

Mapping table of symmetry-based indicators and topological invariants in magnetic space groups

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For each MSG, we first list the bases of the null space of the mappings, and all the invariant sets with zero indicators can be generated by combining these bases. Then for each nonzero indicator set, we list one possible invariant set. Other possible invariant sets can be generated by adding invariant sets with zero indicators.

2.4		$P\bar{1}$	Classification = $\mathbb{Z}^3 \times \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_{2,2,2,4}$	SI = $z_{2P,1}, z_{2P,2}, z_{2P,3}, z_{4P}$
$\mathbb{Z}_{2,2,2,4}$	weak	i			
0000	(200)	0			
0000	(020)	0			
0000	(002)	0			
0000	(000)	0			
0002	(000)	1			
0010	(001)	0			
0012	(001)	1			
0100	(010)	0			
0102	(010)	1			
0110	(011)	0			
0112	(011)	1			
1000	(100)	0			
1002	(100)	1			
1010	(101)	0			
1012	(101)	1			
1100	(110)	0			
1102	(110)	1			
1110	(111)	0			
1112	(111)	1			
2.7		$P_S\bar{1}$	Classification = \mathbb{Z}_2	$X_{BS} = \mathbb{Z}_2$	SI = z'_{2P}
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	i		
0	(000)	0	0		
1	(000)	1	1		
3.1		$P2$	Classification = \mathbb{Z}	$X_{BS} = \mathbb{Z}_2$	SI = z_{2C}
\mathbb{Z}_2	weak	2^{010}			
0	(020)	0			
1	(010)	0			
3.4		P_a2	Classification = \mathbb{Z}_2	$X_{BS} = \mathbb{Z}_2$	SI = z_{2C}
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	2^{010}		
0	(000)	1	0		
10.42		$P2/m$	Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$	$X_{BS} = \mathbb{Z}_{2,2,2}$	SI = $z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$
$\mathbb{Z}_{2,2,2}$	weak	2^{010}	i	$Cm_{(2)}^{010}$	
000	(020)	0	0	2402	
000	(020)	0	0	0202	
000	(000)	0	0	0022	
000	(000)	0	0	0022	

001	(000)	0	1	001 $\bar{1}$
010	(010)	0	1	0101
011	(010)	0	0	0110
100	(010)	0	0	1 $\bar{2}$ 0 $\bar{1}$
101	(010)	0	1	1 $\bar{2}$ 1 $\bar{2}$
110	(000)	0	1	1100
111	(000)	0	0	1 $\bar{1}$ 1 $\bar{1}$
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10.46 $P2'/m'$ Classification = $\mathbb{Z}^2 \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,2,4}$ SI = $z_{2P,1}, z_{2P,2}, z_{2P,3}, z_{4P}$				
$\mathbb{Z}_{2,2,2,4}$	weak	2^{010}_*	i	
0000	(200)	0	0	
0000	(002)	0	0	
0000	(000)	0	0	
0002	(000)	1	1	
0010	(001)	0	0	
0012	(001)	1	1	
1000	(100)	0	0	
1002	(100)	1	1	
1010	(101)	0	0	
1012	(101)	1	1	
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10.47 P_a2/m Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$				
$\mathbb{Z}_{2,2}$	weak	$\{1 \frac{1}{2}00\}^*$	2^{010}	i $Cm_{(2)}^{010}$
00	(000)	0	0	0 2200
00	(000)	0	0	0 0022
00	(000)	0	0	0 0022
01	(000)	1	0	1 001 $\bar{1}$
10	(000)	1	0	1 1 $\bar{1}$ 00
11	(000)	0	0	0 1 $\bar{1}$ 1 $\bar{1}$
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10.48 P_b2/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = $z_{2m,0}^+$				
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}^*$	2^{010}	i $Cm_{(2)}^{010}$
0	(000)	0	0	0 2200
0	(000)	0	0	0 2200
1	(000)	1	0	1 1 $\bar{1}$ 00
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10.49 P_C2/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = $z_{2m,0}^+$				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	2^{010}	i $Cm_{(2)}^{010}$
0	(000)	0	0	0 2200
0	(000)	0	0	0 2200
1	(000)	1	0	1 1 $\bar{1}$ 00
<hr/>				
11.50 $P2_1/m$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	$2^{010}_{0\frac{1}{2}0}$	i	$Cm_{(2)}^{010}$
0	(000)	0	0	0 2200
0	(020)	1	0	0 2011
0	(000)	0	0	0 2200
1	(000)	0	1	1 1100
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11.54 $P2'_1/m'$ Classification = $\mathbb{Z}^2 \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,4}$ SI = $z_{2P,1}, z_{2P,3}, z_{4P}$				
$\mathbb{Z}_{2,2,4}$	weak	$2^{010}_{0\frac{1}{2}0}_*$	i	
000	(200)	0	0	
000	(002)	0	0	
000	(000)	0	0	
002	(000)	1	1	
010	(001)	0	0	
012	(001)	1	1	
100	(100)	0	0	
102	(100)	1	1	

110	($\bar{1}0\bar{1}$)	0	0
112	($\bar{1}0\bar{1}$)	1	1
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11.55 P_a2_1/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	$2_{0\frac{1}{2}0}^{010}$ i $Cm_{(2)}^{010}$
0	(000)	0	0
0	(000)	0	0
1	(000)	1	0
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11.56 P_b2_1/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}^*$	2^{010*} $i_{0\frac{1}{2}0}^*$ $Cm_{(2)}^{010}$
0	(000)	0	0
0	(000)	0	0
1	(000)	1	1
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11.57 P_C2_1/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{\frac{1}{2}00}^{010*}$ $i_{\frac{1}{2}\frac{1}{2}0}^*$ $Cm_{(2)}^{010}$
0	(000)	0	0
0	(000)	0	0
1	(000)	1	1
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12.58 $C2/m$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$			
$\mathbb{Z}_{2,2}$	weak	2^{010}	i $Cm_{(2)}^{010}$
00	(220)	0	0
00	(000)	0	0
00	(000)	0	0
01	(000)	0	1
10	(110)	0	0
11	(110)	0	1
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12.62 $C2'/m'$ Classification = $\mathbb{Z}^2 \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,4}$ SI = $z_{2P,1}, z_{2P,3}, z_{4P}$			
$\mathbb{Z}_{2,2,4}$	weak	2^{010*}	i
000	(220)	0	0
000	(002)	0	0
000	(000)	0	0
002	(000)	1	1
010	(001)	0	0
012	(001)	1	1
100	(110)	0	0
102	(110)	1	1
110	(111)	0	0
112	(111)	1	1
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12.63 C_c2/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	2^{010} i $Cm_{(2)}^{010}$
0	(000)	0	0
0	(000)	0	0
1	(000)	1	0
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12.64 C_a2/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	2^{010} i $Cm_{(2)}^{010}$
0	(000)	0	0
0	(000)	0	0
1	(000)	1	0
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13.65 $P2/c$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$			
$\mathbb{Z}_{2,2}$	weak	$2_{00\frac{1}{2}}^{010}$	i
00	(020)	0	0
00	(000)	0	0
01	(000)	0	1

10	(010)	0	0
11	(010)	0	1
13.69 $P2'/c'$ Classification = $\mathbb{Z}^2 \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,4}$ SI = $z_{2P,1}, z_{2P,2}, z_{4P}$			
$\mathbb{Z}_{2,2,4}$	weak	$2_{00\frac{1}{2}}^{010}*$	i
000	(200)	0	0
000	(004)	0	0
000	(002)	1	0
002	(002)	0	1
100	(100)	0	0
102	(102)	0	1
13.70 P_a2/c Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}*$	$2_{00\frac{1}{2}}^{010}$ i
0	(000)	0	0
1	(000)	1	0
13.71 P_b2/c Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}*$	$2_{00\frac{1}{2}}^{010}$ i
0	(000)	0	0
1	(000)	1	0
13.72 P_c2/c Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$2_{00\frac{1}{2}}^{010}$ $i_{00\frac{1}{2}}*$
0	(000)	0	0
1	(000)	1	0
13.73 P_A2/c Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$2_{00\frac{1}{2}}^{010}$ $i_{0\frac{1}{2}\frac{1}{2}}*$
0	(000)	0	0
1	(000)	1	0
13.74 P_C2/c Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2_{00\frac{1}{2}}^{010}$ i
0	(000)	0	0
1	(000)	1	0
14.75 $P2_1/c$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	i
0	(000)	0	0
0	(020)	1	0
1	(000)	0	1
14.79 $P2'_1/c'$ Classification = $\mathbb{Z}^2 \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z_{2P,1}, z_{4P}$			
$\mathbb{Z}_{2,4}$	weak	$2_{0\frac{1}{2}\frac{1}{2}}^{010}*$	i
00	(200)	0	0
00	(000)	0	0
00	(002)	1	0
02	(000)	1	1
10	(100)	0	0
12	(100)	1	1
14.80 P_a2_1/c Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$ i
0	(000)	0	0
1	(000)	1	0
14.81 P_b2_1/c Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}*$	$2_{00\frac{1}{2}}^{010}*$ $i_{0\frac{1}{2}0}*$
0	(000)	0	0
1	(000)	1	0

14.82 $P_c 2_1/c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	$i_{00\frac{1}{2}}^*$
0	(000)	0	0	0
1	(000)	1	0	0
14.83 $P_A 2_1/c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}^*$	2^{010}_*	i
0	(000)	0	0	0
1	(000)	1	1	1
14.84 $P_C 2_1/c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}$	$i_{\frac{1}{2}\frac{1}{2}0}^*$
0	(000)	0	0	0
1	(000)	1	1	0
15.85 $C2/c$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$				
$\mathbb{Z}_{2,2}$	weak	$2_{00\frac{1}{2}}^{010}$	i	
00	(220)	0	0	
00	(000)	0	0	
01	(000)	0	1	
10	(110)	0	0	
11	(110)	0	1	
15.89 $C2'/c'$ Classification = $\mathbb{Z}^2 \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z_{2P,1}, z_{4P}$				
$\mathbb{Z}_{2,4}$	weak	$2_{00\frac{1}{2}}^{010}$	i	
00	(224)	0	0	
00	(004)	0	0	
00	(002)	1	0	
02	(002)	0	1	
10	(112)	1	0	
12	(110)	1	1	
15.90 $C_c 2/c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2_{00\frac{1}{2}}^{010}$	$i_{00\frac{1}{2}}^*$
0	(000)	0	0	0
1	(000)	1	0	0
15.91 $C_a 2/c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{00\frac{1}{2}}^{010}$	i
0	(000)	0	0	0
1	(000)	1	0	1
16.3 $P2'2'2$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z_{2C}				
\mathbb{Z}_2	weak	2^{001}	2^{010}_*	2^{100}_*
0	(002)	0	0	0
0	(000)	0	1	1
1	(001)	0	0	0
17.10 $P22'2'_1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z_{2C}				
\mathbb{Z}_2	weak	$2_{00\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{010}$	2^{100}
0	(200)	0	0	0
0	(000)	1	1	0
1	(100)	0	0	0
18.18 $P2'_12'_12$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z_{2C}				
\mathbb{Z}_2	weak	2^{001}	$2_{\frac{1}{2}\frac{1}{2}0}^{010}$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$
0	(002)	0	0	0
0	(000)	0	1	1
1	(001)	0	0	0
21.40 $C2'2'2$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z_{2C}				

\mathbb{Z}_2	weak	2^{001}	2^{010*}	2^{100*}
0	(002)	0	0	0
0	(000)	0	1	1
1	(001)	0	0	0
25.60 $Pm'm'2$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = z_{2C}				
\mathbb{Z}_2	weak	2^{001}	m_{010*}	m_{100*}
0	(002)	0	0	0
1	(001)	0	0	0
27.81 $Pc'c'2$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = z'_{2C}				
\mathbb{Z}_2	weak	2^{001}	$g_{00\frac{1}{2}}^{010*}$	$g_{00\frac{1}{2}}^{100*}$
0	(004)	0	2	2
1	(002)	0	1	1
28.91 $Pm'a'2$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = z_{2C}				
\mathbb{Z}_2	weak	2^{001}	$g_{\frac{1}{2}00}^{010*}$	$g_{\frac{1}{2}00}^{100*}$
0	(002)	0	0	0
1	(001)	0	0	0
30.117 P_bnc2 Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = $z'_{2C,\pi}$				
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}^*$	$2_{0\frac{1}{2}0}^{001*}$	$g_{0\frac{1}{2}\frac{1}{2}}^{010*}$ $g_{00\frac{1}{2}}^{100*}$
0	(000)	1	1	1 0
32.138 $Pb'a'2$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = z_{2C}				
\mathbb{Z}_2	weak	2^{001}	$g_{\frac{1}{2}\frac{1}{2}0}^{010*}$	$g_{\frac{1}{2}\frac{1}{2}0}^{100*}$
0	(002)	0	0	0
1	(001)	0	0	0
34.163 P_Cnn2 Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = $z'_{2C,\pi}$				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	2^{001}	$g_{00\frac{1}{2}}^{010*}$ $g_{00\frac{1}{2}}^{100*}$
0	(000)	1	0	0 0
35.168 $Cm'm'2$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = z_{2C}				
\mathbb{Z}_2	weak	2^{001}	m_{010*}	m_{100*}
0	(002)	0	0	0
1	(001)	0	0	0
37.183 $Cc'c'2$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = z'_{2C}				
\mathbb{Z}_2	weak	2^{001}	$g_{00\frac{1}{2}}^{010*}$	$g_{00\frac{1}{2}}^{100*}$
0	(004)	0	2	2
1	(002)	0	1	1
37.185 $C_{acc}2$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = $z_{2,37.185}$				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	2^{001}	$g_{00\frac{1}{2}}^{010*}$ $g_{00\frac{1}{2}}^{100*}$
0	(000)	1	0	1 1
39.199 $Ab'm'2$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = z'_{2C}				
\mathbb{Z}_2	weak	2^{001}	$g_{00\frac{1}{2}}^{010*}$	$g_{00\frac{1}{2}}^{100*}$
0	(022)	0	2	2
1	(011)	0	1	1
41.215 $Ab'a'2$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = $z_{2,41.215}$				
\mathbb{Z}_2	weak	2^{001}	$g_{\frac{1}{2}0\frac{1}{2}}^{010*}$	$g_{\frac{1}{2}0\frac{1}{2}}^{100*}$
0	(022)	0	2	2
1	(011)	0	1	1
42.222 $Fm'm'2$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = $z_{2,42.222}$				
\mathbb{Z}_2	weak	2^{001}	m_{010*}	m_{100*}
0	(220)	0	0	0
1	(110)	0	0	0
45.238 $Ib'a'2$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = z'_{2C}				

\mathbb{Z}_2	weak	2^{001}	$g_{00\frac{1}{2}}^{010} *$	$g_{00\frac{1}{2}}^{100} *$				
0	(222)	0	2	2				
1	(111)	0	1	1				

47.249 $Pmmm$ Classification = \mathbb{Z}_M^6 $X_{BS} = \mathbb{Z}_{2,2,2,4}$ $SI = z'_{2P,1}, z'_{2P,2}, z'_{2P,3}, z'_{4P}$								
$\mathbb{Z}_{2,2,2,4}$	weak	2^{001}	2^{010}	i	2^{100}	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$
0000	(000)	0	0	0	0	2222	4400	4400
0000	(000)	0	0	0	0	4400	2222	4400
0000	(000)	0	0	0	0	4400	4400	2222
0000	(000)	0	0	0	0	4400	4400	4400
0000	(000)	0	0	0	0	2200	2222	2200
0000	(000)	0	0	0	0	2222	2200	2200
0000	(000)	0	0	0	0	2200	2200	2222
0003	(000)	0	0	1	0	1100	1100	1100
0002	(000)	0	0	0	0	2200	2200	2200
0001	(000)	0	0	1	0	3300	3300	3300
0010	(000)	0	0	0	0	2200	2200	1111
0013	(000)	0	0	1	0	1100	1100	0011
0012	(000)	0	0	0	0	0000	0000	1111
0011	(000)	0	0	1	0	1100	1100	2211
0100	(000)	0	0	0	0	2200	1111	2200
0103	(000)	0	0	1	0	1100	0011	1100
0102	(000)	0	0	0	0	0000	1111	0000
0101	(000)	0	0	1	0	1100	2211	1100
0110	(000)	0	0	0	0	4400	3311	3311
0113	(000)	0	0	1	0	3300	2211	2211
0112	(000)	0	0	0	0	2200	1111	1111
0111	(000)	0	0	1	0	1100	0011	0011
1000	(000)	0	0	0	0	1111	2200	2200
1003	(000)	0	0	1	0	0011	1100	1100
1002	(000)	0	0	0	0	1111	0000	0000
1001	(000)	0	0	1	0	2211	1100	1100
1010	(000)	0	0	0	0	3311	4400	3311
1013	(000)	0	0	1	0	2211	3300	2211
1012	(000)	0	0	0	0	1111	2200	1111
1011	(000)	0	0	1	0	0011	1100	0011
1100	(000)	0	0	0	0	3311	3311	4400
1103	(000)	0	0	1	0	2211	2211	3300
1102	(000)	0	0	0	0	1111	1111	2200
1101	(000)	0	0	1	0	0011	0011	1100
1110	(000)	0	0	0	0	5511	5511	5511
1113	(000)	0	0	1	0	4411	4411	4411
1112	(000)	0	0	0	0	3311	3311	3311
1111	(000)	0	0	1	0	2211	2211	2211

47.252 $Pm'm'm$ Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2,2}$ $SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$						
$\mathbb{Z}_{2,2,2}$	weak	2^{001}	$2^{010} *$	i	$2^{100} *$	$Cm_{(2)}^{001}$
000	(002)	0	0	0	0	2402
000	(002)	0	0	0	0	0202
000	(000)	0	0	0	0	0022
000	(000)	0	0	0	0	0022
001	(000)	0	1	1	1	0011
010	(001)	0	1	1	1	0101
011	(001)	0	0	0	0	0110
100	(001)	0	0	0	0	1201
101	(001)	0	1	1	1	1212

110	(000)	0	1	1	1	1100			
111	(000)	0	0	0	0	1111			
<hr/>									
47.254 $P_a m m m$ Classification = \mathbb{Z}_M^5 $X_{BS} = \mathbb{Z}_{2,2,4}$ SI = $z'_{2P,2}, z'_{2P,3}, z'_{4P}$									
$\mathbb{Z}_{2,2,4}$	weak	$\{1 \frac{1}{2}00\}^*$	2^{001}	2^{010}	i	2^{100}	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$
000	(000)	0	0	0	0	0	4400	2222	4400
000	(000)	0	0	0	0	0	4400	4400	2222
000	(000)	0	0	0	0	0	4400	4400	4400
000	(000)	0	0	0	0	0	2200	2222	2200
000	(000)	0	0	0	0	0	0000	2200	2200
000	(000)	0	0	0	0	0	2200	2200	2222
003	(000)	1	0	0	1	0	1100	1100	1100
002	(000)	0	0	0	0	0	2200	2200	2200
001	(000)	1	0	0	1	0	3300	3300	3300
010	(000)	0	0	0	0	0	2200	2200	1111
013	(000)	1	0	0	1	0	1100	1100	0011
012	(000)	0	0	0	0	0	0000	0000	1111
011	(000)	1	0	0	1	0	1100	1100	2211
100	(000)	0	0	0	0	0	2200	1111	2200
103	(000)	1	0	0	1	0	1100	0011	1100
102	(000)	0	0	0	0	0	0000	1111	0000
101	(000)	1	0	0	1	0	1100	2211	1100
110	(000)	0	0	0	0	0	4400	3311	3311
113	(000)	1	0	0	1	0	3300	2211	2211
112	(000)	0	0	0	0	0	2200	1111	1111
111	(000)	1	0	0	1	0	1100	0011	0011
<hr/>									
47.255 $P_C m m m$ Classification = \mathbb{Z}_M^4 $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z'_{2P,3}, z'_{4P}$									
$\mathbb{Z}_{2,4}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	2^{001}	2^{010}	i	2^{100}	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{100}$
00	(000)	0	0	0	0	0	4400	2222	4400
00	(000)	0	0	0	0	0	4400	4400	4400
00	(000)	0	0	0	0	0	0000	2200	2200
00	(000)	0	0	0	0	0	2200	2222	2200
00	(000)	0	0	0	0	0	2200	2200	0000
03	(000)	1	0	0	1	0	1100	1100	1100
02	(000)	0	0	0	0	0	2200	2200	2200
01	(000)	1	0	0	1	0	3300	3300	3300
10	(000)	0	0	0	0	0	2200	1111	2200
13	(000)	1	0	0	1	0	1100	0011	1100
12	(000)	0	0	0	0	0	0000	1111	0000
11	(000)	1	0	0	1	0	1100	2211	1100
<hr/>									
47.256 $P_I m m m$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}									
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	2^{001}	2^{010}	i	2^{100}	$Cm_{(2)}^{001}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	4400	4400	4400
0	(000)	0	0	0	0	0	0000	2200	2200
0	(000)	0	0	0	0	0	2200	0000	2200
0	(000)	0	0	0	0	0	2200	2200	0000
3	(000)	1	0	0	1	0	1100	1100	1100
2	(000)	0	0	0	0	0	2200	2200	2200
1	(000)	1	0	0	1	0	3300	3300	3300
<hr/>									
48.257 $P n n n$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}$	i	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$				
0	(000)	0	0	0	0				
1	(000)	0	0	1	0				
<hr/>									
48.260 $P n' n' n$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									

\mathbb{Z}_2	weak	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}*$	i	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	
0	(000)	0	0	0	0	
0	(002)	0	1	0	1	
1	(000)	0	1	1	1	
48.262 P_{cnnn} Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}00}^{010}*$	i	$2_{0\frac{1}{2}0}^{100}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	1	1
48.263 P_{Cnnn} Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$
0	(000)	0	0	0	0	0
1	(000)	1	0	0	0	0
48.264 P_{Innn} Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$
0	(000)	0	0	0	0	0
1	(000)	1	0	0	0	0
49.265 P_{ccm} Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	2^{001}	$2_{00\frac{1}{2}}^{010}$	i	$2_{00\frac{1}{2}}^{100}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	$2\bar{2}00$
0	(000)	0	0	0	0	$2\bar{2}00$
1	(000)	0	0	1	0	$1\bar{1}00$
49.269 $Pc'c'm$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$						
$\mathbb{Z}_{2,2}$	weak	2^{001}	$2_{00\frac{1}{2}}^{010}*$	i	$2_{00\frac{1}{2}}^{100}*$	$Cm_{(2)}^{001}$
00	(000)	0	0	0	0	$2\bar{2}00$
00	(004)	0	0	0	0	4022
00	(000)	0	0	0	0	$2\bar{2}00$
01	(002)	0	0	1	0	2011
10	(000)	0	1	1	1	$1\bar{1}00$
11	(002)	0	1	0	1	$3\bar{1}11$
49.270 $Pc'cm'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$						
$\mathbb{Z}_{2,2}$	weak	$2^{001}*$	$2_{00\frac{1}{2}}^{010}$	i	$2_{00\frac{1}{2}}^{100}*$	
00	(020)	0	0	0	0	
00	(000)	0	0	0	0	
01	(000)	1	0	1	1	
10	(010)	0	0	0	0	
11	(010)	1	0	1	1	
49.272 P_{accm} Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}*$	2^{001}	$2_{00\frac{1}{2}}^{010}$	i	$2_{00\frac{1}{2}}^{100}$
0	(000)	0	0	0	0	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	$2\bar{2}00$
1	(000)	1	0	0	1	$1\bar{1}00$
49.273 P_{cccm} Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	2^{001}	$2^{010}*$	i	$2^{100}*$
0	(000)	0	0	0	0	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	$2\bar{2}00$
1	(000)	1	0	1	1	$1\bar{1}00$
49.274 P_Bccm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$2_{\frac{1}{2}00}^{010}*$	$2_{\frac{1}{2}00}^{100}*$	i	2^{001}
0	(000)	0	0	0	0	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	$2\bar{2}00$
1	(000)	1	1	1	1	$1\bar{1}00$

49.275 P_Cccm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	2^{001}	$2^{010}_{00\frac{1}{2}}$	i	$2^{100}_{00\frac{1}{2}}$	$Cm^{001}_{(2)}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	0	0	1	0	1100
49.276 P_Iccm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	2^{001}	$2^{010}_{00\frac{1}{2}}$	i	$2^{100}_{00\frac{1}{2}}$	$Cm^{001}_{(2)}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	0	0	1	0	1100
50.277 $Pban$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}$	i	$2^{100}_{0\frac{1}{2}0}$		
0	(000)	0	0	0	0		
1	(000)	0	0	1	0		
50.281 $Pb'a'n$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,3}, z'_{2P}$							
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}^*$	i	$2^{100}_{0\frac{1}{2}0}^*$		
00	(002)	0	0	0	0		
00	(000)	0	0	0	0		
01	(000)	0	1	1	1		
10	(001)	0	0	0	0		
11	(001)	0	1	1	1		
50.282 $Pb'an'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}^*$	$2^{010}_{\frac{1}{2}00}$	i	$2^{100}_{0\frac{1}{2}0}^*$		
0	(000)	0	0	0	0		
0	(020)	1	0	0	1		
1	(000)	1	0	1	1		
50.284 P_aban Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	$2^{010}_{\frac{1}{2}00}$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$i_{\frac{1}{2}00}^*$	$2^{100}_{0\frac{1}{2}0}$	
0	(000)	0	0	0	0	0	
1	(000)	1	0	0	0	0	
50.285 P_cban Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}$	i	$2^{100}_{0\frac{1}{2}0}$	
0	(000)	0	0	0	0	0	
1	(000)	1	0	0	1	0	
50.286 P_Aban Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}^*$	$2^{100}_{0\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}$	i	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	
0	(000)	0	0	0	0	0	
1	(000)	1	0	0	1	0	
50.287 P_Cban Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}$	$i_{\frac{1}{2}\frac{1}{2}0}^*$	$2^{100}_{0\frac{1}{2}0}$	
0	(000)	0	0	0	0	0	
1	(000)	1	0	0	0	0	
50.288 P_Iban Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$2^{100}_{0\frac{1}{2}0}$	
0	(000)	0	0	0	0	0	
1	(000)	1	0	0	0	0	
51.289 $Pmma$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$							
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{\frac{1}{2}00}$	2^{010}	i	$2^{100}_{\frac{1}{2}00}$	$Cm^{100}_{(2)}$	$Cm^{010}_{(2)}$
00	(000)	0	0	0	0	2200	2200
00	(000)	0	0	0	0	2200	0022

00	(000)	0	0	0	0	2 $\bar{2}$ 00	0000
00	(000)	0	0	0	0	0000	00 $\bar{2}\bar{2}$
01	(000)	0	0	1	0	$\bar{1}$ 100	001 $\bar{1}$
10	(000)	0	0	1	0	$\bar{1}$ 100	$\bar{1}$ 100
11	(000)	0	0	0	0	0000	11 $\bar{1}\bar{1}$
51.294 $Pm'm'a$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,3}, z'_{2P}$							
$\mathbb{Z}_{2,2}$	weak	$2_{\frac{1}{2}00}^{001}$	2^{010} *	i	$2_{\frac{1}{2}00}^{100}$ *		
00	(002)	0	0	0	0		
00	(000)	0	0	0	0		
01	(000)	0	1	1	1		
10	(001)	0	0	0	0		
11	(001)	0	1	1	1		
51.295 $Pmm'a'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$2_{\frac{1}{2}00}^{001}$ *	2^{010} *	i	$2_{\frac{1}{2}00}^{100}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	2 $\bar{2}$ 00	
0	(200)	1	0	0	1	2011	
0	(000)	0	0	0	0	2 $\bar{2}$ 00	
1	(000)	1	1	1	0	$\bar{1}$ 100	
51.296 $Pm'ma'$ Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2,2}$ SI = $z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$							
$\mathbb{Z}_{2,2,2}$	weak	$2_{\frac{1}{2}00}^{001}$ *	2^{010}	i	$2_{\frac{1}{2}00}^{100}$ *	$Cm_{(2)}^{010}$	
000	(0 $\bar{2}$ 0)	0	0	0	0	240 $\bar{2}$	
000	(020)	0	0	0	0	020 $\bar{2}$	
000	(000)	0	0	0	0	00 $\bar{2}\bar{2}$	
000	(000)	0	0	0	0	00 $\bar{2}\bar{2}$	
001	(000)	1	0	1	1	001 $\bar{1}$	
010	(010)	1	0	1	1	010 $\bar{1}$	
011	(010)	0	0	0	0	0110	
100	(0 $\bar{1}$ 0)	0	0	0	0	120 $\bar{1}$	
101	(0 $\bar{1}$ 0)	1	0	1	1	1 $\bar{2}$ 1 $\bar{2}$	
110	(000)	1	0	1	1	$\bar{1}$ 100	
111	(000)	0	0	0	0	$\bar{1}\bar{1}\bar{1}\bar{1}$	
51.298 $P_a m m a$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$							
$\mathbb{Z}_{2,2}$	weak	$\{1 0\frac{1}{2}0\}$ *	$2_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}00}^{010}$ *	$i_{\frac{1}{2}00}$ *	2^{100} *	$Cm_{(2)}^{100}$ $Cm_{(2)}^{010}$
00	(000)	0	0	0	0	0	2200 2200
00	(000)	0	0	0	0	0	2200 00 $\bar{2}\bar{2}$
00	(000)	0	0	0	0	0	2200 0000
00	(000)	0	0	0	0	0	0000 00 $\bar{2}\bar{2}$
01	(000)	1	0	1	0	1	$\bar{1}$ 100 001 $\bar{1}$
10	(000)	1	0	1	0	1	$\bar{1}$ 100 $\bar{1}$ 100
11	(000)	0	0	0	0	0	0000 11 $\bar{1}\bar{1}$
51.299 $P_b m m a$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = $z_{2m,0}^+$							
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}$ *	$2_{\frac{1}{2}00}^{001}$	2^{010}	i	$2_{\frac{1}{2}00}^{100}$	$Cm_{(2)}^{100}$ $Cm_{(2)}^{010}$
0	(000)	0	0	0	0	0	2200 2200
0	(000)	0	0	0	0	0	2200 0000
0	(000)	0	0	0	0	0	0000 2200
1	(000)	1	0	0	1	0	$\bar{1}$ 100 $\bar{1}$ 100
51.300 $P_c m m a$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$							
$\mathbb{Z}_{2,2}$	weak	$\{1 00\frac{1}{2}\}$ *	$2_{\frac{1}{2}00}^{001}$	2^{010}	i	$2_{\frac{1}{2}00}^{100}$	$Cm_{(2)}^{100}$ $Cm_{(2)}^{010}$
00	(000)	0	0	0	0	0	2200 2200
00	(000)	0	0	0	0	0	2200 00 $\bar{2}\bar{2}$
00	(000)	0	0	0	0	0	2200 0000
00	(000)	0	0	0	0	0	0000 00 $\bar{2}\bar{2}$

01	(000)	1	0	0	1	0	$\bar{1}100$	$001\bar{1}$
10	(000)	1	0	0	1	0	$\bar{1}100$	$\bar{1}\bar{1}00$
11	(000)	0	0	0	0	0	0000	$\bar{1}\bar{1}\bar{1}\bar{1}$
51.301 $P_A mma$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = $z_{2m,0}^+$								
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}^*$	$2_{\frac{1}{2}00}^{100}$	$2_{\frac{1}{2}00}^{001}$	i	2^{010}	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$
0	(000)	0	0	0	0	0	2200	2200
0	(000)	0	0	0	0	0	2200	0000
0	(000)	0	0	0	0	0	0000	2200
1	(000)	1	0	0	1	0	$\bar{1}100$	$\bar{1}\bar{1}00$
51.302 $P_B mma$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$								
$\mathbb{Z}_{2,2}$	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}^*$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}*$	$2_{00\frac{1}{2}}^{100}*$	$i\frac{1}{2}0\frac{1}{2}*$	$2_{\frac{1}{2}00}^{001}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{010}$
00	(000)	0	0	0	0	0	2200	2200
00	(000)	0	0	0	0	0	2200	0022
00	(000)	0	0	0	0	0	2200	0000
00	(000)	0	0	0	0	0	0000	0022
01	(000)	1	1	1	0	0	$\bar{1}100$	$001\bar{1}$
10	(000)	1	1	1	0	0	$\bar{1}100$	$\bar{1}\bar{1}00$
11	(000)	0	0	0	0	0	0000	$\bar{1}\bar{1}\bar{1}\bar{1}$
51.303 $P_C mma$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = $z_{2m,0}^+$								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}^*$	$2_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}\frac{1}{2}0}^{010}*$	$i\frac{1}{2}\frac{1}{2}0*$	$2_{0\frac{1}{2}0}^{100}*$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200	2200
0	(000)	0	0	0	0	0	2200	0000
0	(000)	0	0	0	0	0	0000	2200
1	(000)	1	0	1	0	1	$\bar{1}100$	$\bar{1}\bar{1}00$
51.304 $P_I mma$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = $z_{2m,0}^+$								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}00}^{100}$	i	2^{010}	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$
0	(000)	0	0	0	0	0	2200	2200
0	(000)	0	0	0	0	0	2200	0000
0	(000)	0	0	0	0	0	0000	2200
1	(000)	1	0	0	1	0	$\bar{1}100$	$\bar{1}\bar{1}00$
52.305 $Pnna$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$2_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010}$	i	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$			
0	(000)	0	0	0	0			
1	(000)	0	0	1	0			
52.310 $Pn'n'a$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$2_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010}*$	i	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$			
0	(000)	0	0	0	0			
0	(002)	0	1	0	1			
1	(000)	0	1	1	1			
52.311 $Pnn'a'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$2_{\frac{1}{2}00}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010}*$	i	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$			
0	(000)	0	0	0	0			
0	(200)	1	1	0	0			
1	(000)	1	1	1	0			
52.312 $Pn'na'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$2_{\frac{1}{2}00}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010}$	i	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$			
0	(000)	0	0	0	0			
0	(020)	0	1	0	1			
1	(000)	1	0	1	1			
52.314 $P_a nna$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	i	$2^{001}*$		

0	(000)	0	0	0	0	0
1	(000)	1	1	0	1	1
52.315 $P_b nna$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}^*$	$2^{\frac{010}{\frac{1}{2}0\frac{1}{2}}}$ *	$2^{\frac{001}{\frac{1}{2}\frac{1}{2}0}}^*$	$i_{0\frac{1}{2}0}^*$	$2^{\frac{100}{0\frac{1}{2}\frac{1}{2}}}$
0	(000)	0	0	0	0	0
1	(000)	1	1	1	0	0
52.316 $P_c nna$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2^{\frac{100}{0\frac{1}{2}0}}^*$	$2^{\frac{001}{\frac{1}{2}00}}^*$	i	$2^{\frac{010}{\frac{1}{2}\frac{1}{2}0}}^*$
0	(000)	0	0	0	0	0
1	(000)	1	1	0	1	1
52.317 $P_A nna$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}^*$	2^{100} *	$2^{\frac{010}{\frac{1}{2}00}}^*$	i	$2^{\frac{001}{\frac{1}{2}00}}^*$
0	(000)	0	0	0	0	0
1	(000)	1	1	1	1	0
52.318 $P_B nna$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}^*$	$2^{\frac{010}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$ *	$2^{\frac{100}{0\frac{1}{2}\frac{1}{2}}}$ *	$i_{\frac{1}{2}0\frac{1}{2}}^*$	$2^{\frac{001}{\frac{1}{2}00}}^*$
0	(000)	0	0	0	0	0
1	(000)	1	0	0	0	0
52.319 $P_C nna$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2^{\frac{001}{0\frac{1}{2}0}}^*$	$2^{\frac{010}{00\frac{1}{2}}}^*$	i	$2^{\frac{100}{0\frac{1}{2}\frac{1}{2}}}$ *
0	(000)	0	0	0	0	0
1	(000)	1	1	1	1	0
52.320 $P_I nna$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2^{\frac{001}{\frac{1}{2}00}}^*$	$2^{\frac{100}{\frac{1}{2}00}}^*$	i	2^{010} *
0	(000)	0	0	0	0	0
1	(000)	1	0	1	1	1
53.321 $Pmna$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$2^{\frac{001}{\frac{1}{2}0\frac{1}{2}}}$ *	$2^{\frac{010}{\frac{1}{2}0\frac{1}{2}}}$ *	i	2^{100}	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	2200
0	(000)	0	0	0	0	2200
1	(000)	0	0	1	0	1100
53.326 $Pm'n'a$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$2^{\frac{001}{\frac{1}{2}0\frac{1}{2}}}$ *	$2^{\frac{010}{\frac{1}{2}0\frac{1}{2}}}$ *	i	2^{100} *	
0	(000)	0	0	0	0	
0	(002)	1	1	0	0	
1	(000)	0	1	1	1	
53.327 $Pmn'a'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$						
$\mathbb{Z}_{2,2}$	weak	$2^{\frac{001}{\frac{1}{2}0\frac{1}{2}}}$ *	$2^{\frac{010}{\frac{1}{2}0\frac{1}{2}}}$ *	i	2^{100}	$Cm_{(2)}^{100}$
00	(000)	0	0	0	0	2200
00	(400)	0	0	0	0	4022
00	(000)	0	0	0	0	2200
01	(200)	0	0	1	0	2011
10	(000)	1	1	1	0	1100
11	(200)	1	1	0	0	3111
53.328 $Pm'na'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$						
$\mathbb{Z}_{2,2}$	weak	$2^{\frac{001}{\frac{1}{2}0\frac{1}{2}}}$ *	$2^{\frac{010}{\frac{1}{2}0\frac{1}{2}}}$ *	i	2^{100} *	
00	(020)	0	0	0	0	
00	(000)	0	0	0	0	
01	(000)	1	0	1	1	
10	(010)	0	0	0	0	
11	(010)	1	0	1	1	

53.330 $P_a mna$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	$2_{00\frac{1}{2}}^{010}*$	2^{100}	i	$2_{00\frac{1}{2}}^{001}*$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	0	1	1	1100
53.331 $P_b mna$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}^*$	$2_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}$	i	2^{100}	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	0	0	1	0	1100
53.332 $P_c mna$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	2^{100}	$2_{\frac{1}{2}00}^{010}*$	i	$2_{\frac{1}{2}00}^{001}*$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	0	1	1	1	1100
53.333 $P_A mna$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}*$	$i_{0\frac{1}{2}\frac{1}{2}}*$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	1	0	0	1100
53.334 $P_B mna$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}^*$	$2^{010}*$	$2^{001}*$	i	2^{100}	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	1	1	0	1100
53.335 $P_C mna$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}*$	i	2^{100}	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	1	1	0	1100
53.336 $P_I mna$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2_{0\frac{1}{2}0}^{001}*$	$2_{0\frac{1}{2}0}^{010}*$	i	2^{100}	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	1	1	0	1100
54.337 $Pcca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$2_{\frac{1}{2}00}^{001}$	$2_{00\frac{1}{2}}^{010}$	i	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$		
0	(000)	0	0	0	0		
1	(000)	0	0	1	0		
54.342 $Pc'c'a$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = z'_{2C}, z'_{2P}							
$\mathbb{Z}_{2,2}$	weak	$2_{\frac{1}{2}00}^{001}$	$2_{00\frac{1}{2}}^{010}*$	i	$2_{\frac{1}{2}0\frac{1}{2}}^{100}*$		
00	(004)	0	0	0	0		
00	(000)	0	0	0	0		
01	(000)	0	1	1	1		
10	(002)	0	1	0	1		
11	(002)	0	0	1	0		
54.343 $Pcc'a'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$2_{\frac{1}{2}00}^{001}*$	$2_{00\frac{1}{2}}^{010}*$	i	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$		
0	(000)	0	0	0	0		
0	(200)	1	0	0	1		
1	(000)	1	1	1	0		

54.344 $Pc'ca'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$						
$\mathbb{Z}_{2,2}$	weak	$2_{\frac{1}{2}00}^{001}*$	$2_{00\frac{1}{2}}^{010}$	i	$2_{\frac{1}{2}0\frac{1}{2}}^{100}*$	
00	(020)	0	0	0	0	
00	(000)	0	0	0	0	
01	(000)	1	0	1	1	
10	(010)	0	0	0	0	
11	(010)	1	0	1	1	
54.346 $P_a cca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}*$	$2_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}*$	$i_{\frac{1}{2}00}*$	$2_{00\frac{1}{2}}^{100}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	0	1
54.347 $P_b cca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}*$	$2_{\frac{1}{2}00}^{001}$	$2_{00\frac{1}{2}}^{010}$	i	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$
0	(000)	0	0	0	0	0
1	(000)	1	0	0	1	0
54.348 $P_c cca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$2_{\frac{1}{2}00}^{001}$	$2^{010}*$	i	$2_{\frac{1}{2}00}^{100}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	1	1
54.349 $P_A cca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}*$	$i_{0\frac{1}{2}\frac{1}{2}}*$	$2_{00\frac{1}{2}}^{010}$
0	(000)	0	0	0	0	0
1	(000)	1	1	1	0	0
54.350 $P_B cca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$2_{00\frac{1}{2}}^{010}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$	$i_{\frac{1}{2}0\frac{1}{2}}*$	$2_{\frac{1}{2}00}^{001}$
0	(000)	0	0	0	0	0
1	(000)	1	0	0	0	0
54.351 $P_C cca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2_{0\frac{1}{2}0}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2_{00\frac{1}{2}}^{010}$
0	(000)	0	0	0	0	0
1	(000)	1	1	1	0	0
54.352 $P_I cca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2_{00\frac{1}{2}}^{010}$	$2_{\frac{1}{2}00}^{001}$	i	$2_{0\frac{1}{2}0}^{100}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	0	1	1
55.353 $Pb\bar{a}m$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$						
$\mathbb{Z}_{2,2}$	weak	2^{001}	$2_{\frac{1}{2}\frac{1}{2}0}^{010}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	$Cm_{(2)}^{001}$
00	(000)	0	0	0	0	$2\bar{2}00$
00	(000)	0	0	0	0	$00\bar{2}\bar{2}$
00	(000)	0	0	0	0	$00\bar{2}\bar{2}$
01	(000)	0	0	1	0	$001\bar{1}$
10	(000)	0	0	1	0	$\bar{1}100$
11	(000)	0	0	0	0	$1\bar{1}1\bar{1}$
55.357 $Pb'a'm$ Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2,2}$ SI = $z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$						
$\mathbb{Z}_{2,2,2}$	weak	2^{001}	$2_{\frac{1}{2}\frac{1}{2}0}^{010}*$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{100}*$	$Cm_{(2)}^{001}$
000	(002)	0	0	0	0	$240\bar{2}$
000	(002)	0	0	0	0	$020\bar{2}$
000	(000)	0	0	0	0	$00\bar{2}\bar{2}$
000	(000)	0	0	0	0	$00\bar{2}\bar{2}$
001	(000)	0	1	1	1	$001\bar{1}$
010	(001)	0	1	1	1	$010\bar{1}$

011	(001)	0	0	0	0	0110
100	(001)	0	0	0	0	$\overline{1201}$
101	(001)	0	1	1	1	$\overline{1212}$
110	(000)	0	1	1	1	$\overline{1100}$
111	(000)	0	0	0	0	$\overline{1111}$
55.358 $Pb'am'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	2^{001*}	$2^{010}_{\frac{1}{2}\frac{1}{2}0}$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}0*}$	
0	(000)	0	0	0	0	
0	(020)	0	1	0	1	
1	(000)	1	0	1	1	
55.360 P_abam Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$						
$\mathbb{Z}_{2,2}$	weak	$\{1 \frac{1}{2}00\}^*$	$2^{100}_{0\frac{1}{2}0*}$	$2^{001}_{\frac{1}{2}00*}$	$i_{\frac{1}{2}00*}$	$2^{010}_{\frac{1}{2}\frac{1}{2}0} Cm_{(2)}^{001}$
00	(000)	0	0	0	0	2200
00	(000)	0	0	0	0	0022
00	(000)	0	0	0	0	0022
01	(000)	1	1	1	0	0011
10	(000)	1	1	1	0	1100
11	(000)	0	0	0	0	1111
55.361 P_cbam Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = $z_{2m,0}^+$						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	2^{001}	$2^{010}_{\frac{1}{2}\frac{1}{2}0}$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}0} Cm_{(2)}^{001}$
0	(000)	0	0	0	0	2200
0	(000)	0	0	0	0	2200
1	(000)	1	0	0	1	1100
55.362 P_Abam Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = $z_{2m,0}^+$						
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}^*$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}\frac{1}{2}0}$	i	$2^{001} Cm_{(2)}^{001}$
0	(000)	0	0	0	0	2200
0	(000)	0	0	0	0	2200
1	(000)	1	0	0	1	1100
55.363 P_Cbam Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$						
$\mathbb{Z}_{2,2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	2^{001}	2^{010*}	i	$2^{100*} Cm_{(2)}^{001}$
00	(000)	0	0	0	0	2200
00	(000)	0	0	0	0	0022
00	(000)	0	0	0	0	0022
01	(000)	1	0	1	1	0011
10	(000)	1	0	1	1	1100
11	(000)	0	0	0	0	1111
55.364 P_Ibam Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = $z_{2m,0}^+$						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	2^{001}	$2^{010}_{00\frac{1}{2}*}$	i	$2^{100}_{00\frac{1}{2}*} Cm_{(2)}^{001}$
0	(000)	0	0	0	0	2200
0	(000)	0	0	0	0	2200
1	(000)	1	0	1	1	1100
56.365 $Pccn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}\frac{1}{2}}$	i	$2^{100}_{\frac{1}{2}0\frac{1}{2}}$	
0	(000)	0	0	0	0	
1	(000)	0	0	1	0	
56.369 $Pc'c'n$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = z'_{2C}, z'_{2P}						
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}\frac{1}{2}*}$	i	$2^{100}_{\frac{1}{2}0\frac{1}{2}*}$	
00	(004)	0	0	0	0	
00	(000)	0	0	0	0	
01	(000)	0	1	1	1	
10	(002)	0	1	0	1	

11	(002)	0	0	1	0	
56.370 $Pc'cn'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$2_{\frac{1}{2}0}^{001}*$	$2_{0\frac{1}{2}}^{010}$	i	$2_{\frac{1}{2}0\frac{1}{2}}^{100}*$	
0	(000)	0	0	0	0	
0	(020)	1	1	0	0	
1	(000)	1	0	1	1	
56.372 P_bccn Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}*$	$2_{\frac{1}{2}\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{010}*$	$i_{0\frac{1}{2}0}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	0	1
56.373 P_cccn Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$2_{\frac{1}{2}\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}0}^{010}*$	i	$2_{\frac{1}{2}00}^{100}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	1	1
56.374 P_Accn Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$2_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}*$	i	$2^{010}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	1	1
56.375 P_Cccn Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2_{\frac{1}{2}\frac{1}{2}}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	0	1
56.376 P_Iccn Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2_{\frac{1}{2}\frac{1}{2}}^{001}$	$2_{\frac{1}{2}00}^{010}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2_{0\frac{1}{2}0}^{100}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	0	1
57.377 $Pbcm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$2_{00\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	i	$2_{0\frac{1}{2}0}^{100}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	2200
0	(000)	0	0	0	0	2200
1	(000)	0	0	1	0	1100
57.382 $Pb'c'm$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$2_{00\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}*$	i	$2_{0\frac{1}{2}0}^{100}*$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	2200
0	(002)	1	1	0	0	2011
0	(000)	0	0	0	0	2200
1	(000)	0	1	1	1	1100
57.383 $Pbc'm'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,1}, z'_{2P}$						
$\mathbb{Z}_{2,2}$	weak	$2_{00\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}*$	i	$2_{0\frac{1}{2}0}^{100}$	
00	(200)	0	0	0	0	
00	(000)	0	0	0	0	
01	(000)	1	1	1	0	
10	(100)	0	0	0	0	
11	(100)	1	1	1	0	
57.384 $Pb'cm'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$2_{00\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	i	$2_{0\frac{1}{2}0}^{100}*$	
0	(000)	0	0	0	0	
0	(020)	0	1	0	1	
1	(000)	1	0	1	1	
57.386 P_abcm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						

\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	$2_{00\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	i	$2_{0\frac{1}{2}0}^{100}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	0	0	1	0	1100
57.387 P_bbcm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}^*$	$2_{00\frac{1}{2}}^{010}^*$	$2_{0\frac{1}{2}0}^{100}$	$i_{0\frac{1}{2}0}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{001}^*$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	0	0	1	1100
57.388 P_cbcm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}^*$	2^{001}^*	$i_{00\frac{1}{2}}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	1	0	0	1100
57.389 P_Abcm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}^*$	$2_{00\frac{1}{2}}^{100}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	$i_{0\frac{1}{2}\frac{1}{2}}^*$	$2_{0\frac{1}{2}0}^{001}^*$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	0	0	1	1100
57.390 P_Bbcm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}^*$	$i_{\frac{1}{2}0\frac{1}{2}}^*$	$2_{\frac{1}{2}00}^{001}^*$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	0	1	0	1	1100
57.391 P_Cbcm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}^*$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}^*$	$i_{\frac{1}{2}\frac{1}{2}0}^*$	$2_{0\frac{1}{2}0}^{100}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	1	0	0	1100
57.392 P_Ibcm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}^*$	$2_{\frac{1}{2}00}^{010}^*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$2_{0\frac{1}{2}0}^{100}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	1	0	0	1100
58.393 $Pnnm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	2^{001}	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$Cm_{(2)}^{001}$	
0	(000)	0	0	0	0	2200	
0	(000)	0	0	0	0	2200	
1	(000)	0	0	1	0	1100	
58.397 $Pn'n'm$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$							
$\mathbb{Z}_{2,2}$	weak	2^{001}	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010}^*$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}^*$	$Cm_{(2)}^{001}$	
00	(000)	0	0	0	0	2200	
00	(004)	0	0	0	0	4022	
00	(000)	0	0	0	0	2200	
01	(002)	0	0	1	0	2011	
10	(000)	0	1	1	1	1100	
11	(002)	0	1	0	1	3111	
58.398 $Pnn'm'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	2^{001}^*	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010}^*$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$		
0	(000)	0	0	0	0		
0	(200)	0	1	0	1		

1	(000)	1	1	1	0		
58.400 P_{annm} Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}^*$	$i_{\frac{1}{2}00}^*$	$2_{\frac{1}{2}00}^{001}^*$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	0	1	0	1	1100
58.401 P_{cnnm} Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	2^{001}	$2_{\frac{1}{2}\frac{1}{2}0}^{010}^*$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{100}^*$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	0	1	1	1	1100
58.402 P_{Bnnm} Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}^*$	$2_{0\frac{1}{2}0}^{010}^*$	$2_{0\frac{1}{2}0}^{100}^*$	i	2^{001}	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	1	1	0	1100
58.403 P_{Cnnm} Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	2^{001}	$2_{00\frac{1}{2}}^{010}^*$	i	$2_{00\frac{1}{2}}^{100}^*$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	0	1	1	1	1100
58.404 P_{Innm} Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	2^{001}	2^{010}^*	i	2^{100}^*	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	0	1	1	1	1100
59.405 $Pmmn$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{010}$	i	$2_{\frac{1}{2}00}^{100}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$
0	(000)	0	0	0	0	2200	2200
0	(000)	0	0	0	0	2200	0000
0	(000)	0	0	0	0	0000	2200
1	(000)	0	0	1	0	1100	1100
59.409 $Pm'm'n$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,3}, z'_{2P}$							
$\mathbb{Z}_{2,2}$	weak	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{010}^*$	i	$2_{\frac{1}{2}00}^{100}^*$		
00	(002)	0	0	0	0		
00	(000)	0	0	0	0		
01	(000)	0	1	1	1		
10	(001)	0	0	0	0		
11	(001)	0	1	1	1		
59.410 $Pmm'n'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$2_{\frac{1}{2}\frac{1}{2}0}^{001}^*$	$2_{0\frac{1}{2}0}^{010}^*$	i	$2_{\frac{1}{2}00}^{100}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	2200	
0	(200)	1	0	0	1	2011	
0	(000)	0	0	0	0	2200	
1	(000)	1	1	1	0	1100	
59.412 P_bmmn Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}^*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	2^{010}^*	$i_{0\frac{1}{2}0}^*$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}^*$	$Cm_{(2)}^{100}$ $Cm_{(2)}^{010}$
0	(000)	0	0	0	0	0	2200 2200
0	(000)	0	0	0	0	0	2200 0000
0	(000)	0	0	0	0	0	0000 2200
1	(000)	1	0	1	0	1	1100 1100

59.413 P_cmmn Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{010}$	i	$2_{\frac{1}{2}00}^{100}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$
0	(000)	0	0	0	0	0	2200	2200
0	(000)	0	0	0	0	0	2200	0000
0	(000)	0	0	0	0	0	0000	2200
1	(000)	1	0	0	1	0	1100	1100
59.414 P_Bmmn Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}^*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010}$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$i_{\frac{1}{2}0\frac{1}{2}}^*$	$2_{00\frac{1}{2}}^{100}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200	2200
0	(000)	0	0	0	0	0	2200	0000
0	(000)	0	0	0	0	0	0000	2200
1	(000)	1	1	0	0	1	1100	1100
59.415 P_Cmmn Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}00}^{010}$	$i_{\frac{1}{2}\frac{1}{2}0}^*$	$2_{0\frac{1}{2}0}^{100}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200	2200
0	(000)	0	0	0	0	0	2200	0000
0	(000)	0	0	0	0	0	0000	2200
1	(000)	1	0	1	0	1	1100	1100
59.416 P_Immn Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200	2200
0	(000)	0	0	0	0	0	2200	0000
0	(000)	0	0	0	0	0	0000	2200
1	(000)	1	1	1	0	0	1100	1100
60.417 $Pbcn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{010}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$			
0	(000)	0	0	0	0			
1	(000)	0	0	1	0			
60.422 $Pb'c'n$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{010}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$			
0	(000)	0	0	0	0			
0	(002)	1	1	0	0			
1	(000)	0	1	1	1			
60.423 $Pbc'n'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{010}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$			
0	(000)	0	0	0	0			
0	(200)	1	0	0	1			
1	(000)	1	1	1	0			
60.424 $Pb'cn'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z'_{2P}, z_{2,60.242}$								
$\mathbb{Z}_{2,2}$	weak	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{010}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$			
00	(040)	0	0	0	0			
00	(040)	0	0	0	0			
01	(020)	1	0	0	1			
10	(020)	0	0	1	0			
11	(000)	1	0	1	1			
60.426 $Pabcn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}$	$2_{0\frac{1}{2}0}^{100}$	$i_{\frac{1}{2}00}^*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$		
0	(000)	0	0	0	0	0		
1	(000)	1	1	1	0	0		
60.427 P_bbcn Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}^*$	$2_{\frac{1}{2}00}^{100}$	$2_{\frac{1}{2}0\frac{1}{2}}^{001}$	i	$2_{00\frac{1}{2}}^{010}$		

0	(000)	0	0	0	0	0
1	(000)	1	1	1	1	0
60.428 $P_c bcn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}*$	$2^{\frac{001}{\frac{1}{2}\frac{1}{2}0}}*$	$i_{00\frac{1}{2}}*$	$2^{\frac{010}{00\frac{1}{2}}}$
0	(000)	0	0	0	0	0
1	(000)	1	1	1	0	0
60.429 $P_A bcn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}^*$	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}0}}$	$2^{\frac{001}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$i_{0\frac{1}{2}\frac{1}{2}}*$	$2^{\frac{010}{00\frac{1}{2}}}$
0	(000)	0	0	0	0	0
1	(000)	1	0	0	0	0
60.430 $P_B bcn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}^*$	$2^{\frac{010}{00\frac{1}{2}}}$	$2^{\frac{100}{0\frac{1}{2}\frac{1}{2}}}*$	$i_{\frac{1}{2}0\frac{1}{2}}*$	$2^{\frac{001}{0\frac{1}{2}0}}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	0	1
60.431 $P_C bcn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2^{\frac{001}{00\frac{1}{2}}}*$	$2^{\frac{010}{00\frac{1}{2}}}$	i	$2^{\frac{100}{0\frac{1}{2}}}*$
0	(000)	0	0	0	0	0
1	(000)	1	1	0	1	1
60.432 $P_I bcn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2^{\frac{001}{0\frac{1}{2}}}*$	$2^{\frac{010}{00\frac{1}{2}}}$	i	$2^{\frac{100}{00\frac{1}{2}}}*$
0	(000)	0	0	0	0	0
1	(000)	1	1	0	1	1
61.433 $Pbca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$2^{\frac{001}{\frac{1}{2}0\frac{1}{2}}}$	$2^{\frac{010}{0\frac{1}{2}\frac{1}{2}}}$	i	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}0}}$	
0	(000)	0	0	0	0	
1	(000)	0	0	1	0	
61.436 $Pb'c'a$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$2^{\frac{001}{\frac{1}{2}0\frac{1}{2}}}$	$2^{\frac{010}{0\frac{1}{2}\frac{1}{2}}}*$	i	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}0}}*$	
0	(000)	0	0	0	0	
0	(002)	1	1	0	0	
1	(000)	0	1	1	1	
61.438 $P_a bca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	$2^{\frac{001}{\frac{1}{2}0\frac{1}{2}}}*$	$2^{\frac{010}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}*$	$i_{\frac{1}{2}00}*$	$2^{\frac{100}{0\frac{1}{2}0}}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	0	1
61.439 $P_C bca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2^{\frac{001}{0\frac{1}{2}\frac{1}{2}}}*$	$2^{\frac{010}{0\frac{1}{2}\frac{1}{2}}}$	i	$2^{\frac{100}{0\frac{1}{2}}}*$
0	(000)	0	0	0	0	0
1	(000)	1	1	0	1	1
61.440 $P_I bca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2^{\frac{010}{\frac{1}{2}00}}*$	$2^{\frac{001}{0\frac{1}{2}0}}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{\frac{100}{00\frac{1}{2}}}*$
0	(000)	0	0	0	0	0
1	(000)	1	1	1	0	1
62.441 $Pnma$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$2^{\frac{001}{\frac{1}{2}0\frac{1}{2}}}$	$2^{\frac{010}{0\frac{1}{2}0}}$	i	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$Cm_{(2)}^{\frac{010}{(2)}}$
0	(000)	0	0	0	0	2200
0	(000)	0	0	0	0	2200
1	(000)	0	0	1	0	1100
62.446 $Pn'm'a$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$2^{\frac{001}{\frac{1}{2}0\frac{1}{2}}}$	$2^{\frac{010}{0\frac{1}{2}0}}*$	i	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}*$	

0	(000)	0	0	0	0
0	(002)	1	0	0	1
1	(000)	0	1	1	1
<hr/>					
62.447 $Pnm'a'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$2_{\frac{1}{2}0\frac{1}{2}}^{001*}$	$2_{0\frac{1}{2}0}^{010*}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$
0	(000)	0	0	0	0
0	(200)	1	0	0	1
1	(000)	1	1	1	0
<hr/>					
62.448 $Pn'ma'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$2_{\frac{1}{2}0\frac{1}{2}}^{001*}$	$2_{0\frac{1}{2}0}^{010}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$ $Cm_{(2)}^{010}$
0	(000)	0	0	0	2200
0	(020)	0	1	0	2011
0	(000)	0	0	0	2200
1	(000)	1	0	1	1100
<hr/>					
62.450 P_anma Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$2_{\frac{1}{2}\frac{1}{2}0}^{010}$	$i_{\frac{1}{2}00}^*$ $2_{\frac{1}{2}0\frac{1}{2}}^{001}$ $Cm_{(2)}^{010}$
0	(000)	0	0	0	2200
0	(000)	0	0	0	2200
1	(000)	1	1	1	0
<hr/>					
62.451 P_bnma Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}^*$	2^{010}	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$i_{0\frac{1}{2}0}^*$ $2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$ $Cm_{(2)}^{010}$
0	(000)	0	0	0	2200
0	(000)	0	0	0	2200
1	(000)	1	1	1	0
<hr/>					
62.452 P_cnma Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$i_{00\frac{1}{2}}^*$ $2_{\frac{1}{2}00}^{001}$ $Cm_{(2)}^{010}$
0	(000)	0	0	0	2200
0	(000)	0	0	0	2200
1	(000)	1	1	0	1
<hr/>					
62.453 P_Anma Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}^*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$i_{0\frac{1}{2}\frac{1}{2}}^*$ $2_{00\frac{1}{2}}^{010}$ $Cm_{(2)}^{010}$
0	(000)	0	0	0	2200
0	(000)	0	0	0	2200
1	(000)	1	0	1	1
<hr/>					
62.454 P_Bnma Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}^*$	$2_{0\frac{1}{2}0}^{010}$	$2_{0\frac{1}{2}0}^{100}$	i 2^{001} $Cm_{(2)}^{010}$
0	(000)	0	0	0	2200
0	(000)	0	0	0	2200
1	(000)	1	0	1	1
<hr/>					
62.455 P_Cnma Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$i_{\frac{1}{2}\frac{1}{2}0}^*$ $2_{\frac{1}{2}00}^{010}$ $Cm_{(2)}^{010}$
0	(000)	0	0	0	2200
0	(000)	0	0	0	2200
1	(000)	1	1	0	1
<hr/>					
62.456 P_Inma Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{010}$	i 2^{100} $Cm_{(2)}^{010}$
0	(000)	0	0	0	2200
0	(000)	0	0	0	2200
1	(000)	1	1	0	1
<hr/>					
63.457 $Cmcm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$2_{00\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{010}$	i	2^{100} $Cm_{(2)}^{001}$ $Cm_{(2)}^{100}$

0	(000)	0	0	0	0	2 $\bar{2}$ 00	2 $\bar{2}$
0	(000)	0	0	0	0	2 $\bar{2}$ 00	00
0	(000)	0	0	0	0	0000	2 $\bar{2}$
1	(000)	0	0	1	0	1 $\bar{1}$ 00	1 $\bar{1}$
63.462 $Cm'c'm$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$2_{00\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{010}*$	i	$2^{100}*$	$Cm_{(2)}^{001}$	
0	(000)	0	0	0	0	2 $\bar{2}$ 00	
0	(002)	1	1	0	0	2011	
0	(000)	0	0	0	0	2 $\bar{2}$ 00	
1	(000)	0	1	1	1	1100	
63.463 $Cmc'm'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$							
$\mathbb{Z}_{2,2}$	weak	$2_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{010}*$	i	2^{100}	$Cm_{(2)}^{100}$	
00	(220)	0	0	0	0	22	
00	(000)	0	0	0	0	2 $\bar{2}$	
00	(000)	0	0	0	0	2 $\bar{2}$	
01	(000)	1	1	1	0	1 $\bar{1}$	
10	(110)	0	0	0	0	11	
11	(110)	1	1	1	0	20	
63.464 $Cm'cm'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$							
$\mathbb{Z}_{2,2}$	weak	$2_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{010}$	i	$2^{100}*$		
00	(220)	0	0	0	0		
00	(000)	0	0	0	0		
01	(000)	1	0	1	1		
10	(110)	0	0	0	0		
11	(110)	1	0	1	1		
63.466 $C_c mcm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$2^{001}*$	$2^{010}*$	i	2^{100}	$Cm_{(2)}^{001}$ $Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2 $\bar{2}$ 00 2 $\bar{2}$
0	(000)	0	0	0	0	0	2 $\bar{2}$ 00 00
0	(000)	0	0	0	0	0	0000 2 $\bar{2}$
1	(000)	1	1	1	1	0	1100 11
63.467 $C_a mcm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2_{00\frac{1}{2}}^{010}$	2^{100}	i	$2_{00\frac{1}{2}}^{001}$	$Cm_{(2)}^{001}$ $Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200 2 $\bar{2}$
0	(000)	0	0	0	0	0	2200 00
0	(000)	0	0	0	0	0	0000 2 $\bar{2}$
1	(000)	1	0	0	1	0	1100 11
63.468 $C_A mcm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2_{0\frac{1}{2}0}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	$i_{0\frac{1}{2}\frac{1}{2}}*$	$2_{00\frac{1}{2}}^{010}$	$Cm_{(2)}^{001}$ $Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2 $\bar{2}$ 00 2 $\bar{2}$
0	(000)	0	0	0	0	0	2 $\bar{2}$ 00 00
0	(000)	0	0	0	0	0	0000 2 $\bar{2}$
1	(000)	1	1	1	0	0	1100 11
64.469 $Cmca$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$2_{0\frac{1}{2}\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	i	2^{100}	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	2 $\bar{2}$	
0	(000)	0	0	0	0	2 $\bar{2}$	
1	(000)	0	0	1	0	1 $\bar{1}$	
64.474 $Cm'c'a$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$2_{0\frac{1}{2}\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}*$	i	$2^{100}*$		
0	(000)	0	0	0	0		
0	(002)	1	1	0	0		

1	(000)	0	1	1	1		
64.475 $Cmc'a'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z_{2P,2}, z'_{2P}$							
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{0\frac{1}{2}\frac{1}{2}}*$	$2^{010}_{0\frac{1}{2}\frac{1}{2}}*$	i	2^{100}	$Cm^{100}_{(2)}$	
00	(220)	0	0	0	0	22	
00	(000)	0	0	0	0	22	
00	(000)	0	0	0	0	22	
01	(000)	1	1	1	0	11	
10	(110)	0	0	0	0	11	
11	(110)	1	1	1	0	20	
64.476 $Cm'ca'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z_{2P,2}, z'_{2P}$							
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{0\frac{1}{2}\frac{1}{2}}*$	$2^{010}_{0\frac{1}{2}\frac{1}{2}}$	i	2^{100}		
00	(220)	0	2	0	0		
00	(000)	0	0	0	0		
01	(000)	1	0	1	1		
10	(110)	1	1	0	0		
11	(110)	0	1	1	1		
64.478 C_cmca Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$							
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$2^{001}_{0\frac{1}{2}0}*$	$2^{100}_{00\frac{1}{2}}*$	$i_{00\frac{1}{2}}*$	$2^{010}_{0\frac{1}{2}\frac{1}{2}}$	$Cm^{100}_{(2)}$
0	(000)	0	0	0	0	0	22
0	(000)	0	0	0	0	0	22
1	(000)	1	1	1	0	0	11
64.479 C_amca Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{010}_{00\frac{1}{2}}*$	$2^{100}_{0\frac{1}{2}0}*$	$i_{0\frac{1}{2}0}*$	$2^{001}_{0\frac{1}{2}\frac{1}{2}}$	$Cm^{100}_{(2)}$
0	(000)	0	0	0	0	0	22
0	(000)	0	0	0	0	0	22
1	(000)	1	1	1	0	0	11
64.480 C_Amca Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	2^{001}	2^{010}	i	2^{100}	$Cm^{100}_{(2)}$
0	(000)	0	0	0	0	0	22
0	(000)	0	0	0	0	0	22
1	(000)	1	1	1	1	0	11
65.481 $Cmmm$ Classification = \mathbb{Z}_M^4 $X_{BS} = \mathbb{Z}_{2,4}$ $SI = z'_{2P,3}, z'_{4P}$							
$\mathbb{Z}_{2,4}$	weak	2^{001}	2^{010}	i	2^{100}	$Cm^{010}_{(2)}$	$Cm^{001}_{(2)}$ $Cm^{100}_{(2)}$
00	(000)	0	0	0	0	44	2222 44
00	(000)	0	0	0	0	44	4400 44
00	(000)	0	0	0	0	00	2200 22
00	(000)	0	0	0	0	22	2222 22
00	(000)	0	0	0	0	22	2200 00
03	(000)	0	0	1	0	11	1100 11
02	(000)	0	0	0	0	22	2200 22
01	(000)	0	0	1	0	33	3300 33
10	(000)	0	0	0	0	22	1111 22
13	(000)	0	0	1	0	11	0011 11
12	(000)	0	0	0	0	00	1111 00
11	(000)	0	0	1	0	11	2211 11
65.485 $Cm'm'm$ Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2,2}$ $SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$							
$\mathbb{Z}_{2,2,2}$	weak	2^{001}	2^{010}	i	2^{100}	$Cm^{001}_{(2)}$	
000	(002)	0	0	0	0	2402	
000	(002)	0	0	0	0	0202	
000	(000)	0	0	0	0	0022	
000	(000)	0	0	0	0	0022	
001	(000)	0	1	1	1	0011	

010	(001)	0	1	1	1	0101
011	(001)	0	0	0	0	0110
100	(001)	0	0	0	0	$\overline{1201}$
101	(001)	0	1	1	1	$\overline{1212}$
110	(000)	0	1	1	1	$\overline{1100}$
111	(000)	0	0	0	0	$\overline{1111}$
65.486 $Cmm'm'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$						
$\mathbb{Z}_{2,2}$	weak	2^{001*}	2^{010*}	i	2^{100}	$Cm_{(2)}^{100}$
00	($\overline{220}$)	0	0	0	0	22
00	(000)	0	0	0	0	22
00	(000)	0	0	0	0	22
01	(000)	1	1	1	0	11
10	(110)	0	0	0	0	11
11	(110)	1	1	1	0	20
65.488 C_cmmm Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}						
\mathbb{Z}_4	weak	$\{1 00\frac{1}{2}\}^*$	2^{001}	2^{010}	i	2^{100} $Cm_{(2)}^{010}$ $Cm_{(2)}^{001}$ $Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0 44 4400 44
0	(000)	0	0	0	0	0 00 2200 22
0	(000)	0	0	0	0	0 22 0000 22
0	(000)	0	0	0	0	0 22 2200 00
3	(000)	1	0	0	1	0 11 1100 11
2	(000)	0	0	0	0	0 22 2200 22
1	(000)	1	0	0	1	0 33 3300 33
65.489 $C_a mmm$ Classification = \mathbb{Z}_M^4 $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z'_{2P,3}, z'_{4P}$						
$\mathbb{Z}_{2,4}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	2^{001}	2^{010}	i	2^{100} $Cm_{(2)}^{100}$ $Cm_{(2)}^{010}$ $Cm_{(2)}^{001}$
00	(000)	0	0	0	0	0 44 44 2222
00	(000)	0	0	0	0	0 44 44 4400
00	(000)	0	0	0	0	0 22 00 2200
00	(000)	0	0	0	0	0 00 22 2200
00	(000)	0	0	0	0	0 22 22 2222
03	(000)	1	0	0	1	0 11 11 1100
02	(000)	0	0	0	0	0 22 22 2200
01	(000)	1	0	0	1	0 33 33 3300
10	(000)	0	0	0	0	0 22 22 1111
13	(000)	1	0	0	1	0 11 11 0011
12	(000)	0	0	0	0	0 00 00 1111
11	(000)	1	0	0	1	0 11 11 2211
65.490 $C_A mmm$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}						
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	2^{001}	2^{010}	i	2^{100} $Cm_{(2)}^{001}$ $Cm_{(2)}^{010}$ $Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0 4400 44 44
0	(000)	0	0	0	0	0 0000 22 22
0	(000)	0	0	0	0	0 2200 00 22
0	(000)	0	0	0	0	0 2200 22 00
3	(000)	1	0	0	1	0 1100 11 11
2	(000)	0	0	0	0	0 2200 22 22
1	(000)	1	0	0	1	0 3300 33 33
66.491 $C'ccm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	2^{001}	$2^{010}_{00\frac{1}{2}}$	i	$2^{100}_{00\frac{1}{2}}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	2200
0	(000)	0	0	0	0	2200
1	(000)	0	0	1	0	1100
66.495 $Cc'c'm$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$						
$\mathbb{Z}_{2,2}$	weak	2^{001}	$2^{010}_{00\frac{1}{2}}^*$	i	$2^{100}_{00\frac{1}{2}}^*$	$Cm_{(2)}^{001}$

00	(000)	0	0	0	0	2 $\bar{2}$ 00
00	(004)	0	0	0	0	4022
00	(000)	0	0	0	0	2 $\bar{2}$ 00
01	(002)	0	0	1	0	2011
10	(000)	0	1	1	1	1 $\bar{1}$ 00
11	(002)	0	1	0	1	3 $\bar{1}$ 11
66.496 $Ccc'm'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z_{2P,2}, z'_{2P}$						
$\mathbb{Z}_{2,2}$	weak	2^{001*}	$2^{010}_{00\frac{1}{2}}*$	i	$2^{100}_{00\frac{1}{2}}$	
00	(220)	0	0	0	0	
00	(000)	0	0	0	0	
01	(000)	1	1	1	0	
10	(110)	0	0	0	0	
11	(110)	1	1	1	0	
66.498 $C_c ccm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	2^{001}	2^{010}_*	i	2^{100}_* $Cm^{001}_{(2)}$
0	(000)	0	0	0	0	2200
0	(000)	0	0	0	0	2200
1	(000)	1	0	1	1	1100
66.499 $C_a ccm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	2^{001}	$2^{010}_{00\frac{1}{2}}$	i	$2^{100}_{00\frac{1}{2}}$ $Cm^{001}_{(2)}$
0	(000)	0	0	0	0	2200
0	(000)	0	0	0	0	2200
1	(000)	1	0	0	1	1100
66.500 $C_A ccm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	2^{001}_{000*}	$2^{010}_{0\frac{1}{2}0}*$	$i*$	$2^{100}_{0\frac{1}{2}0}$ $Cm^{001}_{(2)}$ $Cm^{010}_{(2)}$
0	(000)	0	0	0	0	2200 $2\bar{2}$
0	(000)	0	0	0	0	2200 00
0	(000)	0	0	0	0	0000 $2\bar{2}$
1	(000)	1	1	1	0	1100 11
67.501 $Cmma$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$						
\mathbb{Z}_2	weak	$2^{001}_{0\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}0}$	i	2^{100}	$Cm^{010}_{(2)}$ $Cm^{100}_{(2)}$
0	(000)	0	0	0	0	22 $2\bar{2}$
0	(000)	0	0	0	0	22 00
0	(000)	0	0	0	0	00 $2\bar{2}$
1	(000)	0	0	1	0	11 $1\bar{1}$
67.505 $Cm'm'a$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z_{2P,3}, z'_{2P}$						
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{0\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}0}*$	i	2^{100}_*	
00	(002)	0	0	0	0	
00	(000)	0	0	0	0	
01	(000)	0	1	1	1	
10	(001)	0	0	0	0	
11	(001)	0	1	1	1	
67.506 $Cmm'a'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z_{2P,2}, z'_{2P}$						
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{0\frac{1}{2}0}*$	$2^{010}_{0\frac{1}{2}0}*$	i	2^{100}	$Cm^{100}_{(2)}$
00	(220)	0	0	0	0	22
00	(000)	0	0	0	0	22
00	(000)	0	0	0	0	22
01	(000)	1	1	1	0	11
10	(110)	0	0	0	0	11
11	(110)	1	1	1	0	20
67.508 $C_c mma$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$2^{001}_{0\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}0}$	i	2^{100} $Cm^{010}_{(2)}$ $Cm^{100}_{(2)}$

0	(000)	0	0	0	0	0	$2\bar{2}$	$2\bar{2}$
0	(000)	0	0	0	0	0	$2\bar{2}$	00
0	(000)	0	0	0	0	0	00	$2\bar{2}$
1	(000)	1	0	0	1	0	$1\bar{1}$	11
67.509 C_{amma} Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{100}$	$i_{0\frac{1}{2}0}^*$	$2_{0\frac{1}{2}0}^{010}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	$2\bar{2}$	$2\bar{2}$
0	(000)	0	0	0	0	0	$2\bar{2}$	00
0	(000)	0	0	0	0	0	00	$2\bar{2}$
1	(000)	1	0	1	0	1	$1\bar{1}$	11
67.510 C_{Amma} Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i_{0\frac{1}{2}\frac{1}{2}}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200	$2\bar{2}$
0	(000)	0	0	0	0	0	2200	00
0	(000)	0	0	0	0	0	0000	$2\bar{2}$
1	(000)	1	1	1	0	0	1100	$1\bar{1}$
68.511 $Ccca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$2_{0\frac{1}{2}0}^{001}$	$2_{00\frac{1}{2}}^{010}$	i	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$			
0	(000)	0	0	0	0			
1	(000)	0	0	1	0			
68.515 $Cc'c'a$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z'_{2P}, z_{2,68.515}$								
$\mathbb{Z}_{2,2}$	weak	$2_{0\frac{1}{2}0}^{001}$	$2_{00\frac{1}{2}}^{010}$	i	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$			
00	(000)	0	0	0	0			
00	(004)	0	0	0	0			
01	(002)	0	1	0	1			
10	(000)	0	1	1	1			
11	(002)	0	0	1	0			
68.516 $Ccc'a'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$								
$\mathbb{Z}_{2,2}$	weak	$2_{0\frac{1}{2}0}^{001}$	$2_{00\frac{1}{2}}^{010}$	i	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$			
00	(220)	0	0	0	0			
00	(000)	0	0	0	0			
01	(000)	1	1	1	0			
10	(110)	0	0	0	0			
11	(110)	1	1	1	0			
68.518 C_ccca Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{100}$	i	$2_{0\frac{1}{2}0}^{010}$		
0	(000)	0	0	0	0	0		
1	(000)	1	0	1	1	1		
68.519 C_{acca} Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	$i_{0\frac{1}{2}0}^*$	$2_{00\frac{1}{2}}^{100}$		
0	(000)	0	0	0	0	0		
1	(000)	1	0	1	0	1		
68.520 C_{Acca} Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2_{0\frac{1}{2}0}^{001}$	$2_{00\frac{1}{2}}^{010}$	$i_{0\frac{1}{2}\frac{1}{2}}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$		
0	(000)	0	0	0	0	0		
1	(000)	1	0	0	0	0		
69.521 $Fmmm$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	2^{001}	2^{010}	i	2^{100}	$Cm_{(2)}^{001}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	44	44	44
0	(000)	0	0	0	0	00	$2\bar{2}$	$2\bar{2}$
0	(000)	0	0	0	0	$2\bar{2}$	00	$2\bar{2}$

0	(000)	0	0	0	0	$\bar{2}2$	$\bar{2}2$	00
3	(000)	0	0	1	0	$\bar{1}\bar{1}$	$\bar{1}\bar{1}$	$\bar{1}\bar{1}$
2	(000)	0	0	0	0	$2\bar{2}$	$2\bar{2}$	$2\bar{2}$
1	(000)	0	0	1	0	33	33	33
69.524 $Fm'm'm$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$								
$\mathbb{Z}_{2,2}$	weak	2^{001}	2^{010*}	i	2^{100*}	$Cm_{(2)}^{001}$		
00	($\bar{2}20$)	0	0	0	0	22		
00	(000)	0	0	0	0	$2\bar{2}$		
00	(000)	0	0	0	0	$2\bar{2}$		
01	(000)	0	1	1	1	11		
10	(110)	0	0	0	0	11		
11	(110)	0	1	1	1	20		
69.526 F_Smmm Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	2^{001}	2^{010}	i	2^{100}	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$
0	(000)	0	0	0	0	0	44	44
0	(000)	0	0	0	0	0	00	22
0	(000)	0	0	0	0	0	22	00
0	(000)	0	0	0	0	0	22	22
3	(000)	1	0	0	1	0	$\bar{1}\bar{1}$	$\bar{1}\bar{1}$
2	(000)	0	0	0	0	0	$2\bar{2}$	$2\bar{2}$
1	(000)	1	0	0	1	0	33	33
70.527 $Fddd$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$2^{001}_{\frac{1}{4}\frac{1}{4}0}$	$2^{010}_{\frac{1}{4}0\frac{1}{4}}$	i	$2^{100}_{0\frac{1}{4}\frac{1}{4}}$			
0	(000)	0	0	0	0			
1	(000)	0	0	1	0			
70.530 $Fd'd'd$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$2^{001}_{\frac{1}{4}\frac{1}{4}0}$	$2^{010}_{\frac{1}{4}0\frac{1}{4}}^*$	i	$2^{100}_{0\frac{1}{4}\frac{1}{4}}^*$			
0	(000)	0	0	0	0			
0	(220)	0	1	0	1			
1	(000)	0	1	1	1			
70.532 F_Sddd Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2^{001}_{\frac{1}{4}\frac{1}{4}0}$	$2^{010}_{\frac{1}{4}0\frac{1}{4}}$	$i\frac{1}{2}\frac{1}{2}\frac{1}{2}^*$	$2^{100}_{0\frac{1}{4}\frac{1}{4}}$		
0	(000)	0	0	0	0	0		
1	(000)	1	0	0	0	0		
71.533 $Immm$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	2^{001}	2^{010}	i	2^{100}	$Cm_{(2)}^{001}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	44	44	44
0	(000)	0	0	0	0	00	22	22
0	(000)	0	0	0	0	$\bar{2}2$	00	$\bar{2}2$
0	(000)	0	0	0	0	$\bar{2}2$	$\bar{2}2$	00
3	(000)	0	0	1	0	$\bar{1}\bar{1}$	11	11
2	(000)	0	0	0	0	$2\bar{2}$	22	$2\bar{2}$
1	(000)	0	0	1	0	33	33	33
71.536 $Im'm'm$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$								
$\mathbb{Z}_{2,2}$	weak	2^{001}	2^{010*}	i	2^{100*}	$Cm_{(2)}^{001}$		
00	($\bar{2}2\bar{2}$)	0	0	0	0	22		
00	(000)	0	0	0	0	$2\bar{2}$		
00	(000)	0	0	0	0	$2\bar{2}$		
01	(000)	0	1	1	1	11		
10	(111)	0	0	0	0	11		
11	(111)	0	1	1	1	20		
71.538 I_cmmm Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								

\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	2^{001}	2^{010}	i	2^{100}	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	44	44	44
0	(000)	0	0	0	0	0	00	22	22
0	(000)	0	0	0	0	0	22	00	22
0	(000)	0	0	0	0	0	22	22	00
3	(000)	1	0	0	1	0	11	11	11
2	(000)	0	0	0	0	0	22	22	22
1	(000)	1	0	0	1	0	33	33	33
72.539 <i>Ibam</i> Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	2^{001}	$2_{00\frac{1}{2}}^{010}$	i	$2_{00\frac{1}{2}}^{100}$	$Cm_{(2)}^{001}$			
0	(000)	0	0	0	0	22			
0	(000)	0	0	0	0	22			
1	(000)	0	0	1	0	11			
72.543 <i>Ib'a'm</i> Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$									
$\mathbb{Z}_{2,2}$	weak	2^{001}	$2_{00\frac{1}{2}}^{010}^*$	i	$2_{00\frac{1}{2}}^{100}^*$	$Cm_{(2)}^{001}$			
00	(222)	0	0	0	0	22			
00	(000)	0	0	0	0	22			
00	(000)	0	0	0	0	22			
01	(000)	0	1	1	1	11			
10	(111)	0	1	0	1	11			
11	(111)	0	0	1	0	20			
72.544 <i>Iba'm'</i> Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$									
$\mathbb{Z}_{2,2}$	weak	2^{001}^*	$2_{00\frac{1}{2}}^{010}^*$	i	$2_{00\frac{1}{2}}^{100}$				
00	(222)	0	0	0	0				
00	(000)	0	0	0	0				
01	(000)	1	1	1	0				
10	(111)	0	0	0	0				
11	(111)	1	1	1	0				
72.546 <i>I_cbam</i> Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	2^{001}	2^{010}^*	i	2^{100}^*	$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	22		
1	(000)	1	0	1	1	1	11		
72.547 <i>I_bbam</i> Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}^*$	$2_{\frac{1}{2}00}^{010}^*$	$2_{\frac{1}{2}00}^{100}^*$	i	2^{001}	$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	22		
1	(000)	1	1	1	1	0	11		
73.548 <i>Ibca</i> Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$2_{0\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}00}^{010}$	i	$2_{00\frac{1}{2}}^{100}$				
0	(000)	0	0	0	0				
1	(000)	0	0	1	0				
73.551 <i>Ib'c'a</i> Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$									
$\mathbb{Z}_{2,2}$	weak	$2_{0\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}00}^{010}^*$	i	$2_{00\frac{1}{2}}^{100}^*$				
00	(222)	0	0	0	0				
00	(000)	0	0	0	0				
01	(000)	0	1	1	1				
10	(111)	0	0	0	1				
11	(111)	0	1	1	0				
73.553 <i>I_cba</i> Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{010}^*$	i	2^{100}^*			
0	(000)	0	0	0	0	0			

1	(000)	1	0	1	1	1		
74.554 <i>Imma</i> Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$2_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{010}$	i	2^{100}	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	22	22	
0	(000)	0	0	0	0	22	00	
0	(000)	0	0	0	0	00	22	
1	(000)	0	0	1	0	11	11	
74.558 <i>Im'm'a</i> Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$								
$\mathbb{Z}_{2,2}$	weak	$2_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{010}*$	i	$2^{100}*$			
00	(222)	0	0	0	0			
00	(000)	0	0	0	0			
01	(000)	0	1	1	1			
10	(111)	0	0	0	0			
11	(111)	0	1	1	1			
74.559 <i>Imm'a'</i> Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2P,2}, z'_{2P}$								
$\mathbb{Z}_{2,2}$	weak	$2_{0\frac{1}{2}0}^{001}*$	$2_{0\frac{1}{2}0}^{010}*$	i	2^{100}	$Cm_{(2)}^{100}$		
00	(222)	0	0	0	0	22		
00	(000)	0	0	0	0	22		
00	(000)	0	0	0	0	22		
01	(000)	1	1	1	0	11		
10	(111)	0	0	0	0	11		
11	(111)	1	1	1	0	20		
74.561 <i>I_cmma</i> Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2_{0\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}00}^{010}*$	$i_{00\frac{1}{2}}*$	$2_{00\frac{1}{2}}^{100}*$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	22	22
0	(000)	0	0	0	0	0	22	00
0	(000)	0	0	0	0	0	00	22
1	(000)	1	0	1	0	1	11	11
74.562 <i>I_bmma</i> Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$2^{010}*$	$2_{0\frac{1}{2}0}^{100}*$	$i_{0\frac{1}{2}0}*$	$2_{0\frac{1}{2}0}^{001}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$
0	(000)	0	0	0	0	0	22	22
0	(000)	0	0	0	0	0	22	00
0	(000)	0	0	0	0	0	00	22
1	(000)	1	1	1	0	0	11	11
75.1 <i>P4</i> Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_4$ SI = z_{4C}								
\mathbb{Z}_4	weak	4^{001}						
0	(004)	0						
3	(001)	0						
2	(002)	0						
1	(003)	0						
75.5 <i>P_C4</i> Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = $z_{4C}/2$								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	4^{001}					
0	(000)	1	0					
77.13 <i>P4₂</i> Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = $z_{4C}/2$								
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}$						
0	(004)	2						
1	(002)	1						
77.17 <i>P_C4₂</i> Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = $z_{4C}/2$								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{00\frac{1}{2}}^{001}$					
0	(000)	1	0					
79.25 <i>I4</i> Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = $z_{4C}/2$								

\mathbb{Z}_2	weak	4^{001}				
0	(222)	0				
1	(111)	0				
<hr/>						
81.33 $P\bar{4}$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,4}$ SI = $z_{2,Weyl}, z_{2,S_4}, z_{4C}$						
$\mathbb{Z}_{2,2,4}$	weak	$\bar{4}^{001}$	$\bar{4}^{001}$			
000	(000)	0	0			
000	(004)	0	0			
001	(001)	0	0			
002	(002)	0	0			
003	(003)	0	0			
010	(000)	1	1			
011	(001)	1	1			
012	(002)	1	1			
013	(003)	1	1			
<hr/>						
81.36 $P_c\bar{4}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$\bar{4}^{001}$	$\bar{4}^{001}$		
0	(000)	0	0	0		
1	(000)	1	1	1		
<hr/>						
81.37 $P_C\bar{4}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2,S_4}, z_{4C}/2$						
$\mathbb{Z}_{2,2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$\bar{4}^{001}$	$\bar{4}^{001}$		
00	(000)	0	0	0		
10	(000)	1	1	1		
<hr/>						
81.38 $P_I\bar{4}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$\bar{4}^{001}$	$\bar{4}^{001}$		
0	(000)	0	0	0		
1	(000)	1	1	1		
<hr/>						
82.39 $I\bar{4}$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,2}$ SI = $z_{2,Weyl}, z_{2,S_4}, z_{4C}/2$						
$\mathbb{Z}_{2,2,2}$	weak	$\bar{4}^{001}$	$\bar{4}^{001}$			
000	(000)	0	0			
000	(222)	0	0			
001	(111)	0	0			
010	(000)	1	1			
011	(111)	1	1			
<hr/>						
82.42 $I_c\bar{4}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$\bar{4}^{001}$	$\bar{4}^{001}$		
0	(000)	0	0	0		
1	(000)	1	1	1		
<hr/>						
83.43 $P4/m$ Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{4,4,4}$ SI = $z_{4m,0}^+, z_{4m,0}^-, z_{4m,\pi}^+$						
$\mathbb{Z}_{4,4,4}$	weak	$\bar{4}^{001}$	i	$\bar{4}^{001}$	$\bar{4}^{001}$	$Cm_{(4)}^{001}$
000	(0012)	0	0	0	0	4, $\bar{16}$, 0, 12
000	(004)	0	0	0	0	0404
000	(000)	0	0	0	0	0044
000	(000)	0	0	0	0	0044
001	(000)	0	1	1	1	0011
002	(000)	0	0	0	0	0022
003	(000)	0	1	1	1	0033
010	(001)	0	1	1	1	0101
011	(001)	0	0	0	0	0110
012	(001)	0	1	1	1	0121
013	(001)	0	0	0	0	0132
020	(002)	0	0	0	0	0202
021	(002)	0	1	1	1	0211
022	(002)	0	0	0	0	0220

023	(002)	0	1	1	1	0231
030	(003)	0	1	1	1	0303
031	(003)	0	0	0	0	0312
032	(003)	0	1	1	1	0321
033	(003)	0	0	0	0	0330
100	(003)	0	0	0	0	1403
101	(003)	0	1	1	1	1414
102	(003)	0	0	0	0	1425
103	(003)	0	1	1	1	1436
110	(002)	0	1	1	1	1302
111	(002)	0	0	0	0	1313
112	(002)	0	1	1	1	1324
113	(002)	0	0	0	0	1335
120	(001)	0	0	0	0	1201
121	(001)	0	1	1	1	1212
122	(001)	0	0	0	0	1223
123	(001)	0	1	1	1	1234
130	(000)	0	1	1	1	1100
131	(000)	0	0	0	0	1111
132	(000)	0	1	1	1	1122
133	(000)	0	0	0	0	1133
200	(006)	0	0	0	0	2806
201	(006)	0	1	1	1	2817
202	(006)	0	0	0	0	2828
203	(006)	0	1	1	1	2839
210	(005)	0	1	1	1	2705
211	(005)	0	0	0	0	2716
212	(005)	0	1	1	1	2727
213	(005)	0	0	0	0	2738
220	(004)	0	0	0	0	2604
221	(004)	0	1	1	1	2615
222	(004)	0	0	0	0	2626
223	(004)	0	1	1	1	2637
230	(003)	0	1	1	1	2503
231	(003)	0	0	0	0	2514
232	(003)	0	1	1	1	2525
233	(003)	0	0	0	0	2536
300	(009)	0	0	0	0	3, 12, 0, 9
301	(009)	0	1	1	1	3, 12, 1, 10
302	(009)	0	0	0	0	3, 12, 2, 11
303	(009)	0	1	1	1	3, 12, 3, 12
310	(008)	0	1	1	1	3, 11, 0, 8
311	(008)	0	0	0	0	3, 11, 1, 9
312	(008)	0	1	1	1	3, 11, 2, 10
313	(008)	0	0	0	0	3, 11, 3, 11
320	(007)	0	0	0	0	3, 10, 0, 7
321	(007)	0	1	1	1	3, 10, 1, 8
322	(007)	0	0	0	0	3, 10, 2, 9
323	(007)	0	1	1	1	3, 10, 3, 10
330	(006)	0	1	1	1	3906
331	(006)	0	0	0	0	3917
332	(006)	0	1	1	1	3928
333	(006)	0	0	0	0	3939

83.45 $P4'/m$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_{2,4}$ $SI = z_{2m,0}^+, z'_{4P}$						
$\mathbb{Z}_{2,4}$	weak	4^{001*}	i	$\bar{4}^{001*}$	$\bar{4}^{001*}$	$Cm_{(2)}^{001}$

00	(000)	0	0	0	0	$\overline{2222}$
00	(000)	0	0	0	0	$\overline{4400}$
00	(000)	0	0	0	0	$\overline{22\overline{22}}$
03	(000)	1	1	0	0	$\overline{1100}$
02	(000)	0	0	0	0	$\overline{2200}$
01	(000)	1	1	0	0	$\overline{3300}$
10	(000)	0	0	0	0	$\overline{1111}$
13	(000)	1	1	0	0	$\overline{0011}$
12	(000)	0	0	0	0	$\overline{1111}$
11	(000)	1	1	0	0	$\overline{2211}$
83.47 $P4'/m'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	4^{001}_*	i_*	$\overline{4}^{001}$	$\overline{4}^{001}$	
0	(000)	0	0	0	0	
1	(000)	1	0	1	1	
83.48 P_c4/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$						
\mathbb{Z}_4	weak	$\{1 00\frac{1}{2}\}_*$	4^{001}	i	$\overline{4}^{001}$	$\overline{4}^{001}$ $Cm_{(4)}^{001}$
0	(000)	0	0	0	0	4400
0	(000)	0	0	0	0	0000
1	(000)	1	0	1	1	1100
2	(000)	0	0	0	0	2200
3	(000)	1	0	1	1	3300
83.49 P_C4/m Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_{4,4}$ SI = $z_{4m,0}^+, z_{4m,\pi}^+$						
$\mathbb{Z}_{4,4}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}_*$	4^{001}	i	$\overline{4}^{001}$	$\overline{4}^{001}$ $Cm_{(4)}^{001}$
00	(000)	0	0	0	0	4400
00	(000)	0	0	0	0	0044
00	(000)	0	0	0	0	0044
01	(000)	1	0	1	1	0011
02	(000)	0	0	0	0	0022
03	(000)	1	0	1	1	0033
10	(000)	1	0	1	1	1100
11	(000)	0	0	0	0	1111
12	(000)	1	0	1	1	1122
13	(000)	0	0	0	0	1133
20	(000)	0	0	0	0	2200
21	(000)	1	0	1	1	2211
22	(000)	0	0	0	0	2222
23	(000)	1	0	1	1	2233
30	(000)	1	0	1	1	3300
31	(000)	0	0	0	0	3311
32	(000)	1	0	1	1	3322
33	(000)	0	0	0	0	3333
83.50 P_I4/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$						
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}_*$	4^{001}	i	$\overline{4}^{001}$	$\overline{4}^{001}$ $Cm_{(4)}^{001}$
0	(000)	0	0	0	0	4400
0	(000)	0	0	0	0	0000
1	(000)	1	0	1	1	1100
2	(000)	0	0	0	0	2200
3	(000)	1	0	1	1	3300
84.51 $P4_2/m$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z_{2m,\pi}^+, z_{4m,0}^+$						
$\mathbb{Z}_{2,4}$	weak	$4_{00\frac{1}{2}}^{001}$	i	$\overline{4}_{00\frac{1}{2}}^{001}$	$\overline{4}_{00\frac{1}{2}}^{001}$	$Cm_{(4)}^{001}$
00	(004)	2	0	0	0	0422
00	(000)	0	0	0	0	4400
00	(000)	0	0	0	0	0000

01	(000)	0	1	1	1	1100
02	(000)	0	0	0	0	2200
03	(000)	0	1	1	1	3300
10	(002)	1	1	0	0	0211
11	(002)	1	0	1	1	1111
12	(002)	1	1	0	0	2011
13	(002)	1	0	1	1	3111
84.53 $P4'_2/m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = $z_{2m,0}^+$						
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}*$	i	$\bar{4}_{00\frac{1}{2}}^{001}*$	$\bar{4}_{00\frac{1}{2}}^{001}*$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	2200
0	(000)	0	0	0	0	2200
1	(000)	1	1	0	0	1100
84.55 $P4'_2/m'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}*$	$i*$	$\bar{4}_{00\frac{1}{2}}^{001}$	$\bar{4}_{00\frac{1}{2}}^{001}$	
0	(000)	0	0	0	0	
1	(000)	1	0	1	1	
84.56 P_C4_2/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$						
\mathbb{Z}_4	weak	$\{1 00\frac{1}{2}\}*$	$4^{001}*$	i	$\bar{4}^{001}*$	$\bar{4}^{001}*$ $Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0 4400
0	(000)	0	0	0	0	0 0000
1	(000)	1	1	1	0	0 1100
2	(000)	0	0	0	0	0 2200
3	(000)	1	1	1	0	0 3300
84.57 P_C4_2/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$						
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{00\frac{1}{2}}^{001}$	i	$\bar{4}_{00\frac{1}{2}}^{001}$	$\bar{4}_{00\frac{1}{2}}^{001}$ $Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0 4400
0	(000)	0	0	0	0	0 0000
1	(000)	1	0	1	1	1 1100
2	(000)	0	0	0	0	0 2200
3	(000)	1	0	1	1	1 3300
84.58 P_I4_2/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$						
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}*$	i	$\bar{4}_{\frac{1}{2}\frac{1}{2}0}^{001}*$	$\bar{4}_{\frac{1}{2}\frac{1}{2}0}^{001}*$ $Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0 4400
0	(000)	0	0	0	0	0 0000
1	(000)	1	1	1	0	0 1100
2	(000)	0	0	0	0	0 2200
3	(000)	1	1	1	0	0 3300
85.59 $P4/n$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ SI = z_{2,S_4}, z_{4C}						
$\mathbb{Z}_{2,4}$	weak	$4_{\frac{1}{2}00}^{001}$	i	$\bar{4}_{\frac{1}{2}00}^{001}$	$\bar{4}_{0\frac{1}{2}0}^{001}$	
00	(000)	0	0	0	0	
00	(004)	0	0	0	0	
01	(001)	0	0	0	0	
02	(002)	0	0	0	0	
03	(003)	0	0	0	0	
10	(000)	0	1	1	1	
11	(001)	0	1	1	1	
12	(002)	0	1	1	1	
13	(003)	0	1	1	1	
85.61 $P4'/n$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}*$	i	$\bar{4}_{\frac{1}{2}00}^{001}*$	$\bar{4}_{0\frac{1}{2}0}^{001}*$	
0	(000)	0	0	0	0	

1	(000)	1	1	0	0	
85.63 $P4'/n'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}*$	$i*$	$\bar{4}_{\frac{1}{2}00}^{001}$	$\bar{4}_{0\frac{1}{2}0}^{001}$	
0	(000)	0	0	0	0	
1	(000)	1	0	1	1	
85.64 P_c4/n Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$4_{\frac{1}{2}00}^{001}$	i	$\bar{4}_{\frac{1}{2}00}^{001}$	$\bar{4}_{0\frac{1}{2}0}^{001}$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	1	1
85.65 P_C4/n Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{\frac{1}{2}00}^{001}$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}_{0\frac{1}{2}0}^{001}*$	$\bar{4}_{\frac{1}{2}00}^{001}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	0	0	0
85.66 P_I4/n Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{\frac{1}{2}00}^{001}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$\bar{4}_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	0	0	0
86.67 $P4_2/n$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2,S_4}, z_{4C}/2$						
$\mathbb{Z}_{2,2}$	weak	$4_{0\frac{1}{2}\frac{1}{2}}^{001}$	i	$\bar{4}_{0\frac{1}{2}\frac{1}{2}}^{001}$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$	
00	(000)	0	0	0	0	
00	(004)	2	0	0	0	
01	(002)	1	1	0	0	
10	(000)	0	1	1	1	
11	(002)	1	0	1	1	
86.69 $P4'_2/n$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$4_{0\frac{1}{2}\frac{1}{2}}^{001}*$	i	$\bar{4}_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}*$	
0	(000)	0	0	0	0	
1	(000)	1	1	0	0	
86.71 $P4'_2/n'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$4_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$i*$	$\bar{4}_{0\frac{1}{2}\frac{1}{2}}^{001}$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$	
0	(000)	0	0	0	0	
1	(000)	1	0	1	1	
86.72 P_c4_2/n Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$4_{0\frac{1}{2}0}^{001}*$	i	$\bar{4}_{0\frac{1}{2}0}^{001}*$	$\bar{4}_{\frac{1}{2}00}^{001}*$
0	(000)	0	0	0	0	0
1	(000)	1	1	1	0	0
86.73 P_C4_2/n Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{0\frac{1}{2}\frac{1}{2}}^{001}$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$\bar{4}_{0\frac{1}{2}\frac{1}{2}}^{001}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	0	0	0
86.74 P_I4_2/n Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{\frac{1}{2}00}^{001}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$\bar{4}_{0\frac{1}{2}\frac{1}{2}}^{001}$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$
0	(000)	0	0	0	0	0
1	(000)	1	1	0	1	1
87.75 $I4/m$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{4,4}$ SI = $z_{4m,87}^+, z_{4m,87}^-$						
$\mathbb{Z}_{4,4}$	weak	4^{001}	i	$\bar{4}^{001}$	$\bar{4}^{001}$	$Cm_{(4)}^{001}$
00	(444)	0	0	0	0	44
00	(000)	0	0	0	0	44
00	(000)	0	0	0	0	00
01	(000)	0	1	1	1	11

02	(000)	0	0	0	0	$\overline{22}$
03	(000)	0	1	1	1	$\overline{33}$
10	(111)	0	0	0	0	11
11	(111)	0	1	1	1	20
12	(111)	0	0	0	0	$\overline{31}$
13	(111)	0	1	1	1	42
20	(222)	0	0	0	0	22
21	(222)	0	1	1	1	31
22	(222)	0	0	0	0	40
23	(222)	0	1	1	1	$\overline{51}$
30	(333)	0	0	0	0	33
31	(333)	0	1	1	1	42
32	(333)	0	0	0	0	51
33	(333)	0	1	1	1	60
87.77 $I4'/m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}						
\mathbb{Z}_4	weak	4^{001}_*	i	$\overline{4}^{001}_*$	$\overline{4}^{001}_*$	$Cm^{001}_{(2)}$
0	(000)	0	0	0	0	44
0	(000)	0	0	0	0	00
3	(000)	1	1	0	0	$\overline{11}$
2	(000)	0	0	0	0	$\overline{22}$
1	(000)	1	1	0	0	$\overline{33}$
87.79 $I4'/m'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	4^{001}_*	i_*	$\overline{4}^{001}$	$\overline{4}^{001}$	
0	(000)	0	0	0	0	
1	(000)	1	0	1	1	
87.80 I_c4/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,87}^-$						
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	4^{001}	i	$\overline{4}^{001}$	$\overline{4}^{001} Cm^{001}_{(4)}$
0	(000)	0	0	0	0	0
0	(000)	0	0	0	0	0
1	(000)	1	0	1	1	1
2	(000)	0	0	0	0	0
3	(000)	1	0	1	1	1
88.81 $I4_1/a$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = z_{2,S_4}, z'_{2P}						
$\mathbb{Z}_{2,2}$	weak	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}_*$	i	$\overline{4}^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}_*$	$\overline{4}^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}_*$	
00	(444)	2	0	0	0	
00	(444)	2	0	0	0	
01	(222)	1	1	0	0	
10	(222)	$\overline{1}$	0	1	1	
11	(000)	0	1	1	1	
88.83 $I4'_1/a$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}_*$	i	$\overline{4}^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}_*$	$\overline{4}^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}_*$	
0	(000)	0	0	0	0	
1	(000)	1	1	0	0	
88.85 $I4'_1/a'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}_*$	i_*	$\overline{4}^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}_*$	$\overline{4}^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}_*$	
0	(000)	0	0	0	0	
1	(000)	1	0	1	1	
88.86 I_c4_1/a Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}_*$	i	$\overline{4}^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}_*$	$\overline{4}^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}_*$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	1	1

89.90 $P42'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_4$ $SI = z_{4C}$				
\mathbb{Z}_4	weak	4^{001}	2^{100*}	2^{110*}
0	(004)	0	0	0
0	(000)	0	1	1
3	(001)	0	0	0
2	(002)	0	0	0
1	(003)	0	0	0
90.98 $P42_1'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_4$ $SI = z_{4C}$				
\mathbb{Z}_4	weak	$4^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{100}_{\frac{1}{2}\frac{1}{2}0*}$	2^{110*}
0	(004)	0	0	0
0	(000)	0	1	1
1	(001)	0	0	0
2	(002)	0	0	0
3	(003)	0	0	0
93.122 $P4_22'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$				
\mathbb{Z}_2	weak	$4^{001}_{00\frac{1}{2}}$	2^{100*}	$2^{110}_{00\frac{1}{2}*}$
0	(004)	2	0	0
0	(000)	0	1	1
1	(002)	1	1	0
94.130 $P4_22_1'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$				
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}*}$	2^{110*}
0	(004)	2	0	0
0	(000)	0	1	1
1	(002)	1	0	1
97.154 $I42'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$				
\mathbb{Z}_2	weak	4^{001}	2^{100*}	2^{110*}
0	(222)	0	0	0
0	(000)	0	1	1
1	(111)	0	1	1
99.167 $P4m'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_4$ $SI = z_{4C}$				
\mathbb{Z}_4	weak	4^{001}	m_{100*}	m_{110*}
0	(004)	0	0	0
3	(001)	0	0	0
2	(002)	0	0	0
1	(003)	0	0	0
100.175 $P4b'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_4$ $SI = z_{4C}$				
\mathbb{Z}_4	weak	4^{001}	$g^{100}_{\frac{1}{2}\frac{1}{2}0*}$	$g^{110}_{\frac{1}{2}\frac{1}{2}0*}$
0	(004)	0	0	0
3	(001)	0	0	0
2	(002)	0	0	0
1	(003)	0	0	0
101.183 $P4_2c'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$				
\mathbb{Z}_2	weak	$4^{001}_{00\frac{1}{2}}$	$g^{100}_{00\frac{1}{2}*}$	m_{110*}
0	(004)	2	2	0
1	(002)	1	1	0
102.191 $P4_2n'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$				
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$g^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}*}$	m_{110*}
0	(004)	2	2	0
1	(002)	1	1	0
103.199 $P4c'c'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4C}$				
\mathbb{Z}_4	weak	4^{001}	$g^{100}_{00\frac{1}{2}*}$	$g^{110}_{00\frac{1}{2}*}$
0	(008)	0	4	4

3	(002)	0	$\bar{1}$	$\bar{1}$
2	(004)	0	$\bar{2}$	$\bar{2}$
1	(006)	0	3	3
104.207 $P4n'c'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$				
\mathbb{Z}_2	weak	4^{001}	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$
0	(004)	0	2	2
1	(002)	0	1	1
104.209 P_C4nc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,104.209}$				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ $g_{00\frac{1}{2}}^{010}*$
0	(000)	1	1	1
1	(002)	1	1	1
105.215 $P4_2m'c'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$				
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}$	$m_{100}*$	$g_{00\frac{1}{2}}^{110}*$
0	(004)	2	0	2
1	(002)	1	0	1
106.223 $P4_2b'c'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$				
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{100}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$
0	(004)	2	0	2
1	(002)	1	0	1
107.231 $I4m'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$				
\mathbb{Z}_2	weak	4^{001}	$m_{100}*$	$m_{110}*$
0	(222)	0	0	0
1	(111)	0	0	0
108.237 $I4c'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4C}$				
\mathbb{Z}_4	weak	4^{001}	$g_{00\frac{1}{2}}^{100}*$	$g_{00\frac{1}{2}}^{110}*$
0	(444)	0	4	4
1	(111)	0	1	1
2	(222)	0	2	2
3	(333)	0	3	3
110.249 $I4_1c'd'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,110.249}$				
\mathbb{Z}_2	weak	$4_{0\frac{1}{2}\frac{1}{4}}^{001}$	$g_{00\frac{1}{2}}^{100}*$	$g_{\frac{1}{2}0\frac{1}{4}}^{110}*$
0	(444)	2	4	2
1	(222)	1	2	1
111.251 $P42m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$				
\mathbb{Z}_2	weak	4^{001}	2^{100}	$Cm_{(0)}^{110}$
0	(000)	0	0	22
0	(000)	0	0	22
1	(000)	1	0	11
111.255 $P4_2m'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,4}$ $SI = z_{2,Weyl}, z_{2,S_4}, z_{4C}$				
$\mathbb{Z}_{2,2,4}$	weak	4^{001}	$2^{100}*$	$m_{110}*$
000	(000)	0	0	0
000	(004)	0	0	0
001	(001)	0	0	0
002	(002)	0	0	0
003	(003)	0	0	0
010	(000)	1	1	0
011	(001)	1	1	0
012	(002)	1	1	0
013	(003)	1	1	0
111.256 P_c42m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$				
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	4^{001}	2^{100} $Cm_{(0)}^{110}$
0	(000)	0	0	22

0	(000)	0	0	0	$2\bar{2}$
1	(000)	1	1	0	$1\bar{1}$
111.257 P_C42m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	4^{001}	2^{010}	$Cm_{(0)}^{110}$
0	(000)	0	0	0	$2\bar{2}$
0	(000)	0	0	0	$2\bar{2}$
1	(000)	1	1	0	$1\bar{1}$
111.258 P_I42m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	4^{001}	2^{100}	$Cm_{(0)}^{110}$
0	(000)	0	0	0	$2\bar{2}$
0	(000)	0	0	0	$2\bar{2}$
1	(000)	1	1	0	$1\bar{1}$
112.259 $P42c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	4^{001}	$2_{00\frac{1}{2}}^{100}$	$g_{00\frac{1}{2}}^{110}$	
0	(000)	0	0	0	
1	(000)	1	0	1	
112.263 $P42'c'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,2}$ $SI = z_{2,Weyl}, z_{2,S_4}, z_{4C}/2$					
$\mathbb{Z}_{2,2,2}$	weak	4^{001}	$2_{00\frac{1}{2}}^{100}*$	$g_{00\frac{1}{2}}^{110}*$	
000	(000)	0	0	0	
000	(004)	0	0	2	
001	(002)	0	1	1	
010	(000)	1	1	0	
011	(002)	1	0	1	
112.264 $P_c\bar{4}2c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	4^{001}	$2^{100}*$	$m_{110}*$
0	(000)	0	0	0	0
1	(000)	1	1	1	0
112.265 P_C42c Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	4^{001}	$g_{00\frac{1}{2}}^{110}$	$2_{00\frac{1}{2}}^{010}$
0	(000)	0	0	0	0
1	(000)	1	1	1	0
112.266 $P_I\bar{4}2c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{100}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$
0	(000)	0	0	0	0
1	(000)	1	0	0	0
113.267 $P42_1m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	4^{001}	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	$Cm_{(0)}^{110}$	
0	(000)	0	0	$2\bar{2}$	
0	(000)	0	0	$2\bar{2}$	
1	(000)	1	0	$1\bar{1}$	
113.271 $P42'_1m'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,4}$ $SI = z_{2,Weyl}, z_{2,S_4}, z_{4C}$					
$\mathbb{Z}_{2,2,4}$	weak	4^{001}	$2_{\frac{1}{2}\frac{1}{2}0}^{100}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	
000	(000)	0	0	0	
000	(004)	0	0	0	
001	(001)	0	0	0	
002	(002)	0	0	0	
003	(003)	0	0	0	
010	(000)	1	1	0	
011	(001)	1	1	0	
012	(002)	1	1	0	
013	(003)	1	1	0	

113.272 P_c42_1m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$\bar{4}^{001}$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	$Cm_{(0)}^{110}$
0	(000)	0	0	0	$2\bar{2}$
0	(000)	0	0	0	$2\bar{2}$
1	(000)	1	1	0	$1\bar{1}$
113.273 P_C42_1m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}$	2_{000}^{010}	$Cm_{(0)}^{110}$
0	(000)	0	0	0	$2\bar{2}$
0	(000)	0	0	0	$2\bar{2}$
1	(000)	1	0	1	$1\bar{1}$
113.274 P_I42_1m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{100}$	$Cm_{(0)}^{110}$
0	(000)	0	0	0	$2\bar{2}$
0	(000)	0	0	0	$2\bar{2}$
1	(000)	1	0	1	$1\bar{1}$
114.275 $P42_1c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\bar{4}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	
0	(000)	0	0	0	
1	(000)	1	0	1	
114.279 $P42'_1c'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,2}$ $SI = z_{2,Weyl}, z_{2,S_4}, z_{4C}/2$					
$\mathbb{Z}_{2,2,2}$	weak	$\bar{4}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	
000	(000)	0	0	0	
000	(004)	0	0	2	
001	(002)	0	1	1	
010	(000)	1	1	0	
011	(002)	1	0	1	
114.280 P_c42_1c Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$4_{00\frac{1}{2}}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}$
0	(000)	0	0	0	0
1	(000)	1	0	0	0
114.281 P_C42_1c Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$2_{00\frac{1}{2}}^{010}$
0	(000)	0	0	0	0
1	(000)	1	0	1	1
114.282 P_I42_1c Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$\bar{4}^{001}$	2^{100}	m_{110}
0	(000)	0	0	0	0
1	(000)	1	1	1	0
115.283 $P\bar{4}m2$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$					
\mathbb{Z}_2	weak	$\bar{4}^{001}$	2^{110}	$Cm_{(0)}^{100}$	
0	(000)	0	0	2200	
0	(000)	0	0	$11\bar{1}\bar{1}$	
0	(000)	0	0	$1\bar{1}11$	
1	(000)	1	0	$1\bar{1}00$	
115.287 $P\bar{4}m'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,4}$ $SI = z_{2,Weyl}, z_{2,S_4}, z_{4C}$					
$\mathbb{Z}_{2,2,4}$	weak	$\bar{4}^{001}$	m_{100}	2^{110}	
000	(000)	0	0	0	
000	(004)	0	0	0	
001	(001)	0	0	0	
002	(002)	0	0	0	
003	(003)	0	0	0	

010	(000)	1	0	1
011	(001)	1	0	1
012	(002)	1	0	1
013	(003)	1	0	1
115.288 $P_c\bar{4}m2$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$				
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	4^{001}	2^{110} $Cm_{(0)}^{100}$
0	(000)	0	0	$2\bar{2}00$
0	(000)	0	0	$1\bar{1}\bar{1}\bar{1}$
0	(000)	0	0	$1\bar{1}\bar{1}1$
1	(000)	1	1	$1\bar{1}00$
115.289 $P_C\bar{4}m2$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	4^{001}	2^{110} $Cm_{(0)}^{010}$
0	(000)	0	0	$2\bar{2}00$
0	(000)	0	0	$2\bar{2}00$
1	(000)	1	1	$1\bar{1}00$
115.290 $P_I\bar{4}m2$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	4^{001}	2^{110} $Cm_{(0)}^{010}$
0	(000)	0	0	$2\bar{2}00$
0	(000)	0	0	$2\bar{2}00$
1	(000)	1	1	$1\bar{1}00$
116.291 $P\bar{4}c2$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$				
\mathbb{Z}_2	weak	4^{001}	$g_{00\frac{1}{2}}^{100}$	$2_{00\frac{1}{2}}^{110}$
0	(000)	0	0	0
1	(000)	1	1	0
116.295 $P4c'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,2}$ $SI = z_{2,Weyl}, z_{2,S_4}, z_{4C}/2$				
$\mathbb{Z}_{2,2,2}$	weak	4^{001}	$g_{00\frac{1}{2}}^{100}*$	$2_{00\frac{1}{2}}^{110}*$
000	(000)	0	0	0
000	(004)	0	2	0
001	(002)	0	1	1
010	(000)	1	0	1
011	(002)	1	1	0
116.296 $P_c\bar{4}c2$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$				
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$4_{00\frac{1}{2}}^{001}*$	$m_{100}*$ $2_{00\frac{1}{2}}^{110}$
0	(000)	0	0	0
1	(000)	1	0	0
116.297 $P_C\bar{4}c2$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	4^{001}	$2_{00\frac{1}{2}}^{110}$ $g_{00\frac{1}{2}}^{010}$
0	(000)	0	0	0
1	(000)	1	1	1
116.298 $P_I\bar{4}c2$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	4^{001}	$g_{00\frac{1}{2}}^{100}$ $2_{00\frac{1}{2}}^{110}$
0	(000)	0	0	0
1	(000)	1	1	0
117.299 $P\bar{4}b2$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$				
\mathbb{Z}_2	weak	4^{001}	$g_{\frac{1}{2}\frac{1}{2}0}^{100}$	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$
0	(000)	0	0	0
1	(000)	1	1	0
117.303 $P4b'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,4}$ $SI = z_{2,Weyl}, z_{2,S_4}, z_{4C}$				
$\mathbb{Z}_{2,2,4}$	weak	4^{001}	$g_{\frac{1}{2}\frac{1}{2}0}^{100}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{110}*$
000	(000)	0	0	0
000	(004)	0	0	0

001	(001)	0	0	0
002	(002)	0	0	0
003	(003)	0	0	0
010	(000)	1	0	1
011	(001)	1	0	1
012	(002)	1	0	1
013	(003)	1	0	1
117.304 P_c4b2 Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}				
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	4^{001}	$g_{\frac{1}{2}\frac{1}{2}0}^{100}$ $2_{\frac{1}{2}\frac{1}{2}0}^{110}$
0	(000)	0	0	0
1	(000)	1	1	0
117.305 P_C4b2 Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$ m_{010}^*
0	(000)	0	0	0
1	(000)	1	0	0
117.306 P_I4b2 Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	4^{001}	$g_{00\frac{1}{2}}^{100}$ $2_{00\frac{1}{2}}^{110}$
0	(000)	0	0	0
1	(000)	1	1	0
118.307 $P4n2$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}				
\mathbb{Z}_2	weak	4^{001}	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
0	(000)	0	0	0
1	(000)	1	1	0
118.311 $P4n'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,2}$ SI = $z_{2,Weyl}, z_{2,S_4}, z_{4C}/2$				
$\mathbb{Z}_{2,2,2}$	weak	4^{001}	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
000	(000)	0	0	0
000	(004)	0	2	0
001	(002)	0	1	1
010	(000)	1	0	1
011	(002)	1	1	0
118.312 P_c4n2 Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}				
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$4_{00\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{100}$ $2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
0	(000)	0	0	0
1	(000)	1	0	0
118.313 P_C4n2 Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ $g_{00\frac{1}{2}}^{010}$
0	(000)	0	0	0
1	(000)	1	0	0
118.314 P_I4n2 Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	m_{100}^* $2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
0	(000)	0	0	0
1	(000)	1	0	0
119.315 $I4m2$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}				
\mathbb{Z}_2	weak	4^{001}	2^{110}	$Cm_{(0)}^{010}$
0	(000)	0	0	22
0	(000)	0	0	22
1	(000)	1	0	11
119.319 $I4m'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,2}$ SI = $z_{2,Weyl}, z_{2,S_4}, z_{4C}/2$				
$\mathbb{Z}_{2,2,2}$	weak	4^{001}	m_{100}^*	2^{110}
000	(000)	0	0	0
000	(111)	0	0	0

010	(000)	1	0	1					
119.320 $I_c\bar{4}m2$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$\bar{4}^{001}$	2^{110}	$Cm_{(0)}^{010}$				
0	(000)	0	0	0	22				
0	(000)	0	0	0	22				
1	(000)	1	1	0	11				
120.321 $I4c2$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$\bar{4}^{001}$	$g_{00\frac{1}{2}}^{100}$	$2_{00\frac{1}{2}}^{110}$					
0	(000)	0	0	0					
1	(000)	1	1	0					
120.325 $I4c'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,2}$ SI = $z_{2,Weyl}, z_{2,S_4}, z_{4C}/2$									
$\mathbb{Z}_{2,2,2}$	weak	$\bar{4}^{001}$	$g_{00\frac{1}{2}}^{100}*$	$2_{00\frac{1}{2}}^{110}*$					
000	(000)	0	0	0					
000	(111)	0	$\bar{1}$	1					
010	(000)	1	0	1					
120.326 I_c4c2 Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$\bar{4}_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{110}$	$m_{010}*$				
0	(000)	0	0	0	0				
1	(000)	1	0	0	0				
121.327 $I42m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$\bar{4}^{001}$	2^{100}	$Cm_{(0)}^{110}$					
0	(000)	0	0	22					
0	(000)	0	0	22					
1	(000)	1	0	11					
121.331 $I42'm'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,2}$ SI = $z_{2,Weyl}, z_{2,S_4}, z_{4C}/2$									
$\mathbb{Z}_{2,2,2}$	weak	$\bar{4}^{001}$	$2^{100}*$	$m_{110}*$					
000	(000)	0	0	0					
000	(111)	0	0	0					
010	(000)	1	1	0					
121.332 I_c42m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$\bar{4}^{001}$	2^{010}	$Cm_{(0)}^{110}$				
0	(000)	0	0	0	22				
0	(000)	0	0	0	22				
1	(000)	1	1	0	11				
122.333 $I42d$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$\bar{4}^{001}$	$2_{0\frac{1}{2}\frac{1}{4}}^{100}$	$g_{0\frac{1}{2}\frac{1}{4}}^{110}$					
0	(000)	0	0	0					
1	(000)	1	0	1					
122.337 $I42'd'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2,Weyl}, z_{2,S_4}$									
$\mathbb{Z}_{2,2}$	weak	$\bar{4}^{001}$	$2_{0\frac{1}{2}\frac{1}{4}}^{100}*$	$g_{0\frac{1}{2}\frac{1}{4}}^{110}*$					
00	(000)	0	0	0					
00	(222)	0	1	1					
01	(000)	1	1	0					
122.338 I_c42d Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$\bar{4}^{001}$	$g_{0\frac{1}{2}\frac{1}{4}}^{110}$	$2_{0\frac{1}{2}\frac{1}{4}}^{010}$				
0	(000)	0	0	0	0				
1	(000)	1	1	1	0				
123.339 $P4/mmm$ Classification = \mathbb{Z}_M^5 $X_{BS} = \mathbb{Z}_{2,4,8}$ SI = $z'_{2P,1}, z_{4m,\pi}^+, z_8$									
$\mathbb{Z}_{2,4,8}$	weak	$\bar{4}^{001}$	2^{100}	i	2^{110}	$\bar{4}^{001}$	$Cm_{(2)}^{100}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$
000	(000)	0	0	0	0	0	6622	8800	88
000	(000)	0	0	0	0	0	8800	4444	88

000	(000)	0	0	0	0	0	8800	8800	88
000	(000)	0	0	0	0	0	4422	4400	44
000	(000)	0	0	0	0	0	2200	4444	22
000	(000)	0	0	0	0	0	4400	4400	22
003	(000)	0	0	1	0	1	1100	1100	11
006	(000)	0	0	0	0	0	2200	2200	22
001	(000)	0	0	1	0	1	3300	3300	33
004	(000)	0	0	0	0	0	4400	4400	44
007	(000)	0	0	1	0	1	5500	5500	55
002	(000)	0	0	0	0	0	6600	6600	66
005	(000)	0	0	1	0	1	7700	7700	77
010	(000)	0	0	0	0	0	2200	1111	22
013	(000)	0	0	1	0	1	1100	0011	11
016	(000)	0	0	0	0	0	0000	1111	00
011	(000)	0	0	1	0	1	1100	2211	11
014	(000)	0	0	0	0	0	2200	3311	22
017	(000)	0	0	1	0	1	3300	4411	33
012	(000)	0	0	0	0	0	4400	5511	44
015	(000)	0	0	1	0	1	5500	6611	55
020	(000)	0	0	0	0	0	4400	2222	44
023	(000)	0	0	1	0	1	3300	1122	33
026	(000)	0	0	0	0	0	2200	0022	22
021	(000)	0	0	1	0	1	1100	1122	11
024	(000)	0	0	0	0	0	0000	2222	00
027	(000)	0	0	1	0	1	1100	3322	11
022	(000)	0	0	0	0	0	2200	4422	22
025	(000)	0	0	1	0	1	3300	5522	33
030	(000)	0	0	0	0	0	6600	3333	66
033	(000)	0	0	1	0	1	5500	2233	55
036	(000)	0	0	0	0	0	4400	1133	44
031	(000)	0	0	1	0	1	3300	0033	33
034	(000)	0	0	0	0	0	2200	1133	22
037	(000)	0	0	1	0	1	1100	2233	11
032	(000)	0	0	0	0	0	0000	3333	00
035	(000)	0	0	1	0	1	1100	4433	11
100	(000)	0	0	0	0	0	3311	4400	44
103	(000)	0	0	1	0	1	2211	3300	33
106	(000)	0	0	0	0	0	1111	2200	22
101	(000)	0	0	1	0	1	0011	1100	11
104	(000)	0	0	0	0	0	1111	0000	00
107	(000)	0	0	1	0	1	2211	1100	11
102	(000)	0	0	0	0	0	3311	2200	22
105	(000)	0	0	1	0	1	4411	3300	33
110	(000)	0	0	0	0	0	5511	5511	66
113	(000)	0	0	1	0	1	4411	4411	55
116	(000)	0	0	0	0	0	3311	3311	44
111	(000)	0	0	1	0	1	2211	2211	33
114	(000)	0	0	0	0	0	1111	1111	22
117	(000)	0	0	1	0	1	0011	0011	11
112	(000)	0	0	0	0	0	1111	1111	00
115	(000)	0	0	1	0	1	2211	2211	11
120	(000)	0	0	0	0	0	7711	6622	88
123	(000)	0	0	1	0	1	6611	5522	77
126	(000)	0	0	0	0	0	5511	4422	66
121	(000)	0	0	1	0	1	4411	3322	55

124	(000)	0	0	0	0	0	$\overline{3311}$	$\overline{2222}$	$\overline{44}$
127	(000)	0	0	1	0	1	$\overline{2211}$	$\overline{1122}$	$\overline{33}$
122	(000)	0	0	0	0	0	$\overline{1111}$	$\overline{0022}$	$\overline{22}$
125	(000)	0	0	1	0	1	$\overline{0011}$	$\overline{1122}$	$\overline{11}$
130	(000)	0	0	0	0	0	$\overline{9911}$	$\overline{7733}$	$\overline{10, 10}$
133	(000)	0	0	1	0	1	$\overline{8811}$	$\overline{6633}$	$\overline{99}$
136	(000)	0	0	0	0	0	$\overline{7711}$	$\overline{5533}$	$\overline{88}$
131	(000)	0	0	1	0	1	$\overline{6611}$	$\overline{4433}$	$\overline{77}$
134	(000)	0	0	0	0	0	$\overline{5511}$	$\overline{3333}$	$\overline{66}$
137	(000)	0	0	1	0	1	$\overline{4411}$	$\overline{2233}$	$\overline{55}$
132	(000)	0	0	0	0	0	$\overline{3311}$	$\overline{1133}$	$\overline{44}$
135	(000)	0	0	1	0	1	$\overline{2211}$	$\overline{0033}$	$\overline{33}$

		123.342	$P4'/mm'm$	Classification = \mathbb{Z}_M^3		$X_{BS} = \mathbb{Z}_{2,4}$	SI = $z'_{2P,3}, z'_{4P}$		
$\mathbb{Z}_{2,4}$	weak	4^{001*}	2^{100*}	i	2^{110}	$\overline{4}^{001*}$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{110}$	
00	(000)	0	0	0	0	0	$\overline{2222}$	$\overline{44}$	
00	(000)	0	0	0	0	0	$\overline{4400}$	$\overline{44}$	
00	(000)	0	0	0	0	0	$\overline{2222}$	$\overline{22}$	
00	(000)	0	0	0	0	0	$\overline{0000}$	$\overline{22}$	
03	(000)	1	1	1	0	0	$\overline{1100}$	$\overline{11}$	
02	(000)	0	0	0	0	0	$\overline{2200}$	$\overline{22}$	
01	(000)	1	1	1	0	0	$\overline{3300}$	$\overline{33}$	
10	(000)	0	0	0	0	0	$\overline{1111}$	$\overline{22}$	
13	(000)	1	1	1	0	0	$\overline{0011}$	$\overline{11}$	
12	(000)	0	0	0	0	0	$\overline{1111}$	$\overline{00}$	
11	(000)	1	1	1	0	0	$\overline{2211}$	$\overline{11}$	

		123.343	$P4'/mmm'$	Classification = \mathbb{Z}_M^4		$X_{BS} = \mathbb{Z}_{2,2,4}$	SI = $z'_{2P,1}, z'_{2P,3}, z'_{4P}$		
$\mathbb{Z}_{2,2,4}$	weak	4^{001*}	2^{100}	i	2^{110*}	$\overline{4}^{001*}$	m_{110*}	$Cm_{(2)}^{100}$	$Cm_{(2)}^{001}$
000	(000)	0	0	0	0	0	0	$\overline{2222}$	$\overline{0000}$
000	(000)	0	0	0	0	0	0	$\overline{4400}$	$\overline{2222}$
000	(000)	0	0	0	0	0	0	$\overline{4400}$	$\overline{4400}$
000	(000)	0	0	0	0	0	0	$\overline{0022}$	$\overline{0000}$
000	(000)	0	0	0	0	0	0	$\overline{2200}$	$\overline{2222}$
003	(000)	1	0	1	1	0	0	$\overline{1100}$	$\overline{1100}$
002	(000)	0	0	0	0	0	0	$\overline{2200}$	$\overline{2200}$
001	(000)	1	0	1	1	0	0	$\overline{3300}$	$\overline{3300}$
010	(000)	0	0	0	0	0	0	$\overline{2200}$	$\overline{1111}$
013	(000)	1	0	1	1	0	0	$\overline{1100}$	$\overline{0011}$
012	(000)	0	0	0	0	0	0	$\overline{0000}$	$\overline{1111}$
011	(000)	1	0	1	1	0	0	$\overline{1100}$	$\overline{2211}$
100	(000)	0	0	0	0	0	0	$\overline{1111}$	$\overline{0000}$
103	(000)	1	0	1	1	0	0	$\overline{2211}$	$\overline{1100}$
102	(000)	0	0	0	0	0	0	$\overline{3311}$	$\overline{2200}$
101	(000)	1	0	1	1	0	0	$\overline{4411}$	$\overline{3300}$
110	(000)	0	0	0	0	0	0	$\overline{1111}$	$\overline{1111}$
113	(000)	1	0	1	1	0	0	$\overline{0011}$	$\overline{0011}$
112	(000)	0	0	0	0	0	0	$\overline{1111}$	$\overline{1111}$
111	(000)	1	0	1	1	0	0	$\overline{2211}$	$\overline{2211}$

		123.344	$P4'/m'm'm'$	Classification = \mathbb{Z}_M		$X_{BS} = \mathbb{Z}_2$	SI = z_{2,S_4}		
\mathbb{Z}_2	weak	4^{001*}	2^{100}	$i*$	2^{110*}	$\overline{4}^{001}$	$Cm_{(0)}^{110}$		
0	(000)	0	0	0	0	0	$\overline{22}$		
0	(000)	0	0	0	0	0	$\overline{22}$		
1	(000)	1	0	0	1	1	$\overline{11}$		

		123.345	$P4/mm'm'm'$	Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$		$X_{BS} = \mathbb{Z}_{4,4,4}$	SI = $z_{4m,0}^+, z_{4m,0}^-, z_{4m,\pi}^+$		
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$\mathbb{Z}_{4,4,4}$	weak	4^{001}	2^{100*}	i	2^{110*}	$\bar{4}^{001}$	m_{110*}	$Cm_{(4)}^{001}$
000	(0012)	0	0	0	0	0	0	4, 16, 0, 12
000	(004)	0	0	0	0	0	0	0404
000	(000)	0	0	0	0	0	0	0044
000	(000)	0	0	0	0	0	0	0044
001	(000)	0	1	1	1	1	0	0011
002	(000)	0	0	0	0	0	0	0022
003	(000)	0	1	1	1	1	0	0033
010	(001)	0	1	1	1	1	0	0101
011	(001)	0	0	0	0	0	0	0110
012	(001)	0	1	1	1	1	0	0121
013	(001)	0	0	0	0	0	0	0132
020	(002)	0	0	0	0	0	0	0202
021	(002)	0	1	1	1	1	0	0211
022	(002)	0	0	0	0	0	0	0220
023	(002)	0	1	1	1	1	0	0231
030	(003)	0	1	1	1	1	0	0303
031	(003)	0	0	0	0	0	0	0312
032	(003)	0	1	1	1	1	0	0321
033	(003)	0	0	0	0	0	0	0330
100	(003)	0	0	0	0	0	0	1403
101	(003)	0	1	1	1	1	0	1414
102	(003)	0	0	0	0	0	0	1425
103	(003)	0	1	1	1	1	0	1436
110	(002)	0	1	1	1	1	0	1302
111	(002)	0	0	0	0	0	0	1313
112	(002)	0	1	1	1	1	0	1324
113	(002)	0	0	0	0	0	0	1335
120	(001)	0	0	0	0	0	0	1201
121	(001)	0	1	1	1	1	0	1212
122	(001)	0	0	0	0	0	0	1223
123	(001)	0	1	1	1	1	0	1234
130	(000)	0	1	1	1	1	0	1100
131	(000)	0	0	0	0	0	0	1111
132	(000)	0	1	1	1	1	0	1122
133	(000)	0	0	0	0	0	0	1133
200	(006)	0	0	0	0	0	0	2806
201	(006)	0	1	1	1	1	0	2817
202	(006)	0	0	0	0	0	0	2828
203	(006)	0	1	1	1	1	0	2839
210	(005)	0	1	1	1	1	0	2705
211	(005)	0	0	0	0	0	0	2716
212	(005)	0	1	1	1	1	0	2727
213	(005)	0	0	0	0	0	0	2738
220	(004)	0	0	0	0	0	0	2604
221	(004)	0	1	1	1	1	0	2615
222	(004)	0	0	0	0	0	0	2626
223	(004)	0	1	1	1	1	0	2637
230	(003)	0	1	1	1	1	0	2503
231	(003)	0	0	0	0	0	0	2514
232	(003)	0	1	1	1	1	0	2525
233	(003)	0	0	0	0	0	0	2536
300	(009)	0	0	0	0	0	0	3, 12, 0, 9
301	(009)	0	1	1	1	1	0	3, 12, 1, 10
302	(009)	0	0	0	0	0	0	3, 12, 2, 11

303	(009)	0	1	1	1	1	0	3, 12, 3, 12		
310	(008)	0	1	1	1	1	0	3, 11, 0, 8		
311	(008)	0	0	0	0	0	0	3, 11, 1, 9		
312	(008)	0	1	1	1	1	0	3, 11, 2, 10		
313	(008)	0	0	0	0	0	0	3, 11, 3, 11		
320	(007)	0	0	0	0	0	0	3, 10, 0, 7		
321	(007)	0	1	1	1	1	0	3, 10, 1, 8		
322	(007)	0	0	0	0	0	0	3, 10, 2, 9		
323	(007)	0	1	1	1	1	0	3, 10, 3, 10		
330	(006)	0	1	1	1	1	0	3906		
331	(006)	0	0	0	0	0	0	3917		
332	(006)	0	1	1	1	1	0	3928		
333	(006)	0	0	0	0	0	0	3939		
123.346 $P4'/m'mm'$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}										
\mathbb{Z}_2	weak	4^{001*}	2^{100*}	i^*	2^{110}	4^{001}	$m_{1\bar{1}0}^*$	$Cm_{(0)}^{100}$		
0	(000)	0	0	0	0	0	0	2200		
0	(000)	0	0	0	0	0	0	1111		
0	(000)	0	0	0	0	0	0	1111		
1	(000)	1	1	0	0	1	0	1100		
123.348 P_c4/mmm Classification = \mathbb{Z}_M^4 $X_{BS} = \mathbb{Z}_{2,8}$ SI = $z'_{2P,1}, z_8$										
$\mathbb{Z}_{2,8}$	weak	$\{1 00\frac{1}{2}\}^*$	4^{001}	2^{100}	i	2^{110}	4^{001}	$Cm_{(2)}^{100}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$
00	(000)	0	0	0	0	0	0	6622	8800	88
00	(000)	0	0	0	0	0	0	8800	8800	88
00	(000)	0	0	0	0	0	0	4422	4400	44
00	(000)	0	0	0	0	0	0	2200	0000	22
00	(000)	0	0	0	0	0	0	4400	4400	22
03	(000)	1	0	0	1	0	1	1100	1100	11
06	(000)	0	0	0	0	0	0	2200	2200	22
01	(000)	1	0	0	1	0	1	3300	3300	33
04	(000)	0	0	0	0	0	0	4400	4400	44
07	(000)	1	0	0	1	0	1	5500	5500	55
02	(000)	0	0	0	0	0	0	6600	6600	66
05	(000)	1	0	0	1	0	1	7700	7700	77
10	(000)	0	0	0	0	0	0	3311	4400	44
13	(000)	1	0	0	1	0	1	2211	3300	33
16	(000)	0	0	0	0	0	0	1111	2200	22
11	(000)	1	0	0	1	0	1	0011	1100	11
14	(000)	0	0	0	0	0	0	1111	0000	00
17	(000)	1	0	0	1	0	1	2211	1100	11
12	(000)	0	0	0	0	0	0	3311	2200	22
15	(000)	1	0	0	1	0	1	4411	3300	33
123.349 P_C4/mmm Classification = \mathbb{Z}_M^4 $X_{BS} = \mathbb{Z}_{4,8}$ SI = $z_{4m,\pi}^+, z_8$										
$\mathbb{Z}_{4,8}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	4^{001}	2^{110}	i	2^{010}	4^{001}	$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{100}$
00	(000)	0	0	0	0	0	0	88	4444	8800
00	(000)	0	0	0	0	0	0	88	8800	8800
00	(000)	0	0	0	0	0	0	22	4400	4400
00	(000)	0	0	0	0	0	0	66	6622	6600
00	(000)	0	0	0	0	0	0	44	4400	2200
03	(000)	1	0	0	1	0	1	11	1100	1100
06	(000)	0	0	0	0	0	0	22	2200	2200
01	(000)	1	0	0	1	0	1	33	3300	3300
04	(000)	0	0	0	0	0	0	44	4400	4400
07	(000)	1	0	0	1	0	1	55	5500	5500
02	(000)	0	0	0	0	0	0	66	6600	6600

05	(000)	1	0	0	1	0	1	$\overline{77}$	$\overline{7700}$	$\overline{7700}$
10	(000)	0	0	0	0	0	0	$\overline{22}$	$\overline{1111}$	$\overline{2200}$
13	(000)	1	0	0	1	0	1	$\overline{11}$	$\overline{0011}$	$\overline{1100}$
16	(000)	0	0	0	0	0	0	00	1111	0000
11	(000)	1	0	0	1	0	1	11	2211	1100
14	(000)	0	0	0	0	0	0	22	3311	2200
17	(000)	1	0	0	1	0	1	33	4411	3300
12	(000)	0	0	0	0	0	0	44	5511	4400
15	(000)	1	0	0	1	0	1	55	6611	5500
20	(000)	0	0	0	0	0	0	44	2222	4400
23	(000)	1	0	0	1	0	1	33	1122	3300
26	(000)	0	0	0	0	0	0	22	0022	2200
21	(000)	1	0	0	1	0	1	$\overline{11}$	$\overline{1122}$	$\overline{1100}$
24	(000)	0	0	0	0	0	0	00	2222	0000
27	(000)	1	0	0	1	0	1	$\overline{11}$	$\overline{3322}$	$\overline{1100}$
22	(000)	0	0	0	0	0	0	$\overline{22}$	$\overline{4422}$	$\overline{2200}$
25	(000)	1	0	0	1	0	1	$\overline{33}$	$\overline{5522}$	$\overline{3300}$
30	(000)	0	0	0	0	0	0	$\overline{66}$	$\overline{3333}$	$\overline{6600}$
33	(000)	1	0	0	1	0	1	$\overline{55}$	$\overline{2233}$	$\overline{5500}$
36	(000)	0	0	0	0	0	0	$\overline{44}$	$\overline{1133}$	$\overline{4400}$
31	(000)	1	0	0	1	0	1	33	0033	3300
34	(000)	0	0	0	0	0	0	22	1133	2200
37	(000)	1	0	0	1	0	1	11	2233	1100
32	(000)	0	0	0	0	0	0	00	3333	0000
35	(000)	1	0	0	1	0	1	11	4433	1100

123.350 P_14/mmm Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_8$ $SI = z_8$										
\mathbb{Z}_8	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	4^{001}	2^{100}	i	2^{110}	$\overline{4}^{001}$	$Cm_{(2)}^{010}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	0	8800	8800	88
0	(000)	0	0	0	0	0	0	2200	4400	44
0	(000)	0	0	0	0	0	0	2200	0000	22
0	(000)	0	0	0	0	0	0	4400	4400	22
3	(000)	1	0	0	1	0	1	1100	1100	11
6	(000)	0	0	0	0	0	0	2200	2200	22
1	(000)	1	0	0	1	0	1	3300	3300	33
4	(000)	0	0	0	0	0	0	4400	4400	44
7	(000)	1	0	0	1	0	1	5500	5500	55
2	(000)	0	0	0	0	0	0	6600	6600	66
5	(000)	1	0	0	1	0	1	7700	7700	77

124.351 $P4/mcc$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z_{4m,0}^+$								
\mathbb{Z}_4	weak	4^{001}	$2_{00\frac{1}{2}}^{100}$	i	$2_{00\frac{1}{2}}^{110}$	$\overline{4}^{001}$	$g_{00\frac{1}{2}}^{110}$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
1	(000)	0	0	1	0	1	1	1100
2	(000)	0	0	0	0	0	0	2200
3	(000)	0	0	1	0	1	1	3300

124.354 $P4'/mc'c$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$								
\mathbb{Z}_4	weak	4^{001*}	$2_{00\frac{1}{2}}^{100*}$	i	$2_{00\frac{1}{2}}^{110}$	$\overline{4}^{001*}$	$g_{00\frac{1}{2}}^{110}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
3	(000)	1	1	1	0	0	1	1100
2	(000)	0	0	0	0	0	0	2200
1	(000)	1	1	1	0	0	1	3300

124.355 $P4'/mcc'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$								
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\mathbb{Z}_4	weak	4^{001*}	$2^{100}_{00\frac{1}{2}}$	i	$2^{110}_{00\frac{1}{2}}*$	$\bar{4}^{001*}$	$g^{110}_{00\frac{1}{2}}*$	$Cm^{001}_{(2)}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
3	(000)	1	0	1	1	0	0	1100
2	(000)	0	0	0	0	0	0	2200
1	(000)	1	0	1	1	0	0	3300
124.356 $P4'/m'c'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	4^{001*}	$2^{100}_{00\frac{1}{2}}$	$i*$	$2^{110}_{00\frac{1}{2}}*$	$\bar{4}^{001}$	$g^{110}_{00\frac{1}{2}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	0	0	1	1	1	
124.357 $P4/mc'c'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{4,4}$ SI = $z_{4m,0}^+, z_{4m,\pi}^+$								
$\mathbb{Z}_{4,4}$	weak	4^{001}	$2^{100}_{00\frac{1}{2}}*$	i	$2^{110}_{00\frac{1}{2}}*$	$\bar{4}^{001}$	$g^{110}_{00\frac{1}{2}}*$	$Cm^{001}_{(4)}$
00	(000)	0	0	0	0	0	0	4400
00	(008)	0	0	0	0	0	$\bar{4}$	0844
00	(000)	0	0	0	0	0	0	0000
01	(002)	0	0	1	0	1	$\bar{1}$	0211
02	(004)	0	0	0	0	0	$\bar{2}$	0422
03	(006)	0	0	1	0	1	$\bar{3}$	0633
10	(000)	0	1	1	1	1	0	1100
11	(002)	0	1	0	1	0	$\bar{1}$	1111
12	(004)	0	1	1	1	1	$\bar{2}$	1322
13	(006)	0	1	0	1	0	$\bar{3}$	1533
20	(000)	0	0	0	0	0	0	2200
21	(002)	0	0	1	0	1	$\bar{1}$	2011
22	(004)	0	0	0	0	0	$\bar{2}$	2222
23	(006)	0	0	1	0	1	$\bar{3}$	2433
30	(000)	0	1	1	1	1	0	3300
31	(002)	0	1	0	1	0	$\bar{1}$	3111
32	(004)	0	1	1	1	1	$\bar{2}$	3122
33	(006)	0	1	0	1	0	$\bar{3}$	3333
124.358 $P4'/m'cc'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	4^{001*}	$2^{100}_{00\frac{1}{2}}*$	$i*$	$2^{110}_{00\frac{1}{2}}$	$\bar{4}^{001}$	$g^{110}_{00\frac{1}{2}}*$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	0	0	1	0	
124.360 P_c4/mcc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$								
\mathbb{Z}_4	weak	$\{1 00\frac{1}{2}\}*$	4^{001}	2^{100}_*	i	2^{110}_*	$\bar{4}^{001}$	$m_{1\bar{1}0}*$ $Cm^{001}_{(4)}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
1	(000)	1	0	1	1	1	1	0 1100
2	(000)	0	0	0	0	0	0	0 2200
3	(000)	1	0	1	1	1	1	0 3300
124.361 P_C4/mcc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$								
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	4^{001}	$2^{110}_{00\frac{1}{2}}$	i	$2^{010}_{00\frac{1}{2}}$	$\bar{4}^{001}$	$g^{100}_{00\frac{1}{2}}$ $Cm^{001}_{(4)}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
1	(000)	1	0	0	1	0	1	1100
2	(000)	0	0	0	0	0	0	2200
3	(000)	1	0	0	1	0	1	3300
124.362 P_I4/mcc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$								
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	4^{001}	$2^{100}_{00\frac{1}{2}}$	i	$2^{110}_{00\frac{1}{2}}$	$\bar{4}^{001}$	$g^{110}_{00\frac{1}{2}}$ $Cm^{001}_{(4)}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000

1	(000)	1	0	0	1	0	1	1	1100
2	(000)	0	0	0	0	0	0	0	2200
3	(000)	1	0	0	1	0	1	1	3300
125.363 $P4/nbm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}0}^{100}$	i	2^{110}	$4_{\frac{1}{2}00}^{001}$	$Cm_{(2)}^{110}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	22		
1	(000)	0	0	1	0	1	11		
125.366 $P4'/nb'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}*$	$2_{0\frac{1}{2}0}^{100}*$	i	2^{110}	$4_{\frac{1}{2}00}^{001}*$	$Cm_{(2)}^{110}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	22		
1	(000)	1	1	1	0	0	11		
125.367 $P4'/nbm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}*$	$2_{0\frac{1}{2}0}^{100}$	i	$2^{110}*$	$4_{\frac{1}{2}00}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	0	1	1	0	0		
125.368 $P4'/n'b'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}*$	$2_{0\frac{1}{2}0}^{100}$	$i*$	$2^{110}*$	$4_{\frac{1}{2}00}^{001}$	$Cm_{(0)}^{110}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	22		
1	(000)	1	0	0	1	1	11		
125.369 $P4/nb'm'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ $SI = z_{2,S_4}, z_{4C}$									
$\mathbb{Z}_{2,4}$	weak	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}0}^{100}*$	i	$2^{110}*$	$4_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$		
00	(000)	0	0	0	0	0	0		
00	(004)	0	0	0	0	0	0		
01	(001)	0	0	0	0	0	0		
02	(002)	0	0	0	0	0	0		
03	(003)	0	0	0	0	0	0		
10	(000)	0	1	1	1	1	0		
11	(001)	0	1	1	1	1	0		
12	(002)	0	1	1	1	1	0		
13	(003)	0	1	1	1	1	0		
125.370 $P4'/n'bm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}*$	$2_{0\frac{1}{2}0}^{100}*$	$i*$	2^{110}	$4_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	1	0	0	1	0		
125.372 P_4/nbm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$									
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}0}^{100}$	i	2^{110}	$4_{\frac{1}{2}00}^{001}$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	0	22	
1	(000)	1	0	0	1	0	1	11	
125.373 P_4/nbm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{0\frac{1}{2}0}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{110}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2_{\frac{1}{2}00}^{010}$	$4_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}00}^{100}*$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	0	0	22
0	(000)	0	0	0	0	0	0	0	22
1	(000)	1	1	1	0	0	1	0	11
125.374 P_4/nbm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}0}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	2^{110}	$4_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	0	22	

1	(000)	1	0	0	0	0	0	11
126.375 $P4/nnc$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	i	$2_{00\frac{1}{2}}^{110}$	$\bar{4}_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	0	1	0	1	1	
126.378 $P4'/nn'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001*}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100*}$	i	$2_{00\frac{1}{2}}^{110}$	$\bar{4}_{\frac{1}{2}00}^{001*}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	1	0	0	1	
126.379 $P4'/nnc'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001*}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	i	$2_{00\frac{1}{2}}^{110*}$	$\bar{4}_{\frac{1}{2}00}^{001*}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110*}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	0	1	1	0	0	
126.380 $P4'/n'n'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001*}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i*$	$2_{00\frac{1}{2}}^{110*}$	$\bar{4}_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	0	0	1	1	1	
126.381 $P4/nn'c'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2,S_4}, z_{4C}/2$								
$\mathbb{Z}_{2,2}$	weak	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100*}$	i	$2_{00\frac{1}{2}}^{110*}$	$\bar{4}_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110*}$	
00	(000)	0	0	0	0	0	0	
00	(004)	0	0	0	0	0	2	
01	(002)	0	1	0	1	0	1	
10	(000)	0	1	1	1	1	0	
11	(002)	0	0	1	0	1	1	
126.382 $P4'/n'nc'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001*}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100*}$	$i*$	$2_{00\frac{1}{2}}^{110}$	$\bar{4}_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110*}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	0	0	1	0	
126.384 P_C4/nnc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}0}^{100*}$	i	2_{000}^{110*}	$\bar{4}_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}0\frac{1}{2}}^{110*}$
0	(000)	0	0	0	0	0	0	0
1	(000)	1	0	1	1	1	1	0
126.385 P_C4/nnc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{0\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110*}$	$i_{\frac{1}{2}\frac{1}{2}0*}$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}$	$\bar{4}_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}0\frac{1}{2}}^{100*}$
0	(000)	0	0	0	0	0	0	0
1	(000)	1	1	1	0	0	1	0
126.386 P_I4/nnc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}*}$	$2_{00\frac{1}{2}}^{110}$	$\bar{4}_{0\frac{1}{2}\frac{1}{2}}^{001*}$	m_{110*}
0	(000)	0	0	0	0	0	0	0
1	(000)	1	0	0	0	0	0	0
127.387 $P4/mbm$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{4,4}$ SI = $z_{4m,0}^+, z_{4m,\pi}^+$								
$\mathbb{Z}_{4,4}$	weak	4^{001}	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$\bar{4}^{001}$	$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$
00	(000)	0	0	0	0	0	44	4400
00	(000)	0	0	0	0	0	44	0044
00	(000)	0	0	0	0	0	22	0000
00	(000)	0	0	0	0	0	22	0044
01	(000)	0	0	1	0	1	11	0011
02	(000)	0	0	0	0	0	22	0022
03	(000)	0	0	1	0	1	33	0033
10	(000)	0	0	1	0	1	11	1100

11	(000)	0	0	0	0	0	00	$\overline{1111}$
12	(000)	0	0	1	0	1	$\overline{11}$	$\overline{1122}$
13	(000)	0	0	0	0	0	$\overline{22}$	$\overline{1133}$
20	(000)	0	0	0	0	0	$\overline{22}$	$\overline{2200}$
21	(000)	0	0	1	0	1	$\overline{11}$	$\overline{2211}$
22	(000)	0	0	0	0	0	00	$\overline{2222}$
23	(000)	0	0	1	0	1	$\overline{11}$	$\overline{2233}$
30	(000)	0	0	1	0	1	$\overline{33}$	$\overline{3300}$
31	(000)	0	0	0	0	0	$\overline{22}$	$\overline{3311}$
32	(000)	0	0	1	0	1	$\overline{11}$	$\overline{3322}$
33	(000)	0	0	0	0	0	00	$\overline{3333}$
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127.390 $P4'/mb'm$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{2,4}$ $SI = z'_{2P,3}, z'_{4P}$								
$\mathbb{Z}_{2,4}$	weak	4^{001*}	$2_{\frac{1}{2}\frac{1}{2}0}^{100*}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$\overline{4}^{001*}$	$Cm_{(2)}^{110}$	$Cm_{(2)}^{001}$
00	(000)	0	0	0	0	0	44	$\overline{2222}$
00	(000)	0	0	0	0	0	44	$\overline{4400}$
00	(000)	0	0	0	0	0	$\overline{22}$	$\overline{0000}$
00	(000)	0	0	0	0	0	$\overline{22}$	$\overline{2222}$
03	(000)	1	1	1	0	0	$\overline{11}$	$\overline{1100}$
02	(000)	0	0	0	0	0	$\overline{22}$	$\overline{2200}$
01	(000)	1	1	1	0	0	$\overline{33}$	$\overline{3300}$
10	(000)	0	0	0	0	0	$\overline{22}$	$\overline{1111}$
13	(000)	1	1	1	0	0	$\overline{11}$	$\overline{0011}$
12	(000)	0	0	0	0	0	00	$\overline{1111}$
11	(000)	1	1	1	0	0	$\overline{11}$	$\overline{2211}$
<hr/>								
127.391 $P4'/mbm'$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_{2,4}$ $SI = z_{2m,\pi}^+, z_{4P}'$								
$\mathbb{Z}_{2,4}$	weak	4^{001*}	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$\overline{4}^{001*}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}$	$Cm_{(2)}^{001}$
00	(000)	0	0	0	0	0	0	$\overline{2222}$
00	(000)	0	0	0	0	0	0	$\overline{4400}$
00	(000)	0	0	0	0	0	0	$\overline{2222}$
03	(000)	1	0	1	1	0	0	$\overline{1100}$
02	(000)	0	0	0	0	0	0	$\overline{2200}$
01	(000)	1	0	1	1	0	0	$\overline{3300}$
10	(000)	0	0	0	0	0	0	$\overline{1111}$
13	(000)	1	0	1	1	0	0	$\overline{0011}$
12	(000)	0	0	0	0	0	0	$\overline{1111}$
11	(000)	1	0	1	1	0	0	$\overline{2211}$
<hr/>								
127.392 $P4'/m'b'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$								
\mathbb{Z}_2	weak	4^{001*}	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	i^*	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$\overline{4}^{001}$	$Cm_{(0)}^{110}$	
0	(000)	0	0	0	0	0	$\overline{22}$	
0	(000)	0	0	0	0	0	$\overline{22}$	
1	(000)	1	0	0	1	1	$\overline{11}$	
<hr/>								
127.393 $P4'/mb'm'$ Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{4,4,4}$ $SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m,\pi}^+$								
$\mathbb{Z}_{4,4,4}$	weak	4^{001}	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$\overline{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}$	$Cm_{(4)}^{001}$
000	(0012)	0	0	0	0	0	0	$\overline{4, 16, 0, 12}$
000	(004)	0	0	0	0	0	0	$\overline{0404}$
000	(000)	0	0	0	0	0	0	$\overline{0044}$
000	(000)	0	0	0	0	0	0	$\overline{0044}$
001	(000)	0	1	1	1	1	0	$\overline{0011}$
002	(000)	0	0	0	0	0	0	$\overline{0022}$
003	(000)	0	1	1	1	1	0	$\overline{0033}$
010	(001)	0	1	1	1	1	0	$\overline{0101}$
011	(001)	0	0	0	0	0	0	$\overline{0110}$
012	(001)	0	1	1	1	1	0	$\overline{0121}$

013	(001)	0	0	0	0	0	0	0132
020	(002)	0	0	0	0	0	0	0202
021	(002)	0	1	1	1	1	0	0211
022	(002)	0	0	0	0	0	0	0220
023	(002)	0	1	1	1	1	0	0231
030	(003)	0	1	1	1	1	0	0303
031	(003)	0	0	0	0	0	0	0312
032	(003)	0	1	1	1	1	0	0321
033	(003)	0	0	0	0	0	0	0330
100	(003)	0	0	0	0	0	0	1403
101	(003)	0	1	1	1	1	0	1414
102	(003)	0	0	0	0	0	0	1425
103	(003)	0	1	1	1	1	0	1436
110	(002)	0	1	1	1	1	0	1302
111	(002)	0	0	0	0	0	0	1313
112	(002)	0	1	1	1	1	0	1324
113	(002)	0	0	0	0	0	0	1335
120	(001)	0	0	0	0	0	0	1201
121	(001)	0	1	1	1	1	0	1212
122	(001)	0	0	0	0	0	0	1223
123	(001)	0	1	1	1	1	0	1234
130	(000)	0	1	1	1	1	0	1100
131	(000)	0	0	0	0	0	0	1111
132	(000)	0	1	1	1	1	0	1122
133	(000)	0	0	0	0	0	0	1133
200	(006)	0	0	0	0	0	0	2806
201	(006)	0	1	1	1	1	0	2817
202	(006)	0	0	0	0	0	0	2828
203	(006)	0	1	1	1	1	0	2839
210	(005)	0	1	1	1	1	0	2705
211	(005)	0	0	0	0	0	0	2716
212	(005)	0	1	1	1	1	0	2727
213	(005)	0	0	0	0	0	0	2738
220	(004)	0	0	0	0	0	0	2604
221	(004)	0	1	1	1	1	0	2615
222	(004)	0	0	0	0	0	0	2626
223	(004)	0	1	1	1	1	0	2637
230	(003)	0	1	1	1	1	0	2503
231	(003)	0	0	0	0	0	0	2514
232	(003)	0	1	1	1	1	0	2525
233	(003)	0	0	0	0	0	0	2536
300	(009)	0	0	0	0	0	0	3, 12, 0, 9
301	(009)	0	1	1	1	1	0	3, 12, 1, 10
302	(009)	0	0	0	0	0	0	3, 12, 2, 11
303	(009)	0	1	1	1	1	0	3, 12, 3, 12
310	(008)	0	1	1	1	1	0	3, 11, 0, 8
311	(008)	0	0	0	0	0	0	3, 11, 1, 9
312	(008)	0	1	1	1	1	0	3, 11, 2, 10
313	(008)	0	0	0	0	0	0	3, 11, 3, 11
320	(007)	0	0	0	0	0	0	3, 10, 0, 7
321	(007)	0	1	1	1	1	0	3, 10, 1, 8
322	(007)	0	0	0	0	0	0	3, 10, 2, 9
323	(007)	0	1	1	1	1	0	3, 10, 3, 10
330	(006)	0	1	1	1	1	0	3906
331	(006)	0	0	0	0	0	0	3917

332	(006)	0	1	1	1	1	0	3928	
333	(006)	0	0	0	0	0	0	3939	
127.394 $P4'/m'bm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$									
\mathbb{Z}_2	weak	4^{001*}	$2_{\frac{1}{2}\frac{1}{2}0}^{100*}$	i^*	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110*}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	1	0	0	1	0		
127.396 P_4/mbm Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ $SI = z_{4m,0}^+$									
\mathbb{Z}_4	weak	$\{1 00\frac{1}{2}\}^*$	4^{001}	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$\bar{4}^{001}$	$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	44	4400
0	(000)	0	0	0	0	0	0	22	0000
0	(000)	0	0	0	0	0	0	22	0000
1	(000)	1	0	0	1	0	1	11	1100
2	(000)	0	0	0	0	0	0	22	2200
3	(000)	1	0	0	1	0	1	33	3300
127.397 P_C4/mbm Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{4,4}$ $SI = z_{4m,0}^+, z_{4m,\pi}^+$									
$\mathbb{Z}_{4,4}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$4_{\frac{1}{2}\frac{1}{2}0}^{001*}$	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	i	2^{010*}	$4_{\frac{1}{2}\frac{1}{2}0}^{001*}$	m_{100}^*	$Cm_{(2)}^{110}$ $Cm_{(4)}^{001}$
00	(000)	0	0	0	0	0	0	0	44 4400
00	(000)	0	0	0	0	0	0	0	44 0044
00	(000)	0	0	0	0	0	0	0	22 0000
00	(000)	0	0	0	0	0	0	0	22 0044
01	(000)	1	1	0	1	1	0	0	11 0011
02	(000)	0	0	0	0	0	0	0	22 0022
03	(000)	1	1	0	1	1	0	0	33 0033
10	(000)	1	1	0	1	1	0	0	11 1100
11	(000)	0	0	0	0	0	0	0	00 1111
12	(000)	1	1	0	1	1	0	0	11 1122
13	(000)	0	0	0	0	0	0	0	22 1133
20	(000)	0	0	0	0	0	0	0	22 2200
21	(000)	1	1	0	1	1	0	0	11 2211
22	(000)	0	0	0	0	0	0	0	00 2222
23	(000)	1	1	0	1	1	0	0	11 2233
30	(000)	1	1	0	1	1	0	0	33 3300
31	(000)	0	0	0	0	0	0	0	22 3311
32	(000)	1	1	0	1	1	0	0	11 3322
33	(000)	0	0	0	0	0	0	0	00 3333
127.398 P_14/mbm Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ $SI = z_{4m,0}^+$									
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	4^{001}	$2_{00\frac{1}{2}}^{100*}$	i	$2_{00\frac{1}{2}}^{110*}$	$\bar{4}^{001}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	0	4400	44
0	(000)	0	0	0	0	0	0	0000	22
0	(000)	0	0	0	0	0	0	0000	22
1	(000)	1	0	1	1	1	1	1100	11
2	(000)	0	0	0	0	0	0	2200	22
3	(000)	1	0	1	1	1	1	3300	33
128.399 $P4/mnc$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z_{4m,0}^+$									
\mathbb{Z}_4	weak	4^{001}	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$Cm_{(4)}^{001}$	
0	(000)	0	0	0	0	0	0	4400	
0	(000)	0	0	0	0	0	0	0000	
1	(000)	0	0	1	0	1	1	1100	
2	(000)	0	0	0	0	0	0	2200	
3	(000)	0	0	1	0	1	1	3300	
128.402 $P4'/mn'c$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z_{4P}'$									
\mathbb{Z}_4	weak	4^{001*}	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100*}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\bar{4}^{001*}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$Cm_{(2)}^{001}$	

0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
3	(000)	1	1	1	0	0	1	1100
2	(000)	0	0	0	0	0	0	2200
1	(000)	1	1	1	0	0	1	3300
128.403 $P4'/mnc'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	4^{001*}	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	i	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$\bar{4}^{001*}$	$g^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$Cm^{001}_{(2)}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
3	(000)	1	0	1	1	0	0	1100
2	(000)	0	0	0	0	0	0	2200
1	(000)	1	0	1	1	0	0	3300
128.404 $P4'/m'n'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	4^{001*}	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$i*$	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$\bar{4}^{001}$	$g^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	0	0	1	1	1	
128.405 $P4/mn'c'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{4,4}$ SI = $z_{4m,0}^+, z_{4m,\pi}^+$								
$\mathbb{Z}_{4,4}$	weak	4^{001}	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	i	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$\bar{4}^{001}$	$g^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$Cm^{001}_{(4)}$
00	(000)	0	0	0	0	0	0	4400
00	(008)	0	0	0	0	0	4	0844
00	(000)	0	0	0	0	0	0	0000
01	(002)	0	0	1	0	1	1	0211
02	(004)	0	0	0	0	0	2	0422
03	(006)	0	0	1	0	1	3	0633
10	(000)	0	1	1	1	1	0	1100
11	(002)	0	1	0	1	0	1	1111
12	(004)	0	1	1	1	1	2	1322
13	(006)	0	1	0	1	0	3	1533
20	(000)	0	0	0	0	0	0	2200
21	(002)	0	0	1	0	1	1	2011
22	(004)	0	0	0	0	0	2	2222
23	(006)	0	0	1	0	1	3	2433
30	(000)	0	1	1	1	1	0	3300
31	(002)	0	1	0	1	0	1	3111
32	(004)	0	1	1	1	1	2	3122
33	(006)	0	1	0	1	0	3	3333
128.406 $P4'/m'nc'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	4^{001*}	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$i*$	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$\bar{4}^{001}$	$g^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	0	0	1	0	
128.408 P_c4/mnc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$								
\mathbb{Z}_4	weak	$\{1 00\frac{1}{2}\}*$	4^{001}	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}}*}$	i	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}}*}$	$\bar{4}^{001}$	$g^{\frac{110}{\frac{1}{2}\frac{1}{2}}*}$ $Cm^{001}_{(4)}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
1	(000)	1	0	1	1	1	1	0 1100
2	(000)	0	0	0	0	0	0	0 2200
3	(000)	1	0	1	1	1	1	0 3300
128.409 P_c4/mnc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$								
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}}*}$	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}}}$	i	$2^{\frac{010}{00\frac{1}{2}}*}$	$\bar{4}^{\frac{001}{\frac{1}{2}\frac{1}{2}}0*}$	$g^{\frac{100}{00\frac{1}{2}}*}$ $Cm^{001}_{(4)}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
1	(000)	1	1	0	1	1	0	1100

2	(000)	0	0	0	0	0	0	0	2200
3	(000)	1	1	0	1	1	0	0	3300
128.410 P_I4/mnc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$									
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	4^{001}	2^{100}_*	i	2^{110}_*	4^{001}	$m_{1\bar{1}0}^*$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0	0000
1	(000)	1	0	1	1	1	1	0	1100
2	(000)	0	0	0	0	0	0	0	2200
3	(000)	1	0	1	1	1	1	0	3300
129.411 $P4/nmm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{2}00}$	$2^{100}_{\frac{1}{2}00}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$4^{001}_{\frac{1}{2}00}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	2200	22	
0	(000)	0	0	0	0	0	2200	00	
0	(000)	0	0	0	0	0	0000	22	
1	(000)	0	0	1	0	1	1100	11	
129.414 $P4'/nm'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{2}00}^*$	$2^{100}_{\frac{1}{2}00}^*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$4^{001}_{\frac{1}{2}00}^*$	$Cm_{(2)}^{110}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	22		
1	(000)	1	1	1	0	0	11		
129.415 $P4'/nmm'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{2}00}^*$	$2^{100}_{\frac{1}{2}00}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}^*$	$4^{001}_{\frac{1}{2}00}^*$	$m_{1\bar{1}0}^*$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	0	0	2200	
0	(000)	0	0	0	0	0	0	2200	
1	(000)	1	0	1	1	0	0	1100	
129.416 $P4'/n'm'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{2}00}^*$	$2^{100}_{\frac{1}{2}00}$	i^*	$2^{110}_{\frac{1}{2}\frac{1}{2}0}^*$	$4^{001}_{\frac{1}{2}00}$	$Cm_{(0)}^{110}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	22		
1	(000)	1	0	0	1	1	11		
129.417 $P4/nm'm'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ SI = z_{2,S_4}, z_{4C}									
$\mathbb{Z}_{2,4}$	weak	$4^{001}_{\frac{1}{2}00}$	$2^{100}_{\frac{1}{2}00}^*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}^*$	$4^{001}_{\frac{1}{2}00}$	$m_{1\bar{1}0}^*$		
00	(000)	0	0	0	0	0	0		
00	(004)	0	0	0	0	0	0		
03	(001)	0	0	0	0	0	0		
02	(002)	0	0	0	0	0	0		
01	(003)	0	0	0	0	0	0		
10	(000)	0	1	1	1	1	0		
13	(001)	0	1	1	1	1	0		
12	(002)	0	1	1	1	1	0		
11	(003)	0	1	1	1	1	0		
129.418 $P4'/n'mm'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{2}00}^*$	$2^{100}_{\frac{1}{2}00}^*$	i^*	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$4^{001}_{\frac{1}{2}00}$	$m_{1\bar{1}0}^*$	$Cm_{(0)}^{100}$	
0	(000)	0	0	0	0	0	0	2200	
0	(000)	0	0	0	0	0	0	2200	
1	(000)	1	1	0	0	1	0	1100	
129.420 P_c4/nmm Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$4^{001}_{\frac{1}{2}00}$	$2^{100}_{\frac{1}{2}00}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$4^{001}_{\frac{1}{2}00}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	0	2200	22
0	(000)	0	0	0	0	0	0	2200	00
0	(000)	0	0	0	0	0	0	0000	22

1	(000)	1	0	0	1	0	1	1100	11
129.421 P_C4/nmm Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$4_{\frac{1}{2}00}^{001}$	2_{000}^{110}	$i_{\frac{1}{2}\frac{1}{2}0}^*$	$2_{\frac{1}{2}00}^{010}$	$4_{0\frac{1}{2}0}^{001}$	$Cm_{(2)}^{110}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	0	22	2200
0	(000)	0	0	0	0	0	0	22	0000
0	(000)	0	0	0	0	0	0	00	2200
1	(000)	1	0	1	0	1	0	11	1100
129.422 P_I4/nmm Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$2_{00\frac{1}{2}}^{110}$	$4_{0\frac{1}{2}\frac{1}{2}}^{001}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	0	2200	22
0	(000)	0	0	0	0	0	0	2200	00
0	(000)	0	0	0	0	0	0	0000	22
1	(000)	1	0	1	0	1	0	1100	11
130.423 $P4/ncc$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}00}^{001}$	$g_{00\frac{1}{2}}^{110}$		
0	(000)	0	0	0	0	0	0		
1	(000)	0	0	1	0	1	1		
130.426 $P4'/nc'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}00}^{001}$	$g_{00\frac{1}{2}}^{110}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	1	1	0	0	1		
130.427 $P4'/ncc'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}00}^{001}$	$g_{00\frac{1}{2}}^{110}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	0	1	1	0	0		
130.428 $P4'/n'c'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$	i^*	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}00}^{001}$	$g_{00\frac{1}{2}}^{110}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	0	0	1	1	1		
130.429 $P4/nc'c'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ SI = z_{2,S_4}, z'_{4C}									
$\mathbb{Z}_{2,4}$	weak	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}00}^{001}$	$g_{00\frac{1}{2}}^{110}$		
00	(000)	0	0	0	0	0	0		
00	(008)	0	0	0	0	0	4		
01	(002)	0	1	0	1	0	1		
02	(004)	0	0	0	0	0	2		
03	(006)	0	1	0	1	0	3		
10	(000)	0	1	1	1	1	0		
11	(002)	0	0	1	0	1	1		
12	(004)	0	1	1	1	1	2		
13	(006)	0	0	1	0	1	3		
130.430 $P4'/n'cc'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$	i^*	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}00}^{001}$	$g_{00\frac{1}{2}}^{110}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	1	0	0	1	0		
130.432 P_c4/ncc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}00}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$4_{\frac{1}{2}00}^{001}$	$m_{1\bar{1}0}^*$	
0	(000)	0	0	0	0	0	0	0	
1	(000)	1	0	1	1	1	1	0	
130.433 P_C4/ncc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$4_{\frac{1}{2}00}^{001}$	$2_{00\frac{1}{2}}^{110}$	$i_{\frac{1}{2}\frac{1}{2}0}^*$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}$	$4_{0\frac{1}{2}0}^{001}$	$g_{\frac{1}{2}0\frac{1}{2}}^{100}$	

0	(000)	0	0	0	0	0	0	0
1	(000)	1	0	1	0	1	0	1

130.434 P_14/ncc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}0}^{100}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$2^{110}*$	$4_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$g_{00\frac{1}{2}}^{110}$
0	(000)	0	0	0	0	0	0	0
1	(000)	1	0	1	0	1	0	1

131.435 $P4_2/mmc$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z'_{2P,1}, z'_{4P}$									
$\mathbb{Z}_{2,4}$	weak	$4_{00\frac{1}{2}}^{001}$	2^{100}	i	$2_{00\frac{1}{2}}^{110}$	$4_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{110}$	$Cm_{(2)}^{100}$	$Cm_{(4)}^{001}$
00	(000)	0	0	0	0	0	0	2222	0000
00	(000)	0	0	0	0	0	0	4400	4400
00	(000)	0	0	0	0	0	0	0022	0000
00	(000)	0	0	0	0	0	0	2200	0000
03	(000)	0	0	1	0	1	1	1100	1100
02	(000)	0	0	0	0	0	0	2200	2200
01	(000)	0	0	1	0	1	1	3300	3300
10	(000)	0	0	0	0	0	0	1111	0000
13	(000)	0	0	1	0	1	1	2211	1100
12	(000)	0	0	0	0	0	0	3311	2200
11	(000)	0	0	1	0	1	1	4411	3300

131.438 $P4'_2/mm'c$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}*$	$2^{100}*$	i	$2_{00\frac{1}{2}}^{110}$	$4_{00\frac{1}{2}}^{001}*$	$g_{00\frac{1}{2}}^{110}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	0	2200
1	(000)	1	1	1	0	0	1	1100

131.439 $P4'_2/mmc'$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z'_{2P,1}, z'_{4P}$									
$\mathbb{Z}_{2,4}$	weak	$4_{00\frac{1}{2}}^{001}*$	2^{100}	i	$2_{00\frac{1}{2}}^{110}*$	$4_{00\frac{1}{2}}^{001}*$	$g_{00\frac{1}{2}}^{110}*$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{001}$
00	(000)	0	0	0	0	0	0	2222	0000
00	(000)	0	0	0	0	0	0	4400	4400
00	(000)	0	0	0	0	0	0	0022	0000
00	(000)	0	0	0	0	0	0	2200	0000
03	(000)	1	0	1	1	0	0	1100	1100
02	(000)	0	0	0	0	0	0	2200	2200
01	(000)	1	0	1	1	0	0	3300	3300
10	(000)	0	0	0	0	0	0	1111	0000
13	(000)	1	0	1	1	0	0	2211	1100
12	(000)	0	0	0	0	0	0	3311	2200
11	(000)	1	0	1	1	0	0	4411	3300

131.440 $P4'_2/m'm'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}							
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}*$	2^{100}	$i*$	$2_{00\frac{1}{2}}^{110}*$	$4_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{110}$
0	(000)	0	0	0	0	0	0
1	(000)	1	0	0	1	1	1

131.441 $P4_2/mm'c'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z_{2m,\pi}^+, z_{4m,0}^+$								
$\mathbb{Z}_{2,4}$	weak	$4_{00\frac{1}{2}}^{001}$	$2^{100}*$	i	$2_{00\frac{1}{2}}^{110}*$	$4_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{110}*$	$Cm_{(4)}^{001}$
00	(004)	2	0	0	0	0	2	0422
00	(000)	0	0	0	0	0	0	4400
00	(000)	0	0	0	0	0	0	0000
01	(000)	0	1	1	1	1	0	1100
02	(000)	0	0	0	0	0	0	2200
03	(000)	0	1	1	1	1	0	3300
10	(002)	1	1	1	0	0	1	0211
11	(002)	1	0	0	1	1	1	1111
12	(002)	1	1	1	0	0	1	2011

13	(002)	1	0	0	1	1	1	3111		
131.442 $P4_2'/m'mc'$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$										
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}*$	$2^{100}*$	$i*$	$2_{00\frac{1}{2}}^{110}$	$4_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{110}*$	$Cm_{(0)}^{100}$		
0	(000)	0	0	0	0	0	0	2200		
0	(000)	0	0	0	0	0	0	1111		
0	(000)	0	0	0	0	0	0	1111		
1	(000)	1	1	0	0	1	0	1100		
131.444 P_c4_2/mmc Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{2,4}$ $SI = z'_{2P,1}, z'_{4P}$										
$\mathbb{Z}_{2,4}$	weak	$\{1 00\frac{1}{2}\}*$	$4^{001}*$	2^{100}	i	$2^{110}*$	$4^{001}*$	$m_{1\bar{1}0}*$	$Cm_{(2)}^{100}$	$Cm_{(4)}^{001}$
00	(000)	0	0	0	0	0	0	0	2222	0000
00	(000)	0	0	0	0	0	0	0	4400	4400
00	(000)	0	0	0	0	0	0	0	0022	0000
00	(000)	0	0	0	0	0	0	0	2200	0000
03	(000)	1	1	0	1	1	0	0	1100	1100
02	(000)	0	0	0	0	0	0	0	2200	2200
01	(000)	1	1	0	1	1	0	0	3300	3300
10	(000)	0	0	0	0	0	0	0	1111	0000
13	(000)	1	1	0	1	1	0	0	2211	1100
12	(000)	0	0	0	0	0	0	0	3311	2200
11	(000)	1	1	0	1	1	0	0	4411	3300
131.445 P_C4_2/mmc Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$										
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{00\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{110}$	i	2^{010}	$4_{00\frac{1}{2}}^{001}$	$Cm_{(2)}^{010}$	$Cm_{(4)}^{001}$	
0	(000)	0	0	0	0	0	0	4400	4400	
0	(000)	0	0	0	0	0	0	2200	0000	
0	(000)	0	0	0	0	0	0	2200	0000	
3	(000)	1	0	0	1	0	1	1100	1100	
2	(000)	0	0	0	0	0	0	2200	2200	
1	(000)	1	0	0	1	0	1	3300	3300	
131.446 P_I4_2/mmc Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$										
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}*$	2^{100}	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}*$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	$Cm_{(2)}^{010}$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	0	4400	4400
0	(000)	0	0	0	0	0	0	0	2200	0000
0	(000)	0	0	0	0	0	0	0	2200	0000
3	(000)	1	1	0	1	1	0	0	1100	1100
2	(000)	0	0	0	0	0	0	0	2200	2200
1	(000)	1	1	0	1	1	0	0	3300	3300
132.447 $P4_2/mcm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$										
\mathbb{Z}_4	weak	$4_{00\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{100}$	i	2^{110}	$4_{00\frac{1}{2}}^{001}$	$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$		
0	(000)	0	0	0	0	0	44	4400		
0	(000)	0	0	0	0	0	22	0000		
0	(000)	0	0	0	0	0	22	0000		
3	(000)	0	0	1	0	1	11	1100		
2	(000)	0	0	0	0	0	22	2200		
1	(000)	0	0	1	0	1	33	3300		
132.450 $P4_2'/mc'm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$										
\mathbb{Z}_4	weak	$4_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{100}*$	i	2^{110}	$4_{00\frac{1}{2}}^{001}*$	$Cm_{(2)}^{110}$	$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	44	4400		
0	(000)	0	0	0	0	0	22	0000		
0	(000)	0	0	0	0	0	22	0000		
3	(000)	1	1	1	0	0	11	1100		
2	(000)	0	0	0	0	0	22	2200		
1	(000)	1	1	1	0	0	33	3300		

132.451 $P4_2'/mcm'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}										
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{100}$	i	$2^{110}*$	$4_{00\frac{1}{2}}^{001}*$	$m_{110}*$	$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	0	2200		
0	(000)	0	0	0	0	0	0	2200		
1	(000)	1	0	1	1	0	0	1100		
132.452 $P4_2'/m'c'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}										
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{100}$	$i*$	$2^{110}*$	$4_{00\frac{1}{2}}^{001}$	$Cm_{(0)}^{110}$			
0	(000)	0	0	0	0	0	22			
0	(000)	0	0	0	0	0	22			
1	(000)	1	0	0	1	1	11			
132.453 $P4_2/mc'm'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z_{2m,\pi}^+, z_{4m,0}^+$										
$\mathbb{Z}_{2,4}$	weak	$4_{00\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{100}*$	i	$2^{110}*$	$4_{00\frac{1}{2}}^{001}$	$m_{110}*$	$Cm_{(4)}^{001}$		
00	(004)	2	0	0	0	0	0	0422		
00	(000)	0	0	0	0	0	0	4400		
00	(000)	0	0	0	0	0	0	0000		
01	(000)	0	1	1	1	1	0	1100		
02	(000)	0	0	0	0	0	0	2200		
03	(000)	0	1	1	1	1	0	3300		
10	(002)	1	0	1	1	0	0	0211		
11	(002)	1	1	0	0	1	0	1111		
12	(002)	1	0	1	1	0	0	2011		
13	(002)	1	1	0	0	1	0	3111		
132.454 $P4_2'/m'cm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}										
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{100}*$	$i*$	2^{110}	$4_{00\frac{1}{2}}^{001}$	$m_{110}*$			
0	(000)	0	0	0	0	0	0			
1	(000)	1	1	0	0	1	0			
132.456 P_c4_2/mcm Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}										
\mathbb{Z}_4	weak	$\{1 00\frac{1}{2}\}*$	$4^{001}*$	$2^{100}*$	i	2^{110}	$4^{001}*$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	4400	44	
0	(000)	0	0	0	0	0	0	0000	22	
0	(000)	0	0	0	0	0	0	0000	22	
3	(000)	1	1	1	1	0	0	1100	11	
2	(000)	0	0	0	0	0	0	2200	22	
1	(000)	1	1	1	1	0	0	3300	33	
132.457 P_C4_2/mcm Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}										
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{00\frac{1}{2}}^{001}$	2^{110}	i	$2_{00\frac{1}{2}}^{010}$	$4_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{100}$	$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	0	44	4400
0	(000)	0	0	0	0	0	0	0	22	0000
0	(000)	0	0	0	0	0	0	0	22	0000
3	(000)	1	0	0	1	0	1	1	11	1100
2	(000)	0	0	0	0	0	0	0	22	2200
1	(000)	1	0	0	1	0	1	1	33	3300
132.458 P_I4_2/mcm Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}										
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{\frac{1}{2}0}^{001}*$	$2_{00\frac{1}{2}}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}*$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	4400	44	
0	(000)	0	0	0	0	0	0	0000	22	
0	(000)	0	0	0	0	0	0	0000	22	
3	(000)	1	1	0	1	1	0	1100	11	
2	(000)	0	0	0	0	0	0	2200	22	
1	(000)	1	1	0	1	1	0	3300	33	
133.459 $P4_2/nbc$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}										
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}0}^{100}$	i	$2_{00\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$			

0	(000)	0	0	0	0	0	0
1	(000)	0	0	1	0	1	1
133.462 $P4'_2/nb'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}0}^{100}*$	i	$2_{00\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
0	(000)	0	0	0	0	0	0
1	(000)	1	1	1	0	0	1
133.463 $P4'_2/nbc'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}0}^{100}$	i	$2_{00\frac{1}{2}}^{110}*$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$
0	(000)	0	0	0	0	0	0
1	(000)	1	0	1	1	0	0
133.464 $P4'_2/n'b'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}							
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}0}^{100}$	$i*$	$2_{00\frac{1}{2}}^{110}*$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
0	(000)	0	0	0	0	0	0
1	(000)	1	0	0	1	1	1
133.465 $P4_2/nb'c'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2,S_4}, z_{4C}/2$							
$\mathbb{Z}_{2,2}$	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}0}^{100}*$	i	$2_{00\frac{1}{2}}^{110}*$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$
00	(000)	0	0	0	0	0	0
00	(004)	2	0	0	0	0	2
01	(002)	1	1	1	0	0	1
10	(000)	0	1	1	1	1	0
11	(002)	1	0	0	1	1	1
133.466 $P4'_2/n'bc'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}							
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}0}^{100}*$	$i*$	$2_{00\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$
0	(000)	0	0	0	0	0	0
1	(000)	1	1	0	0	1	0
133.468 P_c4_2/nbc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$4_{\frac{1}{2}00}^{001}*$	$2_{0\frac{1}{2}0}^{100}$	i	$2_{000}^{110}*$	$4_{\frac{1}{2}00}^{001}*$ $g_{\frac{1}{2}\frac{1}{2}0}^{110}*$
0	(000)	0	0	0	0	0	0
1	(000)	1	1	0	1	1	0
133.469 P_C4_2/nbc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2_{\frac{1}{2}00}^{010}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$ $g_{\frac{1}{2}00}^{100}*$
0	(000)	0	0	0	0	0	0
1	(000)	1	1	1	0	0	1
133.470 P_I4_2/nbc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{0\frac{1}{2}0}^{001}*$	$2_{0\frac{1}{2}0}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{110}*$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
0	(000)	0	0	0	0	0	0
1	(000)	1	1	0	0	1	1
134.471 $P4_2/nnm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	i	2^{110}	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	22
0	(000)	0	0	0	0	0	22
1	(000)	0	0	1	0	1	11
134.474 $P4'_2/nn'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	i	2^{110}	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	22
0	(000)	0	0	0	0	0	22
1	(000)	1	1	1	0	0	11
134.475 $P4'_2/nnm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	i	$2^{110}*$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$
0	(000)	0	0	0	0	0	0

1	(000)	1	0	1	1	0	0		
134.476 $P4_2/n'n'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i*$	$2^{110}*$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$Cm_{(0)}^{110}$		
0	(000)	0	0	0	0	0	$\overline{22}$		
0	(000)	0	0	0	0	0	$\overline{22}$		
1	(000)	1	0	0	1	1	11		
134.477 $P4_2/nn'm'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2,S_4}, z_{4C}/2$									
$\mathbb{Z}_{2,2}$	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	i	$2^{110}*$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$		
00	(000)	0	0	0	0	0	0		
00	(004)	2	0	0	0	0	0		
01	(002)	1	0	1	1	0	0		
10	(000)	0	1	1	1	1	0		
11	(002)	1	1	0	0	1	0		
134.478 $P4_2'/n'nm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i*$	2^{110}	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	1	0	0	1	0		
134.480 P_c4_2/nnm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}0}^{100}$	i	2_{000}^{110}	$4_{\frac{1}{2}00}^{001}$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	$\overline{22}$	
0	(000)	0	0	0	0	0	0	$\overline{22}$	
1	(000)	1	1	1	1	0	0	11	
134.481 P_C4_2/nnm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{0\frac{1}{2}\frac{1}{2}}^{001}$	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$i_{\frac{1}{2}\frac{1}{2}0}$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}0\frac{1}{2}}^{100}*$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	0	0	$\overline{22}$
0	(000)	0	0	0	0	0	0	0	$\overline{22}$
1	(000)	1	1	1	0	0	1	0	11
134.482 P_I4_2/nnm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	$\overline{22}$	
0	(000)	0	0	0	0	0	0	$\overline{22}$	
1	(000)	1	1	0	0	1	1	11	
135.483 $P4_2/mbc$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$									
\mathbb{Z}_4	weak	$4_{00\frac{1}{2}}^{001}$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{00\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$Cm_{(4)}^{001}$	
0	(000)	0	0	0	0	0	0	4400	
0	(000)	0	0	0	0	0	0	0000	
1	(000)	0	0	1	0	1	1	1100	
2	(000)	0	0	0	0	0	0	2200	
3	(000)	0	0	1	0	1	1	3300	
135.486 $P4_2'/mb'c$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{00\frac{1}{2}}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$Cm_{(2)}^{001}$	
0	(000)	0	0	0	0	0	0	2200	
0	(000)	0	0	0	0	0	0	2200	
1	(000)	1	1	1	0	0	1	1100	
135.487 $P4_2'/mb'c'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4,135.487}$									
\mathbb{Z}_4	weak	$4_{00\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{00\frac{1}{2}}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$Cm_{(2)}^{001}$	
0	(000)	0	0	0	0	0	0	4400	
0	(000)	0	0	0	0	0	0	0000	
3	(000)	1	0	1	1	0	0	1100	
2	(000)	0	0	0	0	0	0	2200	
1	(000)	1	0	1	1	0	0	3300	

135.488 $P4'_2/m'b'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	$i*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$	$4_{00\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	0	0	1	1	1	
135.489 $P4_2/m'b'c'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z_{2m,\pi}^+, z_{4m,0}^+$								
$\mathbb{Z}_{2,4}$	weak	$4_{00\frac{1}{2}}^{001}$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}*$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$	$4_{00\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$	$Cm_{(4)}^{001}$
00	(004)	2	0	0	0	0	2	0422
00	(000)	0	0	0	0	0	0	4400
00	(000)	0	0	0	0	0	0	0000
01	(000)	0	1	1	1	1	0	1100
02	(000)	0	0	0	0	0	0	2200
03	(000)	0	1	1	1	1	0	3300
10	(002)	1	1	1	0	0	1	0211
11	(002)	1	0	0	1	1	1	1111
12	(002)	1	1	1	0	0	1	2011
13	(002)	1	0	0	1	1	1	3111
135.490 $P4'_2/m'bc'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}*$	$i*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{00\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	0	0	1	0	
135.492 P_C4_2/mbc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$								
\mathbb{Z}_4	weak	$\{1 00\frac{1}{2}\}*$	$4^{001}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}*$	$4^{001}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$ $Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
1	(000)	1	1	0	1	1	0	1100
2	(000)	0	0	0	0	0	0	2200
3	(000)	1	1	0	1	1	0	3300
135.493 P_C4_2/mbc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$								
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	i	$2^{010}*$	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}*$	$m_{100}*$ $Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
1	(000)	1	1	0	1	1	0	1100
2	(000)	0	0	0	0	0	0	2200
3	(000)	1	1	0	1	1	0	3300
135.494 P_I4_2/mbc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$								
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}*$	$2_{00\frac{1}{2}}^{100}*$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ $Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
1	(000)	1	1	1	1	0	0	1100
2	(000)	0	0	0	0	0	0	2200
3	(000)	1	1	1	1	0	0	3300
136.495 $P4_2/mnm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	i	2^{110}	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	44	4400
0	(000)	0	0	0	0	0	22	0000
0	(000)	0	0	0	0	0	22	0000
3	(000)	0	0	1	0	1	11	1100
2	(000)	0	0	0	0	0	22	2200
1	(000)	0	0	1	0	1	33	3300
136.498 $P4'_2/mn'm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}*$	i	2^{110}	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}*$	$Cm_{(2)}^{110}$	$Cm_{(2)}^{001}$

0	(000)	0	0	0	0	0	44	4400
0	(000)	0	0	0	0	0	22	0000
0	(000)	0	0	0	0	0	22	0000
3	(000)	1	1	1	0	0	11	1100
2	(000)	0	0	0	0	0	22	2200
1	(000)	1	1	1	0	0	33	3300
136.499 $P4'_2/mnm'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	i	2^{110*}	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$m_{1\bar{1}0*}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	0	2200
1	(000)	1	0	1	1	0	0	1100
136.500 $P4'_2/m'n'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$i*$	2^{110*}	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$Cm_{(0)}^{110}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	1	0	0	1	1	11	
136.501 $P4_2/mn'm'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z_{2m,\pi}^+, z_{4m,0}^+$								
$\mathbb{Z}_{2,4}$	weak	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	i	2^{110*}	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$m_{1\bar{1}0*}$	$Cm_{(4)}^{001}$
00	(004)	2	0	0	0	0	0	0422
00	(000)	0	0	0	0	0	0	4400
00	(000)	0	0	0	0	0	0	0000
01	(000)	0	1	1	1	1	0	1100
02	(000)	0	0	0	0	0	0	2200
03	(000)	0	1	1	1	1	0	3300
10	(002)	1	0	1	1	0	0	0211
11	(002)	1	1	0	0	1	0	1111
12	(002)	1	0	1	1	0	0	2011
13	(002)	1	1	0	0	1	0	3111
136.502 $P4'_2/m'nm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$i*$	2^{110}	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$m_{1\bar{1}0*}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	0	0	1	0	
136.504 $Pc4_2/mnm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	$\{1 00\frac{1}{2}\}*$	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}0}*}$	$2^{\frac{100}{\frac{1}{2}\frac{1}{2}0}*}$	i	$2^{\frac{110}{000}}$	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}0}*}$	$Cm_{(2)}^{110}$ $Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	44 4400
0	(000)	0	0	0	0	0	0	22 0000
0	(000)	0	0	0	0	0	0	22 0000
3	(000)	1	1	1	1	0	0	11 1100
2	(000)	0	0	0	0	0	0	22 2200
1	(000)	1	1	1	1	0	0	33 3300
136.505 $PC4_2/mnm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}0}*}$	i	$2^{\frac{010}{00\frac{1}{2}}*}$	$4^{\frac{001}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$g_{00\frac{1}{2}}^{100*}$ $Cm_{(4)}^{001}$ $Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	0	0 4400 44
0	(000)	0	0	0	0	0	0	0 0000 22
0	(000)	0	0	0	0	0	0	0 0000 22
3	(000)	1	0	1	1	1	1	0 1100 11
2	(000)	0	0	0	0	0	0	0 2200 22
1	(000)	1	0	1	1	1	1	0 3300 33
136.506 $P14_2/mnm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	4^{001*}	2^{100*}	i	2^{110}	4^{001*}	$Cm_{(4)}^{001}$ $Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	0	4400 44
0	(000)	0	0	0	0	0	0	0000 22

0	(000)	0	0	0	0	0	0	0000	22
3	(000)	1	1	1	1	0	0	1100	11
2	(000)	0	0	0	0	0	0	2200	22
1	(000)	1	1	1	1	0	0	3300	33
137.507 $P4_2/nmc$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{\frac{1}{2}00}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{110}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	0	0	2200	
0	(000)	0	0	0	0	0	0	2200	
1	(000)	0	0	1	0	1	1	1100	
137.510 $P4'_2/nm'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}00}^{100}*$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$g_{00\frac{1}{2}}^{110}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	1	1	0	0	1		
137.511 $P4'_2/nmc'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}00}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$g_{00\frac{1}{2}}^{110}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	0	0	2200	
0	(000)	0	0	0	0	0	0	2200	
1	(000)	1	0	1	1	0	0	1100	
137.512 $P4'_2/n'm'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}00}^{100}$	$i*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{110}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	0	0	1	1	1		
137.513 $P4_2/nm'c'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2,S_4}, z_{4C}/2$									
$\mathbb{Z}_{2,2}$	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{\frac{1}{2}00}^{100}*$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{110}$		
00	(000)	0	0	0	0	0	0		
00	(004)	2	0	0	0	0	2		
01	(002)	1	1	1	0	0	1		
10	(000)	0	1	1	1	1	0		
11	(002)	1	0	0	1	1	1		
137.514 $P4'_2/n'mc'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}00}^{100}*$	$i*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{110}$	$Cm_{(0)}^{100}$	
0	(000)	0	0	0	0	0	0	2200	
0	(000)	0	0	0	0	0	0	2200	
1	(000)	1	1	0	0	1	0	1100	
137.516 P_c4_2/nmc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$4_{\frac{1}{2}00}^{001}*$	$2_{\frac{1}{2}00}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$4_{\frac{1}{2}00}^{001}*$	$m_{110}*$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	0	0	2200
1	(000)	1	1	0	1	1	0	0	1100
137.517 P_C4_2/nmc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{110}$	$i_{\frac{1}{2}\frac{1}{2}0}$	$2_{\frac{1}{2}00}^{010}$	$4_{0\frac{1}{2}\frac{1}{2}}^{001}$	$Cm_{(2)}^{010}$	
0	(000)	0	0	0	0	0	0	2200	
0	(000)	0	0	0	0	0	0	2200	
1	(000)	1	0	1	0	1	0	1100	
137.518 P_I4_2/nmc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{0\frac{1}{2}0}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$Cm_{(2)}^{010}$
0	(000)	0	0	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	0	0	2200
1	(000)	1	1	1	0	0	1	0	1100
138.519 $P4_2/nm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									

\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$Cm_{(2)}^{110}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	22		
1	(000)	0	0	1	0	1	11		
138.522 $P4_2'/nc'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001*}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100*}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001*}$	$Cm_{(2)}^{110}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	22		
1	(000)	1	1	1	0	0	11		
138.523 $P4_2'/ncm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001*}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110*}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001*}$	$m_{1\bar{1}0*}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	0	1	1	0	0		
138.524 $P4_2'/n'c'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001*}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$	$i*$	$2_{\frac{1}{2}\frac{1}{2}0}^{110*}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$Cm_{(0)}^{110}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	22		
1	(000)	1	0	0	1	1	11		
138.525 $P4_2/nc'm'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2,S_4}, z_{4C}/2$									
$\mathbb{Z}_{2,2}$	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100*}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110*}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$m_{1\bar{1}0*}$		
00	(000)	0	0	0	0	0	0		
00	(004)	2	0	0	0	0	0		
01	(002)	1	0	1	1	0	0		
10	(000)	0	1	1	1	1	0		
11	(002)	1	1	0	0	1	0		
138.526 $P4_2'/n'cm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}0\frac{1}{2}}^{001*}$	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$	$i*$	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$m_{1\bar{1}0*}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	1	0	0	1	0		
138.528 P_c4_2/ncm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$4_{\frac{1}{2}00}^{001*}$	$2_{\frac{1}{2}00}^{100*}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$4_{\frac{1}{2}00}^{001*}$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	0	22	
1	(000)	1	1	1	1	0	0	11	
138.529 P_C4_2/ncm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	2_{000}^{110*}	$i_{\frac{1}{2}\frac{1}{2}0*}$	$2_{\frac{1}{2}0\frac{1}{2}}^{010*}$	$4_{0\frac{1}{2}\frac{1}{2}}^{001*}$	$g_{\frac{1}{2}0\frac{1}{2}}^{100}$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	0	0	22
0	(000)	0	0	0	0	0	0	0	22
1	(000)	1	0	1	0	1	0	1	11
138.530 P_I4_2/ncm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}*}$	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	0	22	
1	(000)	1	1	1	0	0	1	11	
139.531 $I4/mmm$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_8$ SI = z_8									
\mathbb{Z}_8	weak	4^{001}	2^{100}	i	2^{110}	4^{001}	$Cm_{(2)}^{010}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	88	88	88
0	(000)	0	0	0	0	0	22	44	44
0	(000)	0	0	0	0	0	22	00	22
0	(000)	0	0	0	0	0	44	44	22
3	(000)	0	0	1	0	1	11	11	11

6	(000)	0	0	0	0	0	$2\bar{2}$	$2\bar{2}$	$2\bar{2}$
1	(000)	0	0	1	0	1	$3\bar{3}$	$3\bar{3}$	$3\bar{3}$
4	(000)	0	0	0	0	0	$4\bar{4}$	$4\bar{4}$	$4\bar{4}$
7	(000)	0	0	1	0	1	$5\bar{5}$	$5\bar{5}$	$5\bar{5}$
2	(000)	0	0	0	0	0	$6\bar{6}$	$6\bar{6}$	$6\bar{6}$
5	(000)	0	0	1	0	1	$7\bar{7}$	$7\bar{7}$	$7\bar{7}$
139.534 $I4'/mm'm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$									
\mathbb{Z}_4	weak	4^{001*}	2^{100*}	i	2^{110}	4^{001*}	$Cm_{(2)}^{001}$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	$4\bar{4}$	$4\bar{4}$	
0	(000)	0	0	0	0	0	$0\bar{0}$	$2\bar{2}$	
0	(000)	0	0	0	0	0	$0\bar{0}$	$2\bar{2}$	
3	(000)	1	1	1	0	0	$1\bar{1}$	$1\bar{1}$	
2	(000)	0	0	0	0	0	$2\bar{2}$	$2\bar{2}$	
1	(000)	1	1	1	0	0	$3\bar{3}$	$3\bar{3}$	
139.535 $I4'/mmm'$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$									
\mathbb{Z}_4	weak	4^{001*}	2^{100}	i	2^{110*}	4^{001*}	$m_{1\bar{1}0*}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	0	$4\bar{4}$	$4\bar{4}$
0	(000)	0	0	0	0	0	0	$2\bar{2}$	$0\bar{0}$
0	(000)	0	0	0	0	0	0	$2\bar{2}$	$0\bar{0}$
3	(000)	1	0	1	1	0	0	$1\bar{1}$	$1\bar{1}$
2	(000)	0	0	0	0	0	0	$2\bar{2}$	$2\bar{2}$
1	(000)	1	0	1	1	0	0	$3\bar{3}$	$3\bar{3}$
139.536 $I4'/m'm'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$									
\mathbb{Z}_2	weak	4^{001*}	2^{100}	$i*$	2^{110*}	4^{001}	$Cm_{(0)}^{110}$		
0	(000)	0	0	0	0	0	$2\bar{2}$		
0	(000)	0	0	0	0	0	$2\bar{2}$		
1	(000)	1	0	0	1	1	$1\bar{1}$		
139.537 $I4/mm'm'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{4,4}$ $SI = z_{4m,87}^+, z_{4m,87}^-$									
$\mathbb{Z}_{4,4}$	weak	4^{001}	2^{100*}	i	2^{110*}	4^{001}	$m_{1\bar{1}0*}$	$Cm_{(4)}^{001}$	
00	(444)	0	0	0	0	0	0	$4\bar{4}$	
00	(000)	0	0	0	0	0	0	$4\bar{4}$	
00	(000)	0	0	0	0	0	0	$0\bar{0}$	
01	(000)	0	1	1	1	1	0	$1\bar{1}$	
02	(000)	0	0	0	0	0	0	$2\bar{2}$	
03	(000)	0	1	1	1	1	0	$3\bar{3}$	
10	(111)	0	0	0	0	0	0	$1\bar{1}$	
11	(111)	0	1	1	1	1	0	$2\bar{2}$	
12	(111)	0	0	0	0	0	0	$3\bar{3}$	
13	(111)	0	1	1	1	1	0	$4\bar{4}$	
20	(222)	0	0	0	0	0	0	$2\bar{2}$	
21	(222)	0	1	1	1	1	0	$3\bar{3}$	
22	(222)	0	0	0	0	0	0	$4\bar{4}$	
23	(222)	0	1	1	1	1	0	$5\bar{1}$	
30	(333)	0	0	0	0	0	0	$3\bar{3}$	
31	(333)	0	1	1	1	1	0	$4\bar{4}$	
32	(333)	0	0	0	0	0	0	$5\bar{1}$	
33	(333)	0	1	1	1	1	0	$6\bar{0}$	
139.538 $I4'/m'mm'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$									
\mathbb{Z}_2	weak	4^{001*}	2^{100*}	$i*$	2^{110}	4^{001}	$m_{1\bar{1}0*}$	$Cm_{(0)}^{010}$	
0	(000)	0	0	0	0	0	0	$2\bar{2}$	
0	(000)	0	0	0	0	0	0	$2\bar{2}$	
1	(000)	1	1	0	0	1	0	$1\bar{1}$	
139.540 I_c4/mmm Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_8$ $SI = z_8$									

\mathbb{Z}_8	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	4^{001}	2^{110}	i	2^{010}	$\bar{4}^{001}$	$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	0	88	88	88
0	(000)	0	0	0	0	0	0	22	44	44
0	(000)	0	0	0	0	0	0	22	00	22
0	(000)	0	0	0	0	0	0	44	44	22
3	(000)	1	0	0	1	0	1	11	11	11
6	(000)	0	0	0	0	0	0	22	22	22
1	(000)	1	0	0	1	0	1	33	33	33
4	(000)	0	0	0	0	0	0	44	44	44
7	(000)	1	0	0	1	0	1	55	55	55
2	(000)	0	0	0	0	0	0	66	66	66
5	(000)	1	0	0	1	0	1	77	77	77
140.541 $I4/mcm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$										
\mathbb{Z}_4	weak	4^{001}	$2_{00\frac{1}{2}}^{100}$	i	$2_{00\frac{1}{2}}^{110}$	$\bar{4}^{001}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$		
0	(000)	0	0	0	0	0	44	44		
0	(000)	0	0	0	0	0	00	22		
0	(000)	0	0	0	0	0	00	22		
3	(000)	0	0	1	0	1	11	11		
2	(000)	0	0	0	0	0	22	22		
1	(000)	0	0	1	0	1	33	33		
140.544 $I4'/mc'm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}										
\mathbb{Z}_4	weak	4^{001*}	$2_{00\frac{1}{2}}^{100*}$	i	$2_{00\frac{1}{2}}^{110}$	$\bar{4}^{001*}$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{110}$		
0	(000)	0	0	0	0	0	44	44		
0	(000)	0	0	0	0	0	00	22		
0	(000)	0	0	0	0	0	00	22		
3	(000)	1	1	1	0	0	11	11		
2	(000)	0	0	0	0	0	22	22		
1	(000)	1	1	1	0	0	33	33		
140.545 $I4'/mcm'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}										
\mathbb{Z}_4	weak	4^{001*}	$2_{00\frac{1}{2}}^{100}$	i	$2_{00\frac{1}{2}}^{110*}$	$\bar{4}^{001*}$	$g_{00\frac{1}{2}}^{110*}$	$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	0	44		
0	(000)	0	0	0	0	0	0	00		
3	(000)	1	0	1	1	0	0	11		
2	(000)	0	0	0	0	0	0	22		
1	(000)	1	0	1	1	0	0	33		
140.546 $I4'/m'c'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}										
\mathbb{Z}_2	weak	4^{001*}	$2_{00\frac{1}{2}}^{100}$	i^*	$2_{00\frac{1}{2}}^{110*}$	$\bar{4}^{001}$	$Cm_{(0)}^{110}$			
0	(000)	0	0	0	0	0	22			
0	(000)	0	0	0	0	0	22			
1	(000)	1	0	0	1	1	11			
140.547 $I4/mc'm'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{4,4}$ SI = $z_{4m,87}^+, z_{4m,87}^-$										
$\mathbb{Z}_{4,4}$	weak	4^{001}	$2_{00\frac{1}{2}}^{100*}$	i	$2_{00\frac{1}{2}}^{110*}$	$\bar{4}^{001}$	$g_{00\frac{1}{2}}^{110*}$	$Cm_{(4)}^{001}$		
00	(444)	0	0	0	0	0	4	44		
00	(000)	0	0	0	0	0	0	44		
00	(000)	0	0	0	0	0	0	00		
01	(000)	0	1	1	1	1	0	11		
02	(000)	0	0	0	0	0	0	22		
03	(000)	0	1	1	1	1	0	33		
10	(111)	0	1	0	1	0	1	11		
11	(111)	0	0	1	0	1	1	20		
12	(111)	0	1	0	1	0	1	31		
13	(111)	0	0	1	0	1	1	42		

20	(222)	0	0	0	0	0	$\bar{2}$	22
21	(222)	0	1	1	1	1	$\bar{2}$	31
22	(222)	0	0	0	0	0	$\bar{2}$	40
23	(222)	0	1	1	1	1	$\bar{2}$	51
30	(333)	0	1	0	1	0	$\bar{3}$	33
31	(333)	0	0	1	0	1	$\bar{3}$	42
32	(333)	0	1	0	1	0	$\bar{3}$	51
33	(333)	0	0	1	0	1	$\bar{3}$	60

140.548 $I4'/m'cm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	4^{001}_*	$2^{100}_{00\frac{1}{2}}*$	$i*$	$2^{110}_{00\frac{1}{2}}$	$\bar{4}^{001}$	$g^{110}_{00\frac{1}{2}}*$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	0	0	1	0	

140.550 I_c4/mcm Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = $z_{4m,0}^+$										
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	4^{001}	2^{110}_*	i	2^{010}_*	$\bar{4}^{001}$	$m_{100}*$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	0	0	44	44
0	(000)	0	0	0	0	0	0	0	00	22
0	(000)	0	0	0	0	0	0	0	00	22
3	(000)	1	0	1	1	1	1	0	11	11
2	(000)	0	0	0	0	0	0	0	22	22
1	(000)	1	0	1	1	1	1	0	33	33

141.551 $I4_1/amd$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	2^{100}	i	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$\bar{4}^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$g^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$Cm_{(2)}^{010}$
0	(000)	0	0	0	0	0	0	22
0	(000)	0	0	0	0	0	0	22
1	(000)	0	0	1	0	1	1	11

141.554 $I4'_1/am'd$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	2^{100}_*	i	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$\bar{4}^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$g^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	1	0	0	1	

141.555 $I4'_1/amd'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	2^{100}	i	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$\bar{4}^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$g^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$Cm_{(2)}^{010}$
0	(000)	0	0	0	0	0	0	22
0	(000)	0	0	0	0	0	0	22
1	(000)	1	0	1	1	0	0	11

141.556 $I4'_1/a'm'd$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	2^{100}	$i*$	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$\bar{4}^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$g^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	0	0	1	1	1	

141.557 $I4_1/am'd'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = z_{2,S_4}, z'_{2P}								
$\mathbb{Z}_{2,2}$	weak	$4^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	2^{100}_*	i	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$\bar{4}^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$g^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	
00	(444)	2	0	0	0	0	2	
00	(444)	2	0	0	0	0	2	
01	(222)	1	1	1	0	0	$\bar{1}$	
10	(222)	$\bar{1}$	0	0	1	1	1	
11	(000)	0	1	1	1	1	0	

141.558 $I4'_1/a'md'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	2^{100}_*	$i*$	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$\bar{4}^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$g^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$Cm_{(0)}^{010}$
0	(000)	0	0	0	0	0	0	22
0	(000)	0	0	0	0	0	0	22
1	(000)	1	1	0	0	1	0	11

141.560 I_c4_1/amd Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	$i_{00\frac{1}{2}}^*$	$2^{\frac{010}{\frac{1}{2}00}}*$	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$Cm_{(2)}^{010}$
0	(000)	0	0	0	0	0	0	22
0	(000)	0	0	0	0	0	0	22
1	(000)	1	1	1	0	1	1	11
142.561 $I4_1/acd$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$2^{\frac{100}{00\frac{1}{2}}}$	i	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$g^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	0	1	0	1	1	
142.564 $I4'_1/ac'd$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	$2^{\frac{100}{00\frac{1}{2}}}*$	i	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	$g^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	1	0	0	1	
142.565 $I4'_1/ac'd'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	$2^{\frac{100}{00\frac{1}{2}}}$	i	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	$g^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	0	1	1	0	0	
142.566 $I4'_1/a'c'd$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	$2^{\frac{100}{00\frac{1}{2}}}$	i^*	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$g^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	0	0	1	1	1	
142.567 $I4_1/ac'd'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ SI = z_{2,S_4}, z'_{2P}								
$\mathbb{Z}_{2,2}$	weak	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$2^{\frac{100}{00\frac{1}{2}}}*$	i	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$g^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	
00	(444)	2	0	0	0	0	2	
00	(444)	2	0	0	0	0	2	
01	(222)	1	1	1	0	0	1	
10	(222)	1	0	0	1	1	1	
11	(000)	0	1	1	1	1	0	
142.568 $I4'_1/a'c'd'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	$2^{\frac{100}{00\frac{1}{2}}}*$	i^*	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$g^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	0	0	1	0	
142.570 I_c4_1/acd Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}*$	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$i_{00\frac{1}{2}}^*$	$2^{\frac{010}{\frac{1}{2}00}}$	$4^{\frac{001}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$g_{00\frac{1}{2}}^{100}$
0	(000)	0	0	0	0	0	0	0
1	(000)	1	1	0	0	0	1	1
143.1 $P3$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_3$ SI = z_{3C}								
\mathbb{Z}_3	weak	3^{001}						
0	(003)	0						
2	(001)	0						
1	(002)	0						
147.13 $P\bar{3}$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{6,4}$ SI = z_{6C}, z_{4P}								
$\mathbb{Z}_{6,4}$	weak	3^{001}	i					
00	(006)	0	0					
00	(000)	0	0					
02	(000)	0	1					
50	(001)	0	0					
52	(001)	0	1					
40	(002)	0	0					
42	(002)	0	1					

30	(003)	0	0
32	(003)	0	1
20	(004)	0	0
22	(004)	0	1
10	(005)	0	0
12	(005)	0	1
<hr/>			
147.16 P_c3 Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$3^{001} i$
0	(000)	0	0
1	(000)	1	0
<hr/>			
148.17 $R3$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z_{2P,3}, z_{4P}$			
$\mathbb{Z}_{2,4}$	weak	3^{001}	i
00	(222)	0	0
00	(000)	0	0
02	(000)	0	1
10	(111)	0	0
12	(111)	0	1
<hr/>			
148.20 $R_I\bar{3}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}			
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$3^{001} i$
0	(000)	0	0
1	(000)	1	0
<hr/>			
149.23 $P312'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ SI = z_{3C}			
\mathbb{Z}_3	weak	3^{001}	2^{120*}
0	(003)	0	0
0	(000)	0	1
2	(001)	0	0
1	(002)	0	0
<hr/>			
150.27 $P32'1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ SI = z_{3C}			
\mathbb{Z}_3	weak	3^{001}	2^{100*}
0	(003)	0	0
0	(000)	0	1
1	(001)	0	0
2	(002)	0	0
<hr/>			
156.51 $P3m'1$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_3$ SI = z_{3C}			
\mathbb{Z}_3	weak	3^{001}	$m_{\bar{2}10}^*$
0	(003)	0	0
2	(001)	0	0
1	(002)	0	0
<hr/>			
157.55 $P31m'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_3$ SI = z_{3C}			
\mathbb{Z}_3	weak	3^{001}	m_{010}^*
0	(003)	0	0
2	(001)	0	0
1	(002)	0	0
<hr/>			
158.59 $P3c'1$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_3$ SI = z_{3C}			
\mathbb{Z}_3	weak	3^{001}	$g_{00\frac{1}{2}}^{210*}$
0	(006)	0	3
1	(002)	0	1
2	(004)	0	2
<hr/>			
159.63 $P31c'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_3$ SI = z_{3C}			
\mathbb{Z}_3	weak	3^{001}	$g_{00\frac{1}{2}}^{010*}$
0	(006)	0	3
2	(002)	0	1
1	(004)	0	2

162.73 $P\bar{3}1m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	3^{001}	2^{120}	i	$Cm_{(2)}^{100}$
0	(000)	0	0	0	22
0	(000)	0	0	0	22
1	(000)	0	0	1	11
162.77 $P\bar{3}1m'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{6,4}$ SI = $z_{6C, z_{4P}}$					
$\mathbb{Z}_{6,4}$	weak	3^{001}	2^{120*}	i	
00	(006)	0	0	0	
00	(000)	0	0	0	
02	(000)	0	1	1	
10	(001)	0	0	0	
12	(001)	0	1	1	
20	(002)	0	0	0	
22	(002)	0	1	1	
30	(003)	0	0	0	
32	(003)	0	1	1	
40	(004)	0	0	0	
42	(004)	0	1	1	
50	(005)	0	0	0	
52	(005)	0	1	1	
162.78 $P_c\bar{3}1m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	3^{001}	2^{120}	i $Cm_{(2)}^{100}$
0	(000)	0	0	0	0 22
0	(000)	0	0	0	0 22
1	(000)	1	0	0	1 11
163.79 $P\bar{3}1c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	3^{001}	$2_{00\frac{1}{2}}^{120}$	i	
0	(000)	0	0	0	
1	(000)	0	0	1	
163.83 $P\bar{3}1c'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{3,4}$ SI = $z_{6C, \pi/2, z_{4P}}$					
$\mathbb{Z}_{3,4}$	weak	3^{001}	$2_{00\frac{1}{3}}^{120*}$	i	
00	(006)	0	1	0	
00	(000)	0	0	0	
02	(000)	0	1	1	
20	(002)	0	1	0	
22	(002)	0	0	1	
10	(004)	0	0	0	
12	(004)	0	1	1	
163.84 $P_c\bar{3}1c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	3^{001}	2^{120*}	i
0	(000)	0	0	0	0
1	(000)	1	0	1	1
164.85 $P\bar{3}m1$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	3^{001}	2^{100}	i	$Cm_{(2)}^{110}$
0	(000)	0	0	0	22
0	(000)	0	0	0	22
1	(000)	0	0	1	11
164.89 $P\bar{3}m'1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{6,4}$ SI = $z_{6C, z_{4P}}$					
$\mathbb{Z}_{6,4}$	weak	3^{001}	2^{100*}	i	
00	(006)	0	0	0	
00	(000)	0	0	0	
02	(000)	0	1	1	
10	(001)	0	0	0	

12	(001)	0	1	1
20	(002)	0	0	0
22	(002)	0	1	1
30	(003)	0	0	0
32	(003)	0	1	1
40	(004)	0	0	0
42	(004)	0	1	1
50	(005)	0	0	0
52	(005)	0	1	1
164.90 P_c3m1 Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	3^{001}	2^{100} i $Cm_{(2)}^{110}$
0	(000)	0	0	0
0	(000)	0	0	0
1	(000)	1	0	0
165.91 $P\bar{3}c1$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	3^{001}	$2^{100}_{00\frac{1}{2}}$	i
0	(000)	0	0	0
1	(000)	0	0	1
165.95 $P\bar{3}c'1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{3,4}$ SI = $z_{6C,\pi}/2, z_{4P}$				
$\mathbb{Z}_{3,4}$	weak	3^{001}	$2^{100}_{00\frac{1}{2}}^*$	i
00	(006)	0	1	0
00	(000)	0	0	0
02	(000)	0	1	1
10	(002)	0	1	0
12	(002)	0	0	1
20	(004)	0	0	0
22	(004)	0	1	1
165.96 P_c3c1 Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	3^{001}	2^{100}_* i
0	(000)	0	0	0
1	(000)	1	0	1
166.97 $R\bar{3}m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	3^{001}	2^{100}	i $Cm_{(2)}^{210}$
0	(000)	0	0	0
0	(000)	0	0	0
1	(000)	0	0	1
166.101 $R\bar{3}m'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z_{2P,3}, z_{4P}$				
$\mathbb{Z}_{2,4}$	weak	3^{001}	2^{100}_*	i
00	(222)	0	0	0
00	(000)	0	0	0
02	(000)	0	1	1
10	(111)	0	0	0
12	(111)	0	1	1
166.102 $R_I\bar{3}m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{001}	2^{100} i $Cm_{(2)}^{210}$
0	(000)	0	0	0
0	(000)	0	0	0
1	(000)	1	0	0
167.103 $R\bar{3}c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	3^{001}	$2^{100}_{00\frac{1}{2}}$	i
0	(000)	0	0	0
1	(000)	0	0	1

167.107 $R\bar{3}c'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_4$ SI = z_{4P}				
\mathbb{Z}_4	weak	3^{001}	$2_{00\frac{1}{2}}^{100}*$	i
0	(000)	0	0	0
0	(222)	0	1	0
2	(000)	0	1	1
167.108 $R_I\bar{3}c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}				
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	3^{001}	$2^{100}*$
0	(000)	0	0	0
1	(000)	1	0	1
168.109 $P6$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_6$ SI = z_{6C}				
\mathbb{Z}_6	weak	6^{001}		
0	(006)	0		
5	(001)	0		
4	(002)	0		
3	(003)	0		
2	(004)	0		
1	(005)	0		
171.121 $P6_2$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = z_{2C}				
\mathbb{Z}_2	weak	$6_{00\frac{1}{3}}^{001}$		
0	(006)	2		
1	(003)	1		
172.125 $P6_4$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = z_{2C}				
\mathbb{Z}_2	weak	$6_{00\frac{2}{3}}^{001}$		
0	(006)	4		
1	(003)	2		
173.129 $P6_3$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_3$ SI = z_{3C}				
\mathbb{Z}_3	weak	$6_{00\frac{1}{2}}^{001}$		
0	(006)	3		
1	(002)	1		
2	(004)	2		
174.133 $P6$ Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{3,3,3}$ SI = $z_{3m,0}^+, z_{3m,0}^-, z_{3m,\pi}^+$				
$\mathbb{Z}_{3,3,3}$	weak	$\bar{6}^{001}$	$Cm_{(3)}^{001}$	
000	(006)	1	3906	
000	(003)	1	0303	
000	(000)	1	0033	
000	(000)	1	0033	
001	(000)	1	0011	
002	(000)	0	0022	
010	(001)	1	0101	
011	(001)	0	0110	
012	(001)	1	0121	
020	(002)	0	0202	
021	(002)	1	0211	
022	(002)	0	0220	
100	(002)	1	1302	
101	(002)	0	1313	
102	(002)	1	1324	
110	(001)	0	1201	
111	(001)	1	1212	
112	(001)	0	1223	
120	(000)	1	1100	
121	(000)	0	1111	
122	(000)	1	1122	

200	(004)	0	$\overline{2604}$
201	(004)	1	$\overline{2615}$
202	(004)	0	$\overline{2626}$
210	(003)	1	$\overline{2503}$
211	(003)	0	$\overline{2514}$
212	(003)	1	$\overline{2525}$
220	(002)	0	$\overline{2402}$
221	(002)	1	$\overline{2413}$
222	(002)	0	$\overline{2424}$

174.136 $P_c\bar{6}$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_3$ SI = $z_{3m,0}^+$				
\mathbb{Z}_3	weak	$\{1 00\frac{1}{2}\}^*$	6^{001}	$Cm_{(3)}^{001}$
0	(000)	1	1	3300
0	(000)	0	0	0000
1	(000)	1	1	1100
2	(000)	0	0	2200

175.137 $P6/m$ Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{6,6,6}$ SI = $z_{6m,0}^+, z_{6m,0}^-, z_{6m,\pi}^+$				
$\mathbb{Z}_{6,6,6}$	weak	6^{001}	i	$Cm_{(6)}^{001}$
000	(0030)	0	0	$\overline{6, 36, 0, 30}$
000	(006)	0	0	$\overline{0606}$
000	(000)	0	0	$\overline{0066}$
000	(000)	0	0	$\overline{0066}$
001	(000)	0	1	$\overline{0011}$
002	(000)	0	0	$\overline{0022}$
003	(000)	0	1	$\overline{0033}$
004	(000)	0	0	$\overline{0044}$
005	(000)	0	1	$\overline{0055}$
010	(001)	0	1	$\overline{0101}$
011	(001)	0	0	$\overline{0110}$
012	(001)	0	1	$\overline{0121}$
013	(001)	0	0	$\overline{0132}$
014	(001)	0	1	$\overline{0143}$
015	(001)	0	0	$\overline{0154}$
020	(002)	0	0	$\overline{0202}$
021	(002)	0	1	$\overline{0211}$
022	(002)	0	0	$\overline{0220}$
023	(002)	0	1	$\overline{0231}$
024	(002)	0	0	$\overline{0242}$
025	(002)	0	1	$\overline{0253}$
030	(003)	0	1	$\overline{0303}$
031	(003)	0	0	$\overline{0312}$
032	(003)	0	1	$\overline{0321}$
033	(003)	0	0	$\overline{0330}$
034	(003)	0	1	$\overline{0341}$
035	(003)	0	0	$\overline{0352}$
040	(004)	0	0	$\overline{0404}$
041	(004)	0	1	$\overline{0413}$
042	(004)	0	0	$\overline{0422}$
043	(004)	0	1	$\overline{0431}$
044	(004)	0	0	$\overline{0440}$
045	(004)	0	1	$\overline{0451}$
050	(005)	0	1	$\overline{0505}$
051	(005)	0	0	$\overline{0514}$
052	(005)	0	1	$\overline{0523}$
053	(005)	0	0	$\overline{0532}$

054	(005)	0	1	0541
055	(005)	0	0	0550
100	(005)	0	0	1605
101	(005)	0	1	1616
102	(005)	0	0	1627
103	(005)	0	1	1638
104	(005)	0	0	1649
105	(005)	0	1	1, 6, 5, 10
110	(004)	0	1	1504
111	(004)	0	0	1515
112	(004)	0	1	1526
113	(004)	0	0	1537
114	(004)	0	1	1548
115	(004)	0	0	1559
120	(003)	0	0	1403
121	(003)	0	1	1414
122	(003)	0	0	1425
123	(003)	0	1	1436
124	(003)	0	0	1447
125	(003)	0	1	1458
130	(002)	0	1	1302
131	(002)	0	0	1313
132	(002)	0	1	1324
133	(002)	0	0	1335
134	(002)	0	1	1346
135	(002)	0	0	1357
140	(001)	0	0	1201
141	(001)	0	1	1212
142	(001)	0	0	1223
143	(001)	0	1	1234
144	(001)	0	0	1245
145	(001)	0	1	1256
150	(000)	0	1	1100
151	(000)	0	0	1111
152	(000)	0	1	1122
153	(000)	0	0	1133
154	(000)	0	1	1144
155	(000)	0	0	1155
200	(0010)	0	0	2, 12, 0, 10
201	(0010)	0	1	2, 12, 1, 11
202	(0010)	0	0	2, 12, 2, 12
203	(0010)	0	1	2, 12, 3, 13
204	(0010)	0	0	2, 12, 4, 14
205	(0010)	0	1	2, 12, 5, 15
210	(009)	0	1	2, 11, 0, 9
211	(009)	0	0	2, 11, 1, 10
212	(009)	0	1	2, 11, 2, 11
213	(009)	0	0	2, 11, 3, 12
214	(009)	0	1	2, 11, 4, 13
215	(009)	0	0	2, 11, 5, 14
220	(008)	0	0	2, 10, 0, 8
221	(008)	0	1	2, 10, 1, 9
222	(008)	0	0	2, 10, 2, 10
223	(008)	0	1	2, 10, 3, 11
224	(008)	0	0	2, 10, 4, 12

225	(008)	0	1	2, $\overline{10}$, 5, $\overline{13}$
230	(007)	0	1	$\overline{2907}$
231	(007)	0	0	$\overline{2918}$
232	(007)	0	1	$\overline{2929}$
233	(007)	0	0	2, 9, 3, $\overline{10}$
234	(007)	0	1	2, 9, 4, $\overline{11}$
235	(007)	0	0	2, 9, 5, $\overline{12}$
240	(006)	0	0	$\overline{2806}$
241	(006)	0	1	$\overline{2817}$
242	(006)	0	0	$\overline{2828}$
243	(006)	0	1	$\overline{2839}$
244	(006)	0	0	2, 8, 4, $\overline{10}$
245	(006)	0	1	2, 8, 5, $\overline{11}$
250	(005)	0	1	$\overline{2705}$
251	(005)	0	0	$\overline{2716}$
252	(005)	0	1	$\overline{2727}$
253	(005)	0	0	$\overline{2738}$
254	(005)	0	1	$\overline{2749}$
255	(005)	0	0	2, $\overline{7}$, 5, $\overline{10}$
300	(0015)	0	0	3, $\overline{18}$, 0, $\overline{15}$
301	(0015)	0	1	3, $\overline{18}$, 1, $\overline{16}$
302	(0015)	0	0	3, $\overline{18}$, 2, $\overline{17}$
303	(0015)	0	1	3, $\overline{18}$, 3, $\overline{18}$
304	(0015)	0	0	3, $\overline{18}$, 4, $\overline{19}$
305	(0015)	0	1	3, $\overline{18}$, 5, $\overline{20}$
310	(0014)	0	1	3, $\overline{17}$, 0, $\overline{14}$
311	(0014)	0	0	3, $\overline{17}$, 1, $\overline{15}$
312	(0014)	0	1	3, $\overline{17}$, 2, $\overline{16}$
313	(0014)	0	0	3, $\overline{17}$, 3, $\overline{17}$
314	(0014)	0	1	3, $\overline{17}$, 4, $\overline{18}$
315	(0014)	0	0	3, $\overline{17}$, 5, $\overline{19}$
320	(0013)	0	0	3, $\overline{16}$, 0, $\overline{13}$
321	(0013)	0	1	3, $\overline{16}$, 1, $\overline{14}$
322	(0013)	0	0	3, $\overline{16}$, 2, $\overline{15}$
323	(0013)	0	1	3, $\overline{16}$, 3, $\overline{16}$
324	(0013)	0	0	3, $\overline{16}$, 4, $\overline{17}$
325	(0013)	0	1	3, $\overline{16}$, 5, $\overline{18}$
330	(0012)	0	1	3, $\overline{15}$, 0, $\overline{12}$
331	(0012)	0	0	3, $\overline{15}$, 1, $\overline{13}$
332	(0012)	0	1	3, $\overline{15}$, 2, $\overline{14}$
333	(0012)	0	0	3, $\overline{15}$, 3, $\overline{15}$
334	(0012)	0	1	3, $\overline{15}$, 4, $\overline{16}$
335	(0012)	0	0	3, $\overline{15}$, 5, $\overline{17}$
340	(0011)	0	0	3, $\overline{14}$, 0, $\overline{11}$
341	(0011)	0	1	3, $\overline{14}$, 1, $\overline{12}$
342	(0011)	0	0	3, $\overline{14}$, 2, $\overline{13}$
343	(0011)	0	1	3, $\overline{14}$, 3, $\overline{14}$
344	(0011)	0	0	3, $\overline{14}$, 4, $\overline{15}$
345	(0011)	0	1	3, $\overline{14}$, 5, $\overline{16}$
350	(0010)	0	1	3, $\overline{13}$, 0, $\overline{10}$
351	(0010)	0	0	3, $\overline{13}$, 1, $\overline{11}$
352	(0010)	0	1	3, $\overline{13}$, 2, $\overline{12}$
353	(0010)	0	0	3, $\overline{13}$, 3, $\overline{13}$
354	(0010)	0	1	3, $\overline{13}$, 4, $\overline{14}$
355	(0010)	0	0	3, $\overline{13}$, 5, $\overline{15}$

400	(0020)	0	0	4, 24, 0, 20
401	(0020)	0	1	4, 24, 1, 21
402	(0020)	0	0	4, 24, 2, 22
403	(0020)	0	1	4, 24, 3, 23
404	(0020)	0	0	4, 24, 4, 24
405	(0020)	0	1	4, 24, 5, 25
410	(0019)	0	1	4, 23, 0, 19
411	(0019)	0	0	4, 23, 1, 20
412	(0019)	0	1	4, 23, 2, 21
413	(0019)	0	0	4, 23, 3, 22
414	(0019)	0	1	4, 23, 4, 23
415	(0019)	0	0	4, 23, 5, 24
420	(0018)	0	0	4, 22, 0, 18
421	(0018)	0	1	4, 22, 1, 19
422	(0018)	0	0	4, 22, 2, 20
423	(0018)	0	1	4, 22, 3, 21
424	(0018)	0	0	4, 22, 4, 22
425	(0018)	0	1	4, 22, 5, 23
430	(0017)	0	1	4, 21, 0, 17
431	(0017)	0	0	4, 21, 1, 18
432	(0017)	0	1	4, 21, 2, 19
433	(0017)	0	0	4, 21, 3, 20
434	(0017)	0	1	4, 21, 4, 21
435	(0017)	0	0	4, 21, 5, 22
440	(0016)	0	0	4, 20, 0, 16
441	(0016)	0	1	4, 20, 1, 17
442	(0016)	0	0	4, 20, 2, 18
443	(0016)	0	1	4, 20, 3, 19
444	(0016)	0	0	4, 20, 4, 20
445	(0016)	0	1	4, 20, 5, 21
450	(0015)	0	1	4, 19, 0, 15
451	(0015)	0	0	4, 19, 1, 16
452	(0015)	0	1	4, 19, 2, 17
453	(0015)	0	0	4, 19, 3, 18
454	(0015)	0	1	4, 19, 4, 19
455	(0015)	0	0	4, 19, 5, 20
500	(0025)	0	0	5, 30, 0, 25
501	(0025)	0	1	5, 30, 1, 26
502	(0025)	0	0	5, 30, 2, 27
503	(0025)	0	1	5, 30, 3, 28
504	(0025)	0	0	5, 30, 4, 29
505	(0025)	0	1	5, 30, 5, 30
510	(0024)	0	1	5, 29, 0, 24
511	(0024)	0	0	5, 29, 1, 25
512	(0024)	0	1	5, 29, 2, 26
513	(0024)	0	0	5, 29, 3, 27
514	(0024)	0	1	5, 29, 4, 28
515	(0024)	0	0	5, 29, 5, 29
520	(0023)	0	0	5, 28, 0, 23
521	(0023)	0	1	5, 28, 1, 24
522	(0023)	0	0	5, 28, 2, 25
523	(0023)	0	1	5, 28, 3, 26
524	(0023)	0	0	5, 28, 4, 27
525	(0023)	0	1	5, 28, 5, 28
530	(0022)	0	1	5, 27, 0, 22

531	(0022)	0	0	5, 27, 1, 23
532	(0022)	0	1	5, 27, 2, 24
533	(0022)	0	0	5, 27, 3, 25
534	(0022)	0	1	5, 27, 4, 26
535	(0022)	0	0	5, 27, 5, 27
540	(0021)	0	0	5, 26, 0, 21
541	(0021)	0	1	5, 26, 1, 22
542	(0021)	0	0	5, 26, 2, 23
543	(0021)	0	1	5, 26, 3, 24
544	(0021)	0	0	5, 26, 4, 25
545	(0021)	0	1	5, 26, 5, 26
550	(0020)	0	1	5, 25, 0, 20
551	(0020)	0	0	5, 25, 1, 21
552	(0020)	0	1	5, 25, 2, 22
553	(0020)	0	0	5, 25, 3, 23
554	(0020)	0	1	5, 25, 4, 24
555	(0020)	0	0	5, 25, 5, 25
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175.139 $P6'/m$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_{3,3}$ SI = $z_{3m,0}^+, z_{3m,\pi}^+$				
$\mathbb{Z}_{3,3}$	weak	6^{001}_*	i_*	$Cm_{(3)}^{001}$
00	(000)	1	0	3300
00	(000)	1	0	0033
00	(000)	1	0	0033
01	(000)	1	0	0011
02	(000)	0	0	0022
10	(000)	1	0	1100
11	(000)	0	0	1111
12	(000)	1	0	1122
20	(000)	0	0	2200
21	(000)	1	0	2211
22	(000)	0	0	2222
<hr/>				
175.141 $P6'/m'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z_{6C}/2, z_{4P}$				
$\mathbb{Z}_{2,4}$	weak	6^{001}_*	i	
00	(000)	0	0	
02	(000)	1	1	
<hr/>				
175.142 P_6/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_6$ SI = $z_{6m,0}^+$				
\mathbb{Z}_6	weak	$\{1 00\frac{1}{2}\}_*$	6^{001}	i $Cm_{(6)}^{001}$
0	(000)	0	0	0
0	(000)	0	0	0
1	(000)	1	0	1
2	(000)	0	0	0
3	(000)	1	0	1
4	(000)	0	0	0
5	(000)	1	0	1
<hr/>				
176.143 $P6_3/m$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{3,6}$ SI = $z_{3m,\pi}^+, z_{6m,0}^+$				
$\mathbb{Z}_{3,6}$	weak	$6^{001}_{00\frac{1}{2}}$	i	$Cm_{(6)}^{001}$
00	(006)	3	0	0633
00	(000)	0	0	6600
00	(000)	0	0	0000
01	(000)	0	1	1100
02	(000)	0	0	2200
03	(000)	0	1	3300
04	(000)	0	0	4400
05	(000)	0	1	5500
10	(002)	1	0	0211

11	(002)	1	1	1111
12	(002)	1	0	2011
13	(002)	1	1	3 $\bar{1}$ 11
14	(002)	1	0	4 $\bar{2}$ 11
15	(002)	1	1	5311
20	(004)	2	0	0422
21	(004)	2	1	1322
22	(004)	2	0	2222
23	(004)	2	1	3122
24	(004)	2	0	4022
25	(004)	2	1	5122
176.145 $P6'_3/m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_3$ SI = $z_{3m,0}^+$				
\mathbb{Z}_3	weak	$6_{00\frac{1}{2}}^{001}*$	$i*$	$Cm_{(3)}^{001}$
0	(000)	1	0	3300
0	(000)	0	0	0000
1	(000)	1	0	1 $\bar{1}$ 00
2	(000)	0	0	2 $\bar{2}$ 00
176.147 $P6'_3/m'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_4$ SI = z_{4P}				
\mathbb{Z}_4	weak	$6_{00\frac{1}{2}}^{001}*$	i	
0	(000)	0	0	
2	(000)	1	1	
176.148 P_c6_3/m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_6$ SI = $z_{6m,0}^+$				
\mathbb{Z}_6	weak	$\{1 00\frac{1}{2}\}*$	$6^{001}*$	$i_{00\frac{1}{2}}*$ $Cm_{(6)}^{001}$
0	(000)	0	0	0 6 $\bar{6}$ 00
0	(000)	0	0	0 0000
1	(000)	1	1	0 1 $\bar{1}$ 00
2	(000)	0	0	0 2 $\bar{2}$ 00
3	(000)	1	1	0 3300
4	(000)	0	0	0 4400
5	(000)	1	1	0 5500
177.153 $P6_22'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_6$ SI = z_{6C}				
\mathbb{Z}_6	weak	6^{001}	$2^{010}*$	$2^{110}*$
0	(006)	0	0	0
0	(000)	0	1	1
1	(001)	0	0	0
2	(002)	0	0	0
3	(003)	0	0	0
4	(004)	0	0	0
5	(005)	0	0	0
180.171 $P6_22'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z_{2C}				
\mathbb{Z}_2	weak	$6_{00\frac{1}{3}}^{001}$	$2_{00\frac{1}{3}}^{010}*$	$2_{00\frac{2}{3}}^{110}*$
0	(006)	2	0	0
0	(000)	0	1	1
1	(003)	1	0	1
181.177 $P6_42'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z_{2C}				
\mathbb{Z}_2	weak	$6_{00\frac{2}{3}}^{001}$	$2_{00\frac{1}{3}}^{010}*$	$2_{00\frac{1}{3}}^{110}*$
0	(006)	4	0	0
0	(000)	0	1	1
1	(003)	2	0	1
182.183 $P6_32'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ SI = z_{3C}				
\mathbb{Z}_3	weak	$6_{00\frac{1}{2}}^{001}$	$2^{010}*$	$2_{00\frac{1}{2}}^{110}*$
0	(006)	3	0	1

0	(000)	0	1	1	
2	(002)	1	0	1	
1	(004)	2	0	0	
183.189 $P6m'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_6$ $SI = z_{6C}$					
\mathbb{Z}_6	weak	6^{001}	$m_{\bar{1}20}^*$	$m_{1\bar{1}0}^*$	
0	(00 $\bar{6}$)	0	0	0	
5	(001)	0	0	0	
4	(002)	0	0	0	
3	(003)	0	0	0	
2	(004)	0	0	0	
1	(005)	0	0	0	
184.195 $P6c'c'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_6$ $SI = z'_{6C}$					
\mathbb{Z}_6	weak	6^{001}	$g_{00\frac{1}{2}}^{120*}$	$g_{00\frac{1}{2}}^{110*}$	
0	(0012)	0	6	6	
1	(002)	0	1	1	
2	(004)	0	2	2	
3	(006)	0	3	3	
4	(008)	0	4	4	
5	(0010)	0	5	5	
185.201 $P6_3c'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$					
\mathbb{Z}_3	weak	$6_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{120*}$	$m_{1\bar{1}0}^*$	
0	(00 $\bar{6}$)	$\bar{3}$	$\bar{3}$	0	
1	(002)	$\bar{1}$	$\bar{1}$	0	
2	(004)	$\bar{2}$	$\bar{2}$	0	
186.207 $P6_3m'c'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$					
\mathbb{Z}_3	weak	$6_{00\frac{1}{2}}^{001}$	$m_{\bar{1}20}^*$	$g_{00\frac{1}{2}}^{110*}$	
0	(006)	$\bar{3}$	0	$\bar{3}$	
2	(002)	$\bar{1}$	0	$\bar{1}$	
1	(004)	$\bar{2}$	0	$\bar{2}$	
187.209 $P\bar{6}m2$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{3,3}$ $SI = z_{3m,0}^+, z_{3m,\pi}^+$					
$\mathbb{Z}_{3,3}$	weak	$\bar{6}^{001}$	2^{110}	$Cm_{(3)}^{001}$	$Cm_{(0)}^{110}$
00	(000)	1	0	3300	33
00	(000)	1	0	0033	33
00	(000)	1	0	0033	11
00	(000)	0	0	0000	22
01	(000)	1	0	0011	11
02	(000)	0	0	0022	22
10	(000)	1	0	1100	11
11	(000)	0	0	1111	00
12	(000)	1	0	1122	11
20	(000)	0	0	2200	22
21	(000)	1	0	2211	11
22	(000)	0	0	2222	00
187.213 $P\bar{6}m'2'$ Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{3,3,3}$ $SI = z_{3m,0}^+, z_{3m,0}^-, z_{3m,\pi}^+$					
$\mathbb{Z}_{3,3,3}$	weak	$\bar{6}^{001}$	$m_{\bar{1}20}^*$	2^{110*}	$Cm_{(3)}^{001}$
000	(00 $\bar{6}$)	1	0	1	3906
000	(003)	1	0	1	0303
000	(000)	1	0	1	0033
000	(000)	1	0	1	0033
001	(000)	1	0	1	0011
002	(000)	0	0	0	0022
010	(001)	1	0	1	0101

011	(001)	0	0	0	0110
012	(001)	1	0	1	012 $\bar{1}$
020	(002)	0	0	0	0202
021	(002)	1	0	1	0211
022	(002)	0	0	0	0220
100	(002)	1	0	1	1302
101	(002)	0	0	0	1313
102	(002)	1	0	1	1324
110	(001)	0	0	0	120 $\bar{1}$
111	(001)	1	0	1	1212
112	(001)	0	0	0	1223
120	(000)	1	0	1	1 $\bar{1}$ 00
121	(000)	0	0	0	1 $\bar{1}$ 11
122	(000)	1	0	1	1122
200	(004)	0	0	0	2604
201	(004)	1	0	1	2615
202	(004)	0	0	0	2626
210	(003)	1	0	1	2503
211	(003)	0	0	0	2514
212	(003)	1	0	1	2525
220	(002)	0	0	0	2402
221	(002)	1	0	1	2413
222	(002)	0	0	0	2424

187.214 $P_c\bar{6}m2$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_3$ SI = $z_{3m,0}^+$						
\mathbb{Z}_3	weak	$\{1 00\frac{1}{2}\}^*$	$\bar{6}^{001}$	2^{110}	$Cm_{(3)}^{001}$	$Cm_{(0)}^{110}$
0	(000)	1	1	0	3300	33
0	(000)	0	0	0	0000	22
0	(000)	0	0	0	0000	2 $\bar{2}$
1	(000)	1	1	0	1 $\bar{1}$ 00	11
2	(000)	0	0	0	2200	2 $\bar{2}$

188.215 $P\bar{6}c2$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_3$ SI = $z_{3m,0}^+$					
\mathbb{Z}_3	weak	$\bar{6}_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{120}$	2^{110}	$Cm_{(3)}^{001}$
0	(000)	1	1	0	3300
0	(000)	0	0	0	0000
1	(000)	1	1	0	1 $\bar{1}$ 00
2	(000)	0	0	0	2200

188.219 $P\bar{6}c'2'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{3,3}$ SI = $z_{3m,0}^+, z_{3m,\pi}^+$					
$\mathbb{Z}_{3,3}$	weak	$\bar{6}_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{120}*$	$2^{110}*$	$Cm_{(3)}^{001}$
00	(000)	1	0	1	3300
00	(006)	1	3	0	0633
00	(000)	0	0	0	0000
01	(002)	1	1	0	0211
02	(004)	0	2	0	0422
10	(000)	1	0	1	1 $\bar{1}$ 00
11	(002)	0	1	1	1111
12	(004)	1	2	1	1322
20	(000)	0	0	0	2200
21	(002)	1	1	0	2011
22	(004)	0	2	0	2222

188.220 $P_c\bar{6}c2$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_3$ SI = $z_{3m,0}^+$						
\mathbb{Z}_3	weak	$\{1 00\frac{1}{2}\}^*$	$\bar{6}^{001}*$	$m_{120}*$	2^{110}	$Cm_{(3)}^{001}$
0	(000)	1	0	0	0	3300
0	(000)	0	0	0	0	0000

1	(000)	1	0	0	0	1100
2	(000)	0	0	0	0	2200
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189.221 $P\bar{6}2m$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{3,3}$ $SI = z_{3m,0}^+, z_{3m,\pi}^+$						
$\mathbb{Z}_{3,3}$	weak	$\bar{6}^{001}$	2^{010}	$Cm_{(0)}^{100}$	$Cm_{(3)}^{001}$	
00	(000)	1	0	33	3300	
00	(000)	1	0	33	0033	
00	(000)	0	0	22	0000	
00	(000)	1	0	11	0033	
01	(000)	1	0	11	0011	
02	(000)	0	0	22	0022	
10	(000)	1	0	11	1100	
11	(000)	0	0	00	1111	
12	(000)	1	0	11	1122	
20	(000)	0	0	22	2200	
21	(000)	1	0	11	2211	
22	(000)	0	0	00	2222	
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189.225 $P\bar{6}2'm'$ Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{3,3,3}$ $SI = z_{3m,0}^+, z_{3m,0}^-, z_{3m,\pi}^+$						
$\mathbb{Z}_{3,3,3}$	weak	$\bar{6}^{001}$	2^{010*}	m_{110*}	$Cm_{(3)}^{001}$	
000	(006)	1	1	0	3906	
000	(003)	1	1	0	0303	
000	(000)	1	1	0	0033	
000	(000)	1	1	0	0033	
001	(000)	1	1	0	0011	
002	(000)	0	0	0	0022	
010	(001)	1	1	0	0101	
011	(001)	0	0	0	0110	
012	(001)	1	1	0	0121	
020	(002)	0	0	0	0202	
021	(002)	1	1	0	0211	
022	(002)	0	0	0	0220	
100	(002)	1	1	0	1302	
101	(002)	0	0	0	1313	
102	(002)	1	1	0	1324	
110	(001)	0	0	0	1201	
111	(001)	1	1	0	1212	
112	(001)	0	0	0	1223	
120	(000)	1	1	0	1100	
121	(000)	0	0	0	1111	
122	(000)	1	1	0	1122	
200	(004)	0	0	0	2604	
201	(004)	1	1	0	2615	
202	(004)	0	0	0	2626	
210	(003)	1	1	0	2503	
211	(003)	0	0	0	2514	
212	(003)	1	1	0	2525	
220	(002)	0	0	0	2402	
221	(002)	1	1	0	2413	
222	(002)	0	0	0	2424	
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189.226 $P_c\bar{6}2m$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_3$ $SI = z_{3m,0}^+$						
\mathbb{Z}_3	weak	$\{1 00\frac{1}{2}\}^*$	$\bar{6}^{001}$	2^{010}	$Cm_{(0)}^{100}$	$Cm_{(3)}^{001}$
0	(000)	1	1	0	33	3300
0	(000)	0	0	0	22	0000
0	(000)	0	0	0	22	0000
1	(000)	1	1	0	11	1100

2	(000)	0	0	0	22	2200			
190.227 $P\bar{6}2c$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_3$ SI = $z_{3m,0}^+$									
\mathbb{Z}_3	weak	$\bar{6}_{00\frac{1}{2}}^{001}$	2^{010}	$g_{00\frac{1}{2}}^{110}$	$Cm_{(3)}^{001}$				
0	(000)	1	0	1	3300				
0	(000)	0	0	0	0000				
1	(000)	1	0	1	1100				
2	(000)	0	0	0	2200				
190.231 $P\bar{6}2'c'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{3,3}$ SI = $z_{3m,0}^+, z_{3m,\pi}^+$									
$\mathbb{Z}_{3,3}$	weak	$\bar{6}_{00\frac{1}{2}}^{001}$	2^{010*}	$g_{00\frac{1}{2}}^{110*}$	$Cm_{(3)}^{001}$				
00	(000)	1	1	0	3300				
00	(006)	1	0	3	0633				
00	(000)	0	0	0	0000				
01	(002)	1	0	1	0211				
02	(004)	0	0	2	0422				
10	(000)	1	1	0	1100				
11	(002)	0	1	1	1111				
12	(004)	1	1	2	1322				
20	(000)	0	0	0	2200				
21	(002)	1	0	1	2011				
22	(004)	0	0	2	2222				
190.232 $P_c\bar{6}2c$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_3$ SI = $z_{3m,0}^+$									
\mathbb{Z}_3	weak	$\{1 00\frac{1}{2}\}^*$	$\bar{6}^{001*}$	2^{010}	$m_{1\bar{1}0}^*$	$Cm_{(3)}^{001}$			
0	(000)	1	0	0	0	3300			
0	(000)	0	0	0	0	0000			
1	(000)	1	0	0	0	1100			
2	(000)	0	0	0	0	2200			
191.233 $P6/mmm$ Classification = \mathbb{Z}_M^4 $X_{BS} = \mathbb{Z}_{6,12}$ SI = $z_{6m,\pi}^+, z_{12}$									
$\mathbb{Z}_{6,12}$	weak	6^{001}	2^{010}	i	2^{110}	$Cm_{(2)}^{100}$	$Cm_{(6)}^{001}$	$Cm_{(2)}^{210}$	
0, 0	(000)	0	0	0	0	12, 12	$\bar{6}666$	12, 12	
0, 0	(000)	0	0	0	0	12, 12	12, 12, 0, 0	12, 12	
0, 0	(000)	0	0	0	0	44	$\bar{6}600$	$\bar{6}6$	
0, 0	(000)	0	0	0	0	22	$\bar{6}666$	22	
0, 0	(000)	0	0	0	0	$\bar{6}6$	$\bar{6}600$	44	
0, 7	(000)	0	0	1	0	11	1100	11	
0, 2	(000)	0	0	0	0	22	2200	22	
0, 9	(000)	0	0	1	0	33	3300	33	
0, 4	(000)	0	0	0	0	44	4400	44	
0, 11	(000)	0	0	1	0	55	5500	55	
0, 6	(000)	0	0	0	0	66	6600	66	
0, 1	(000)	0	0	1	0	77	7700	77	
0, 8	(000)	0	0	0	0	88	8800	88	
0, 3	(000)	0	0	1	0	99	9900	99	
0, 10	(000)	0	0	0	0	10, 10	10, 10, 0, 0	10, 10	
0, 5	(000)	0	0	1	0	11, 11	11, 11, 0, 0	11, 11	
1, 0	(000)	0	0	0	0	22	1111	22	
1, 7	(000)	0	0	1	0	11	0011	11	
1, 2	(000)	0	0	0	0	00	1111	00	
1, 9	(000)	0	0	1	0	11	2211	11	
1, 4	(000)	0	0	0	0	22	3311	22	
1, 11	(000)	0	0	1	0	33	4411	33	
1, 6	(000)	0	0	0	0	44	5511	44	
1, 1	(000)	0	0	1	0	55	6611	55	
1, 8	(000)	0	0	0	0	66	7711	66	

1, 3	(000)	0	0	1	0	$\overline{77}$	$88\overline{11}$	$\overline{77}$
1, 10	(000)	0	0	0	0	$\overline{88}$	$99\overline{11}$	$\overline{88}$
1, 5	(000)	0	0	1	0	$\overline{99}$	$10, \overline{10}, 1, \overline{1}$	$\overline{99}$
2, 0	(000)	0	0	0	0	$\overline{44}$	$22\overline{22}$	$\overline{44}$
2, 7	(000)	0	0	1	0	$\overline{33}$	$11\overline{22}$	$\overline{33}$
2, 2	(000)	0	0	0	0	$\overline{22}$	$00\overline{22}$	$\overline{22}$
2, 9	(000)	0	0	1	0	$\overline{11}$	$11\overline{22}$	$\overline{11}$
2, 4	(000)	0	0	0	0	$\overline{00}$	$22\overline{22}$	$\overline{00}$
2, 11	(000)	0	0	1	0	$\overline{11}$	$33\overline{22}$	$\overline{11}$
2, 6	(000)	0	0	0	0	$\overline{22}$	$44\overline{22}$	$\overline{22}$
2, 1	(000)	0	0	1	0	$\overline{33}$	$55\overline{22}$	$\overline{33}$
2, 8	(000)	0	0	0	0	$\overline{44}$	$66\overline{22}$	$\overline{44}$
2, 3	(000)	0	0	1	0	$\overline{55}$	$77\overline{22}$	$\overline{55}$
2, 10	(000)	0	0	0	0	$\overline{66}$	$88\overline{22}$	$\overline{66}$
2, 5	(000)	0	0	1	0	$\overline{77}$	$99\overline{22}$	$\overline{77}$
3, 0	(000)	0	0	0	0	$\overline{66}$	$33\overline{33}$	$\overline{66}$
3, 7	(000)	0	0	1	0	$\overline{55}$	$22\overline{33}$	$\overline{55}$
3, 2	(000)	0	0	0	0	$\overline{44}$	$11\overline{33}$	$\overline{44}$
3, 9	(000)	0	0	1	0	$\overline{33}$	$00\overline{33}$	$\overline{33}$
3, 4	(000)	0	0	0	0	$\overline{22}$	$11\overline{33}$	$\overline{22}$
3, 11	(000)	0	0	1	0	$\overline{11}$	$22\overline{33}$	$\overline{11}$
3, 6	(000)	0	0	0	0	$\overline{00}$	$33\overline{33}$	$\overline{00}$
3, 1	(000)	0	0	1	0	$\overline{11}$	$44\overline{33}$	$\overline{11}$
3, 8	(000)	0	0	0	0	$\overline{22}$	$55\overline{33}$	$\overline{22}$
3, 3	(000)	0	0	1	0	$\overline{33}$	$66\overline{33}$	$\overline{33}$
3, 10	(000)	0	0	0	0	$\overline{44}$	$77\overline{33}$	$\overline{44}$
3, 5	(000)	0	0	1	0	$\overline{55}$	$88\overline{33}$	$\overline{55}$
4, 0	(000)	0	0	0	0	$\overline{88}$	$44\overline{44}$	$\overline{88}$
4, 7	(000)	0	0	1	0	$\overline{77}$	$33\overline{44}$	$\overline{77}$
4, 2	(000)	0	0	0	0	$\overline{66}$	$22\overline{44}$	$\overline{66}$
4, 9	(000)	0	0	1	0	$\overline{55}$	$11\overline{44}$	$\overline{55}$
4, 4	(000)	0	0	0	0	$\overline{44}$	$00\overline{44}$	$\overline{44}$
4, 11	(000)	0	0	1	0	$\overline{33}$	$11\overline{44}$	$\overline{33}$
4, 6	(000)	0	0	0	0	$\overline{22}$	$22\overline{44}$	$\overline{22}$
4, 1	(000)	0	0	1	0	$\overline{11}$	$33\overline{44}$	$\overline{11}$
4, 8	(000)	0	0	0	0	$\overline{00}$	$44\overline{44}$	$\overline{00}$
4, 3	(000)	0	0	1	0	$\overline{11}$	$55\overline{44}$	$\overline{11}$
4, 10	(000)	0	0	0	0	$\overline{22}$	$66\overline{44}$	$\overline{22}$
4, 5	(000)	0	0	1	0	$\overline{33}$	$77\overline{44}$	$\overline{33}$
5, 0	(000)	0	0	0	0	$10, 10$	$55\overline{55}$	$10, 10$
5, 7	(000)	0	0	1	0	$\overline{99}$	$44\overline{55}$	$\overline{99}$
5, 2	(000)	0	0	0	0	$\overline{88}$	$33\overline{55}$	$\overline{88}$
5, 9	(000)	0	0	1	0	$\overline{77}$	$22\overline{55}$	$\overline{77}$
5, 4	(000)	0	0	0	0	$\overline{66}$	$11\overline{55}$	$\overline{66}$
5, 11	(000)	0	0	1	0	$\overline{55}$	$00\overline{55}$	$\overline{55}$
5, 6	(000)	0	0	0	0	$\overline{44}$	$11\overline{55}$	$\overline{44}$
5, 1	(000)	0	0	1	0	$\overline{33}$	$22\overline{55}$	$\overline{33}$
5, 8	(000)	0	0	0	0	$\overline{22}$	$33\overline{55}$	$\overline{22}$
5, 3	(000)	0	0	1	0	$\overline{11}$	$44\overline{55}$	$\overline{11}$
5, 10	(000)	0	0	0	0	$\overline{00}$	$55\overline{55}$	$\overline{00}$
5, 5	(000)	0	0	1	0	$\overline{11}$	$66\overline{55}$	$\overline{11}$
191.236 $P6'/mm'm$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{3,3}$ SI = $z_{3m,0}^+, z_{3m,\pi}^+$								
$\mathbb{Z}_{3,3}$	weak	6^{001*}	2^{010}	i^*	2^{110*}	$Cm_{(0)}^{100}$	$Cm_{(3)}^{001}$	
00	(000)	1	0	0	1	33	3300	
00	(000)	1	0	0	1	33	0033	

00	(000)	0	0	0	0	$\overline{22}$	0000
00	(000)	1	0	0	1	$\overline{11}$	0033
01	(000)	1	0	0	1	$\overline{11}$	0011
02	(000)	0	0	0	0	$\overline{22}$	0022
10	(000)	1	0	0	1	$\overline{11}$	1100
11	(000)	0	0	0	0	00	1111
12	(000)	1	0	0	1	$\overline{11}$	1122
20	(000)	0	0	0	0	$\overline{22}$	2200
21	(000)	1	0	0	1	$\overline{11}$	2211
22	(000)	0	0	0	0	00	2222
<hr/>							
191.237 $P6'/mmm'$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{3,3}$ SI = $z_{3m,0}^+, z_{3m,\pi}^+$							
$\mathbb{Z}_{3,3}$	weak	6^{001}_*	2^{010}_*	i_*	2^{110}	m_{010}_*	$Cm_{(3)}^{001}$ $Cm_{(0)}^{210}$
00	(000)	1	1	0	0	0	3300 33
00	(000)	1	1	0	0	0	0033 33
00	(000)	1	1	0	0	0	0033 11
00	(000)	0	0	0	0	0	0000 22
01	(000)	1	1	0	0	0	0011 11
02	(000)	0	0	0	0	0	0022 22
10	(000)	1	1	0	0	0	1100 11
11	(000)	0	0	0	0	0	1111 00
12	(000)	1	1	0	0	0	1122 11
20	(000)	0	0	0	0	0	2200 22
21	(000)	1	1	0	0	0	2211 11
22	(000)	0	0	0	0	0	2222 00
<hr/>							
191.238 $P6'/m'm'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	6^{001}_*	2^{010}_*	i	2^{110}	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	22	
0	(000)	0	0	0	0	$\overline{22}$	
1	(000)	1	1	1	0	11	
<hr/>							
191.239 $P6'/m'mm'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	6^{001}_*	2^{010}	i	2^{110}_*	m_{010}_*	$Cm_{(2)}^{210}$
0	(000)	0	0	0	0	0	22
0	(000)	0	0	0	0	0	22
1	(000)	1	0	1	1	0	11
<hr/>							
191.240 $P6/mm'm'$ Classification = $\mathbb{Z}_M^2 \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{6,6,6}$ SI = $z_{6m,0}^+, z_{6m,0}^-, z_{6m,\pi}^+$							
$\mathbb{Z}_{6,6,6}$	weak	6^{001}	2^{010}_*	i	2^{110}_*	m_{010}_*	$Cm_{(6)}^{001}$
000	(0030)	0	0	0	0	0	6, 36, 0, 30
000	(006)	0	0	0	0	0	0606
000	(000)	0	0	0	0	0	0066
000	(000)	0	0	0	0	0	0066
001	(000)	0	1	1	1	0	0011
002	(000)	0	0	0	0	0	0022
003	(000)	0	1	1	1	0	0033
004	(000)	0	0	0	0	0	0044
005	(000)	0	1	1	1	0	0055
010	(001)	0	1	1	1	0	0101
011	(001)	0	0	0	0	0	0110
012	(001)	0	1	1	1	0	0121
013	(001)	0	0	0	0	0	0132
014	(001)	0	1	1	1	0	0143
015	(001)	0	0	0	0	0	0154
020	(002)	0	0	0	0	0	0202
021	(002)	0	1	1	1	0	0211

022	(002)	0	0	0	0	0	0220
023	(002)	0	1	1	1	0	0231
024	(002)	0	0	0	0	0	0242
025	(002)	0	1	1	1	0	0253
030	(003)	0	1	1	1	0	0303
031	(003)	0	0	0	0	0	0312
032	(003)	0	1	1	1	0	0321
033	(003)	0	0	0	0	0	0330
034	(003)	0	1	1	1	0	0341
035	(003)	0	0	0	0	0	0352
040	(004)	0	0	0	0	0	0404
041	(004)	0	1	1	1	0	0413
042	(004)	0	0	0	0	0	0422
043	(004)	0	1	1	1	0	0431
044	(004)	0	0	0	0	0	0440
045	(004)	0	1	1	1	0	0451
050	(005)	0	1	1	1	0	0505
051	(005)	0	0	0	0	0	0514
052	(005)	0	1	1	1	0	0523
053	(005)	0	0	0	0	0	0532
054	(005)	0	1	1	1	0	0541
055	(005)	0	0	0	0	0	0550
100	(005)	0	0	0	0	0	1605
101	(005)	0	1	1	1	0	1616
102	(005)	0	0	0	0	0	1627
103	(005)	0	1	1	1	0	1638
104	(005)	0	0	0	0	0	1649
105	(005)	0	1	1	1	0	1, 6, 5, 10
110	(004)	0	1	1	1	0	1504
111	(004)	0	0	0	0	0	1515
112	(004)	0	1	1	1	0	1526
113	(004)	0	0	0	0	0	1537
114	(004)	0	1	1	1	0	1548
115	(004)	0	0	0	0	0	1559
120	(003)	0	0	0	0	0	1403
121	(003)	0	1	1	1	0	1414
122	(003)	0	0	0	0	0	1425
123	(003)	0	1	1	1	0	1436
124	(003)	0	0	0	0	0	1447
125	(003)	0	1	1	1	0	1458
130	(002)	0	1	1	1	0	1302
131	(002)	0	0	0	0	0	1313
132	(002)	0	1	1	1	0	1324
133	(002)	0	0	0	0	0	1335
134	(002)	0	1	1	1	0	1346
135	(002)	0	0	0	0	0	1357
140	(001)	0	0	0	0	0	1201
141	(001)	0	1	1	1	0	1212
142	(001)	0	0	0	0	0	1223
143	(001)	0	1	1	1	0	1234
144	(001)	0	0	0	0	0	1245
145	(001)	0	1	1	1	0	1256
150	(000)	0	1	1	1	0	1100
151	(000)	0	0	0	0	0	1111
152	(000)	0	1	1	1	0	1122

153	(000)	0	0	0	0	0	1133
154	(000)	0	1	1	1	0	1144
155	(000)	0	0	0	0	0	1155
200	(0010)	0	0	0	0	0	2, 12, 0, 10
201	(0010)	0	1	1	1	0	2, 12, 1, 11
202	(0010)	0	0	0	0	0	2, 12, 2, 12
203	(0010)	0	1	1	1	0	2, 12, 3, 13
204	(0010)	0	0	0	0	0	2, 12, 4, 14
205	(0010)	0	1	1	1	0	2, 12, 5, 15
210	(009)	0	1	1	1	0	2, 11, 0, 9
211	(009)	0	0	0	0	0	2, 11, 1, 10
212	(009)	0	1	1	1	0	2, 11, 2, 11
213	(009)	0	0	0	0	0	2, 11, 3, 12
214	(009)	0	1	1	1	0	2, 11, 4, 13
215	(009)	0	0	0	0	0	2, 11, 5, 14
220	(008)	0	0	0	0	0	2, 10, 0, 8
221	(008)	0	1	1	1	0	2, 10, 1, 9
222	(008)	0	0	0	0	0	2, 10, 2, 10
223	(008)	0	1	1	1	0	2, 10, 3, 11
224	(008)	0	0	0	0	0	2, 10, 4, 12
225	(008)	0	1	1	1	0	2, 10, 5, 13
230	(007)	0	1	1	1	0	2907
231	(007)	0	0	0	0	0	2918
232	(007)	0	1	1	1	0	2929
233	(007)	0	0	0	0	0	2, 9, 3, 10
234	(007)	0	1	1	1	0	2, 9, 4, 11
235	(007)	0	0	0	0	0	2, 9, 5, 12
240	(006)	0	0	0	0	0	2806
241	(006)	0	1	1	1	0	2817
242	(006)	0	0	0	0	0	2828
243	(006)	0	1	1	1	0	2839
244	(006)	0	0	0	0	0	2, 8, 4, 10
245	(006)	0	1	1	1	0	2, 8, 5, 11
250	(005)	0	1	1	1	0	2705
251	(005)	0	0	0	0	0	2716
252	(005)	0	1	1	1	0	2727
253	(005)	0	0	0	0	0	2738
254	(005)	0	1	1	1	0	2749
255	(005)	0	0	0	0	0	2, 7, 5, 10
300	(0015)	0	0	0	0	0	3, 18, 0, 15
301	(0015)	0	1	1	1	0	3, 18, 1, 16
302	(0015)	0	0	0	0	0	3, 18, 2, 17
303	(0015)	0	1	1	1	0	3, 18, 3, 18
304	(0015)	0	0	0	0	0	3, 18, 4, 19
305	(0015)	0	1	1	1	0	3, 18, 5, 20
310	(0014)	0	1	1	1	0	3, 17, 0, 14
311	(0014)	0	0	0	0	0	3, 17, 1, 15
312	(0014)	0	1	1	1	0	3, 17, 2, 16
313	(0014)	0	0	0	0	0	3, 17, 3, 17
314	(0014)	0	1	1	1	0	3, 17, 4, 18
315	(0014)	0	0	0	0	0	3, 17, 5, 19
320	(0013)	0	0	0	0	0	3, 16, 0, 13
321	(0013)	0	1	1	1	0	3, 16, 1, 14
322	(0013)	0	0	0	0	0	3, 16, 2, 15
323	(0013)	0	1	1	1	0	3, 16, 3, 16

324	(0013)	0	0	0	0	0	3, 16, 4, 17
325	(0013)	0	1	1	1	0	3, 16, 5, 18
330	(0012)	0	1	1	1	0	3, 15, 0, 12
331	(0012)	0	0	0	0	0	3, 15, 1, 13
332	(0012)	0	1	1	1	0	3, 15, 2, 14
333	(0012)	0	0	0	0	0	3, 15, 3, 15
334	(0012)	0	1	1	1	0	3, 15, 4, 16
335	(0012)	0	0	0	0	0	3, 15, 5, 17
340	(0011)	0	0	0	0	0	3, 14, 0, 11
341	(0011)	0	1	1	1	0	3, 14, 1, 12
342	(0011)	0	0	0	0	0	3, 14, 2, 13
343	(0011)	0	1	1	1	0	3, 14, 3, 14
344	(0011)	0	0	0	0	0	3, 14, 4, 15
345	(0011)	0	1	1	1	0	3, 14, 5, 16
350	(0010)	0	1	1	1	0	3, 13, 0, 10
351	(0010)	0	0	0	0	0	3, 13, 1, 11
352	(0010)	0	1	1	1	0	3, 13, 2, 12
353	(0010)	0	0	0	0	0	3, 13, 3, 13
354	(0010)	0	1	1	1	0	3, 13, 4, 14
355	(0010)	0	0	0	0	0	3, 13, 5, 15
400	(0020)	0	0	0	0	0	4, 24, 0, 20
401	(0020)	0	1	1	1	0	4, 24, 1, 21
402	(0020)	0	0	0	0	0	4, 24, 2, 22
403	(0020)	0	1	1	1	0	4, 24, 3, 23
404	(0020)	0	0	0	0	0	4, 24, 4, 24
405	(0020)	0	1	1	1	0	4, 24, 5, 25
410	(0019)	0	1	1	1	0	4, 23, 0, 19
411	(0019)	0	0	0	0	0	4, 23, 1, 20
412	(0019)	0	1	1	1	0	4, 23, 2, 21
413	(0019)	0	0	0	0	0	4, 23, 3, 22
414	(0019)	0	1	1	1	0	4, 23, 4, 23
415	(0019)	0	0	0	0	0	4, 23, 5, 24
420	(0018)	0	0	0	0	0	4, 22, 0, 18
421	(0018)	0	1	1	1	0	4, 22, 1, 19
422	(0018)	0	0	0	0	0	4, 22, 2, 20
423	(0018)	0	1	1	1	0	4, 22, 3, 21
424	(0018)	0	0	0	0	0	4, 22, 4, 22
425	(0018)	0	1	1	1	0	4, 22, 5, 23
430	(0017)	0	1	1	1	0	4, 21, 0, 17
431	(0017)	0	0	0	0	0	4, 21, 1, 18
432	(0017)	0	1	1	1	0	4, 21, 2, 19
433	(0017)	0	0	0	0	0	4, 21, 3, 20
434	(0017)	0	1	1	1	0	4, 21, 4, 21
435	(0017)	0	0	0	0	0	4, 21, 5, 22
440	(0016)	0	0	0	0	0	4, 20, 0, 16
441	(0016)	0	1	1	1	0	4, 20, 1, 17
442	(0016)	0	0	0	0	0	4, 20, 2, 18
443	(0016)	0	1	1	1	0	4, 20, 3, 19
444	(0016)	0	0	0	0	0	4, 20, 4, 20
445	(0016)	0	1	1	1	0	4, 20, 5, 21
450	(0015)	0	1	1	1	0	4, 19, 0, 15
451	(0015)	0	0	0	0	0	4, 19, 1, 16
452	(0015)	0	1	1	1	0	4, 19, 2, 17
453	(0015)	0	0	0	0	0	4, 19, 3, 18
454	(0015)	0	1	1	1	0	4, 19, 4, 19

455	(0015)	0	0	0	0	0	4, 19, 5, 20
500	(0025)	0	0	0	0	0	5, 30, 0, 25
501	(0025)	0	1	1	1	0	5, 30, 1, 26
502	(0025)	0	0	0	0	0	5, 30, 2, 27
503	(0025)	0	1	1	1	0	5, 30, 3, 28
504	(0025)	0	0	0	0	0	5, 30, 4, 29
505	(0025)	0	1	1	1	0	5, 30, 5, 30
510	(0024)	0	1	1	1	0	5, 29, 0, 24
511	(0024)	0	0	0	0	0	5, 29, 1, 25
512	(0024)	0	1	1	1	0	5, 29, 2, 26
513	(0024)	0	0	0	0	0	5, 29, 3, 27
514	(0024)	0	1	1	1	0	5, 29, 4, 28
515	(0024)	0	0	0	0	0	5, 29, 5, 29
520	(0023)	0	0	0	0	0	5, 28, 0, 23
521	(0023)	0	1	1	1	0	5, 28, 1, 24
522	(0023)	0	0	0	0	0	5, 28, 2, 25
523	(0023)	0	1	1	1	0	5, 28, 3, 26
524	(0023)	0	0	0	0	0	5, 28, 4, 27
525	(0023)	0	1	1	1	0	5, 28, 5, 28
530	(0022)	0	1	1	1	0	5, 27, 0, 22
531	(0022)	0	0	0	0	0	5, 27, 1, 23
532	(0022)	0	1	1	1	0	5, 27, 2, 24
533	(0022)	0	0	0	0	0	5, 27, 3, 25
534	(0022)	0	1	1	1	0	5, 27, 4, 26
535	(0022)	0	0	0	0	0	5, 27, 5, 27
540	(0021)	0	0	0	0	0	5, 26, 0, 21
541	(0021)	0	1	1	1	0	5, 26, 1, 22
542	(0021)	0	0	0	0	0	5, 26, 2, 23
543	(0021)	0	1	1	1	0	5, 26, 3, 24
544	(0021)	0	0	0	0	0	5, 26, 4, 25
545	(0021)	0	1	1	1	0	5, 26, 5, 26
550	(0020)	0	1	1	1	0	5, 25, 0, 20
551	(0020)	0	0	0	0	0	5, 25, 1, 21
552	(0020)	0	1	1	1	0	5, 25, 2, 22
553	(0020)	0	0	0	0	0	5, 25, 3, 23
554	(0020)	0	1	1	1	0	5, 25, 4, 24
555	(0020)	0	0	0	0	0	5, 25, 5, 25

191.242 P_66/mmm Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{12}$ $SI = z_{12}$									
\mathbb{Z}_{12}	weak	$\{1 00\frac{1}{2}\}^*$	6^{001}	2^{010}	i	2^{110}	$Cm_{(2)}^{100}$	$Cm_{(6)}^{001}$	$Cm_{(2)}^{210}$
0	(000)	0	0	0	0	0	12, 12	12, 12, 0, 0	12, 12
0	(000)	0	0	0	0	0	44	6600	66
0	(000)	0	0	0	0	0	22	0000	22
0	(000)	0	0	0	0	0	66	6600	44
7	(000)	1	0	0	1	0	11	1100	11
2	(000)	0	0	0	0	0	22	2200	22
9	(000)	1	0	0	1	0	33	3300	33
4	(000)	0	0	0	0	0	44	4400	44
11	(000)	1	0	0	1	0	55	5500	55
6	(000)	0	0	0	0	0	66	6600	66
1	(000)	1	0	0	1	0	77	7700	77
8	(000)	0	0	0	0	0	88	8800	88
3	(000)	1	0	0	1	0	99	9900	99
10	(000)	0	0	0	0	0	10, 10	10, 10, 0, 0	10, 10
5	(000)	1	0	0	1	0	11, 11	11, 11, 0, 0	11, 11

192.243 $P6/mcc$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_6$ $SI = z_{6m,0}^+$							
\mathbb{Z}_6	weak	6^{001}	$2_{00\frac{1}{2}}^{010}$	i	$2_{00\frac{1}{2}}^{110}$	$g_{00\frac{1}{2}}^{010}$	$Cm_{(6)}^{001}$
0	(000)	0	0	0	0	0	6600
0	(000)	0	0	0	0	0	0000
1	(000)	0	0	1	0	1	1100
2	(000)	0	0	0	0	0	2200
3	(000)	0	0	1	0	1	3300
4	(000)	0	0	0	0	0	4400
5	(000)	0	0	1	0	1	5500
192.246 $P6'/mc'c$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_3$ $SI = z_{3m,0}^+$							
\mathbb{Z}_3	weak	6^{001*}	$2_{00\frac{1}{2}}^{010}$	$i*$	$2_{00\frac{1}{2}}^{110}$	$g_{00\frac{1}{2}}^{010}$	$Cm_{(3)}^{001}$
0	(000)	1	0	0	1	1	3300
0	(000)	0	0	0	0	0	0000
1	(000)	1	0	0	1	1	1100
2	(000)	0	0	0	0	0	2200
192.247 $P6'/mcc'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_3$ $SI = z_{3m,0}^+$							
\mathbb{Z}_3	weak	6^{001*}	$2_{00\frac{1}{2}}^{010}$	$i*$	$2_{00\frac{1}{2}}^{110}$	$g_{00\frac{1}{2}}^{010}$	$Cm_{(3)}^{001}$
0	(000)	1	1	0	0	0	3300
0	(000)	0	0	0	0	0	0000
1	(000)	1	1	0	0	0	1100
2	(000)	0	0	0	0	0	2200
192.248 $P6'/m'c'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2P}'$							
\mathbb{Z}_2	weak	6^{001*}	$2_{00\frac{1}{2}}^{010}$	i	$2_{00\frac{1}{2}}^{110}$	$g_{00\frac{1}{2}}^{010}$	
0	(000)	0	0	0	0	0	
1	(000)	1	1	1	0	1	
192.249 $P6'/m'cc'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2P}'$							
\mathbb{Z}_2	weak	6^{001*}	$2_{00\frac{1}{2}}^{010}$	i	$2_{00\frac{1}{2}}^{110}$	$g_{00\frac{1}{2}}^{010}$	
0	(000)	0	0	0	0	0	
1	(000)	1	0	1	1	0	
192.250 $P6/mc'c'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{6,6}$ $SI = z_{6m,0}^+, z_{6m,\pi}^+$							
$\mathbb{Z}_{6,6}$	weak	6^{001}	$2_{00\frac{1}{2}}^{010}$	i	$2_{00\frac{1}{2}}^{110}$	$g_{00\frac{1}{2}}^{010}$	$Cm_{(6)}^{001}$
00	(000)	0	0	0	0	0	6600
00	(0012)	0	0	0	0	$\bar{6}$	0, 12, 6, 6
00	(000)	0	0	0	0	0	0000
01	(002)	0	0	1	0	$\bar{1}$	0211
02	(004)	0	0	0	0	$\bar{2}$	0422
03	(006)	0	0	1	0	$\bar{3}$	0633
04	(008)	0	0	0	0	$\bar{4}$	0844
05	(0010)	0	0	1	0	$\bar{5}$	0, 10, 5, 5
10	(000)	0	1	1	1	0	1100
11	(002)	0	1	0	1	$\bar{1}$	1111
12	(004)	0	1	1	1	$\bar{2}$	1322
13	(006)	0	1	0	1	$\bar{3}$	1533
14	(008)	0	1	1	1	$\bar{4}$	1744
15	(0010)	0	1	0	1	$\bar{5}$	1955
20	(000)	0	0	0	0	0	2200
21	(002)	0	0	1	0	$\bar{1}$	2011
22	(004)	0	0	0	0	$\bar{2}$	2222
23	(006)	0	0	1	0	$\bar{3}$	2433
24	(008)	0	0	0	0	$\bar{4}$	2644
25	(0010)	0	0	1	0	$\bar{5}$	2855
30	(000)	0	1	1	1	0	3300

31	(002)	0	1	0	1	$\bar{1}$	3 $\bar{1}11$
32	(004)	0	1	1	1	$\bar{2}$	3122
33	(006)	0	1	0	1	$\bar{3}$	3333
34	(008)	0	1	1	1	$\bar{4}$	3544
35	(0010)	0	1	0	1	$\bar{5}$	3755
40	(000)	0	0	0	0	0	4400
41	(002)	0	0	1	0	$\bar{1}$	4211
42	(004)	0	0	0	0	2	4022
43	(006)	0	0	1	0	$\bar{3}$	4233
44	(008)	0	0	0	0	$\bar{4}$	4444
45	(0010)	0	0	1	0	$\bar{5}$	4655
50	(000)	0	1	1	1	0	5500
51	(002)	0	1	0	1	$\bar{1}$	5311
52	(004)	0	1	1	1	$\bar{2}$	5122
53	(006)	0	1	0	1	$\bar{3}$	5133
54	(008)	0	1	1	1	$\bar{4}$	5344
55	(0010)	0	1	0	1	$\bar{5}$	5555

192.252 P_c6/mcc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_6$ $SI = z_{6m,0}^+$								
\mathbb{Z}_6	weak	$\{1 00\frac{1}{2}\}^*$	6^{001}	2^{010}_*	i	2^{110}_*	m_{010}^*	$Cm_{(6)}^{001}$
0	(000)	0	0	0	0	0	0	6600
0	(000)	0	0	0	0	0	0	0000
1	(000)	1	0	1	1	1	0	1100
2	(000)	0	0	0	0	0	0	2200
3	(000)	1	0	1	1	1	0	3300
4	(000)	0	0	0	0	0	0	4400
5	(000)	1	0	1	1	1	0	5500

193.253 $P6_3/mcm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_6$ $SI = z_{6m,0}^+$							
\mathbb{Z}_6	weak	$6^{001}_{00\frac{1}{2}}$	$2^{010}_{00\frac{1}{2}}$	i	2^{110}	$Cm_{(2)}^{100}$	$Cm_{(6)}^{001}$
0	(000)	0	0	0	0	66	6600
0	(000)	0	0	0	0	22	0000
0	(000)	0	0	0	0	22	0000
1	(000)	0	0	1	0	11	1100
2	(000)	0	0	0	0	22	2200
3	(000)	0	0	1	0	33	3300
4	(000)	0	0	0	0	44	4400
5	(000)	0	0	1	0	55	5500

193.256 $P6'_3/mc'm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_3$ $SI = z_{3m,0}^+$							
\mathbb{Z}_3	weak	$6^{001}_{00\frac{1}{2}}^*$	$2^{010}_{00\frac{1}{2}}$	i^*	2^{110}_*	$Cm_{(0)}^{100}$	$Cm_{(3)}^{001}$
0	(000)	1	0	0	1	33	3300
0	(000)	0	0	0	0	22	0000
0	(000)	0	0	0	0	22	0000
1	(000)	1	0	0	1	11	1100
2	(000)	0	0	0	0	22	2200

193.257 $P6'_3/mcm'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_3$ $SI = z_{3m,0}^+$							
\mathbb{Z}_3	weak	$6^{001}_{00\frac{1}{2}}^*$	$2^{010}_{00\frac{1}{2}}^*$	i^*	2^{110}	m_{010}^*	$Cm_{(3)}^{001}$
0	(000)	1	1	0	0	0	3300
0	(000)	0	0	0	0	0	0000
1	(000)	1	1	0	0	0	1100
2	(000)	0	0	0	0	0	2200

193.258 $P6'_3/m'c'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$							
\mathbb{Z}_2	weak	$6^{001}_{00\frac{1}{2}}^*$	$2^{010}_{00\frac{1}{2}}^*$	i	2^{110}	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	22	

0	(000)	0	0	0	0	22		
1	(000)	1	1	1	0	11		
193.259 $P6_3'/m'cm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$6_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{010}$	i	$2^{110}*$	$m_{010}*$		
0	(000)	0	0	0	0	0		
1	(000)	1	0	1	1	0		
193.260 $P6_3/mc'm'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{3,6}$ SI = $z_{3m,\pi}^+, z_{6m,0}^+$								
$\mathbb{Z}_{3,6}$	weak	$6_{00\frac{1}{2}}^{001}$	$2_{00\frac{1}{2}}^{010}*$	i	$2^{110}*$	$m_{010}*$	$Cm_{(6)}^{001}$	
00	(006)	3	1	0	0	0	0633	
00	(0012)	6	0	0	0	0	30, 18, 6, 6	
00	(006)	3	1	0	0	0	12, 6, 3, 3	
01	(002)	1	0	1	1	0	5311	
02	(004)	2	0	0	0	0	10, 6, 2, 2	
03	(006)	3	0	1	1	0	15, 9, 3, 3	
04	(008)	4	0	0	0	0	20, 12, 4, 4	
05	(0010)	5	0	1	1	0	25, 15, 5, 5	
10	(002)	1	1	0	0	0	0211	
11	(004)	2	1	1	1	0	5122	
12	(006)	3	1	0	0	0	10, 4, 3, 3	
13	(008)	4	1	1	1	0	15, 7, 4, 4	
14	(0010)	5	1	0	0	0	20, 10, 5, 5	
15	(0012)	6	1	1	1	0	25, 13, 6, 6	
20	(004)	2	0	0	0	0	0422	
21	(006)	3	0	1	1	0	5133	
22	(008)	4	0	0	0	0	10, 2, 4, 4	
23	(0010)	5	0	1	1	0	15, 5, 5, 5	
24	(0012)	6	0	0	0	0	20, 8, 6, 6	
25	(0014)	7	0	1	1	0	25, 11, 7, 7	
193.262 P_c6_3/mcm Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_6$ SI = $z_{6m,0}^+$								
\mathbb{Z}_6	weak	$\{1 00\frac{1}{2}\}*$	$6^{001}*$	$2_{00\frac{1}{2}}^{010}$	$i_{00\frac{1}{2}}*$	$2_{00\frac{1}{2}}^{110}*$	$Cm_{(2)}^{100}$	$Cm_{(6)}^{001}$
0	(000)	0	0	0	0	0	66	6600
0	(000)	0	0	0	0	0	22	0000
0	(000)	0	0	0	0	0	22	0000
1	(000)	1	1	0	0	1	11	1100
2	(000)	0	0	0	0	0	22	2200
3	(000)	1	1	0	0	1	33	3300
4	(000)	0	0	0	0	0	44	4400
5	(000)	1	1	0	0	1	55	5500
194.263 $P6_3/mmc$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_6$ SI = $z_{6m,0}^+$								
\mathbb{Z}_6	weak	$6_{00\frac{1}{2}}^{001}$	2^{010}	i	$2_{00\frac{1}{2}}^{110}$	$g_{00\frac{1}{2}}^{010}$	$Cm_{(2)}^{110}$	$Cm_{(6)}^{001}$
0	(000)	0	0	0	0	0	66	6600
0	(000)	0	0	0	0	0	22	0000
0	(000)	0	0	0	0	0	22	0000
1	(000)	0	0	1	0	1	11	1100
2	(000)	0	0	0	0	0	22	2200
3	(000)	0	0	1	0	1	33	3300
4	(000)	0	0	0	0	0	44	4400
5	(000)	0	0	1	0	1	55	5500
194.266 $P6_3'/mm'c$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_3$ SI = $z_{3m,0}^+$								
\mathbb{Z}_3	weak	$6_{00\frac{1}{2}}^{001}*$	2^{010}	$i*$	$2_{00\frac{1}{2}}^{110}*$	$g_{00\frac{1}{2}}^{010}$	$Cm_{(3)}^{001}$	
0	(000)	1	0	0	1	1	3300	
0	(000)	0	0	0	0	0	0000	

1	(000)	1	0	0	1	1	1100	
2	(000)	0	0	0	0	0	2200	
194.267 $P6'_3/mmc'$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_3$ SI = $z_{3m,0}^+$								
\mathbb{Z}_3	weak	$6_{00\frac{1}{2}}^{001}*$	$2^{010}*$	$i*$	$2_{00\frac{1}{2}}^{110}$	$g_{00\frac{1}{2}}^{010}*$	$Cm_{(0)}^{110}$	$Cm_{(3)}^{001}$
0	(000)	1	1	0	0	0	33	3300
0	(000)	0	0	0	0	0	22	0000
0	(000)	0	0	0	0	0	22	0000
1	(000)	1	1	0	0	0	11	1100
2	(000)	0	0	0	0	0	22	2200
194.268 $P6'_3/m'm'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$6_{00\frac{1}{2}}^{001}*$	$2^{010}*$	i	$2_{00\frac{1}{2}}^{110}$	$g_{00\frac{1}{2}}^{010}$		
0	(000)	0	0	0	0	0		
1	(000)	1	1	1	0	1		
194.269 $P6'_3/m'mc'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$6_{00\frac{1}{2}}^{001}*$	2^{010}	i	$2_{00\frac{1}{2}}^{110}*$	$g_{00\frac{1}{2}}^{010}*$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	1	0	1	1	0	11	
194.270 $P6_3/mm'c'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{3,6}$ SI = $z_{3m,\pi}^+, z_{6m,0}^+$								
$\mathbb{Z}_{3,6}$	weak	$6_{00\frac{1}{2}}^{001}$	$2^{010}*$	i	$2_{00\frac{1}{2}}^{110}*$	$g_{00\frac{1}{2}}^{010}*$	$Cm_{(6)}^{001}$	
00	(006)	3	0	0	1	3	0633	
00	(0012)	6	0	0	0	6	30, 18, 6, 6	
00	(006)	3	0	0	1	3	12, 6, 3, 3	
01	(002)	1	1	1	0	1	5311	
02	(004)	2	0	0	0	2	10, 6, 2, 2	
03	(006)	3	1	1	0	3	15, 9, 3, 3	
04	(008)	4	0	0	0	4	20, 12, 4, 4	
05	(0010)	5	1	1	0	5	25, 15, 5, 5	
10	(002)	1	0	0	1	1	0211	
11	(004)	2	1	1	1	2	5122	
12	(006)	3	0	0	1	3	10, 4, 3, 3	
13	(008)	4	1	1	1	4	15, 7, 4, 4	
14	(0010)	5	0	0	1	5	20, 10, 5, 5	
15	(0012)	6	1	1	1	6	25, 13, 6, 6	
20	(004)	2	0	0	0	2	0422	
21	(006)	3	1	1	0	3	5133	
22	(008)	4	0	0	0	4	10, 2, 4, 4	
23	(0010)	5	1	1	0	5	15, 5, 5, 5	
24	(0012)	6	0	0	0	6	20, 8, 6, 6	
25	(0014)	7	1	1	0	7	25, 11, 7, 7	
194.272 $Pc6_3/mmc$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_6$ SI = $z_{6m,0}^+$								
\mathbb{Z}_6	weak	$\{1 00\frac{1}{2}\}*$	$6^{001}*$	$2_{00\frac{1}{2}}^{010}*$	$i_{00\frac{1}{2}}*$	$2_{00\frac{1}{2}}^{110}$	$m_{010}*$	$Cm_{(6)}^{001}$ $Cm_{(2)}^{210}$
0	(000)	0	0	0	0	0	0	6600 66
0	(000)	0	0	0	0	0	0	0000 22
0	(000)	0	0	0	0	0	0	0000 22
1	(000)	1	1	1	0	0	0	1100 11
2	(000)	0	0	0	0	0	0	2200 22
3	(000)	1	1	1	0	0	0	3300 33
4	(000)	0	0	0	0	0	0	4400 44
5	(000)	1	1	1	0	0	0	5500 55
200.14 $Pm\bar{3}$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z'_{2P,1}, z'_{4P}$								
$\mathbb{Z}_{2,4}$	weak	3^{111}	2^{100}	i	$Cm_{(2)}^{100}$			

00	(000)	0	0	0	$\overline{2222}$
00	(000)	0	0	0	$\overline{4400}$
00	(000)	0	0	0	$\overline{2222}$
03	(000)	0	0	1	$\overline{1100}$
02	(000)	0	0	0	$\overline{2200}$
01	(000)	0	0	1	$\overline{3300}$
10	(000)	0	0	0	$\overline{1111}$
13	(000)	0	0	1	$\overline{0011}$
12	(000)	0	0	0	$\overline{1111}$
11	(000)	0	0	1	$\overline{2211}$
<hr/>					
200.17 $P_I m\overline{3}$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}					
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	2^{100}	i $Cm_{(2)}^{010}$
0	(000)	0	0	0	0 4400
0	(000)	0	0	0	0 0000
3	(000)	1	0	0	1 1100
2	(000)	0	0	0	0 2200
1	(000)	1	0	0	1 3300
<hr/>					
201.18 $Pn\overline{3}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	3^{111}	$2^{100}_{0\frac{1}{2}\frac{1}{2}}$	i	
0	(000)	0	0	0	
1	(000)	0	0	1	
<hr/>					
201.21 $P_I n\overline{3}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	$2^{100}_{0\frac{1}{2}\frac{1}{2}}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$
0	(000)	0	0	0	0
1	(000)	1	0	0	0
<hr/>					
202.22 $Fm\overline{3}$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}					
\mathbb{Z}_4	weak	3^{111}	2^{100}	i	$Cm_{(2)}^{001}$
0	(000)	0	0	0	44
0	(000)	0	0	0	00
3	(000)	0	0	1	$\overline{11}$
2	(000)	0	0	0	$\overline{22}$
1	(000)	0	0	1	$\overline{33}$
<hr/>					
202.25 $F_S m\overline{3}$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}					
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	2^{100}	i $Cm_{(2)}^{100}$
0	(000)	0	0	0	0 44
0	(000)	0	0	0	0 00
3	(000)	1	0	0	1 $\overline{11}$
2	(000)	0	0	0	0 $\overline{22}$
1	(000)	1	0	0	1 $\overline{33}$
<hr/>					
203.26 $Fd\overline{3}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	3^{111}	$2^{100}_{0\frac{1}{4}\frac{1}{4}}$	i	
0	(000)	0	0	0	
1	(000)	0	0	1	
<hr/>					
203.29 $F_S d\overline{3}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	$2^{100}_{0\frac{1}{4}\frac{1}{4}}$	i
0	(000)	0	0	0	0
1	(000)	1	0	0	1
<hr/>					
204.30 $Im\overline{3}$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}					
\mathbb{Z}_4	weak	3^{111}	2^{100}	i	$Cm_{(2)}^{010}$
0	(000)	0	0	0	44
0	(000)	0	0	0	00
3	(000)	0	0	1	$\overline{11}$

2	(000)	0	0	0	$2\bar{2}$
1	(000)	0	0	1	$3\bar{3}$
<hr/>					
205.33 $Pa\bar{3}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	3^{111}	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	i	
0	(000)	0	0	0	
1	(000)	0	0	1	
<hr/>					
205.36 $P_1a\bar{3}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$3_{\frac{1}{2}0\frac{1}{2}}^{111}$	$2_{00\frac{1}{2}}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$
0	(000)	0	0	0	0
1	(000)	1	0	1	0
<hr/>					
206.37 $Ia\bar{3}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	3^{111}	$2_{00\frac{1}{2}}^{100}$	i	
0	(000)	0	0	0	
1	(000)	0	0	1	
<hr/>					
215.70 P_143m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}					
\mathbb{Z}_2	weak	3^{111}	4^{100}	$Cm_{(0)}^{110}$	
0	(000)	0	0	$2\bar{2}$	
0	(000)	0	0	$2\bar{2}$	
1	(000)	0	1	$1\bar{1}$	
<hr/>					
215.73 P_143m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	4^{100}	$Cm_{(0)}^{011}$
0	(000)	0	0	0	$2\bar{2}$
0	(000)	0	0	0	$2\bar{2}$
1	(000)	1	0	1	$1\bar{1}$
<hr/>					
216.74 $F43m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}					
\mathbb{Z}_2	weak	3^{111}	4^{100}	$Cm_{(0)}^{101}$	
0	(000)	0	0	$2\bar{2}$	
0	(000)	0	0	$2\bar{2}$	
1	(000)	0	1	$1\bar{1}$	
<hr/>					
216.77 F_S43m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	4^{100}	$Cm_{(0)}^{110}$
0	(000)	0	0	0	$2\bar{2}$
0	(000)	0	0	0	$2\bar{2}$
1	(000)	1	0	1	$1\bar{1}$
<hr/>					
217.78 $I43m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}					
\mathbb{Z}_2	weak	3^{111}	4^{100}	$Cm_{(0)}^{011}$	
0	(000)	0	0	$2\bar{2}$	
0	(000)	0	0	$2\bar{2}$	
1	(000)	0	1	$1\bar{1}$	
<hr/>					
218.81 $P\bar{4}3n$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}					
\mathbb{Z}_2	weak	3^{111}	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	
0	(000)	0	0	0	
1	(000)	0	1	1	
<hr/>					
218.84 P_143n Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	4^{100}	m_{110}
0	(000)	0	0	0	0
1	(000)	1	0	0	0
<hr/>					
219.85 $F43c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}					
\mathbb{Z}_2	weak	3^{111}	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	
0	(000)	0	0	0	
1	(000)	0	1	1	

219.88 F_S43c Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	4^{100}_*	m_{110}^*			
0	(000)	0	0	0	0			
1	(000)	1	0	0	0			
220.89 $I43d$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	3^{111}	$4^{100}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$g^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$				
0	(000)	0	0	0				
1	(000)	0	1	1				
221.92 $Pm\bar{3}m$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{4,8}$ SI = $z_{4m,\pi}^+, z_8$								
$\mathbb{Z}_{4,8}$	weak	3^{111}	4^{100}	i	2^{110}	4^{100}	$Cm_{(4)}^{100}$	$Cm_{(2)}^{011}$
00	(000)	0	0	0	0	0	20, 20, 4, 4	24, 24
00	(000)	0	0	0	0	0	8800	88
00	(000)	0	0	0	0	0	8844	66
00	(000)	0	0	0	0	0	4400	22
03	(000)	0	0	1	0	1	1100	11
06	(000)	0	0	0	0	0	2200	22
01	(000)	0	0	1	0	1	3300	33
04	(000)	0	0	0	0	0	4400	44
07	(000)	0	0	1	0	1	5500	55
02	(000)	0	0	0	0	0	6600	66
05	(000)	0	0	1	0	1	7700	77
10	(000)	0	0	0	0	0	5511	66
13	(000)	0	0	1	0	1	4411	55
16	(000)	0	0	0	0	0	3311	44
11	(000)	0	0	1	0	1	2211	33
14	(000)	0	0	0	0	0	1111	22
17	(000)	0	0	1	0	1	0011	11
12	(000)	0	0	0	0	0	1111	00
15	(000)	0	0	1	0	1	2211	11
20	(000)	0	0	0	0	0	10, 10, 2, 2	12, 12
23	(000)	0	0	1	0	1	9922	11, 11
26	(000)	0	0	0	0	0	8822	10, 10
21	(000)	0	0	1	0	1	7722	99
24	(000)	0	0	0	0	0	6622	88
27	(000)	0	0	1	0	1	5522	77
22	(000)	0	0	0	0	0	4422	66
25	(000)	0	0	1	0	1	3322	55
30	(000)	0	0	0	0	0	15, 15, 3, 3	18, 18
33	(000)	0	0	1	0	1	14, 14, 3, 3	17, 17
36	(000)	0	0	0	0	0	13, 13, 3, 3	16, 16
31	(000)	0	0	1	0	1	12, 12, 3, 3	15, 15
34	(000)	0	0	0	0	0	11, 11, 3, 3	14, 14
37	(000)	0	0	1	0	1	10, 10, 3, 3	13, 13
32	(000)	0	0	0	0	0	9933	12, 12
35	(000)	0	0	1	0	1	8833	11, 11
221.94 $Pm'\bar{3}'m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	3^{111}	4^{100}_*	i^*	2^{110}_*	4^{100}	$Cm_{(0)}^{011}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	0	1	0	1	1	11	
221.95 $Pm\bar{3}m'$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_{2,4}$ SI = $z'_{2P,1}, z'_{4P}$								
$\mathbb{Z}_{2,4}$	weak	3^{111}	4^{100}_*	i	2^{110}_*	4^{100}_*	m_{101}^*	$Cm_{(2)}^{100}$
00	(000)	0	0	0	0	0	0	2222

00	(000)	0	0	0	0	0	0	4400
00	(000)	0	0	0	0	0	0	2222
03	(000)	0	1	1	1	0	0	1100
02	(000)	0	0	0	0	0	0	2200
01	(000)	0	1	1	1	0	0	3300
10	(000)	0	0	0	0	0	0	1111
13	(000)	0	1	1	1	0	0	0011
12	(000)	0	0	0	0	0	0	1111
11	(000)	0	1	1	1	0	0	2211
221.97 $P_1m\bar{3}m$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_8$ $SI = z_8$								
\mathbb{Z}_8	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	4^{100}	i	2^{110}	4^{100}	$Cm_{(2)}^{011}$ $Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	88 8800
0	(000)	0	0	0	0	0	0	22 4400
0	(000)	0	0	0	0	0	0	66 4400
3	(000)	1	0	0	1	0	1	11 1100
6	(000)	0	0	0	0	0	0	22 2200
1	(000)	1	0	0	1	0	1	33 3300
4	(000)	0	0	0	0	0	0	44 4400
7	(000)	1	0	0	1	0	1	55 5500
2	(000)	0	0	0	0	0	0	66 6600
5	(000)	1	0	0	1	0	1	77 7700
222.98 $Pn\bar{3}n$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	3^{111}	$4^{100}_{0\frac{1}{2}0}$	i	$2^{110}_{00\frac{1}{2}}$	$4^{100}_{0\frac{1}{2}0}$	$g^{101}_{0\frac{1}{2}0}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	0	1	0	1	1	
222.100 $Pn'\bar{3}'n$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$								
\mathbb{Z}_2	weak	3^{111}	$4^{100}_{0\frac{1}{2}0}^*$	i^*	$2^{110}_{00\frac{1}{2}}^*$	$4^{100}_{0\frac{1}{2}0}$	$g^{101}_{0\frac{1}{2}0}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	0	1	1	1	
222.101 $Pn\bar{3}n'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	3^{111}	$4^{100}_{0\frac{1}{2}0}^*$	i	$2^{110}_{00\frac{1}{2}}^*$	$4^{100}_{0\frac{1}{2}0}^*$	$g^{101}_{0\frac{1}{2}0}^*$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	1	1	0	0	
222.103 $P_1n\bar{3}n$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	$4^{100}_{0\frac{1}{2}0}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$2^{110}_{00\frac{1}{2}}$	$4^{100}_{\frac{1}{2}0\frac{1}{2}}^*$	$g^{101}_{\frac{1}{2}0\frac{1}{2}}^*$
0	(000)	0	0	0	0	0	0	0
1	(000)	1	0	0	0	0	0	0
223.104 $Pm\bar{3}n$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$								
\mathbb{Z}_4	weak	3^{111}	$4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$g^{101}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$Cm_{(4)}^{100}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
3	(000)	0	0	1	0	1	1	1100
2	(000)	0	0	0	0	0	0	2200
1	(000)	0	0	1	0	1	1	3300
223.106 $Pm'\bar{3}'n$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$								
\mathbb{Z}_2	weak	3^{111}	$4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	i^*	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$g^{101}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	0	1	1	1	
223.107 $Pm\bar{3}n'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$								
\mathbb{Z}_4	weak	3^{111}	$4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$g^{101}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000

3	(000)	0	1	1	1	0	0	1100
2	(000)	0	0	0	0	0	0	2200
1	(000)	0	1	1	1	0	0	3300
223.109 $P1m3n$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	4^{100}_*	i	2^{110}_*	4^{100}_*	m_{101}_* $Cm^{001}_{(4)}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
3	(000)	1	0	1	1	1	0	1100
2	(000)	0	0	0	0	0	0	2200
1	(000)	1	0	1	1	1	0	3300
224.110 $Pn3m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	3^{111}	$4^{100}_{\frac{1}{2}0\frac{1}{2}}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$4^{100}_{\frac{1}{2}0\frac{1}{2}}$	$Cm^{011}_{(2)}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	0	0	1	0	1	11	
224.112 $Pn'3'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	3^{111}	$4^{100}_{\frac{1}{2}0\frac{1}{2}}^*$	i^*	$2^{110}_{\frac{1}{2}\frac{1}{2}0}^*$	$4^{100}_{\frac{1}{2}0\frac{1}{2}}^*$	$Cm^{011}_{(0)}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	0	1	0	1	1	11	
224.113 $Pn\bar{3}m'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	3^{111}	$4^{100}_{\frac{1}{2}0\frac{1}{2}}^*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}^*$	$4^{100}_{\frac{1}{2}0\frac{1}{2}}^*$	$g^{101}_{\frac{1}{2}0\frac{1}{2}}^*$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	1	1	0	0	
224.115 $P1n\bar{3}m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	$4^{100}_{0\frac{1}{2}0}^*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$2^{110}_{00\frac{1}{2}}^*$	$4^{100}_{\frac{1}{2}0\frac{1}{2}}^*$	$Cm^{011}_{(2)}$
0	(000)	0	0	0	0	0	0	22
0	(000)	0	0	0	0	0	0	22
1	(000)	1	0	1	0	1	1	11
225.116 $Fm3m$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_8$ SI = z_8								
\mathbb{Z}_8	weak	3^{111}	4^{100}	i	2^{110}	4^{100}	$Cm^{001}_{(4)}$	$Cm^{101}_{(2)}$
0	(000)	0	0	0	0	0	88	88
0	(000)	0	0	0	0	0	22	44
0	(000)	0	0	0	0	0	66	44
3	(000)	0	0	1	0	1	11	11
6	(000)	0	0	0	0	0	22	22
1	(000)	0	0	1	0	1	33	33
4	(000)	0	0	0	0	0	44	44
7	(000)	0	0	1	0	1	55	55
2	(000)	0	0	0	0	0	66	66
5	(000)	0	0	1	0	1	77	77
225.118 $Fm'3'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	3^{111}	4^{100}_*	i^*	2^{110}_*	4^{100}	$Cm^{101}_{(0)}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	0	1	0	1	1	11	
225.119 $Fm\bar{3}m'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	3^{111}	4^{100}_*	i	2^{110}_*	4^{100}_*	m_{101}_*	$Cm^{001}_{(2)}$
0	(000)	0	0	0	0	0	0	44
0	(000)	0	0	0	0	0	0	00
3	(000)	0	1	1	1	0	0	11
2	(000)	0	0	0	0	0	0	22

1	(000)	0	1	1	1	0	0	33
225.121 $F\bar{S}m3m$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_8$ $SI = z_8$								
\mathbb{Z}_8	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	4^{100}	i	2^{110}	$\bar{4}^{100}$	$Cm_{(4)}^{100}$ $Cm_{(2)}^{011}$
0	(000)	0	0	0	0	0	0	88
0	(000)	0	0	0	0	0	0	44
0	(000)	0	0	0	0	0	0	44
3	(000)	1	0	0	1	0	1	11
6	(000)	0	0	0	0	0	0	22
1	(000)	1	0	0	1	0	1	33
4	(000)	0	0	0	0	0	0	44
7	(000)	1	0	0	1	0	1	55
2	(000)	0	0	0	0	0	0	66
5	(000)	1	0	0	1	0	1	77
226.122 $Fm\bar{3}c$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$								
\mathbb{Z}_4	weak	3^{111}	$4^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	i	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$\bar{4}^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$g^{\frac{101}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	44
0	(000)	0	0	0	0	0	0	00
3	(000)	0	0	1	0	1	1	11
2	(000)	0	0	0	0	0	0	22
1	(000)	0	0	1	0	1	1	33
226.124 $Fm'\bar{3}'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$								
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}*$	$i*$	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}*$	$\bar{4}^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$g^{\frac{101}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	0	1	1	1	
226.125 $Fm\bar{3}c'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$								
\mathbb{Z}_4	weak	3^{111}	$4^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}*$	i	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}*$	$\bar{4}^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}*$	$g^{\frac{101}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}*$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	0	44
0	(000)	0	0	0	0	0	0	00
3	(000)	0	1	1	1	0	0	11
2	(000)	0	0	0	0	0	0	22
1	(000)	0	1	1	1	0	0	33
226.127 $F\bar{S}m3c$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$								
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	4^{100*}	i	2^{110*}	$\bar{4}^{100*}$	m_{101*} $Cm_{(4)}^{100}$
0	(000)	0	0	0	0	0	0	44
0	(000)	0	0	0	0	0	0	00
3	(000)	1	0	1	1	1	0	11
2	(000)	0	0	0	0	0	0	22
1	(000)	1	0	1	1	1	0	33
227.128 $Fd\bar{3}m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{4}0\frac{1}{4}}}$	i	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}0}}$	$\bar{4}^{\frac{100}{\frac{1}{4}0\frac{1}{4}}}$	$Cm_{(2)}^{011}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	0	0	1	0	1	11	
227.130 $Fd'\bar{3}'m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$								
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{4}0\frac{1}{4}}}*$	$i*$	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}0}}*$	$\bar{4}^{\frac{100}{\frac{1}{4}0\frac{1}{4}}}$	$Cm_{(0)}^{011}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	0	1	0	1	1	11	
227.131 $Fd\bar{3}m'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$								
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{4}0\frac{1}{4}}}*$	i	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}0}}*$	$\bar{4}^{\frac{100}{\frac{1}{4}0\frac{1}{4}}}*$	$g^{\frac{101}{\frac{1}{4}0\frac{1}{4}}}*$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	1	1	0	0	

227.133 $F_S d\bar{3}m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	3^{111}	$4^{\frac{100}{\frac{1}{4}\frac{1}{2}\frac{1}{4}}}$	i	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}0}}$	$4^{\frac{100}{\frac{1}{4}0\frac{1}{4}}}$	$Cm_{(2)}^{011}$
0	(000)	0	0	0	0	0	0	22
0	(000)	0	0	0	0	0	0	22
1	(000)	1	0	0	1	0	1	11
228.134 $Fd\bar{3}c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{4}\frac{1}{2}\frac{1}{4}}}$	i	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{2}}}$	$4^{\frac{100}{\frac{1}{4}\frac{1}{2}\frac{1}{4}}}$	$g^{\frac{101}{\frac{1}{4}\frac{1}{2}\frac{1}{4}}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	0	1	0	1	1	
228.136 $Fd'\bar{3}'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{4}\frac{1}{2}\frac{1}{4}}}^*$	i^*	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{2}}}^*$	$4^{\frac{100}{\frac{1}{4}\frac{1}{2}\frac{1}{4}}}$	$g^{\frac{101}{\frac{1}{4}\frac{1}{2}\frac{1}{4}}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	0	1	1	1	
228.137 $Fd\bar{3}c'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{4}\frac{1}{2}\frac{1}{4}}}^*$	i	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{2}}}^*$	$4^{\frac{100}{\frac{1}{4}\frac{1}{2}\frac{1}{4}}}^*$	$g^{\frac{101}{\frac{1}{4}\frac{1}{2}\frac{1}{4}}}^*$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	1	1	0	0	
228.139 $F_S d\bar{3}c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$3^{\frac{111}{0\frac{1}{4}\frac{1}{4}}}$	$4^{\frac{010}{\frac{1}{4}\frac{1}{4}0}}^*$	i	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}0}}^*$	$4^{\frac{010}{\frac{1}{4}\frac{1}{4}0}}^*$	$m_{0\bar{1}1}^*$
0	(000)	0	0	0	0	0	0	0
1	(000)	1	0	1	1	1	0	0
229.140 $Im\bar{3}m$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_8$ SI = z_8								
\mathbb{Z}_8	weak	3^{111}	4^{100}	i	2^{110}	4^{100}	$Cm_{(2)}^{011}$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	88	88
0	(000)	0	0	0	0	0	22	44
0	(000)	0	0	0	0	0	66	44
3	(000)	0	0	1	0	1	11	11
6	(000)	0	0	0	0	0	22	22
1	(000)	0	0	1	0	1	33	33
4	(000)	0	0	0	0	0	44	44
7	(000)	0	0	1	0	1	55	55
2	(000)	0	0	0	0	0	66	66
5	(000)	0	0	1	0	1	77	77
229.142 $Im'\bar{3}'m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	3^{111}	4^{100*}	i^*	2^{110*}	4^{100}	$Cm_{(0)}^{011}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	0	1	0	1	1	11	
229.143 $Im\bar{3}m'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	3^{111}	4^{100*}	i	2^{110*}	4^{100*}	m_{101}^*	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	0	44
0	(000)	0	0	0	0	0	0	00
3	(000)	0	1	1	1	0	0	11
2	(000)	0	0	0	0	0	0	22
1	(000)	0	1	1	1	0	0	33
230.145 $Ia\bar{3}d$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	i	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$4^{\frac{100}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$g^{\frac{101}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	0	1	0	1	1	
230.147 $Ia'\bar{3}'d$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}^*$	i^*	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}^*$	$4^{\frac{100}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	$g^{\frac{101}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}}$	

0	(000)	0	0	0	0	0	0
1	(000)	0	1	0	1	1	1
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230.148 $Ia\bar{3}d'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*}$	i	$2^{\frac{110}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*}$	$4^{\frac{100}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*}$	$g^{\frac{101}{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*}$
0	(000)	0	0	0	0	0	0
1	(000)	0	1	1	1	0	0
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