{001}\|3^2_{111}\}$$

$$C_8: \{3^2_{001}\|3^2_{-1-11}\}, \{3^2_{001}\|3^2_{-11-1}\}, \{3^2_{001}\|3^2_{1-1-1}\}, \{3^2_{001}\|3^2_{111}\}, \{^d3^1_{001}\|3^1_{-1-11}\}, \{^d3^1_{001}\|3^1_{-11-1}\}, \{^d3^1_{001}\|3^1_{1-1-1}\}, \{^d3^1_{001}\|3^1_{111}\}$$

$$C_9: \{^d1\|1\}$$

$$C_{10}: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	2	2	0	0	0	0	-1	-1	2	2
GM4	3	-1	-1	1	-1	1	0	0	3	-1
GM5	3	-1	1	-1	1	-1	0	0	3	-1
GM6	2	2	0	0	0	0	1	-1	-2	-2
GM7GM8	2	2	0	0	0	0	-2	2	-2	-2
GM9GM10	6	-2	0	0	0	0	0	0	-6	2

$$-1\mathbf{m}^{-3^1_{001}}-3^{\mathbf{m}1}_{6\pi}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$$

$$C_3: \{2_{010}\|2_{-101}\}, \{2_{010}\|2_{101}\}, \{^d2_{\frac{1}{6}\pi}\|2_{1-10}\}, \{^d2_{\frac{1}{6}\pi}\|2_{110}\}, \{^d2_{\frac{5}{6}\pi}\|2_{01-1}\}, \{^d2_{\frac{5}{6}\pi}\|2_{011}\}$$

$$C_4: \{2_{010}\|4^1_{010}\}, \{2_{010}\|4^3_{010}\}, \{^d2_{\frac{1}{6}\pi}\|4^1_{001}\}, \{^d2_{\frac{1}{6}\pi}\|4^3_{001}\}, \{^d2_{\frac{5}{6}\pi}\|4^1_{100}\}, \{^d2_{\frac{5}{6}\pi}\|4^3_{100}\}$$

$$C_5: \{2_{\frac{1}{6}\pi}\|2_{1-10}\}, \{2_{\frac{1}{6}\pi}\|2_{110}\}, \{2_{\frac{5}{6}\pi}\|2_{01-1}\}, \{2_{\frac{5}{6}\pi}\|2_{011}\}, \{^d2_{010}\|2_{-101}\}, \{^d2_{010}\|2_{101}\}$$

$$C_6: \{2_{\frac{1}{6}\pi}\|4^1_{001}\}, \{2_{\frac{1}{6}\pi}\|4^3_{001}\}, \{2_{\frac{5}{6}\pi}\|4^1_{100}\}, \{2_{\frac{5}{6}\pi}\|4^3_{100}\}, \{^d2_{010}\|4^1_{010}\}, \{^d2_{010}\|4^3_{010}\}$$

$$C_7: \{3^1_{001}\|3^1_{-1-11}\}, \{3^1_{001}\|3^1_{-11-1}\}, \{3^1_{001}\|3^1_{1-1-1}\}, \{3^1_{001}\|3^1_{111}\}, \{^d3^2_{001}\|3^2_{-1-11}\}, \{^d3^2_{001}\|3^2_{-11-1}\}, \{^d3^2_{001}\|3^2_{1-1-1}\}, \{^d3^2_{001}\|3^2_{111}\}$$

$$C_8: \{3^2_{001}\|3^2_{-1-11}\}, \{3^2_{001}\|3^2_{-11-1}\}, \{3^2_{001}\|3^2_{1-1-1}\}, \{3^2_{001}\|3^2_{111}\}, \{^d3^1_{001}\|3^1_{-1-11}\}, \{^d3^1_{001}\|3^1_{-11-1}\}, \{^d3^1_{001}\|3^1_{1-1-1}\}, \{^d3^1_{001}\|3^1_{111}\}$$

$$C_9: \{^d1\|1\}$$

$$C_{10}: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	2	2	0	0	0	0	-1	-1	2	2
GM4	3	-1	-1	1	-1	1	0	0	3	-1
GM5	3	-1	1	-1	1	-1	0	0	3	-1
GM6	2	2	0	0	0	0	1	-1	-2	-2
GM7GM8	2	2	0	0	0	0	-2	2	-2	-2
GM9GM10	6	-2	0	0	0	0	0	0	-6	2

$m_{001}m^{-6^1_{001}-3m_{010}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

$C_3: \{2_{100}\|2_{1-10}\}, \{2_{100}\|2_{110}\}, \{2_{\frac{2}{3}\pi}\|2_{-101}\}, \{2_{\frac{2}{3}\pi}\|2_{101}\}, \{^d2_{\frac{1}{3}\pi}\|2_{01-1}\}, \{^d2_{\frac{1}{3}\pi}\|2_{011}\}$

$C_4: \{2_{100}\|4^1_{001}\}, \{2_{100}\|4^3_{001}\}, \{2_{\frac{2}{3}\pi}\|4^1_{010}\}, \{2_{\frac{2}{3}\pi}\|4^3_{010}\}, \{^d2_{\frac{1}{3}\pi}\|4^1_{100}\}, \{^d2_{\frac{1}{3}\pi}\|4^3_{100}\}$

$C_5: \{2_{\frac{1}{3}\pi}\|2_{01-1}\}, \{2_{\frac{1}{3}\pi}\|2_{011}\}, \{^d2_{100}\|2_{1-10}\}, \{^d2_{100}\|2_{110}\}, \{^d2_{\frac{2}{3}\pi}\|2_{-101}\}, \{^d2_{\frac{2}{3}\pi}\|2_{101}\}$

$C_6: \{2_{\frac{1}{3}\pi}\|4^1_{100}\}, \{2_{\frac{1}{3}\pi}\|4^3_{100}\}, \{^d2_{100}\|4^1_{001}\}, \{^d2_{100}\|4^3_{001}\}, \{^d2_{\frac{2}{3}\pi}\|4^1_{010}\}, \{^d2_{\frac{2}{3}\pi}\|4^3_{010}\}$

$C_7: \{3^1_{001}\|3^2_{-1-11}\}, \{3^1_{001}\|3^2_{-11-1}\}, \{3^1_{001}\|3^2_{1-1-1}\}, \{3^1_{001}\|3^2_{111}\}, \{^d3^2_{001}\|3^1_{-1-11}\}, \{^d3^2_{001}\|3^1_{-11-1}\}, \{^d3^2_{001}\|3^1_{1-1-1}\}, \{^d3^2_{001}\|3^1_{111}\}$

$C_8: \{3^2_{001}\|3^1_{-1-11}\}, \{3^2_{001}\|3^1_{-11-1}\}, \{3^2_{001}\|3^1_{1-1-1}\}, \{3^2_{001}\|3^1_{111}\}, \{^d3^1_{001}\|3^2_{-1-11}\}, \{^d3^1_{001}\|3^2_{-11-1}\}, \{^d3^1_{001}\|3^2_{1-1-1}\}, \{^d3^1_{001}\|3^2_{111}\}$

$C_9: \{^d1\|1\}$

$C_{10}: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	2	2	0	0	0	0	-1	-1	2	2
GM4	3	-1	-1	1	-1	1	0	0	3	-1
GM5	3	-1	1	-1	1	-1	0	0	3	-1
$\overline{\text{GM6}}$	1	1	-i	-i	i	i	-1	1	-1	-1
$\overline{\text{GM7}}$	1	1	i	i	-i	-i	-1	1	-1	-1
$\overline{\text{GM8}}$	2	2	0	0	0	0	1	-1	-2	-2
$\overline{\text{GM9}}$	3	-1	-i	i	i	-i	0	0	-3	1
$\overline{\text{GM10}}$	3	-1	i	-i	-i	i	0	0	-3	1

$$m_{001} m^{-6^1_{001} - 3^2_{\frac{1}{3}\pi} m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$$

$$C_3: \{2_{100}\| - 4^1_{010}\}, \{2_{100}\| - 4^3_{010}\}, \{2_{\frac{2}{3}\pi}\| - 4^1_{100}\}, \{2_{\frac{2}{3}\pi}\| - 4^3_{100}\}, \{^d 2_{\frac{1}{3}\pi}\| - 4^1_{001}\}, \{^d 2_{\frac{1}{3}\pi}\| - 4^3_{001}\}$$

$$C_4: \{2_{100}\|m_{-101}\}, \{2_{100}\|m_{101}\}, \{2_{\frac{2}{3}\pi}\|m_{01-1}\}, \{2_{\frac{2}{3}\pi}\|m_{011}\}, \{^d 2_{\frac{1}{3}\pi}\|m_{1-10}\}, \{^d 2_{\frac{1}{3}\pi}\|m_{110}\}$$

$$C_5: \{2_{\frac{1}{3}\pi}\| - 4^1_{001}\}, \{2_{\frac{1}{3}\pi}\| - 4^3_{001}\}, \{^d 2_{100}\| - 4^1_{010}\}, \{^d 2_{100}\| - 4^3_{010}\}, \{^d 2_{\frac{2}{3}\pi}\| - 4^1_{100}\}, \{^d 2_{\frac{2}{3}\pi}\| - 4^3_{100}\}$$

$$C_6: \{2_{\frac{1}{3}\pi}\|m_{1-10}\}, \{2_{\frac{1}{3}\pi}\|m_{110}\}, \{^d 2_{100}\|m_{-101}\}, \{^d 2_{100}\|m_{101}\}, \{^d 2_{\frac{2}{3}\pi}\|m_{01-1}\}, \{^d 2_{\frac{2}{3}\pi}\|m_{011}\}$$

$$C_7: \{3^1_{001}\|3^2_{-1-11}\}, \{3^1_{001}\|3^2_{-11-1}\}, \{3^1_{001}\|3^2_{1-1-1}\}, \{3^1_{001}\|3^2_{111}\}, \{^d 3^2_{001}\|3^1_{-1-11}\}, \{^d 3^2_{001}\|3^1_{-11-1}\}, \{^d 3^2_{001}\|3^1_{1-1-1}\}, \{^d 3^2_{001}\|3^1_{111}\}$$

$$C_8: \{3^2_{001}\|3^1_{-1-11}\}, \{3^2_{001}\|3^1_{-11-1}\}, \{3^2_{001}\|3^1_{1-1-1}\}, \{3^2_{001}\|3^1_{111}\}, \{^d 3^1_{001}\|3^2_{-1-11}\}, \{^d 3^1_{001}\|3^2_{-11-1}\}, \{^d 3^1_{001}\|3^2_{1-1-1}\}, \{^d 3^1_{001}\|3^2_{111}\}$$

$$C_9: \{^d 1\|1\}$$

$$C_{10}: \{^d 1\|2_{001}\}, \{^d 1\|2_{010}\}, \{^d 1\|2_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	-1	1	1	1	1
GM3	2	2	0	0	0	0	-1	-1	2	2
GM4	3	-1	-1	1	-1	1	0	0	3	-1
GM5	3	-1	1	-1	1	-1	0	0	3	-1
GM6	1	1	-i	-i	i	i	-1	1	-1	-1
GM7	1	1	i	i	-i	-i	-1	1	-1	-1
GM8	2	2	0	0	0	0	1	-1	-2	-2
GM9	3	-1	-i	i	i	-i	0	0	-3	1
GM10	3	-1	i	-i	-i	i	0	0	-3	1

$$1m^3{}^1{}_{001}-3^2{}_{100}m$$

Classes:

$$C_1: \{1||1\}$$

$$C_2: \{1||-1\}$$

$$C_3: \{1||m_{001}\}, \{1||m_{010}\}, \{1||m_{100}\}$$

$$C_4: \{1||2_{001}\}, \{1||2_{010}\}, \{1||2_{100}\}$$

$$C_5: \{2_{100}||4^1_{001}\}, \{2_{100}||4^3_{001}\}, \{2_{\frac{2}{3}\pi}||4^1_{100}\}, \{2_{\frac{2}{3}\pi}||4^3_{100}\}, \{^d2_{\frac{1}{3}\pi}||4^1_{010}\}, \{^d2_{\frac{1}{3}\pi}||4^3_{010}\}$$

$$C_6: \{2_{100}||m_{1-10}\}, \{2_{100}||m_{110}\}, \{2_{\frac{2}{3}\pi}||m_{01-1}\}, \{2_{\frac{2}{3}\pi}||m_{011}\}, \{^d2_{\frac{1}{3}\pi}||m_{-101}\}, \{^d2_{\frac{1}{3}\pi}||m_{101}\}$$

$$C_7: \{2_{100}||-4^1_{001}\}, \{2_{100}||-4^3_{001}\}, \{2_{\frac{2}{3}\pi}||-4^1_{100}\}, \{2_{\frac{2}{3}\pi}||-4^3_{100}\}, \{^d2_{\frac{1}{3}\pi}||-4^1_{010}\}, \{^d2_{\frac{1}{3}\pi}||-4^3_{010}\}$$

$$C_8: \{2_{100}||2_{1-10}\}, \{2_{100}||2_{110}\}, \{2_{\frac{2}{3}\pi}||2_{01-1}\}, \{2_{\frac{2}{3}\pi}||2_{011}\}, \{^d2_{\frac{1}{3}\pi}||2_{-101}\}, \{^d2_{\frac{1}{3}\pi}||2_{101}\}$$

$$C_9: \{2_{\frac{1}{3}\pi}||4^1_{010}\}, \{2_{\frac{1}{3}\pi}||4^3_{010}\}, \{^d2_{100}||4^1_{001}\}, \{^d2_{100}||4^3_{001}\}, \{^d2_{\frac{2}{3}\pi}||4^1_{100}\}, \{^d2_{\frac{2}{3}\pi}||4^3_{100}\}$$

$$C_{10}: \{2_{\frac{1}{3}\pi}||m_{-101}\}, \{2_{\frac{1}{3}\pi}||m_{101}\}, \{^d2_{100}||m_{1-10}\}, \{^d2_{100}||m_{110}\}, \{^d2_{\frac{2}{3}\pi}||m_{01-1}\}, \{^d2_{\frac{2}{3}\pi}||m_{011}\}$$

$$C_{11}: \{2_{\frac{1}{3}\pi}||-4^1_{010}\}, \{2_{\frac{1}{3}\pi}||-4^3_{010}\}, \{^d2_{100}||-4^1_{001}\}, \{^d2_{100}||-4^3_{001}\}, \{^d2_{\frac{2}{3}\pi}||-4^1_{100}\}, \{^d2_{\frac{2}{3}\pi}||-4^3_{100}\}$$

$$C_{12}: \{2_{\frac{1}{3}\pi}||2_{-101}\}, \{2_{\frac{1}{3}\pi}||2_{101}\}, \{^d2_{100}||2_{1-10}\}, \{^d2_{100}||2_{110}\}, \{^d2_{\frac{2}{3}\pi}||2_{01-1}\}, \{^d2_{\frac{2}{3}\pi}||2_{011}\}$$

$$C_{13}: \{3^1_{001}||3^1_{-1-11}\}, \{3^1_{001}||3^1_{-11-1}\}, \{3^1_{001}||3^1_{1-1-1}\}, \{3^1_{001}||3^1_{111}\}, \{^d3^2_{001}||3^2_{-1-11}\}, \{^d3^2_{001}||3^2_{-11-1}\}, \{^d3^2_{001}||3^2_{1-1-1}\}, \{^d3^2_{001}||3^2_{111}\}$$

$$C_{14}: \{3^1_{001}||-3^1_{-1-11}\}, \{3^1_{001}||-3^1_{-11-1}\}, \{3^1_{001}||-3^1_{1-1-1}\}, \{3^1_{001}||-3^1_{111}\}, \{^d3^2_{001}||-3^2_{-1-11}\}, \{^d3^2_{001}||-3^2_{-11-1}\}, \{^d3^2_{001}||-3^2_{1-1-1}\}, \{^d3^2_{001}||-3^2_{111}\}$$

$$C_{15}: \{3^2_{001}||3^2_{-1-11}\}, \{3^2_{001}||3^2_{-11-1}\}, \{3^2_{001}||3^2_{1-1-1}\}, \{3^2_{001}||3^2_{111}\}, \{^d3^1_{001}||3^1_{-1-11}\}, \{^d3^1_{001}||3^1_{-11-1}\}, \{^d3^1_{001}||3^1_{1-1-1}\}, \{^d3^1_{001}||3^1_{111}\}$$

$$C_{16}: \{3^2_{001}||-3^2_{-1-11}\}, \{3^2_{001}||-3^2_{-11-1}\}, \{3^2_{001}||-3^2_{1-1-1}\}, \{3^2_{001}||-3^2_{111}\}, \{^d3^1_{001}||-3^1_{-1-11}\}, \{^d3^1_{001}||-3^1_{-11-1}\}, \{^d3^1_{001}||-3^1_{1-1-1}\}, \{^d3^1_{001}||-3^1_{111}\}$$

$$C_{17}: \{^d1||1\}$$

$$C_{18}: \{^d1||-1\}$$

$$C_{19}: \{^d1||m_{001}\}, \{^d1||m_{010}\}, \{^d1||m_{100}\}$$

$$C_{20}: \{^d1||2_{001}\}, \{^d1||2_{010}\}, \{^d1||2_{100}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	-1	1
GM3	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1
GM4	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1
GM5	2	-2	-2	2	0	0	0	0	0	0	0	0	-1	1	-1	1	2	-2	-2	2
GM6	2	2	2	2	0	0	0	0	0	0	0	0	-1	-1	-1	-1	2	2	2	2
GM7	3	-3	1	-1	-1	-1	1	1	-1	-1	1	1	0	0	0	0	3	-3	1	-1
GM8	3	-3	1	-1	1	1	-1	-1	1	1	-1	-1	0	0	0	0	3	-3	1	-1
GM9	3	3	-1	-1	-1	1	-1	1	-1	1	-1	1	0	0	0	0	3	3	-1	-1
GM10	3	3	-1	-1	1	-1	1	-1	1	-1	1	-1	0	0	0	0	3	3	-1	-1
GM11	1	-1	-1	1	-i	i	i	-i	i	-i	-i	i	-1	1	1	-1	-1	1	1	-1
GM12	1	-1	-1	1	i	-i	-i	i	-i	i	i	-i	-1	1	1	-1	-1	1	1	-1
GM13	1	1	1	1	-i	-i	-i	-i	i	i	i	i	-1	-1	1	1	-1	-1	-1	-1
GM14	1	1	1	1	i	i	i	i	-i	-i	-i	-i	-1	-1	1	1	-1	-1	-1	-1
GM15	2	-2	-2	2	0	0	0	0	0	0	0	0	1	-1	-1	1	-2	2	2	-2
GM16	2	2	2	2	0	0	0	0	0	0	0	0	1	1	-1	-1	-2	-2	-2	-2
GM17	3	-3	1	-1	-i	-i	i	i	i	i	-i	-i	0	0	0	0	-3	3	-1	1
GM18	3	-3	1	-1	i	i	-i	-i	-i	-i	i	i	0	0	0	0	-3	3	-1	1
GM19	3	3	-1	-1	-i	i	-i	i	i	-i	i	-i	0	0	0	0	-3	-3	1	1
GM20	3	3	-1	-1	i	-i	i	-i	-i	i	-i	i	0	0	0	0	-3	-3	1	1

$1m^3{}^1{}_{001}-3m{}^1{}_{010}m$

Classes:

C₁: {1||1}

C₂: {1||-1}

C₃: {1||m₀₀₁}, {1||m₀₁₀}, {1||m₁₀₀}

C₄: {1||2₀₀₁}, {1||2₀₁₀}, {1||2₁₀₀}

C₅: {3¹₀₀₁||3¹₋₁₋₁₁}, {3¹₀₀₁||3¹₋₁₁₋₁}, {3¹₀₀₁||3¹₁₋₁₋₁}, {3¹₀₀₁||3¹₁₁₁}

C₆: {3¹₀₀₁||-3¹₋₁₋₁₁}, {3¹₀₀₁||-3¹₋₁₁₋₁}, {3¹₀₀₁||-3¹₁₋₁₋₁}, {3¹₀₀₁||-3¹₁₁₁}

C₇: {3²₀₀₁||3²₋₁₋₁₁}, {3²₀₀₁||3²₋₁₁₋₁}, {3²₀₀₁||3²₁₋₁₋₁}, {3²₀₀₁||3²₁₁₁}

C₈: {3²₀₀₁||-3²₋₁₋₁₁}, {3²₀₀₁||-3²₋₁₁₋₁}, {3²₀₀₁||-3²₁₋₁₋₁}, {3²₀₀₁||-3²₁₁₁}

C₉: {d¹||1}

C₁₀: {d¹||-1}

C₁₁: {d¹||m₀₀₁}, {d¹||m₀₁₀}, {d¹||m₁₀₀}

C₁₂: {d¹||2₀₀₁}, {d¹||2₀₁₀}, {d¹||2₁₀₀}

C₁₃: {d³₀₀₁||3¹₋₁₋₁₁}, {d³₀₀₁||3¹₋₁₁₋₁}, {d³₀₀₁||3¹₁₋₁₋₁}, {d³₀₀₁||3¹₁₁₁}

C₁₄: {d³₀₀₁||-3¹₋₁₋₁₁}, {d³₀₀₁||-3¹₋₁₁₋₁}, {d³₀₀₁||-3¹₁₋₁₋₁}, {d³₀₀₁||-3¹₁₁₁}

C₁₅: {d³₀₀₁||3²₋₁₋₁₁}, {d³₀₀₁||3²₋₁₁₋₁}, {d³₀₀₁||3²₁₋₁₋₁}, {d³₀₀₁||3²₁₁₁}

C₁₆: {d³₀₀₁||-3²₋₁₋₁₁}, {d³₀₀₁||-3²₋₁₁₋₁}, {d³₀₀₁||-3²₁₋₁₋₁}, {d³₀₀₁||-3²₁₁₁}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1
GM3	1	-1	-1	1	-ω	ω	-ω*	ω*	1	-1	-1	1	-ω	ω	-ω*	ω*
GM4	1	-1	-1	1	-ω*	ω*	-ω	ω	1	-1	-1	1	-ω*	ω*	-ω	ω
GM5	1	1	1	1	-ω	-ω	-ω*	-ω*	1	1	1	1	-ω	-ω	-ω*	-ω*
GM6	1	1	1	1	-ω*	-ω*	-ω	-ω	1	1	1	1	-ω*	-ω*	-ω	-ω
GM7	3	-3	1	-1	0	0	0	0	3	-3	1	-1	0	0	0	0
GM8	3	3	-1	-1	0	0	0	0	3	3	-1	-1	0	0	0	0
GM9	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1
GM10	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1
GM11	1	-1	-1	1	ω*	-ω*	-ω	ω	-1	1	1	-1	-ω*	ω*	ω	-ω
GM12	1	-1	-1	1	ω	-ω	-ω*	ω*	-1	1	1	-1	-ω	ω	ω*	-ω*
GM13	1	1	1	1	ω*	ω*	-ω	-ω	-1	-1	-1	-1	-ω*	-ω*	ω	ω
GM14	1	1	1	1	ω	ω	-ω*	-ω*	-1	-1	-1	-1	-ω	-ω	ω*	ω*
GM15	3	-3	1	-1	0	0	0	0	-3	3	-1	1	0	0	0	0
GM16	3	3	-1	-1	0	0	0	0	-3	-3	1	1	0	0	0	0

$2_{010}\mathbf{m}2_{010}\text{-}3^2_{100}\mathbf{m}$

Classes:

C_1 : $\{1\|1\}$

C_2 : $\{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

C_3 : $\{1\|3^1_{-1-11}\}, \{1\|3^1_{-11-1}\}, \{1\|3^1_{1-1-1}\}, \{1\|3^1_{111}\}, \{1\|3^2_{-1-11}\}, \{1\|3^2_{-11-1}\}, \{1\|3^2_{1-1-1}\}, \{1\|3^2_{111}\}$

C_4 : $\{2_{001}\|2_{-101}\}, \{2_{001}\|2_{01-1}\}, \{2_{001}\|2_{011}\}, \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{101}\}, \{2_{001}\|2_{110}\}, \{^d2_{001}\|2_{-101}\}, \{^d2_{001}\|2_{01-1}\}, \{^d2_{001}\|2_{011}\}, \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{101}\}, \{^d2_{001}\|2_{110}\}$

C_5 : $\{2_{001}\|4^1_{001}\}, \{2_{001}\|4^1_{010}\}, \{2_{001}\|4^1_{100}\}, \{2_{001}\|4^3_{001}\}, \{2_{001}\|4^3_{010}\}, \{2_{001}\|4^3_{100}\}, \{^d2_{001}\|4^1_{001}\}, \{^d2_{001}\|4^1_{010}\}, \{^d2_{001}\|4^1_{100}\}, \{^d2_{001}\|4^3_{001}\}, \{^d2_{001}\|4^3_{010}\}, \{^d2_{001}\|4^3_{100}\}$

C_6 : $\{2_{010}\| -1\}, \{^d2_{010}\| -1\}$

C_7 : $\{2_{010}\| -3^1_{-1-11}\}, \{2_{010}\| -3^1_{-11-1}\}, \{2_{010}\| -3^1_{1-1-1}\}, \{2_{010}\| -3^1_{111}\}, \{^d2_{010}\| -3^2_{-1-11}\}, \{^d2_{010}\| -3^2_{-11-1}\}, \{^d2_{010}\| -3^2_{1-1-1}\}, \{^d2_{010}\| -3^2_{111}\}$

C_8 : $\{2_{010}\| -3^2_{-1-11}\}, \{2_{010}\| -3^2_{-11-1}\}, \{2_{010}\| -3^2_{1-1-1}\}, \{2_{010}\| -3^2_{111}\}, \{^d2_{010}\| -3^1_{-1-11}\}, \{^d2_{010}\| -3^1_{-11-1}\}, \{^d2_{010}\| -3^1_{1-1-1}\}, \{^d2_{010}\| -3^1_{111}\}$

C_9 : $\{2_{010}\|\mathbf{m}_{001}\}, \{2_{010}\|\mathbf{m}_{010}\}, \{2_{010}\|\mathbf{m}_{100}\}, \{^d2_{010}\|\mathbf{m}_{001}\}, \{^d2_{010}\|\mathbf{m}_{010}\}, \{^d2_{010}\|\mathbf{m}_{100}\}$

C_{10} : $\{2_{100}\| -4^1_{001}\}, \{2_{100}\| -4^1_{010}\}, \{2_{100}\| -4^1_{100}\}, \{2_{100}\| -4^3_{001}\}, \{2_{100}\| -4^3_{010}\}, \{2_{100}\| -4^3_{100}\}, \{^d2_{100}\| -4^1_{001}\}, \{^d2_{100}\| -4^1_{010}\}, \{^d2_{100}\| -4^1_{100}\}, \{^d2_{100}\| -4^3_{001}\}, \{^d2_{100}\| -4^3_{010}\}, \{^d2_{100}\| -4^3_{100}\}$

C_{11} : $\{2_{100}\|\mathbf{m}_{-101}\}, \{2_{100}\|\mathbf{m}_{01-1}\}, \{2_{100}\|\mathbf{m}_{011}\}, \{2_{100}\|\mathbf{m}_{1-10}\}, \{2_{100}\|\mathbf{m}_{101}\}, \{2_{100}\|\mathbf{m}_{110}\}, \{^d2_{100}\|\mathbf{m}_{-101}\}, \{^d2_{100}\|\mathbf{m}_{01-1}\}, \{^d2_{100}\|\mathbf{m}_{011}\}, \{^d2_{100}\|\mathbf{m}_{1-10}\}, \{^d2_{100}\|\mathbf{m}_{101}\}, \{^d2_{100}\|\mathbf{m}_{110}\}$

C_{12} : $\{^d1\|1\}$

C_{13} : $\{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

C_{14} : $\{^d1\|3^1_{-1-11}\}, \{^d1\|3^1_{-11-1}\}, \{^d1\|3^1_{1-1-1}\}, \{^d1\|3^1_{111}\}, \{^d1\|3^2_{-1-11}\}, \{^d1\|3^2_{-11-1}\}, \{^d1\|3^2_{1-1-1}\}, \{^d1\|3^2_{111}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1
GM3	1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	1
GM4	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
GM5	2	2	-1	0	0	-2	1	1	-2	0	0	2	2	-1
GM6	2	2	-1	0	0	2	-1	-1	2	0	0	2	2	-1
GM7	3	-1	0	-1	1	-3	0	0	1	-1	1	3	-1	0
GM8	3	-1	0	-1	1	3	0	0	-1	1	-1	3	-1	0
GM9	3	-1	0	1	-1	-3	0	0	1	1	-1	3	-1	0
GM10	3	-1	0	1	-1	3	0	0	-1	-1	1	3	-1	0
GM11	2	2	2	0	0	0	0	0	0	0	0	-2	-2	-2
GM12	2	2	-1	0	0	0	$\sqrt{3}$	$-\sqrt{3}$	0	0	0	-2	-2	1
GM13	2	2	-1	0	0	0	$-\sqrt{3}$	$\sqrt{3}$	0	0	0	-2	-2	1
GM14	6	-2	0	0	0	0	0	0	0	0	0	-6	2	0

$m_{001}m^{m_{001}-3^{-1}}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

$C_3: \{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}, \{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$

$C_4: \{2_{001}\|2_{-101}\}, \{2_{001}\|2_{01-1}\}, \{2_{001}\|2_{011}\}, \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{101}\}, \{2_{001}\|2_{110}\}$

$C_5: \{2_{001}\|4_{001}^1\}, \{2_{001}\|4_{010}^1\}, \{2_{001}\|4_{100}^1\}, \{2_{001}\|4_{001}^3\}, \{2_{001}\|4_{010}^3\}, \{2_{001}\|4_{100}^3\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

$C_8: \{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}, \{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$

$C_9: \{^d2_{001}\|2_{-101}\}, \{^d2_{001}\|2_{01-1}\}, \{^d2_{001}\|2_{011}\}, \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{101}\}, \{^d2_{001}\|2_{110}\}$

$C_{10}: \{^d2_{001}\|4_{001}^1\}, \{^d2_{001}\|4_{010}^1\}, \{^d2_{001}\|4_{100}^1\}, \{^d2_{001}\|4_{001}^3\}, \{^d2_{001}\|4_{010}^3\}, \{^d2_{001}\|4_{100}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	1	1	1	-1	-1
GM3	2	2	-1	0	0	2	2	-1	0	0
GM4	3	-1	0	-1	1	3	-1	0	-1	1
GM5	3	-1	0	1	-1	3	-1	0	1	-1
<u>GM6GM6</u>	4	4	-2	0	0	-4	-4	2	0	0
<u>GM7GM8</u>	2	2	2	0	0	-2	-2	-2	0	0
<u>GM9GM10</u>	6	-2	0	0	0	-6	2	0	0	0

$$^{-1}\mathbf{m}^{-1}\text{-}3^{2001}\mathbf{m}$$

Classes:

$$C_1: \{1\|1\}$$

$$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$$

$$C_3: \{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}, \{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$$

$$C_4: \{2_{001}\| -4_{001}^1\}, \{2_{001}\| -4_{010}^1\}, \{2_{001}\| -4_{100}^1\}, \{2_{001}\| -4_{001}^3\}, \{2_{001}\| -4_{010}^3\}, \{2_{001}\| -4_{100}^3\}$$

$$C_5: \{2_{001}\|\mathbf{m}_{-101}\}, \{2_{001}\|\mathbf{m}_{01-1}\}, \{2_{001}\|\mathbf{m}_{011}\}, \{2_{001}\|\mathbf{m}_{1-10}\}, \{2_{001}\|\mathbf{m}_{101}\}, \{2_{001}\|\mathbf{m}_{110}\}$$

$$C_6: \{^d1\|1\}$$

$$C_7: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$$

$$C_8: \{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}, \{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$$

$$C_9: \{^d2_{001}\| -4_{001}^1\}, \{^d2_{001}\| -4_{010}^1\}, \{^d2_{001}\| -4_{100}^1\}, \{^d2_{001}\| -4_{001}^3\}, \{^d2_{001}\| -4_{010}^3\}, \{^d2_{001}\| -4_{100}^3\}$$

$$C_{10}: \{^d2_{001}\|\mathbf{m}_{-101}\}, \{^d2_{001}\|\mathbf{m}_{01-1}\}, \{^d2_{001}\|\mathbf{m}_{011}\}, \{^d2_{001}\|\mathbf{m}_{1-10}\}, \{^d2_{001}\|\mathbf{m}_{101}\}, \{^d2_{001}\|\mathbf{m}_{110}\}$$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	1	1	1	-1	-1
GM3	2	2	-1	0	0	2	2	-1	0	0
GM4	3	-1	0	-1	1	3	-1	0	-1	1
GM5	3	-1	0	1	-1	3	-1	0	1	-1
<u>GM6</u>	2	2	-1	0	0	-2	-2	1	0	0
<u>GM7GM8</u>	2	2	2	0	0	-2	-2	-2	0	0
<u>GM9GM10</u>	6	-2	0	0	0	-6	2	0	0	0

$2_{001}\mathbf{m}2_{001}\text{-}3\mathbf{m}_{001}\mathbf{m}$

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}, {1||2₀₁₀}, {1||2₁₀₀}

C₃: {1||3¹₋₁₋₁₁}, {1||3¹₋₁₁₋₁}, {1||3¹₁₋₁₋₁}, {1||3¹₁₁₁}

C₄: {1||3²₋₁₋₁₁}, {1||3²₋₁₁₋₁}, {1||3²₁₋₁₋₁}, {1||3²₁₁₁}

C₅: {2₀₀₁||-1}

C₆: {2₀₀₁||-3¹₋₁₋₁₁}, {2₀₀₁||-3¹₋₁₁₋₁}, {2₀₀₁||-3¹₁₋₁₋₁}, {2₀₀₁||-3¹₁₁₁}

C₇: {2₀₀₁||-3²₋₁₋₁₁}, {2₀₀₁||-3²₋₁₁₋₁}, {2₀₀₁||-3²₁₋₁₋₁}, {2₀₀₁||-3²₁₁₁}

C₈: {2₀₀₁||m₀₀₁}, {2₀₀₁||m₀₁₀}, {2₀₀₁||m₁₀₀}

C₉: {^d1||1}

C₁₀: {^d1||2₀₀₁}, {^d1||2₀₁₀}, {^d1||2₁₀₀}

C₁₁: {^d1||3¹₋₁₋₁₁}, {^d1||3¹₋₁₁₋₁}, {^d1||3¹₁₋₁₋₁}, {^d1||3¹₁₁₁}

C₁₂: {^d1||3²₋₁₋₁₁}, {^d1||3²₋₁₁₋₁}, {^d1||3²₁₋₁₋₁}, {^d1||3²₁₁₁}

C₁₃: {^d2₀₀₁||-1}

C₁₄: {^d2₀₀₁||-3¹₋₁₋₁₁}, {^d2₀₀₁||-3¹₋₁₁₋₁}, {^d2₀₀₁||-3¹₁₋₁₋₁}, {^d2₀₀₁||-3¹₁₁₁}

C₁₅: {^d2₀₀₁||-3²₋₁₋₁₁}, {^d2₀₀₁||-3²₋₁₁₋₁}, {^d2₀₀₁||-3²₁₋₁₋₁}, {^d2₀₀₁||-3²₁₁₁}

C₁₆: {^d2₀₀₁||m₀₀₁}, {^d2₀₀₁||m₀₁₀}, {^d2₀₀₁||m₁₀₀}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM3	1	1	- ω	- ω^*	-1	ω	ω^*	-1	1	1	- ω	- ω^*	-1	ω	ω^*	-1
GM4	1	1	- ω^*	- ω	-1	ω^*	ω	-1	1	1	- ω^*	- ω	-1	ω^*	ω	-1
GM5	1	1	- ω	- ω^*	1	- ω	- ω^*	1	1	1	- ω	- ω^*	1	- ω	- ω^*	1
GM6	1	1	- ω^*	- ω	1	- ω^*	- ω	1	1	1	- ω^*	- ω	1	- ω^*	- ω	1
GM7	3	-1	0	0	-3	0	0	1	3	-1	0	0	-3	0	0	1
GM8	3	-1	0	0	3	0	0	-1	3	-1	0	0	3	0	0	-1
GM9GM10	2	2	2	2	0	0	0	0	-2	-2	-2	-2	0	0	0	0
GM11GM12	2	2	-2 ω	-2 ω^*	0	0	0	0	-2	-2	2 ω	2 ω^*	0	0	0	0
GM13GM14	2	2	-2 ω^*	-2 ω	0	0	0	0	-2	-2	2 ω^*	2 ω	0	0	0	0
GM15GM16	6	-2	0	0	0	0	0	0	-6	2	0	0	0	0	0	0

$-1m^{-1} \cdot 3m001m$

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}, {1||2₀₁₀}, {1||2₁₀₀}

C₃: {1||3¹₋₁₋₁₁}, {1||3¹₋₁₁₋₁}, {1||3¹₁₋₁₋₁}, {1||3¹₁₁₁}, {1||3²₋₁₋₁₁}, {1||3²₋₁₁₋₁}, {1||3²₁₋₁₋₁}, {1||3²₁₁₁}

C₄: {2₀₀₁||2₋₁₀₁}, {2₀₀₁||2₀₁₋₁}, {2₀₀₁||2₀₁₁}, {2₀₀₁||2₁₋₁₀}, {2₀₀₁||2₁₀₁}, {2₀₀₁||2₁₁₀}

C₅: {2₀₀₁||4¹₀₀₁}, {2₀₀₁||4¹₀₁₀}, {2₀₀₁||4¹₁₀₀}, {2₀₀₁||4³₀₀₁}, {2₀₀₁||4³₀₁₀}, {2₀₀₁||4³₁₀₀}

C₆: {^d1||1}

C₇: {^d1||2₀₀₁}, {^d1||2₀₁₀}, {^d1||2₁₀₀}

C₈: {^d1||3¹₋₁₋₁₁}, {^d1||3¹₋₁₁₋₁}, {^d1||3¹₁₋₁₋₁}, {^d1||3¹₁₁₁}, {^d1||3²₋₁₋₁₁}, {^d1||3²₋₁₁₋₁}, {^d1||3²₁₋₁₋₁}, {^d1||3²₁₁₁}

C₉: {^d2₀₀₁||2₋₁₀₁}, {^d2₀₀₁||2₀₁₋₁}, {^d2₀₀₁||2₀₁₁}, {^d2₀₀₁||2₁₋₁₀}, {^d2₀₀₁||2₁₀₁}, {^d2₀₀₁||2₁₁₀}

C₁₀: {^d2₀₀₁||4¹₀₀₁}, {^d2₀₀₁||4¹₀₁₀}, {^d2₀₀₁||4¹₁₀₀}, {^d2₀₀₁||4³₀₀₁}, {^d2₀₀₁||4³₀₁₀}, {^d2₀₀₁||4³₁₀₀}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	1	1	1	-1	-1
GM3	2	2	-1	0	0	2	2	-1	0	0
GM4	3	-1	0	-1	1	3	-1	0	-1	1
GM5	3	-1	0	1	-1	3	-1	0	1	-1
GM6	2	2	-1	0	0	-2	-2	1	0	0
GM7GM8	2	2	2	0	0	-2	-2	-2	0	0
GM9GM10	6	-2	0	0	0	-6	2	0	0	0

$2_{001}\mathbf{m}2_{001}\text{-}3^{-1}\mathbf{m}$

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}, {1||2₀₁₀}, {1||2₁₀₀}

C₃: {1||3¹₋₁₋₁₁}, {1||3¹₋₁₁₋₁}, {1||3¹₁₋₁₋₁}, {1||3¹₁₁₁}

C₄: {1||3²₋₁₋₁₁}, {1||3²₋₁₁₋₁}, {1||3²₁₋₁₋₁}, {1||3²₁₁₁}

C₅: {2₀₀₁||-1}

C₆: {2₀₀₁||-3¹₋₁₋₁₁}, {2₀₀₁||-3¹₋₁₁₋₁}, {2₀₀₁||-3¹₁₋₁₋₁}, {2₀₀₁||-3¹₁₁₁}

C₇: {2₀₀₁||-3²₋₁₋₁₁}, {2₀₀₁||-3²₋₁₁₋₁}, {2₀₀₁||-3²₁₋₁₋₁}, {2₀₀₁||-3²₁₁₁}

C₈: {2₀₀₁||m₀₀₁}, {2₀₀₁||m₀₁₀}, {2₀₀₁||m₁₀₀}

C₉: {^d1||1}

C₁₀: {^d1||2₀₀₁}, {^d1||2₀₁₀}, {^d1||2₁₀₀}

C₁₁: {^d1||3¹₋₁₋₁₁}, {^d1||3¹₋₁₁₋₁}, {^d1||3¹₁₋₁₋₁}, {^d1||3¹₁₁₁}

C₁₂: {^d1||3²₋₁₋₁₁}, {^d1||3²₋₁₁₋₁}, {^d1||3²₁₋₁₋₁}, {^d1||3²₁₁₁}

C₁₃: {^d2₀₀₁||-1}

C₁₄: {^d2₀₀₁||-3¹₋₁₋₁₁}, {^d2₀₀₁||-3¹₋₁₁₋₁}, {^d2₀₀₁||-3¹₁₋₁₋₁}, {^d2₀₀₁||-3¹₁₁₁}

C₁₅: {^d2₀₀₁||-3²₋₁₋₁₁}, {^d2₀₀₁||-3²₋₁₁₋₁}, {^d2₀₀₁||-3²₁₋₁₋₁}, {^d2₀₀₁||-3²₁₁₁}

C₁₆: {^d2₀₀₁||m₀₀₁}, {^d2₀₀₁||m₀₁₀}, {^d2₀₀₁||m₁₀₀}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM3	1	1	- ω	- ω^*	-1	ω	ω^*	-1	1	1	- ω	- ω^*	-1	ω	ω^*	-1
GM4	1	1	- ω^*	- ω	-1	ω^*	ω	-1	1	1	- ω^*	- ω	-1	ω^*	ω	-1
GM5	1	1	- ω	- ω^*	1	- ω	- ω^*	1	1	1	- ω	- ω^*	1	- ω	- ω^*	1
GM6	1	1	- ω^*	- ω	1	- ω^*	- ω	1	1	1	- ω^*	- ω	1	- ω^*	- ω	1
GM7	3	-1	0	0	-3	0	0	1	3	-1	0	0	-3	0	0	1
GM8	3	-1	0	0	3	0	0	-1	3	-1	0	0	3	0	0	-1
GM9GM10	2	2	2	2	0	0	0	0	-2	-2	-2	-2	0	0	0	0
GM11GM12	2	2	-2 ω	-2 ω^*	0	0	0	0	-2	-2	2 ω	2 ω^*	0	0	0	0
GM13GM14	2	2	-2 ω^*	-2 ω	0	0	0	0	-2	-2	2 ω^*	2 ω	0	0	0	0
GM15GM16	6	-2	0	0	0	0	0	0	-6	2	0	0	0	0	0	0

$m_{001}m^{m_{001}}\cdot 3^2m_{001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

$C_3: \{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}, \{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$

$C_4: \{2_{001}\| -4_{001}^1\}, \{2_{001}\| -4_{010}^1\}, \{2_{001}\| -4_{100}^1\}, \{2_{001}\| -4_{001}^3\}, \{2_{001}\| -4_{010}^3\}, \{2_{001}\| -4_{100}^3\}$

$C_5: \{2_{001}\|m_{-101}\}, \{2_{001}\|m_{01-1}\}, \{2_{001}\|m_{011}\}, \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{101}\}, \{2_{001}\|m_{110}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

$C_8: \{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}, \{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$

$C_9: \{^d2_{001}\| -4_{001}^1\}, \{^d2_{001}\| -4_{010}^1\}, \{^d2_{001}\| -4_{100}^1\}, \{^d2_{001}\| -4_{001}^3\}, \{^d2_{001}\| -4_{010}^3\}, \{^d2_{001}\| -4_{100}^3\}$

$C_{10}: \{^d2_{001}\|m_{-101}\}, \{^d2_{001}\|m_{01-1}\}, \{^d2_{001}\|m_{011}\}, \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{101}\}, \{^d2_{001}\|m_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	1	1	1	-1	-1
GM3	2	2	-1	0	0	2	2	-1	0	0
GM4	3	-1	0	-1	1	3	-1	0	-1	1
GM5	3	-1	0	1	-1	3	-1	0	1	-1
<u>GM6GM6</u>	4	4	-2	0	0	-4	-4	2	0	0
<u>GM7GM8</u>	2	2	2	0	0	-2	-2	-2	0	0
<u>GM9GM10</u>	6	-2	0	0	0	-6	2	0	0	0

$m_{010}m_{m010}-3m_{100}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

$C_3: \{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}, \{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$

$C_4: \{2_{001}\|2_{-101}\}, \{2_{001}\|2_{01-1}\}, \{2_{001}\|2_{011}\}, \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{101}\}, \{2_{001}\|2_{110}\}$

$C_5: \{2_{001}\|4_{001}^1\}, \{2_{001}\|4_{010}^1\}, \{2_{001}\|4_{100}^1\}, \{2_{001}\|4_{001}^3\}, \{2_{001}\|4_{010}^3\}, \{2_{001}\|4_{100}^3\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

$C_8: \{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}, \{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$

$C_9: \{^d2_{001}\|2_{-101}\}, \{^d2_{001}\|2_{01-1}\}, \{^d2_{001}\|2_{011}\}, \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{101}\}, \{^d2_{001}\|2_{110}\}$

$C_{10}: \{^d2_{001}\|4_{001}^1\}, \{^d2_{001}\|4_{010}^1\}, \{^d2_{001}\|4_{100}^1\}, \{^d2_{001}\|4_{001}^3\}, \{^d2_{001}\|4_{010}^3\}, \{^d2_{001}\|4_{100}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	1	1	1	-1	-1
GM3	2	2	-1	0	0	2	2	-1	0	0
GM4	3	-1	0	-1	1	3	-1	0	-1	1
GM5	3	-1	0	1	-1	3	-1	0	1	-1
$\overline{\text{GM6}}$	1	1	1	-i	-i	-1	-1	-1	i	i
$\overline{\text{GM7}}$	1	1	1	i	i	-1	-1	-1	-i	-i
$\overline{\text{GM8}}$	2	2	-1	0	0	-2	-2	1	0	0
$\overline{\text{GM9}}$	3	-1	0	-i	i	-3	1	0	i	-i
$\overline{\text{GM10}}$	3	-1	0	i	-i	-3	1	0	-i	i

$m_{100}m^{m_{100}}3^{2_{001}}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

$C_3: \{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}, \{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$

$C_4: \{2_{001}\| -4_{001}^1\}, \{2_{001}\| -4_{010}^1\}, \{2_{001}\| -4_{100}^1\}, \{2_{001}\| -4_{001}^3\}, \{2_{001}\| -4_{010}^3\}, \{2_{001}\| -4_{100}^3\}$

$C_5: \{2_{001}\|m_{-101}\}, \{2_{001}\|m_{01-1}\}, \{2_{001}\|m_{011}\}, \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{101}\}, \{2_{001}\|m_{110}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

$C_8: \{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}, \{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$

$C_9: \{^d2_{001}\| -4_{001}^1\}, \{^d2_{001}\| -4_{010}^1\}, \{^d2_{001}\| -4_{100}^1\}, \{^d2_{001}\| -4_{001}^3\}, \{^d2_{001}\| -4_{010}^3\}, \{^d2_{001}\| -4_{100}^3\}$

$C_{10}: \{^d2_{001}\|m_{-101}\}, \{^d2_{001}\|m_{01-1}\}, \{^d2_{001}\|m_{011}\}, \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{101}\}, \{^d2_{001}\|m_{110}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	1	1	1	-1	-1
GM3	2	2	-1	0	0	2	2	-1	0	0
GM4	3	-1	0	-1	1	3	-1	0	-1	1
GM5	3	-1	0	1	-1	3	-1	0	1	-1
$\overline{\text{GM6}}$	1	1	1	-i	-i	-1	-1	-1	i	i
$\overline{\text{GM7}}$	1	1	1	i	i	-1	-1	-1	-i	-i
$\overline{\text{GM8}}$	2	2	-1	0	0	-2	-2	1	0	0
$\overline{\text{GM9}}$	3	-1	0	-i	i	-3	1	0	i	-i
$\overline{\text{GM10}}$	3	-1	0	i	-i	-3	1	0	-i	i

$2_{001}\mathbf{m}2_{001}\text{-}3_{\mathbf{m}010}\mathbf{m}$

Classes:

C₁: {1||1}

C₂: {1||2₀₀₁}, {1||2₀₁₀}, {1||2₁₀₀}

C₃: {1||3¹₋₁₋₁₁}, {1||3¹₋₁₁₋₁}, {1||3¹₁₋₁₋₁}, {1||3¹₁₁₁}

C₄: {1||3²₋₁₋₁₁}, {1||3²₋₁₁₋₁}, {1||3²₁₋₁₋₁}, {1||3²₁₁₁}

C₅: {2₀₀₁||-1}

C₆: {2₀₀₁||-3¹₋₁₋₁₁}, {2₀₀₁||-3¹₋₁₁₋₁}, {2₀₀₁||-3¹₁₋₁₋₁}, {2₀₀₁||-3¹₁₁₁}

C₇: {2₀₀₁||-3²₋₁₋₁₁}, {2₀₀₁||-3²₋₁₁₋₁}, {2₀₀₁||-3²₁₋₁₋₁}, {2₀₀₁||-3²₁₁₁}

C₈: {2₀₀₁||m₀₀₁}, {2₀₀₁||m₀₁₀}, {2₀₀₁||m₁₀₀}

C₉: {d¹||1}

C₁₀: {d¹||2₀₀₁}, {d¹||2₀₁₀}, {d¹||2₁₀₀}

C₁₁: {d¹||3¹₋₁₋₁₁}, {d¹||3¹₋₁₁₋₁}, {d¹||3¹₁₋₁₋₁}, {d¹||3¹₁₁₁}

C₁₂: {d¹||3²₋₁₋₁₁}, {d¹||3²₋₁₁₋₁}, {d¹||3²₁₋₁₋₁}, {d¹||3²₁₁₁}

C₁₃: {d²₀₀₁||-1}

C₁₄: {d²₀₀₁||-3¹₋₁₋₁₁}, {d²₀₀₁||-3¹₋₁₁₋₁}, {d²₀₀₁||-3¹₁₋₁₋₁}, {d²₀₀₁||-3¹₁₁₁}

C₁₅: {d²₀₀₁||-3²₋₁₋₁₁}, {d²₀₀₁||-3²₋₁₁₋₁}, {d²₀₀₁||-3²₁₋₁₋₁}, {d²₀₀₁||-3²₁₁₁}

C₁₆: {d²₀₀₁||m₀₀₁}, {d²₀₀₁||m₀₁₀}, {d²₀₀₁||m₁₀₀}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
GM3	1	1	-ω	-ω*	-1	ω	ω*	-1	1	1	-ω	-ω*	-1	ω	ω*	-1
GM4	1	1	-ω*	-ω	-1	ω*	ω	-1	1	1	-ω*	-ω	-1	ω*	ω	-1
GM5	1	1	-ω	-ω*	1	-ω	-ω*	1	1	1	-ω	-ω*	1	-ω	-ω*	1
GM6	1	1	-ω*	-ω	1	-ω*	-ω	1	1	1	-ω*	-ω	1	-ω*	-ω	1
GM7	3	-1	0	0	-3	0	0	1	3	-1	0	0	-3	0	0	1
GM8	3	-1	0	0	3	0	0	-1	3	-1	0	0	3	0	0	-1
GM9	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	i	i	i	i
GM10	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-i	-i	-i	-i
GM11	1	1	-ω	-ω*	-i	-τ*	τ	-i	-1	-1	ω	ω*	i	τ*	-τ	i
GM12	1	1	-ω	-ω*	i	τ*	-τ	i	-1	-1	ω	ω*	-i	-τ*	τ	-i
GM13	1	1	-ω*	-ω	-i	τ	-τ*	-i	-1	-1	ω*	ω	i	-τ	τ*	i
GM14	1	1	-ω*	-ω	i	-τ	τ*	i	-1	-1	ω*	ω	-i	τ	-τ*	-i
GM15	3	-1	0	0	3i	0	0	-i	-3	1	0	0	-3i	0	0	i
GM16	3	-1	0	0	-3i	0	0	i	-3	1	0	0	3i	0	0	-i

$1m^1-3^1m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{-1-11}^1\}, \{1||3_{-11-1}^1\}, \{1||3_{1-1-1}^1\}, \{1||3_{111}^1\}$
 $C_3: \{1||3_{-1-11}^2\}, \{1||3_{-11-1}^2\}, \{1||3_{1-1-1}^2\}, \{1||3_{111}^2\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||m_{001}\}, \{1||m_{010}\}, \{1||m_{100}\}$
 $C_6: \{1||-3_{-1-11}^1\}, \{1||-3_{-11-1}^1\}, \{1||-3_{1-1-1}^1\}, \{1||-3_{111}^1\}$
 $C_7: \{1||-3_{-1-11}^2\}, \{1||-3_{-11-1}^2\}, \{1||-3_{1-1-1}^2\}, \{1||-3_{111}^2\}$
 $C_8: \{1||2_{001}\}, \{1||2_{010}\}, \{1||2_{100}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||3_{-1-11}^1\}, \{^d1||3_{-11-1}^1\}, \{^d1||3_{1-1-1}^1\}, \{^d1||3_{111}^1\}$
 $C_{11}: \{^d1||3_{-1-11}^2\}, \{^d1||3_{-11-1}^2\}, \{^d1||3_{1-1-1}^2\}, \{^d1||3_{111}^2\}$
 $C_{12}: \{^d1||-1\}$
 $C_{13}: \{^d1||m_{001}\}, \{^d1||m_{010}\}, \{^d1||m_{100}\}$
 $C_{14}: \{^d1||-3_{-1-11}^1\}, \{^d1||-3_{-11-1}^1\}, \{^d1||-3_{1-1-1}^1\}, \{^d1||-3_{111}^1\}$
 $C_{15}: \{^d1||-3_{-1-11}^2\}, \{^d1||-3_{-11-1}^2\}, \{^d1||-3_{1-1-1}^2\}, \{^d1||-3_{111}^2\}$
 $C_{16}: \{^d1||2_{001}\}, \{^d1||2_{010}\}, \{^d1||2_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1
GM3	1	$-\omega$	$-\omega^*$	-1	-1	ω	ω^*	1	1	$-\omega$	$-\omega^*$	-1	-1	ω	ω^*	1
GM4	1	$-\omega^*$	$-\omega$	-1	-1	ω^*	ω	1	1	$-\omega^*$	$-\omega$	-1	-1	ω^*	ω	1
GM5	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$	1
GM6	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$	1
GM7	3	0	0	-3	1	0	0	-1	3	0	0	-3	1	0	0	-1
GM8	3	0	0	3	-1	0	0	-1	3	0	0	3	-1	0	0	-1
GM9GM9	2	2	2	-2	-2	-2	-2	2	-2	-2	-2	2	2	2	2	-2
GM10GM10	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2
GM11GM11	2	-2ω	$-2\omega^*$	-2	-2	2ω	$2\omega^*$	2	-2	2ω	$2\omega^*$	2	2	-2ω	$-2\omega^*$	-2
GM12GM12	2	$-2\omega^*$	-2ω	-2	-2	$2\omega^*$	2ω	2	-2	$2\omega^*$	2ω	2	2	$-2\omega^*$	-2ω	-2
GM13GM13	2	-2ω	$-2\omega^*$	2	2	-2ω	$-2\omega^*$	2	-2	2ω	$2\omega^*$	-2	-2	2ω	$2\omega^*$	-2
GM14GM14	2	$-2\omega^*$	-2ω	2	2	$-2\omega^*$	-2ω	2	-2	$2\omega^*$	2ω	-2	-2	$2\omega^*$	2ω	-2
GM15GM15	6	0	0	-6	2	0	0	-2	-6	0	0	6	-2	0	0	2
GM16GM16	6	0	0	6	-2	0	0	-2	-6	0	0	-6	2	0	0	2

$1m^1-3^2_{001}m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3^1_{-1-11}\}, \{1\|3^1_{-11-1}\}, \{1\|3^1_{1-1-1}\}, \{1\|3^1_{111}\}, \{1\|3^2_{-1-11}\}, \{1\|3^2_{-11-1}\}, \{1\|3^2_{1-1-1}\}, \{1\|3^2_{111}\}$
 $C_3: \{1\|-1\}$
 $C_4: \{1\|m_{001}\}, \{1\|m_{010}\}, \{1\|m_{100}\}$
 $C_5: \{1\|-3^1_{-1-11}\}, \{1\|-3^1_{-11-1}\}, \{1\|-3^1_{1-1-1}\}, \{1\|-3^1_{111}\}, \{1\|-3^2_{-1-11}\}, \{1\|-3^2_{-11-1}\}, \{1\|-3^2_{1-1-1}\}, \{1\|-3^2_{111}\}$
 $C_6: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$
 $C_7: \{2_{001}\|4^1_{001}\}, \{2_{001}\|4^1_{010}\}, \{2_{001}\|4^1_{100}\}, \{2_{001}\|4^3_{001}\}, \{2_{001}\|4^3_{010}\}, \{2_{001}\|4^3_{100}\}$
 $C_8: \{2_{001}\|m_{-101}\}, \{2_{001}\|m_{01-1}\}, \{2_{001}\|m_{011}\}, \{2_{001}\|m_{1-10}\}, \{2_{001}\|m_{101}\}, \{2_{001}\|m_{110}\}$
 $C_9: \{2_{001}\|-4^1_{001}\}, \{2_{001}\|-4^1_{010}\}, \{2_{001}\|-4^1_{100}\}, \{2_{001}\|-4^3_{001}\}, \{2_{001}\|-4^3_{010}\}, \{2_{001}\|-4^3_{100}\}$
 $C_{10}: \{2_{001}\|2_{-101}\}, \{2_{001}\|2_{01-1}\}, \{2_{001}\|2_{011}\}, \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{101}\}, \{2_{001}\|2_{110}\}$
 $C_{11}: \{^d1\|1\}$
 $C_{12}: \{^d1\|3^1_{-1-11}\}, \{^d1\|3^1_{-11-1}\}, \{^d1\|3^1_{1-1-1}\}, \{^d1\|3^1_{111}\}, \{^d1\|3^2_{-1-11}\}, \{^d1\|3^2_{-11-1}\}, \{^d1\|3^2_{1-1-1}\}, \{^d1\|3^2_{111}\}$
 $C_{13}: \{^d1\|-1\}$
 $C_{14}: \{^d1\|m_{001}\}, \{^d1\|m_{010}\}, \{^d1\|m_{100}\}$
 $C_{15}: \{^d1\|-3^1_{-1-11}\}, \{^d1\|-3^1_{-11-1}\}, \{^d1\|-3^1_{1-1-1}\}, \{^d1\|-3^1_{111}\}, \{^d1\|-3^2_{-1-11}\}, \{^d1\|-3^2_{-11-1}\}, \{^d1\|-3^2_{1-1-1}\}, \{^d1\|-3^2_{111}\}$
 $C_{16}: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$
 $C_{17}: \{^d2_{001}\|4^1_{001}\}, \{^d2_{001}\|4^1_{010}\}, \{^d2_{001}\|4^1_{100}\}, \{^d2_{001}\|4^3_{001}\}, \{^d2_{001}\|4^3_{010}\}, \{^d2_{001}\|4^3_{100}\}$
 $C_{18}: \{^d2_{001}\|m_{-101}\}, \{^d2_{001}\|m_{01-1}\}, \{^d2_{001}\|m_{011}\}, \{^d2_{001}\|m_{1-10}\}, \{^d2_{001}\|m_{101}\}, \{^d2_{001}\|m_{110}\}$
 $C_{19}: \{^d2_{001}\|-4^1_{001}\}, \{^d2_{001}\|-4^1_{010}\}, \{^d2_{001}\|-4^1_{100}\}, \{^d2_{001}\|-4^3_{001}\}, \{^d2_{001}\|-4^3_{010}\}, \{^d2_{001}\|-4^3_{100}\}$
 $C_{20}: \{^d2_{001}\|2_{-101}\}, \{^d2_{001}\|2_{01-1}\}, \{^d2_{001}\|2_{011}\}, \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{101}\}, \{^d2_{001}\|2_{110}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	-1	1	-1	1	1	-1	1	1	-1	-1	-1	1	-1	1	1	-1
GM3	1	1	-1	-1	-1	1	1	-1	-1	1	1	1	-1	-1	-1	1	1	-1	-1	1
GM4	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
GM5	2	-1	-2	-2	1	2	0	0	0	0	2	-1	-2	-2	1	2	0	0	0	0
GM6	2	-1	2	2	-1	2	0	0	0	0	2	-1	2	2	-1	2	0	0	0	0
GM7	3	0	-3	1	0	-1	-1	-1	1	1	3	0	-3	1	0	-1	-1	-1	1	1
GM8	3	0	-3	1	0	-1	1	1	-1	-1	3	0	-3	1	0	-1	1	1	-1	-1
GM9	3	0	3	-1	0	-1	-1	1	-1	1	3	0	3	-1	0	-1	-1	1	-1	1
GM10	3	0	3	-1	0	-1	1	-1	1	-1	3	0	3	-1	0	-1	1	-1	1	-1
GM11	1	1	-1	-1	-1	1	-i	i	i	-i	-1	-1	1	1	1	-1	i	-i	-i	i
GM12	1	1	-1	-1	-1	1	i	-i	-i	i	-1	-1	1	1	1	-1	-i	i	i	-i
GM13	1	1	1	1	1	1	-i	-i	-i	-i	-1	-1	-1	-1	-1	-1	i	i	i	i
GM14	1	1	1	1	1	1	i	i	i	i	-1	-1	-1	-1	-1	-1	-i	-i	-i	-i
GM15	2	-1	-2	-2	1	2	0	0	0	0	-2	1	2	2	-1	-2	0	0	0	0
GM16	2	-1	2	2	-1	2	0	0	0	0	-2	1	-2	-2	1	-2	0	0	0	0
GM17	3	0	-3	1	0	-1	-i	-i	i	i	-3	0	3	-1	0	1	i	i	-i	-i
GM18	3	0	-3	1	0	-1	i	i	-i	-i	-3	0	3	-1	0	1	-i	-i	i	i
GM19	3	0	3	-1	0	-1	-i	i	-i	i	-3	0	-3	1	0	1	i	-i	i	-i
GM20	3	0	3	-1	0	-1	i	-i	i	-i	-3	0	-3	1	0	1	-i	i	-i	i

$^1m^1\text{-}3m^{001}m$

Classes:

- $C_1: \{1||1\}$
 $C_2: \{1||3_{-1-11}^1\}, \{1||3_{-11-1}^1\}, \{1||3_{1-1-1}^1\}, \{1||3_{111}^1\}$
 $C_3: \{1||3_{-1-11}^2\}, \{1||3_{-11-1}^2\}, \{1||3_{1-1-1}^2\}, \{1||3_{111}^2\}$
 $C_4: \{1||-1\}$
 $C_5: \{1||m_{001}\}, \{1||m_{010}\}, \{1||m_{100}\}$
 $C_6: \{1||-3_{-1-11}^1\}, \{1||-3_{-11-1}^1\}, \{1||-3_{1-1-1}^1\}, \{1||-3_{111}^1\}$
 $C_7: \{1||-3_{-1-11}^2\}, \{1||-3_{-11-1}^2\}, \{1||-3_{1-1-1}^2\}, \{1||-3_{111}^2\}$
 $C_8: \{1||2_{001}\}, \{1||2_{010}\}, \{1||2_{100}\}$
 $C_9: \{^d1||1\}$
 $C_{10}: \{^d1||3_{-1-11}^1\}, \{^d1||3_{-11-1}^1\}, \{^d1||3_{1-1-1}^1\}, \{^d1||3_{111}^1\}$
 $C_{11}: \{^d1||3_{-1-11}^2\}, \{^d1||3_{-11-1}^2\}, \{^d1||3_{1-1-1}^2\}, \{^d1||3_{111}^2\}$
 $C_{12}: \{^d1||-1\}$
 $C_{13}: \{^d1||m_{001}\}, \{^d1||m_{010}\}, \{^d1||m_{100}\}$
 $C_{14}: \{^d1||-3_{-1-11}^1\}, \{^d1||-3_{-11-1}^1\}, \{^d1||-3_{1-1-1}^1\}, \{^d1||-3_{111}^1\}$
 $C_{15}: \{^d1||-3_{-1-11}^2\}, \{^d1||-3_{-11-1}^2\}, \{^d1||-3_{1-1-1}^2\}, \{^d1||-3_{111}^2\}$
 $C_{16}: \{^d1||2_{001}\}, \{^d1||2_{010}\}, \{^d1||2_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1
GM3	1	$-\omega$	$-\omega^*$	-1	-1	ω	ω^*	1	1	$-\omega$	$-\omega^*$	-1	-1	ω	ω^*	1
GM4	1	$-\omega^*$	$-\omega$	-1	-1	ω^*	ω	1	1	$-\omega^*$	$-\omega$	-1	-1	ω^*	ω	1
GM5	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$	1
GM6	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$	1
GM7	3	0	0	-3	1	0	0	-1	3	0	0	-3	1	0	0	-1
GM8	3	0	0	3	-1	0	0	-1	3	0	0	3	-1	0	0	-1
GM9	1	1	1	-1	-1	-1	-1	1	-1	-1	-1	1	1	1	1	-1
GM10	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
GM11	1	$-\omega$	$-\omega^*$	-1	-1	ω	ω^*	1	-1	ω	ω^*	1	1	$-\omega$	$-\omega^*$	-1
GM12	1	$-\omega^*$	$-\omega$	-1	-1	ω^*	ω	1	-1	ω^*	ω	1	1	$-\omega^*$	$-\omega$	-1
GM13	1	$-\omega$	$-\omega^*$	1	1	$-\omega$	$-\omega^*$	1	-1	ω	ω^*	-1	-1	ω	ω^*	-1
GM14	1	$-\omega^*$	$-\omega$	1	1	$-\omega^*$	$-\omega$	1	-1	ω^*	ω	-1	-1	ω^*	ω	-1
GM15	3	0	0	-3	1	0	0	-1	-3	0	0	3	-1	0	0	1
GM16	3	0	0	3	-1	0	0	-1	-3	0	0	-3	1	0	0	1

$-1m^{-1}-3^{-1}m$

Classes:

C₁: {1||1}

C₂: {1||2₋₁₀₁}, {1||2₀₁₋₁}, {1||2₀₁₁}, {1||2₁₋₁₀}, {1||2₁₀₁}, {1||2₁₁₀}

C₃: {1||2₀₀₁}, {1||2₀₁₀}, {1||2₁₀₀}

C₄: {1||3₋₁₋₁₁¹}, {1||3₋₁₁₋₁¹}, {1||3₁₋₁₋₁¹}, {1||3₁₁₁¹}, {1||3₋₁₋₁₁²}, {1||3₋₁₁₋₁²}, {1||3₁₋₁₋₁²}, {1||3₁₁₁²}

C₅: {1||4₀₀₁¹}, {1||4₀₁₀¹}, {1||4₁₀₀¹}, {1||4₀₀₁³}, {1||4₀₁₀³}, {1||4₁₀₀³}

C₆: {^d1||1}

C₇: {^d1||2₋₁₀₁}, {^d1||2₀₁₋₁}, {^d1||2₀₁₁}, {^d1||2₁₋₁₀}, {^d1||2₁₀₁}, {^d1||2₁₁₀}

C₈: {^d1||2₀₀₁}, {^d1||2₀₁₀}, {^d1||2₁₀₀}

C₉: {^d1||3₋₁₋₁₁¹}, {^d1||3₋₁₁₋₁¹}, {^d1||3₁₋₁₋₁¹}, {^d1||3₁₁₁¹}, {^d1||3₋₁₋₁₁²}, {^d1||3₋₁₁₋₁²}, {^d1||3₁₋₁₋₁²}, {^d1||3₁₁₁²}

C₁₀: {^d1||4₀₀₁¹}, {^d1||4₀₁₀¹}, {^d1||4₁₀₀¹}, {^d1||4₀₀₁³}, {^d1||4₀₁₀³}, {^d1||4₁₀₀³}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	1	-1	1	1	-1
GM3	2	0	2	-1	0	2	0	2	-1	0
GM4	3	-1	-1	0	1	3	-1	-1	0	1
GM5	3	1	-1	0	-1	3	1	-1	0	-1
<u>GM6GM6</u>	2	-2	2	2	-2	-2	2	-2	-2	2
<u>GM7GM7</u>	2	2	2	2	2	-2	-2	-2	-2	-2
<u>GM8GM8</u>	4	0	4	-2	0	-4	0	-4	2	0
<u>GM9GM9</u>	6	-2	-2	0	2	-6	2	2	0	-2
<u>GM10GM10</u>	6	2	-2	0	-2	-6	-2	2	0	2

$2_{001}\mathbf{m}2_{001}-3_{2001}\mathbf{m}$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|2_{-101}\}, \{1\|2_{01-1}\}, \{1\|2_{011}\}, \{1\|2_{1-10}\}, \{1\|2_{101}\}, \{1\|2_{110}\}$
 $C_3: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$
 $C_4: \{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}, \{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$
 $C_5: \{1\|4_{001}^1\}, \{1\|4_{010}^1\}, \{1\|4_{100}^1\}, \{1\|4_{001}^3\}, \{1\|4_{010}^3\}, \{1\|4_{100}^3\}$
 $C_6: \{2_{001}\| - 1\}$
 $C_7: \{2_{001}\| - 3_{-1-11}^1\}, \{2_{001}\| - 3_{-11-1}^1\}, \{2_{001}\| - 3_{1-1-1}^1\}, \{2_{001}\| - 3_{111}^1\}, \{2_{001}\| - 3_{-1-11}^2\}, \{2_{001}\| - 3_{-11-1}^2\}, \{2_{001}\| - 3_{1-1-1}^2\}, \{2_{001}\| - 3_{111}^2\}$
 $C_8: \{2_{001}\| - 4_{001}^1\}, \{2_{001}\| - 4_{010}^1\}, \{2_{001}\| - 4_{100}^1\}, \{2_{001}\| - 4_{001}^3\}, \{2_{001}\| - 4_{010}^3\}, \{2_{001}\| - 4_{100}^3\}$
 $C_9: \{2_{001}\|\mathbf{m}_{-101}\}, \{2_{001}\|\mathbf{m}_{01-1}\}, \{2_{001}\|\mathbf{m}_{011}\}, \{2_{001}\|\mathbf{m}_{1-10}\}, \{2_{001}\|\mathbf{m}_{101}\}, \{2_{001}\|\mathbf{m}_{110}\}$
 $C_{10}: \{2_{001}\|\mathbf{m}_{001}\}, \{2_{001}\|\mathbf{m}_{010}\}, \{2_{001}\|\mathbf{m}_{100}\}$
 $C_{11}: \{^d1\|1\}$
 $C_{12}: \{^d1\|2_{-101}\}, \{^d1\|2_{01-1}\}, \{^d1\|2_{011}\}, \{^d1\|2_{1-10}\}, \{^d1\|2_{101}\}, \{^d1\|2_{110}\}$
 $C_{13}: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$
 $C_{14}: \{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}, \{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$
 $C_{15}: \{^d1\|4_{001}^1\}, \{^d1\|4_{010}^1\}, \{^d1\|4_{100}^1\}, \{^d1\|4_{001}^3\}, \{^d1\|4_{010}^3\}, \{^d1\|4_{100}^3\}$
 $C_{16}: \{^d2_{001}\| - 1\}$
 $C_{17}: \{^d2_{001}\| - 3_{-1-11}^1\}, \{^d2_{001}\| - 3_{-11-1}^1\}, \{^d2_{001}\| - 3_{1-1-1}^1\}, \{^d2_{001}\| - 3_{111}^1\}, \{^d2_{001}\| - 3_{-1-11}^2\}, \{^d2_{001}\| - 3_{-11-1}^2\}, \{^d2_{001}\| - 3_{1-1-1}^2\}, \{^d2_{001}\| - 3_{111}^2\}$
 $C_{18}: \{^d2_{001}\| - 4_{001}^1\}, \{^d2_{001}\| - 4_{010}^1\}, \{^d2_{001}\| - 4_{100}^1\}, \{^d2_{001}\| - 4_{001}^3\}, \{^d2_{001}\| - 4_{010}^3\}, \{^d2_{001}\| - 4_{100}^3\}$
 $C_{19}: \{^d2_{001}\|\mathbf{m}_{-101}\}, \{^d2_{001}\|\mathbf{m}_{01-1}\}, \{^d2_{001}\|\mathbf{m}_{011}\}, \{^d2_{001}\|\mathbf{m}_{1-10}\}, \{^d2_{001}\|\mathbf{m}_{101}\}, \{^d2_{001}\|\mathbf{m}_{110}\}$
 $C_{20}: \{^d2_{001}\|\mathbf{m}_{001}\}, \{^d2_{001}\|\mathbf{m}_{010}\}, \{^d2_{001}\|\mathbf{m}_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	-1	-1	1	1	-1	1	-1	1	1	-1	-1	-1	1	1	-1
GM3	1	-1	1	1	-1	1	1	-1	-1	1	1	-1	1	1	-1	1	1	-1	-1	1
GM4	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1
GM5	2	0	2	-1	0	2	-1	0	0	2	2	0	2	-1	0	2	-1	0	0	2
GM6	2	0	2	-1	0	-2	1	0	0	-2	2	0	2	-1	0	-2	1	0	0	-2
GM7	3	-1	-1	0	1	-3	0	-1	1	1	3	-1	-1	0	1	-3	0	-1	1	1
GM8	3	-1	-1	0	1	3	0	1	-1	-1	3	-1	-1	0	1	3	0	1	-1	-1
GM9	3	1	-1	0	-1	-3	0	1	-1	1	3	1	-1	0	-1	-3	0	1	-1	1
GM10	3	1	-1	0	-1	3	0	-1	1	-1	3	1	-1	0	-1	3	0	-1	1	-1
GM11	1	-1	1	1	-1	-i	-i	i	i	-i	-1	1	-1	-1	1	i	i	-i	-i	i
GM12	1	-1	1	1	-1	i	i	-i	-i	i	-1	1	-1	-1	1	-i	-i	i	i	-i
GM13	1	1	1	1	1	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	i	i	i	i	i
GM14	1	1	1	1	1	i	i	i	i	i	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i
GM15	2	0	2	-1	0	-2i	i	0	0	-2i	-2	0	-2	1	0	2i	-i	0	0	2i
GM16	2	0	2	-1	0	2i	-i	0	0	2i	-2	0	-2	1	0	-2i	i	0	0	-2i
GM17	3	-1	-1	0	1	-3i	0	-i	i	i	-3	1	1	0	-1	3i	0	i	-i	-i
GM18	3	-1	-1	0	1	3i	0	i	-i	-i	-3	1	1	0	-1	-3i	0	-i	i	i
GM19	3	1	-1	0	-1	-3i	0	i	-i	i	-3	-1	1	0	1	3i	0	-i	i	-i
GM20	3	1	-1	0	-1	3i	0	-i	i	-i	-3	-1	1	0	1	-3i	0	i	-i	i

$m^{001}m^{m001}-3m^{001}m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|2_{-101}\}, \{1\|2_{01-1}\}, \{1\|2_{011}\}, \{1\|2_{1-10}\}, \{1\|2_{101}\}, \{1\|2_{110}\}$

$C_3: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$

$C_4: \{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}, \{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$

$C_5: \{1\|4_{001}^1\}, \{1\|4_{010}^1\}, \{1\|4_{100}^1\}, \{1\|4_{001}^3\}, \{1\|4_{010}^3\}, \{1\|4_{100}^3\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|2_{-101}\}, \{^d1\|2_{01-1}\}, \{^d1\|2_{011}\}, \{^d1\|2_{1-10}\}, \{^d1\|2_{101}\}, \{^d1\|2_{110}\}$

$C_8: \{^d1\|2_{001}\}, \{^d1\|2_{010}\}, \{^d1\|2_{100}\}$

$C_9: \{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^1\}, \{^d1\|3_{-1-11}^2\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^2\}$

$C_{10}: \{^d1\|4_{001}^1\}, \{^d1\|4_{010}^1\}, \{^d1\|4_{100}^1\}, \{^d1\|4_{001}^3\}, \{^d1\|4_{010}^3\}, \{^d1\|4_{100}^3\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	-1	1	1	-1	1	-1	1	1	-1
GM3	2	0	2	-1	0	2	0	2	-1	0
GM4	3	-1	-1	0	1	3	-1	-1	0	1
GM5	3	1	-1	0	-1	3	1	-1	0	-1
<u>GM6</u>	1	-1	1	1	-1	-1	1	-1	-1	1
<u>GM7</u>	1	1	1	1	1	-1	-1	-1	-1	-1
<u>GM8</u>	2	0	2	-1	0	-2	0	-2	1	0
<u>GM9</u>	3	-1	-1	0	1	-3	1	1	0	-1
<u>GM10</u>	3	1	-1	0	-1	-3	-1	1	0	1

$-1m^{-1}-3^1m$

Classes:

C₁: {1||1}

C₂: {1||3¹₋₁₁₋₁}, {1||3²₋₁₋₁₁}, {1||3¹₁₋₁₋₁}, {1||3²₁₁₁}, {1||3¹₋₁₋₁₁}, {1||3²₋₁₁₋₁}, {1||3²₁₋₁₋₁}, {1||3¹₁₁₁}

C₃: {1||2₀₀₁}, {1||2₁₀₀}, {1||2₀₁₀}

C₄: {1||-4³₀₀₁}, {1||-4¹₀₀₁}, {1||-4³₀₁₀}, {1||-4¹₀₁₀}, {1||-4¹₁₀₀}, {1||-4³₁₀₀}

C₅: {1||m₁₋₁₀}, {1||m₁₁₀}, {1||m₁₀₁}, {1||m₋₁₀₁}, {1||m₀₁₋₁}, {1||m₀₁₁}

C₆: {^d1||1}

C₇: {^d1||3¹₋₁₁₋₁}, {^d1||3²₋₁₋₁₁}, {^d1||3¹₁₋₁₋₁}, {^d1||3²₁₁₁}, {^d1||3¹₋₁₋₁₁}, {^d1||3²₋₁₁₋₁}, {^d1||3²₁₋₁₋₁}, {^d1||3¹₁₁₁}

C₈: {^d1||2₀₀₁}, {^d1||2₁₀₀}, {^d1||2₀₁₀}

C₉: {^d1||-4³₀₀₁}, {^d1||-4¹₀₀₁}, {^d1||-4³₀₁₀}, {^d1||-4¹₀₁₀}, {^d1||-4¹₁₀₀}, {^d1||-4³₁₀₀}

C₁₀: {^d1||m₁₋₁₀}, {^d1||m₁₁₀}, {^d1||m₁₀₁}, {^d1||m₋₁₀₁}, {^d1||m₀₁₋₁}, {^d1||m₀₁₁}

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	1	1	1	-1	-1
GM3	2	-1	2	0	0	2	-1	2	0	0
GM4	3	0	-1	-1	1	3	0	-1	-1	1
GM5	3	0	-1	1	-1	3	0	-1	1	-1
GM6GM6	2	2	2	-2	-2	-2	-2	-2	2	2
GM7GM7	2	2	2	2	2	-2	-2	-2	-2	-2
GM8GM8	4	-2	4	0	0	-4	2	-4	0	0
GM9GM9	6	0	-2	-2	2	-6	0	2	2	-2
GM10GM10	6	0	-2	2	-2	-6	0	2	-2	2

$2_{001}\mathbf{m}2_{001}\text{-}3^1\mathbf{m}$

Classes:

- C_1 : $\{1\|1\}$
 C_2 : $\{1\|3^1_{-11-1}\}, \{1\|3^2_{-1-11}\}, \{1\|3^1_{1-1-1}\}, \{1\|3^2_{111}\}, \{1\|3^1_{-1-11}\}, \{1\|3^2_{-11-1}\}, \{1\|3^2_{1-1-1}\}, \{1\|3^1_{111}\}$
 C_3 : $\{1\|2_{001}\}, \{1\|2_{100}\}, \{1\|2_{010}\}$
 C_4 : $\{1\| - 4^3_{001}\}, \{1\| - 4^1_{001}\}, \{1\| - 4^3_{010}\}, \{1\| - 4^1_{010}\}, \{1\| - 4^1_{100}\}, \{1\| - 4^3_{100}\}$
 C_5 : $\{1\|\mathbf{m}_{1-10}\}, \{1\|\mathbf{m}_{110}\}, \{1\|\mathbf{m}_{101}\}, \{1\|\mathbf{m}_{-101}\}, \{1\|\mathbf{m}_{01-1}\}, \{1\|\mathbf{m}_{011}\}$
 C_6 : $\{2_{001}\|4^3_{001}\}, \{2_{001}\|4^3_{010}\}, \{2_{001}\|4^1_{010}\}, \{2_{001}\|4^1_{100}\}, \{2_{001}\|4^3_{100}\}, \{2_{001}\|4^1_{001}\}$
 C_7 : $\{2_{001}\|2_{101}\}, \{2_{001}\|2_{-101}\}, \{2_{001}\|2_{01-1}\}, \{2_{001}\|2_{011}\}, \{2_{001}\|2_{1-10}\}, \{2_{001}\|2_{110}\}$
 C_8 : $\{2_{001}\| - 3^1_{-1-11}\}, \{2_{001}\| - 3^2_{-11-1}\}, \{2_{001}\| - 3^2_{1-1-1}\}, \{2_{001}\| - 3^1_{111}\}, \{2_{001}\| - 3^1_{-11-1}\}, \{2_{001}\| - 3^2_{-1-11}\}, \{2_{001}\| - 3^1_{1-1-1}\}, \{2_{001}\| - 3^2_{111}\}$
 C_9 : $\{2_{001}\|\mathbf{m}_{100}\}, \{2_{001}\|\mathbf{m}_{010}\}, \{2_{001}\|\mathbf{m}_{001}\}$
 C_{10} : $\{2_{001}\| - 1\}$
 C_{11} : $\{^d1\|1\}$
 C_{12} : $\{^d1\|3^1_{-11-1}\}, \{^d1\|3^2_{-1-11}\}, \{^d1\|3^1_{1-1-1}\}, \{^d1\|3^2_{111}\}, \{^d1\|3^1_{-1-11}\}, \{^d1\|3^2_{-11-1}\}, \{^d1\|3^2_{1-1-1}\}, \{^d1\|3^1_{111}\}$
 C_{13} : $\{^d1\|2_{001}\}, \{^d1\|2_{100}\}, \{^d1\|2_{010}\}$
 C_{14} : $\{^d1\| - 4^3_{001}\}, \{^d1\| - 4^1_{001}\}, \{^d1\| - 4^3_{010}\}, \{^d1\| - 4^1_{010}\}, \{^d1\| - 4^1_{100}\}, \{^d1\| - 4^3_{100}\}$
 C_{15} : $\{^d1\|\mathbf{m}_{1-10}\}, \{^d1\|\mathbf{m}_{110}\}, \{^d1\|\mathbf{m}_{101}\}, \{^d1\|\mathbf{m}_{-101}\}, \{^d1\|\mathbf{m}_{01-1}\}, \{^d1\|\mathbf{m}_{011}\}$
 C_{16} : $\{^d2_{001}\|4^3_{001}\}, \{^d2_{001}\|4^3_{010}\}, \{^d2_{001}\|4^1_{010}\}, \{^d2_{001}\|4^1_{100}\}, \{^d2_{001}\|4^3_{100}\}, \{^d2_{001}\|4^1_{001}\}$
 C_{17} : $\{^d2_{001}\|2_{101}\}, \{^d2_{001}\|2_{-101}\}, \{^d2_{001}\|2_{01-1}\}, \{^d2_{001}\|2_{011}\}, \{^d2_{001}\|2_{1-10}\}, \{^d2_{001}\|2_{110}\}$
 C_{18} : $\{^d2_{001}\| - 3^1_{-1-11}\}, \{^d2_{001}\| - 3^2_{-11-1}\}, \{^d2_{001}\| - 3^2_{1-1-1}\}, \{^d2_{001}\| - 3^1_{111}\}, \{^d2_{001}\| - 3^1_{-11-1}\}, \{^d2_{001}\| - 3^2_{-1-11}\}, \{^d2_{001}\| - 3^1_{1-1-1}\}, \{^d2_{001}\| - 3^2_{111}\}$
 C_{19} : $\{^d2_{001}\|\mathbf{m}_{100}\}, \{^d2_{001}\|\mathbf{m}_{010}\}, \{^d2_{001}\|\mathbf{m}_{001}\}$
 C_{20} : $\{^d2_{001}\| - 1\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}	C_{17}	C_{18}	C_{19}	C_{20}
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1
GM3	1	1	1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	-1
GM4	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1
GM5	2	-1	2	0	0	0	0	-1	2	2	2	-1	2	0	0	0	0	-1	2	2
GM6	2	-1	2	0	0	0	0	1	-2	-2	2	-1	2	0	0	0	0	1	-2	-2
GM7	3	0	-1	-1	1	-1	1	0	-1	3	3	0	-1	-1	1	-1	1	0	-1	3
GM8	3	0	-1	-1	1	1	-1	0	1	-3	3	0	-1	-1	1	1	-1	0	1	-3
GM9	3	0	-1	1	-1	-1	1	0	1	-3	3	0	-1	1	-1	-1	1	0	1	-3
GM10	3	0	-1	1	-1	1	-1	0	-1	3	3	0	-1	1	-1	1	-1	0	-1	3
GM11	1	1	1	-1	-1	-i	-i	i	i	i	-1	-1	-1	1	1	i	i	-i	-i	-i
GM12	1	1	1	-1	-1	i	i	-i	-i	-i	-1	-1	-1	1	1	-i	-i	i	i	i
GM13	1	1	1	1	1	-i	-i	-i	-i	-i	-1	-1	-1	-1	-1	i	i	i	i	i
GM14	1	1	1	1	1	i	i	i	i	i	-1	-1	-1	-1	-1	-i	-i	-i	-i	-i
GM15	2	-1	2	0	0	0	0	i	-2i	-2i	-2	1	-2	0	0	0	0	-i	2i	2i
GM16	2	-1	2	0	0	0	0	-i	2i	2i	-2	1	-2	0	0	0	0	i	-2i	-2i
GM17	3	0	-1	-1	1	-i	i	0	-i	3i	-3	0	1	1	-1	i	-i	0	i	-3i
GM18	3	0	-1	-1	1	i	-i	0	i	-3i	-3	0	1	1	-1	-i	i	0	-i	3i
GM19	3	0	-1	1	-1	-i	i	0	i	-3i	-3	0	1	-1	1	i	-i	0	-i	3i
GM20	3	0	-1	1	-1	i	-i	0	-i	3i	-3	0	1	-1	1	-i	i	0	i	-3i

$m_{001}m^{m_{001}}\cdot 3^1m$

Classes:

$C_1: \{1\|1\}$

$C_2: \{1\|3_{-11-1}^1\}, \{1\|3_{-1-11}^2\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^2\}, \{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^1\}$

$C_3: \{1\|2_{001}\}, \{1\|2_{100}\}, \{1\|2_{010}\}$

$C_4: \{1\| -4_{001}^3\}, \{1\| -4_{001}^1\}, \{1\| -4_{010}^3\}, \{1\| -4_{010}^1\}, \{1\| -4_{100}^1\}, \{1\| -4_{100}^3\}$

$C_5: \{1\|m_{1-10}\}, \{1\|m_{110}\}, \{1\|m_{101}\}, \{1\|m_{-101}\}, \{1\|m_{01-1}\}, \{1\|m_{011}\}$

$C_6: \{^d1\|1\}$

$C_7: \{^d1\|3_{-11-1}^1\}, \{^d1\|3_{-1-11}^2\}, \{^d1\|3_{1-1-1}^1\}, \{^d1\|3_{111}^2\}, \{^d1\|3_{-1-11}^1\}, \{^d1\|3_{-11-1}^2\}, \{^d1\|3_{1-1-1}^2\}, \{^d1\|3_{111}^1\}$

$C_8: \{^d1\|2_{001}\}, \{^d1\|2_{100}\}, \{^d1\|2_{010}\}$

$C_9: \{^d1\| -4_{001}^3\}, \{^d1\| -4_{001}^1\}, \{^d1\| -4_{010}^3\}, \{^d1\| -4_{010}^1\}, \{^d1\| -4_{100}^1\}, \{^d1\| -4_{100}^3\}$

$C_{10}: \{^d1\|m_{1-10}\}, \{^d1\|m_{110}\}, \{^d1\|m_{101}\}, \{^d1\|m_{-101}\}, \{^d1\|m_{01-1}\}, \{^d1\|m_{011}\}$

Corep	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8	C_9	C_{10}
GM1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	1	-1	-1	1	1	1	-1	-1
GM3	2	-1	2	0	0	2	-1	2	0	0
GM4	3	0	-1	-1	1	3	0	-1	-1	1
GM5	3	0	-1	1	-1	3	0	-1	1	-1
GM6	1	1	1	-1	-1	-1	-1	-1	1	1
GM7	1	1	1	1	1	-1	-1	-1	-1	-1
GM8	2	-1	2	0	0	-2	1	-2	0	0
GM9	3	0	-1	-1	1	-3	0	1	1	-1
GM10	3	0	-1	1	-1	-3	0	1	-1	1

$1m^1-3^1m$

Classes:

- $C_1: \{1\|1\}$
 $C_2: \{1\|3_{-1-11}^1\}, \{1\|3_{-11-1}^1\}, \{1\|3_{1-1-1}^1\}, \{1\|3_{111}^1\}, \{1\|3_{-1-11}^2\}, \{1\|3_{-11-1}^2\}, \{1\|3_{1-1-1}^2\}, \{1\|3_{111}^2\}$
 $C_3: \{1\|4_{001}^1\}, \{1\|4_{010}^1\}, \{1\|4_{100}^1\}, \{1\|4_{001}^3\}, \{1\|4_{010}^3\}, \{1\|4_{100}^3\}$
 $C_4: \{1\|-1\}$
 $C_5: \{1\|m_{-101}\}, \{1\|m_{01-1}\}, \{1\|m_{011}\}, \{1\|m_{1-10}\}, \{1\|m_{101}\}, \{1\|m_{110}\}$
 $C_6: \{1\|m_{001}\}, \{1\|m_{010}\}, \{1\|m_{100}\}$
 $C_7: \{1\|-3_{-1-11}^1\}, \{1\|-3_{-11-1}^1\}, \{1\|-3_{1-1-1}^1\}, \{1\|-3_{111}^1\}, \{1\|-3_{-1-11}^2\}, \{1\|-3_{-11-1}^2\}, \{1\|-3_{1-1-1}^2\}, \{1\|-3_{111}^2\}$
 $C_8: \{1\|-4_{001}^1\}, \{1\|-4_{010}^1\}, \{1\|-4_{100}^1\}, \{1\|-4_{001}^3\}, \{1\|-4_{010}^3\}, \{1\|-4_{100}^3\}$
 $C_9: \{1\|2_{-101}\}, \{1\|2_{01-1}\}, \{1\|2_{011}\}, \{1\|2_{1-10}\}, \{1\|2_{101}\}, \{1\|2_{110}\}$
 $C_{10}: \{1\|2_{001}\}, \{1\|2_{010}\}, \{1\|2_{100}\}$
 $C_{11}: \{d^1\|1\}$
 $C_{12}: \{d^1\|3_{-1-11}^1\}, \{d^1\|3_{-11-1}^1\}, \{d^1\|3_{1-1-1}^1\}, \{d^1\|3_{111}^1\}, \{d^1\|3_{-1-11}^2\}, \{d^1\|3_{-11-1}^2\}, \{d^1\|3_{1-1-1}^2\}, \{d^1\|3_{111}^2\}$
 $C_{13}: \{d^1\|4_{001}^1\}, \{d^1\|4_{010}^1\}, \{d^1\|4_{100}^1\}, \{d^1\|4_{001}^3\}, \{d^1\|4_{010}^3\}, \{d^1\|4_{100}^3\}$
 $C_{14}: \{d^1\|-1\}$
 $C_{15}: \{d^1\|m_{-101}\}, \{d^1\|m_{01-1}\}, \{d^1\|m_{011}\}, \{d^1\|m_{1-10}\}, \{d^1\|m_{101}\}, \{d^1\|m_{110}\}$
 $C_{16}: \{d^1\|m_{001}\}, \{d^1\|m_{010}\}, \{d^1\|m_{100}\}$
 $C_{17}: \{d^1\|-3_{-1-11}^1\}, \{d^1\|-3_{-11-1}^1\}, \{d^1\|-3_{1-1-1}^1\}, \{d^1\|-3_{111}^1\}, \{d^1\|-3_{-1-11}^2\}, \{d^1\|-3_{-11-1}^2\}, \{d^1\|-3_{1-1-1}^2\}, \{d^1\|-3_{111}^2\}$
 $C_{18}: \{d^1\|-4_{001}^1\}, \{d^1\|-4_{010}^1\}, \{d^1\|-4_{100}^1\}, \{d^1\|-4_{001}^3\}, \{d^1\|-4_{010}^3\}, \{d^1\|-4_{100}^3\}$
 $C_{19}: \{d^1\|2_{-101}\}, \{d^1\|2_{01-1}\}, \{d^1\|2_{011}\}, \{d^1\|2_{1-10}\}, \{d^1\|2_{101}\}, \{d^1\|2_{110}\}$
 $C_{20}: \{d^1\|2_{001}\}, \{d^1\|2_{010}\}, \{d^1\|2_{100}\}$

Corep	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	C ₁₈	C ₁₉	C ₂₀
GM1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GM2	1	1	-1	-1	1	-1	-1	1	-1	1	1	1	-1	-1	1	-1	-1	1	-1	1
GM3	1	1	-1	1	-1	1	1	-1	-1	1	1	1	-1	1	-1	1	1	-1	-1	1
GM4	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1
GM5	2	-1	0	-2	0	-2	1	0	0	2	2	-1	0	-2	0	-2	1	0	0	2
GM6	2	-1	0	2	0	2	-1	0	0	2	2	-1	0	2	0	2	-1	0	0	2
GM7	3	0	-1	-3	-1	1	0	1	1	-1	3	0	-1	-3	-1	1	0	1	1	-1
GM8	3	0	-1	3	1	-1	0	-1	1	-1	3	0	-1	3	1	-1	0	-1	1	-1
GM9	3	0	1	-3	1	1	0	-1	-1	-1	3	0	1	-3	1	1	0	-1	-1	-1
GM10	3	0	1	3	-1	-1	0	1	-1	-1	3	0	1	3	-1	-1	0	1	-1	-1
GM11	1	1	-1	-1	1	-1	-1	1	-1	1	-1	-1	1	1	-1	1	1	-1	1	-1
GM12	1	1	-1	1	-1	1	1	-1	-1	1	-1	-1	1	-1	1	-1	-1	1	1	-1
GM13	1	1	1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	1	1	-1	-1
GM14	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
GM15	2	-1	0	-2	0	-2	1	0	0	2	-2	1	0	2	0	2	-1	0	0	-2
GM16	2	-1	0	2	0	2	-1	0	0	2	-2	1	0	-2	0	-2	1	0	0	-2
GM17	3	0	-1	-3	-1	1	0	1	1	-1	-3	0	1	3	1	-1	0	-1	-1	1
GM18	3	0	-1	3	1	-1	0	-1	1	-1	-3	0	1	-3	-1	1	0	1	-1	1
GM19	3	0	1	-3	1	1	0	-1	-1	-1	-3	0	-1	3	-1	-1	0	1	1	1
GM20	3	0	1	3	-1	-1	0	1	-1	-1	-3	0	-1	-3	1	1	0	-1	1	1