

I. MAPPING TABLE OF SYMMETRY-BASED INDICATORS AND TOPOLOGICAL INVARIANTS IN MAGNETIC SPACE GROUPS

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			
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	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		
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	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			
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	3.4	P_62	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		
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	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	0011	
010	(010)	0	1	0101	
011	(010)	0	0	0110	
100	(010)	0	0	1201	
101	(010)	0	1	1212	
110	(000)	0	1	1100	
111	(000)	0	0	1111	
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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 $P_a 2/m$ 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	0011
10	(000)	1	0	1	1100
11	(000)	0	0	0	1111
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10.48 $P_b 2/m$ 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	1100
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10.49 $P_C 2/m$ 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	1100
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11.50 $P 2_1/m$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_2$ $SI = z_{2P}^J$					
\mathbb{Z}_2	weak	$2_{0\frac{1}{2}0}^{010}$	i	$Cm_{(2)}^{010}$	
0	(000)	0	0	2200	
0	(020)	1	0	2011	
0	(000)	0	0	2200	
1	(000)	0	1	1100	
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11.54 $P 2'_1/m'$ 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	$2_{0\frac{1}{2}0}^{010}$	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	(101)	0	0		
112	(101)	1	1		
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11.55 $P_a 2_1/m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2P}^J$					
\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	2200
0	(000)	0	0	0	2200
1	(000)	1	0	1	1100
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11.56 $P_b 2_1/m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2P}^J$					
\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	2200
0	(000)	0	0	0	2200
1	(000)	1	1	0	1100
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11.57 $P_C 2_1/m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2P}^J$					
\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	2200
0	(000)	0	0	0	2200
1	(000)	1	1	0	1100

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	22	
00	(000)	0	0	22	
00	(000)	0	0	22	
01	(000)	0	1	11	
10	(110)	0	0	11	
11	(110)	0	1	20	
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		
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	22
0	(000)	0	0	0	22
1	(000)	1	0	1	11
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	22
0	(000)	0	0	0	22
1	(000)	1	0	1	11
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	0	
1	(000)	1	0	1	
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	0	
1	(000)	1	0	1	
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	0	

1	(000)	1	0	0
13.73 $P_A 2/c$ 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	0
1	(000)	1	0	0
13.74 $P_C 2/c$ 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
14.75 $P_2 1/c$ 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 $P_2' 1/c'$ 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 $P_a 2_1/c$ 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	0
1	(000)	1	0	1
14.81 $P_b 2_1/c$ 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	0
1	(000)	1	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 $C 2/c$ 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 $C 2'/c'$ 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	
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15.90 C_22/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
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15.91 C_22/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
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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
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17.10 $P2'2'_1$ 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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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37.185 $Cacc2$ 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
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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
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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
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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
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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
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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	001 $\bar{1}$	$\bar{1}100$	001 $\bar{1}$
1100	(000)	0	0	0	0	331 $\bar{1}$	331 $\bar{1}$	4400
1103	(000)	0	0	1	0	221 $\bar{1}$	221 $\bar{1}$	3300
1102	(000)	0	0	0	0	111 $\bar{1}$	111 $\bar{1}$	2200
1101	(000)	0	0	1	0	001 $\bar{1}$	001 $\bar{1}$	1100
1110	(000)	0	0	0	0	551 $\bar{1}$	551 $\bar{1}$	551 $\bar{1}$
1113	(000)	0	0	1	0	441 $\bar{1}$	441 $\bar{1}$	441 $\bar{1}$
1112	(000)	0	0	0	0	331 $\bar{1}$	331 $\bar{1}$	331 $\bar{1}$
1111	(000)	0	0	1	0	221 $\bar{1}$	221 $\bar{1}$	221 $\bar{1}$
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		
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}	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$
000	(000)	0	0	0	0	0	4400	2222
000	(000)	0	0	0	0	0	4400	4400
000	(000)	0	0	0	0	0	4400	4400
000	(000)	0	0	0	0	0	2200	2222
000	(000)	0	0	0	0	0	0000	2200
000	(000)	0	0	0	0	0	2200	2200
000	(000)	0	0	0	0	0	2200	2222
003	(000)	1	0	0	1	0	1100	1100
002	(000)	0	0	0	0	0	2200	2200
001	(000)	1	0	0	1	0	3300	3300
010	(000)	0	0	0	0	0	2200	2200
013	(000)	1	0	0	1	0	1100	1100
012	(000)	0	0	0	0	0	0000	0000
011	(000)	1	0	0	1	0	1100	1100
100	(000)	0	0	0	0	0	2200	1111
103	(000)	1	0	0	1	0	1100	0011
102	(000)	0	0	0	0	0	0000	1111
101	(000)	1	0	0	1	0	1100	2211
110	(000)	0	0	0	0	0	4400	3311
113	(000)	1	0	0	1	0	3300	2211
112	(000)	0	0	0	0	0	2200	1111
111	(000)	1	0	0	1	0	1100	0011
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}	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$
00	(000)	0	0	0	0	0	4400	2222
00	(000)	0	0	0	0	0	4400	4400
00	(000)	0	0	0	0	0	0000	2200
00	(000)	0	0	0	0	0	2200	2222
00	(000)	0	0	0	0	0	2200	2200
03	(000)	1	0	0	1	0	1100	1100
02	(000)	0	0	0	0	0	2200	2200
01	(000)	1	0	0	1	0	3300	3300
10	(000)	0	0	0	0	0	2200	1111
13	(000)	1	0	0	1	0	1100	0011
12	(000)	0	0	0	0	0	0000	1111

11	(000)	1	0	0	1	0	1100	2211	1100
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47.256 P_1mmm 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 $Pnnn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$2^{\frac{001}{\frac{1}{2}\frac{1}{2}0}}$	$2^{\frac{010}{\frac{1}{2}0\frac{1}{2}}}$	i	$2^{\frac{100}{0\frac{1}{2}\frac{1}{2}}}$				
0	(000)	0	0	0	0				
1	(000)	0	0	1	0				
<hr/>									
48.260 $Pn'n'n$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$2^{\frac{001}{\frac{1}{2}\frac{1}{2}0}}$	$2^{\frac{010}{\frac{1}{2}0\frac{1}{2}}}^*$	i	$2^{\frac{100}{0\frac{1}{2}\frac{1}{2}}}^*$				
0	(000)	0	0	0	0				
0	(002)	0	1	0	1				
1	(000)	0	1	1	1				
<hr/>									
48.262 P_cnnn Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2^{\frac{001}{\frac{1}{2}\frac{1}{2}0}}$	$2^{\frac{010}{\frac{1}{2}00}}^*$	i	$2^{\frac{100}{0\frac{1}{2}0}}^*$			
0	(000)	0	0	0	0	0			
1	(000)	1	0	1	1	1			
<hr/>									
48.263 P_cnnn Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2^{\frac{001}{\frac{1}{2}\frac{1}{2}0}}$	$2^{\frac{010}{\frac{1}{2}0\frac{1}{2}}}$	$i\frac{1}{2}\frac{1}{2}0^*$	$2^{\frac{100}{0\frac{1}{2}\frac{1}{2}}}$			
0	(000)	0	0	0	0	0			
1	(000)	1	0	0	0	0			
<hr/>									
48.264 P_1nnn Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2^{\frac{001}{\frac{1}{2}\frac{1}{2}0}}$	$2^{\frac{010}{\frac{1}{2}0\frac{1}{2}}}$	$i\frac{1}{2}\frac{1}{2}\frac{1}{2}^*$	$2^{\frac{100}{0\frac{1}{2}\frac{1}{2}}}$			
0	(000)	0	0	0	0	0			
1	(000)	1	0	0	0	0			
<hr/>									
49.265 $Pccm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	2^{001}	$2^{\frac{010}{00\frac{1}{2}}}$	i	$2^{\frac{100}{00\frac{1}{2}}}$	$Cm_{(2)}^{001}$			
0	(000)	0	0	0	0	2200			
0	(000)	0	0	0	0	2200			
1	(000)	0	0	1	0	1100			
<hr/>									
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}	$2^{\frac{010}{00\frac{1}{2}}}^*$	i	$2^{\frac{100}{00\frac{1}{2}}}^*$	$Cm_{(2)}^{001}$			
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			
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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}^*	$2^{\frac{010}{00\frac{1}{2}}}$	i	$2^{\frac{100}{00\frac{1}{2}}}^*$				
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				
<hr/>									
49.272 $P_a ccm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	2^{001}	$2^{\frac{010}{00\frac{1}{2}}}$	i	$2^{\frac{100}{00\frac{1}{2}}}$	$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	2200		
0	(000)	0	0	0	0	0	2200		

\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2_{\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}00}^{010}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$2_{0\frac{1}{2}0}^{100}$		
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	$2_{\frac{1}{2}00}^{001}$	2^{010}	i	$2_{\frac{1}{2}00}^{100}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$	
00	(000)	0	0	0	0	2200	2200	
00	(000)	0	0	0	0	2200	0022	
00	(000)	0	0	0	0	2200	0000	
00	(000)	0	0	0	0	0000	0022	
01	(000)	0	0	1	0	1100	0011	
10	(000)	0	0	1	0	1100	1100	
11	(000)	0	0	0	0	0000	1111	

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	2200		
0	(200)	1	0	0	1	2011		
0	(000)	0	0	0	0	2200		
1	(000)	1	1	1	0	1100		

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	(020)	0	0	0	0	2402		
000	(020)	0	0	0	0	0202		
000	(000)	0	0	0	0	0022		
000	(000)	0	0	0	0	0022		
001	(000)	1	0	1	1	0011		
010	(010)	1	0	1	1	0101		
011	(010)	0	0	0	0	0110		
100	(010)	0	0	0	0	1201		
101	(010)	1	0	1	1	1212		
110	(000)	1	0	1	1	1100		
111	(000)	0	0	0	0	1111		

51.298 $P_a mma$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z_{2m,0}^+, z_{2m,\pi}^+$								
$\mathbb{Z}_{2,2}$	weak	$\{1 \frac{1}{2}00\}^*$	$2_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}00}^{010}$	$i_{\frac{1}{2}00}^*$	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	0022
00	(000)	0	0	0	0	0	2200	0000
00	(000)	0	0	0	0	0	0000	0022
01	(000)	1	0	1	0	1	1100	0011
10	(000)	1	0	1	0	1	1100	1100
11	(000)	0	0	0	0	0	0000	1111

51.299 $P_b mma$ 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	1100	1100

51.300 $P_c mma$ Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z_{2m,0}^+, z_{2m,\pi}^+$								
$\mathbb{Z}_{2,2}$	weak	$\{1 00\frac{1}{2}\}^*$	$2_{\frac{1}{2}00}^{001}$	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	0022
00	(000)	0	0	0	0	0	2200	0000
00	(000)	0	0	0	0	0	0000	0022
01	(000)	1	0	0	1	0	1100	0011
10	(000)	1	0	0	1	0	1100	1100
11	(000)	0	0	0	0	0	0000	1111
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51.301 P_{Amma} 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	$2_{\frac{1}{2}00}^{010}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$
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	1100	1100
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51.302 P_Bmma Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_{2,2}$ SI = $z_{2m,0}^+, z_{2m,\pi}^+$								
$\mathbb{Z}_{2,2}$	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}^*$	$2_{\frac{1}{2}0\frac{1}{2}}^{010}*$	$2_{00\frac{1}{2}}^{100}*$	$i_{\frac{1}{2}0\frac{1}{2}}*$	$2_{\frac{1}{2}00}^{001}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$
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	1100	0011
10	(000)	1	1	1	0	0	1100	1100
11	(000)	0	0	0	0	0	0000	1111
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51.303 P_Cmma Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ SI = $z_{2m,0}^+$								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}\frac{1}{2}0}^{010}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2_{0\frac{1}{2}0}^{100}*$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$
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	1100	1100
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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	$2_{\frac{1}{2}00}^{010}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$
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	1100	1100
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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			
<hr/>								
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			
<hr/>								
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			
<hr/>								
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			
<hr/>								
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	$\{1 0\frac{1}{2}\frac{1}{2}\}^*$	$2^{\frac{100}{00}}*$	$2^{\frac{010}{\frac{1}{2}00}}*$	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	$2^{\frac{010}{00}}*$
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	$2^{\frac{100}{00}}$	$Cm_{(2)}^{100}$
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	$1\bar{1}00$
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	$2^{\frac{100}{00}}*$	
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	$2^{\frac{100}{00}}$	$Cm_{(2)}^{100}$
00	(000)	0	0	0	0	$2\bar{2}00$
00	(400)	0	0	0	0	$40\bar{2}2$
00	(000)	0	0	0	0	$2\bar{2}00$
01	(200)	0	0	1	0	2011
10	(000)	1	1	1	0	$1\bar{1}00$
11	(200)	1	1	0	0	$3\bar{1}11$
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	$2^{\frac{100}{00}}*$	
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 $Pamna$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	$2^{\frac{010}{00\frac{1}{2}}}*$	$2^{\frac{100}{00}}$	i	$2^{\frac{001}{00\frac{1}{2}}}*$ $Cm_{(2)}^{100}$
0	(000)	0	0	0	0	$2\bar{2}00$

0	(000)	0	0	0	0	0	2200
1	(000)	1	1	0	1	1	1100
<hr/>							
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
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53.332 $P_{cm} na$ 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
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53.333 $P_{Am} na$ 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
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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
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53.335 $P_{Cm} na$ 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
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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
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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		
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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		
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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		
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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 $Pbam$ 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	2200
00	(000)	0	0	0	0	0022
00	(000)	0	0	0	0	0022
01	(000)	0	0	1	0	0011
10	(000)	0	0	1	0	1100
11	(000)	0	0	0	0	1111
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	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
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}	$2_{\frac{1}{2}\frac{1}{2}0}^{010}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	
0	(000)	0	0	0	0	
0	(020)	0	1	0	1	
1	(000)	1	0	1	1	

55.360 $P_a bam$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z_{2m,0}^+, z_{2m,\pi}^+$							
$\mathbb{Z}_{2,2}$	weak	$\{1 \frac{1}{2}00\}^*$	$2_{0\frac{1}{2}0}^{100}*$	$2_{\frac{1}{2}00}^{001}*$	$i_{\frac{1}{2}00}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{010}$	$Cm_{(2)}^{001}$
00	(000)	0	0	0	0	0	2200
00	(000)	0	0	0	0	0	0022
00	(000)	0	0	0	0	0	0022
01	(000)	1	1	1	0	0	0011
10	(000)	1	1	1	0	0	1100
11	(000)	0	0	0	0	0	1111
55.361 $P_c bam$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2m,0}^+$							
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	2^{001}	$2_{\frac{1}{2}\frac{1}{2}0}^{010}$	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	0	1	0	1100
55.362 $P_A bam$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2m,0}^+$							
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}^*$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	$2_{\frac{1}{2}\frac{1}{2}0}^{010}$	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	0	0	1	0	1100
55.363 $P_C bam$ 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	0	2200
00	(000)	0	0	0	0	0	0022
00	(000)	0	0	0	0	0	0022
01	(000)	1	0	1	1	1	0011
10	(000)	1	0	1	1	1	1100
11	(000)	0	0	0	0	0	1111
55.364 $P_I bam$ 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}	$2_{00\frac{1}{2}}^{010}*$	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
56.365 $Pccn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$							
\mathbb{Z}_2	weak	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	i	$2_{\frac{1}{2}0\frac{1}{2}}^{100}$		
0	(000)	0	0	0	0		
1	(000)	0	0	1	0		
56.369 $Pc'cn$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z'_{2C}, z'_{2P}$							
$\mathbb{Z}_{2,2}$	weak	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}*$	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		
56.370 $Pc'cn'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$							
\mathbb{Z}_2	weak	$2_{\frac{1}{2}\frac{1}{2}0}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	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	$\{1 0\frac{1}{2}0\}^*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{00\frac{1}{2}}^{010}*$	$i_{0\frac{1}{2}0}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}*$	
0	(000)	0	0	0	0	0	
1	(000)	1	0	1	0	1	
56.373 P_ccn Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$							
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{010}*$	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	$\{1 0\frac{1}{2}\frac{1}{2}\}^*$	$2_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{\frac{1}{2}0\frac{1}{2}}^{001}*$	i	$2_{0\frac{1}{2}0}^{010}*$
0	(000)	0	0	0	0	0
1	(000)	1	0	1	1	1
56.375 P_{Ccn} 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	1	0	1
56.376 P_{Iccn} Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}00}^{010}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2_{0\frac{1}{2}0}^{100}*$
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 $P_a b c m$ 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	2200
0	(000)	0	0	0	0	2200
1	(000)	1	0	0	1	1100
57.387 $P_b b c m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}0\}^*$	$2_{00\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}0}^{010}$	$i_{0\frac{1}{2}0}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{001}*$ $Cm_{(2)}^{001}$
0	(000)	0	0	0	0	2200
0	(000)	0	0	0	0	2200
1	(000)	1	1	0	0	1100
57.388 $P_c b c m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}						
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$2^{001}*$	$i_{00\frac{1}{2}}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$ $Cm_{(2)}^{001}$
0	(000)	0	0	0	0	2200
0	(000)	0	0	0	0	2200
1	(000)	1	1	1	0	1100
57.389 $P_A b c m$ 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	2200
0	(000)	0	0	0	0	2200

1	(000)	1	1	0	0	1	1100
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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
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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
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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
<hr/>							
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	
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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	
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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	1	0	
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58.400 $P_a n n m$ 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
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58.401 $P_c n n m$ 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
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58.402 $P_B n n m$ 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
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58.403 $P_C n n m$ 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^{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

\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 $P_a bcn$ 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
1	(000)	1	1	1	0
60.427 $P_b bcn$ 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
1	(000)	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	$\{1 00\frac{1}{2}\}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{001}*$	$i_{00\frac{1}{2}}*$ $2_{00\frac{1}{2}}^{010}$
0	(000)	0	0	0	0
1	(000)	1	1	1	0
60.429 $P_A bcn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$i_{0\frac{1}{2}\frac{1}{2}}*$ $2_{00\frac{1}{2}}^{010}$
0	(000)	0	0	0	0
1	(000)	1	0	0	0
60.430 $P_B bcn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$2_{00\frac{1}{2}}^{010}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	$i_{\frac{1}{2}0\frac{1}{2}}*$ $2_{0\frac{1}{2}0}^{001}*$
0	(000)	0	0	0	0
1	(000)	1	0	1	0
60.431 $P_C bcn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{010}$	i $2^{100}*$
0	(000)	0	0	0	0
1	(000)	1	1	0	1
60.432 $P_I bcn$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}*$	$2_{00\frac{1}{2}}^{010}$	i $2_{00\frac{1}{2}}^{100}*$
0	(000)	0	0	0	0
1	(000)	1	1	0	1
61.433 $Pbca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$2_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$
0	(000)	0	0	0	0
1	(000)	0	0	1	0
61.436 $Pb'c'a$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$2_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}*$	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		
61.438 $P_a bca$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}00\}^*$	$2_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010}$	$i_{\frac{1}{2}00}^*$	$2_{0\frac{1}{2}0}^{100}$	
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	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{0\frac{1}{2}\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	i	2^{100}	
0	(000)	0	0	0	0	0	
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	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2_{\frac{1}{2}00}^{010}$	$2_{0\frac{1}{2}0}^{001}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$	$2_{00\frac{1}{2}}^{100}$	
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	$2_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}0}^{010}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$Cm_{(2)}^{010}$	
0	(000)	0	0	0	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	$2_{\frac{1}{2}0\frac{1}{2}}^{001}$	$2_{0\frac{1}{2}0}^{010}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$		
0	(000)	0	0	0	0		
0	(002)	1	0	0	1		
1	(000)	0	1	1	1		
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		
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	0	2200	
0	(020)	0	1	0	1	2011	
0	(000)	0	0	0	0	2200	
1	(000)	1	0	1	1	1100	
62.450 $P_a nma$ 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	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	1	0	0	1100
62.451 $P_b nma$ 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	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	1	0	0	1100
62.452 $P_c nma$ 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	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	0	0	1	1100
62.453 $P_A nma$ 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	0	0	2200

0	(000)	0	0	0	0	0	2200
1	(000)	1	0	1	0	1	1100
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62.454 $P_B nma$ 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	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	0	1	1	1	1100
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62.455 $P_C nma$ 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	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	0	0	1	1100
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62.456 $P_I nma$ 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	0	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	0	1	1	1100
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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	2200	22
0	(000)	0	0	0	0	2200	00
0	(000)	0	0	0	0	0000	22
1	(000)	0	0	1	0	1100	11
<hr/>							
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	2200	
0	(002)	1	1	0	0	2011	
0	(000)	0	0	0	0	2200	
1	(000)	0	1	1	1	1100	
<hr/>							
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	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	
<hr/>							
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		
<hr/>							
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	2200 22
0	(000)	0	0	0	0	0	2200 00
0	(000)	0	0	0	0	0	0000 22
1	(000)	1	1	1	1	0	1100 11
<hr/>							
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 22
0	(000)	0	0	0	0	0	2200 00
0	(000)	0	0	0	0	0	0000 22

1	(000)	1	0	0	1	0	1100	11
63.468 C_{Amcm} 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	2200	22
0	(000)	0	0	0	0	0	2200	00
0	(000)	0	0	0	0	0	0000	22
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	22		
0	(000)	0	0	0	0	22		
1	(000)	0	0	1	0	11		
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	$2_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}*$	i	2^{100}	$Cm_{(2)}^{100}$		
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	$2_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	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	$\{1 00\frac{1}{2}\}^*$	$2_{0\frac{1}{2}0}^{001}*$	$2_{00\frac{1}{2}}^{100}*$	$i_{00\frac{1}{2}}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	$Cm_{(2)}^{100}$	
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	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$2_{00\frac{1}{2}}^{010}*$	$2_{0\frac{1}{2}0}^{100}*$	$i_{0\frac{1}{2}0}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{001}$	$Cm_{(2)}^{100}$	
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}	$Cm_{(2)}^{100}$	
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}	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{100}$
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} *	$Cm_{(2)}^{001}$		
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		
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	(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}	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	44	4400
0	(000)	0	0	0	0	0	00	2200
0	(000)	0	0	0	0	0	22	0000
0	(000)	0	0	0	0	0	22	2200
3	(000)	1	0	0	1	0	11	1100
2	(000)	0	0	0	0	0	22	2200
1	(000)	1	0	0	1	0	33	3300
65.489 $C_a m m m$ 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}	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$
00	(000)	0	0	0	0	0	44	44
00	(000)	0	0	0	0	0	44	4400
00	(000)	0	0	0	0	0	22	00
00	(000)	0	0	0	0	0	00	22
00	(000)	0	0	0	0	0	22	2222
03	(000)	1	0	0	1	0	11	11
02	(000)	0	0	0	0	0	22	22
01	(000)	1	0	0	1	0	33	33
10	(000)	0	0	0	0	0	22	22
13	(000)	1	0	0	1	0	11	11
12	(000)	0	0	0	0	0	00	00
11	(000)	1	0	0	1	0	11	11
65.490 $C_A m m m$ 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}	$Cm_{(2)}^{001}$	$Cm_{(2)}^{010}$
0	(000)	0	0	0	0	0	4400	44
0	(000)	0	0	0	0	0	0000	22
0	(000)	0	0	0	0	0	2200	00
0	(000)	0	0	0	0	0	2200	22
3	(000)	1	0	0	1	0	1100	11

2	(000)	0	0	0	0	0	2200	22	22
1	(000)	1	0	0	1	0	3300	33	33
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66.491 $Cccm$ 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	$2^{100}_{00\frac{1}{2}}$	$Cm^{001}_{(2)}$			
0	(000)	0	0	0	0	2200			
0	(000)	0	0	0	0	2200			
1	(000)	0	0	1	0	1100			
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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	$2^{100}_{00\frac{1}{2}}*$	$Cm^{001}_{(2)}$			
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			
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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				
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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	0	2200		
0	(000)	0	0	0	0	0	2200		
1	(000)	1	0	1	1	1	1100		
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66.499 $C_a ccm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	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		
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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	0	2200	22	
0	(000)	0	0	0	0	0	2200	00	
0	(000)	0	0	0	0	0	0000	22	
1	(000)	1	1	1	0	0	1100	11	
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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	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		
<hr/>									
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				
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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	
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67.508 C_{cmma} Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$							
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$2_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{010}$	i	2^{100}	$Cm_{(2)}^{010}$ $Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	22
0	(000)	0	0	0	0	0	22
0	(000)	0	0	0	0	0	00
0	(000)	0	0	0	0	0	22
1	(000)	1	0	0	1	0	11
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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^{010}	$Cm_{(2)}^{010}$ $Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	22
0	(000)	0	0	0	0	0	22
0	(000)	0	0	0	0	0	00
0	(000)	0	0	0	0	0	22
1	(000)	1	0	1	0	1	11
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67.510 C_{amma} Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i_{0\frac{1}{2}\frac{1}{2}}^*$	$2_{00\frac{1}{2}}^{010}$	$Cm_{(2)}^{001}$ $Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	0000
0	(000)	0	0	0	0	0	22
1	(000)	1	1	1	0	0	1100
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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		
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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		
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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		
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68.518 $Ccca$ 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^{010}	
0	(000)	0	0	0	0	0	
1	(000)	1	0	1	1	1	
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68.519 $Cacca$ 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	
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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	
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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

0	(000)	0	0	0	0	00	22	22
0	(000)	0	0	0	0	22	00	22
0	(000)	0	0	0	0	22	22	00
3	(000)	0	0	1	0	11	11	11
2	(000)	0	0	0	0	22	22	22
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	(220)	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	(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	00
3	(000)	1	0	0	1	0	11	11
2	(000)	0	0	0	0	0	22	22
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	$2^{\frac{1}{4}\frac{1}{4}0}$	$2^{\frac{010}{4}0\frac{1}{4}}$	i	$2^{\frac{100}{4}\frac{1}{4}\frac{1}{4}}$			
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	$2^{\frac{001}{4}\frac{1}{4}0}$	$2^{\frac{010}{4}0\frac{1}{4}}^*$	i	$2^{\frac{100}{4}\frac{1}{4}\frac{1}{4}}^*$			
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	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$2^{\frac{001}{4}\frac{1}{4}0}$	$2^{\frac{010}{4}0\frac{1}{4}}$	$i\frac{1}{2}\frac{1}{2}\frac{1}{2}^*$	$2^{\frac{100}{4}\frac{1}{4}\frac{1}{4}}$		
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	22	00	22
0	(000)	0	0	0	0	22	22	00
3	(000)	0	0	1	0	11	11	11
2	(000)	0	0	0	0	22	22	22
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	(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	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}	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	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}	$2^{010}_{00\frac{1}{2}}$	i	$2^{100}_{00\frac{1}{2}}$	$Cm^{001}_{(2)}$			
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}	$2^{010}_{00\frac{1}{2}}*$	i	$2^{100}_{00\frac{1}{2}}*$	$Cm^{001}_{(2)}$			
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	$2^{001}*$	$2^{010}_{00\frac{1}{2}}*$	i	$2^{100}_{00\frac{1}{2}}$				
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>Icbam</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	$2^{100}*$	$Cm^{001}_{(2)}$		
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>Ibbam</i> Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$2^{010}_{\frac{1}{2}00}*$	$2^{100}_{\frac{1}{2}00}*$	i	2^{001}	$Cm^{001}_{(2)}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	22		
1	(000)	1	1	1	1	0	11		
73.548 <i>Ibca</i> Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$2^{001}_{0\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}$	i	$2^{100}_{00\frac{1}{2}}$				
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	$2^{001}_{0\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}*$	i	$2^{100}_{00\frac{1}{2}}*$				
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>Icbca</i> Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}_{0\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}0}*$	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	$2^{001}_{0\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}0}$	i	2^{100}	$Cm^{010}_{(2)}$	$Cm^{100}_{(2)}$		
0	(000)	0	0	0	0	22	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
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74.558 $Im'm'a$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z_{2P,2}, z'_{2P}$							
$\mathbb{Z}_{2,2}$	weak	$2_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}0}^{010}$ *	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		
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74.559 $Imm'a'$ Classification = $\mathbb{Z}_M \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z_{2P,2}, z'_{2P}$							
$\mathbb{Z}_{2,2}$	weak	$2_{0\frac{1}{2}0}^{001}$ *	$2_{0\frac{1}{2}0}^{010}$ *	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	
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74.561 I_cmma 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
<hr/>							
74.562 I_bmma 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^{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
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75.1 $P4$ 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					
<hr/>							
75.5 $PC4$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}$ *	4^{001}				
0	(000)	1	0				
<hr/>							
77.13 $P4_2$ 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					
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77.17 $PC4_2$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}$ *	$4_{00\frac{1}{2}}^{001}$				
0	(000)	1	0				
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79.25 $I4$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$							
\mathbb{Z}_2	weak	4^{001}					
0	(222)	0					
1	(111)	0					
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81.33 $P4$ 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
81.36 $P_c\bar{4}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}			
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}^*$	$\bar{4}^{001}$
0	(000)	0	0
1	(000)	1	1
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	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$\bar{4}^{001}$
00	(000)	0	0
10	(000)	1	1
81.38 $P_I\bar{4}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}			
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$\bar{4}^{001}$
0	(000)	0	0
1	(000)	1	1
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
82.42 $I_c\bar{4}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}			
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$\bar{4}^{001}$
0	(000)	0	0
1	(000)	1	1
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	4^{001}	i
000	(0012)	0	0
000	(004)	0	0
000	(000)	0	0
000	(000)	0	0
001	(000)	0	1
002	(000)	0	0
003	(000)	0	1
010	(001)	0	1
011	(001)	0	0
012	(001)	0	1
013	(001)	0	0
020	(002)	0	0
021	(002)	0	1
022	(002)	0	0
023	(002)	0	1
030	(003)	0	1
031	(003)	0	0
032	(003)	0	1
033	(003)	0	0
100	(003)	0	0
101	(003)	0	1
102	(003)	0	0
103	(003)	0	1
110	(002)	0	1
111	(002)	0	0
112	(002)	0	1
113	(002)	0	0
120	(001)	0	0

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
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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	$\bar{2}222$
00	(000)	0	0	0	0	4400
00	(000)	0	0	0	0	2222
03	(000)	1	1	0	0	1100
02	(000)	0	0	0	0	2200
01	(000)	1	1	0	0	3300
10	(000)	0	0	0	0	1111
13	(000)	1	1	0	0	0011
12	(000)	0	0	0	0	$\bar{1}\bar{1}\bar{1}\bar{1}$
11	(000)	1	1	0	0	$\bar{2}\bar{2}\bar{1}\bar{1}$
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83.47 $P4'/m'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$						
\mathbb{Z}_2	weak	4^{001*}	$i*$	$\bar{4}^{001}$	$\bar{4}^{001}$	
0	(000)	0	0	0	0	
1	(000)	1	0	1	1	
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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	$\bar{4}^{001}$	$\bar{4}^{001}$ $Cm_{(4)}^{001}$
0	(000)	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
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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	$\bar{4}^{001}$	$\bar{4}^{001}$	$Cm_{(4)}^{001}$
00	(000)	0	0	0	0	0	4400
00	(000)	0	0	0	0	0	0044
00	(000)	0	0	0	0	0	0044
01	(000)	1	0	1	1	1	0011
02	(000)	0	0	0	0	0	0022
03	(000)	1	0	1	1	1	0033
10	(000)	1	0	1	1	1	1100
11	(000)	0	0	0	0	0	1111
12	(000)	1	0	1	1	1	1122
13	(000)	0	0	0	0	0	1133
20	(000)	0	0	0	0	0	2200
21	(000)	1	0	1	1	1	2211
22	(000)	0	0	0	0	0	2222
23	(000)	1	0	1	1	1	2233
30	(000)	1	0	1	1	1	3300
31	(000)	0	0	0	0	0	3311
32	(000)	1	0	1	1	1	3322
33	(000)	0	0	0	0	0	3333
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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	$\bar{4}^{001}$	$\bar{4}^{001}$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0000
1	(000)	1	0	1	1	1	1100
2	(000)	0	0	0	0	0	2200
3	(000)	1	0	1	1	1	3300
<hr/>							
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	$\bar{4}_{00\frac{1}{2}}^{001}$	$\bar{4}_{00\frac{1}{2}}^{001}$	$Cm_{(4)}^{001}$	
00	(004)	2	0	0	0	0	0422
00	(000)	0	0	0	0	0	4400
00	(000)	0	0	0	0	0	0000
01	(000)	0	1	1	1	1	1100
02	(000)	0	0	0	0	0	2200
03	(000)	0	1	1	1	1	3300
10	(002)	1	1	0	0	0	0211
11	(002)	1	0	1	1	1	1111
12	(002)	1	1	0	0	0	2011
13	(002)	1	0	1	1	1	3111
<hr/>							
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	0	2200
0	(000)	0	0	0	0	0	2200
1	(000)	1	1	0	0	0	1100
<hr/>							
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		
<hr/>							
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
<hr/>							
84.57 $P_C 4_2/m$ 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
<hr/>							
84.58 $P_I 4_2/m$ 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
<hr/>							
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		
<hr/>							
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		
<hr/>							
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		
<hr/>							
85.64 $P_c 4/n$ 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	
<hr/>							
85.65 $P_C 4/n$ 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	
<hr/>							
85.66 $P_I 4/n$ 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	
<hr/>							
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	$\bar{4}_{0\frac{1}{2}\frac{1}{2}}^{001}$	$\bar{4}_{10\frac{1}{2}}^{001}$		
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)	$\bar{1}$	0	1	1	
86.69 $P4'_2/n$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$						
\mathbb{Z}_2	weak	$4^{001}_{0\frac{1}{2}\frac{1}{2}}*$	i	$\bar{4}^{001}_{0\frac{1}{2}\frac{1}{2}}*$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}*$	
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	$4^{001}_{0\frac{1}{2}\frac{1}{2}}*$	$i*$	$\bar{4}^{001}_{0\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$	
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	$\{1 00\frac{1}{2}\}*$	$4^{001}_{0\frac{1}{2}0}*$	i	$\bar{4}^{001}_{0\frac{1}{2}0}*$	$\bar{4}^{001}_{\frac{1}{2}00}*$
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	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{001}_{0\frac{1}{2}\frac{1}{2}}$	$i\frac{1}{2}\frac{1}{2}0*$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$\bar{4}^{001}_{0\frac{1}{2}\frac{1}{2}}*$
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	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4^{001}_{\frac{1}{2}00}*$	$i\frac{1}{2}\frac{1}{2}\frac{1}{2}*$	$\bar{4}^{001}_{0\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$
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	$\bar{4}^{001}$	$\bar{4}^{001}$	$Cm^{001}_{(4)}$
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	22
03	(000)	0	1	1	1	33
10	(111)	0	0	0	0	11
11	(111)	0	1	1	1	20
12	(111)	0	0	0	0	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	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	$\bar{4}^{001}*$	$\bar{4}^{001}*$	$Cm^{001}_{(2)}$
0	(000)	0	0	0	0	44
0	(000)	0	0	0	0	00
3	(000)	1	1	0	0	11
2	(000)	0	0	0	0	22
1	(000)	1	1	0	0	33
87.79 $I4'/m'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$						
\mathbb{Z}_2	weak	$4^{001}*$	$i*$	$\bar{4}^{001}$	$\bar{4}^{001}$	
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	$\bar{4}^{001}$	$\bar{4}^{001}$ $Cm^{001}_{(4)}$
0	(000)	0	0	0	0	44

0	(000)	0	0	0	0	0	00
1	(000)	1	0	1	1	1	11
2	(000)	0	0	0	0	0	22
3	(000)	1	0	1	1	1	33
<hr/>							
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	$4^{\overline{001}}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	i	$\overline{4}^{\overline{001}}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$\overline{4}^{\overline{001}}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$		
00	(444)	2	0	0	0		
00	(444)	2	0	0	0		
01	(222)	1	1	0	0		
10	(222)	1	0	1	1		
11	(000)	0	1	1	1		
<hr/>							
88.83 $I4'_1/a$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$							
\mathbb{Z}_2	weak	$4^{\overline{001}}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	i	$\overline{4}^{\overline{001}}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$\overline{4}^{\overline{001}}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$		
0	(000)	0	0	0	0		
1	(000)	1	1	0	0		
<hr/>							
88.85 $I4'_1/a'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$							
\mathbb{Z}_2	weak	$4^{\overline{001}}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$i*$	$\overline{4}^{\overline{001}}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$\overline{4}^{\overline{001}}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$		
0	(000)	0	0	0	0		
1	(000)	1	0	1	1		
<hr/>							
88.86 I_c4_1/a Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{\overline{001}}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	i	$\overline{4}^{\overline{001}}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$\overline{4}^{\overline{001}}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	
0	(000)	0	0	0	0	0	
1	(000)	1	0	1	1	1	
<hr/>							
89.90 $P42'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_4$ $SI = z_{4C}$							
\mathbb{Z}_4	weak	$4^{\overline{001}}$	$2^{\overline{100}}*$	$2^{\overline{110}}*$			
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			
<hr/>							
90.98 $P42'_12'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_4$ $SI = z_{4C}$							
\mathbb{Z}_4	weak	$4^{\overline{001}}_{\frac{1}{2}\frac{1}{2}0}$	$2^{\overline{100}}_{\frac{1}{2}\frac{1}{2}0}*$	$2^{\overline{110}}*$			
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			
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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	$4^{\overline{001}}_{00\frac{1}{2}}$	$2^{\overline{100}}*$	$2^{\overline{110}}_{00\frac{1}{2}}*$			
0	(004)	2	0	0			
0	(000)	0	1	1			
1	(002)	1	1	0			
<hr/>							
94.130 $P4_22'_12'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$							
\mathbb{Z}_2	weak	$4^{\overline{001}}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$2^{\overline{100}}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{\overline{110}}*$			
0	(004)	2	0	0			
0	(000)	0	1	1			
1	(002)	1	0	1			
<hr/>							
97.154 $I42'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z_{4C}/2$							
\mathbb{Z}_2	weak	$4^{\overline{001}}$	$2^{\overline{100}}*$	$2^{\overline{110}}*$			
0	(222)	0	0	0			
0	(000)	0	1	1			
1	(111)	0	1	1			
<hr/>							
99.167 $P4m'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_4$ $SI = z_{4C}$							
\mathbb{Z}_4	weak	$4^{\overline{001}}$	$m_{100}*$	$m_{110}*$			
0	(004)	0	0	0			

3	(001)	0	0	0
2	(002)	0	0	0
1	(003)	0	0	0
<hr/>				
100.175 $P4b'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_4$ SI = z_{4C}				
\mathbb{Z}_4	weak	4^{001}	$g_{\frac{1}{2}\frac{1}{2}0}^{100}$ *	$g_{\frac{1}{2}\frac{1}{2}0}^{110}$ *
0	(004)	0	0	0
3	(001)	0	0	0
2	(002)	0	0	0
1	(003)	0	0	0
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101.183 $P4_2c'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = $z_{4C}/2$				
\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{100}$ *	m_{110} *
0	(004)	2	2	0
1	(002)	1	1	0
<hr/>				
102.191 $P4_2n'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_2$ SI = $z_{4C}/2$				
\mathbb{Z}_2	weak	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$ *	m_{110} *
0	(004)	2	2	0
1	(002)	1	1	0
<hr/>				
103.199 $P4c'c'$ 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	(008)	0	4	4
3	(002)	0	1	1
2	(004)	0	2	2
1	(006)	0	3	3
<hr/>				
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
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104.209 $Pc4nc$ 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 0
<hr/>				
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
<hr/>				
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
<hr/>				
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
<hr/>				
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
<hr/>				
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
<hr/>				
111.251 $P4_2m$ 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
<hr/>				
111.255 $P42'm'$ 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
<hr/>				
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	22
1	(000)	1	1	11
<hr/>				
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	22
0	(000)	0	0	22
1	(000)	1	1	11
<hr/>				
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	22
0	(000)	0	0	22
1	(000)	1	1	11
<hr/>				
112.259 $P42c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$				
\mathbb{Z}_2	weak	4^{001}	2^{100}	$g_{00\frac{1}{2}}^{110}$
0	(000)	0	0	0
1	(000)	1	0	1
<hr/>				
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^{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
<hr/>				
112.264 P_c42c 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
1	(000)	1	1	0
<hr/>				
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^{010}
0	(000)	0	0	0
1	(000)	1	1	0
<hr/>				
112.266 P_I42c 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}	2^{100} $g_{\frac{1}{2}\frac{1}{2}0}^{110}$
0	(000)	0	0	0
1	(000)	1	0	0
<hr/>				
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^{100}	$Cm_{(0)}^{110}$
0	(000)	0	0	22
0	(000)	0	0	22

1	(000)	1	0	11	
<hr/>					
	113.271	$P42_1m'$	Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,4}$ SI = $z_2, \text{Weyl}, z_2, S_4, z_4C$		
$\mathbb{Z}_{2,2,4}$	weak	$\bar{4}^{001}$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	
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	
<hr/>					
	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	22
0	(000)	0	0	0	22
1	(000)	1	1	0	11
<hr/>					
	113.273	P_C42_1m	Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_2, S_4		
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$\bar{4}_{\frac{1}{2}\frac{1}{2}}^{001}*$	$2_{000}^{010}*$	$Cm_{(0)}^{110}$
0	(000)	0	0	0	22
0	(000)	0	0	0	22
1	(000)	1	0	1	11
<hr/>					
	113.274	P_742_1m	Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_2, S_4		
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$\bar{4}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{100}*$	$Cm_{(0)}^{110}$
0	(000)	0	0	0	22
0	(000)	0	0	0	22
1	(000)	1	0	1	11
<hr/>					
	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	
<hr/>					
	114.279	$P42_1c'$	Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,2}$ SI = $z_2, \text{Weyl}, z_2, S_4, z_4C/2$		
$\mathbb{Z}_{2,2,2}$	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	
<hr/>					
	114.280	P_c42_1c	Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_2, S_4		
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$\bar{4}_{00\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$
0	(000)	0	0	0	0
1	(000)	1	0	0	0
<hr/>					
	114.281	P_C42_1c	Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_2, S_4		
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$\bar{4}_{\frac{1}{2}\frac{1}{2}}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$2_{00\frac{1}{2}}^{010}*$
0	(000)	0	0	0	0
1	(000)	1	0	1	1
<hr/>					
	114.282	P_742_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
<hr/>					
	115.283	$P4m2$	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	1111	
0	(000)	0	0	1111	

1	(000)	1	0	1100	
<hr/>					
	115.287	$P4m'2'$	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}	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	
<hr/>					
	115.288	P_c4m2	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	0	2200
0	(000)	0	0	0	1111
0	(000)	0	0	0	1111
1	(000)	1	1	0	1100
<hr/>					
	115.289	P_C4m2	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	0	2200
0	(000)	0	0	0	2200
1	(000)	1	1	0	1100
<hr/>					
	115.290	P_I4m2	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	0	2200
0	(000)	0	0	0	2200
1	(000)	1	1	0	1100
<hr/>					
	116.291	$P4c2$	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	
<hr/>					
	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	
<hr/>					
	116.296	P_c4c2	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	0
1	(000)	1	0	0	0
<hr/>					
	116.297	P_C4c2	Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}		
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	4^{001}	$2_{00\frac{1}{2}}^{110}$	$g_{00\frac{1}{2}}^{010}$
0	(000)	0	0	0	0
1	(000)	1	1	0	1
<hr/>					
	116.298	P_I4c2	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	0
1	(000)	1	1	1	0
<hr/>					
	117.299	$P4b2$	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	0
1	(000)	1	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	0
1	(000)	1	0	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	0
1	(000)	1	1	0	1
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	0
1	(000)	1	0	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	0
1	(000)	1	0	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	0
1	(000)	1	0	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					
<hr/>									
119.320 I_c4m2 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	0	22				
0	(000)	0	0	0	22				
1	(000)	1	1	0	11				
<hr/>									
120.321 $I4c2$ 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					
<hr/>									
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	4^{001}	$g_{00\frac{1}{2}}^{100}*$	$2_{00\frac{1}{2}}^{110}*$					
000	(000)	0	0	0					
000	(111)	0	1	1					
010	(000)	1	0	1					
<hr/>									
120.326 I_c4c2 Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$4_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{110}$	$m_{010}*$				
0	(000)	0	0	0	0				
1	(000)	1	0	0	0				
<hr/>									
121.327 $I42m$ 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					
<hr/>									
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	4^{001}	$2^{100}*$	$m_{110}*$					
000	(000)	0	0	0					
000	(111)	0	0	0					
010	(000)	1	1	0					
<hr/>									
121.332 I_c42m Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	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				
<hr/>									
122.333 $I42d$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	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					
<hr/>									
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	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					
<hr/>									
122.338 I_c42d Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}									
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	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				
<hr/>									
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	4^{001}	2^{100}	i	2^{110}	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	3311	2222	44
127	(000)	0	0	1	0	1	2211	1122	33
122	(000)	0	0	0	0	0	1111	0022	22
125	(000)	0	0	1	0	1	0011	1122	11
130	(000)	0	0	0	0	0	9911	7733	10, 10
133	(000)	0	0	1	0	1	8811	6633	99
136	(000)	0	0	0	0	0	7711	5533	88
131	(000)	0	0	1	0	1	6611	4433	77

134	(000)	0	0	0	0	0	5511	3333	66
137	(000)	0	0	1	0	1	4411	2233	55
132	(000)	0	0	0	0	0	3311	1133	44
135	(000)	0	0	1	0	1	2211	0033	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}	4^{001*}	$Cm_{(2)}^{001}$	$Cm_{(2)}^{110}$	
00	(000)	0	0	0	0	0	2222	44	
00	(000)	0	0	0	0	0	4400	44	
00	(000)	0	0	0	0	0	2222	22	
00	(000)	0	0	0	0	0	0000	22	
03	(000)	1	1	1	0	0	1100	11	
02	(000)	0	0	0	0	0	2200	22	
01	(000)	1	1	1	0	0	3300	33	
10	(000)	0	0	0	0	0	1111	22	
13	(000)	1	1	1	0	0	0011	11	
12	(000)	0	0	0	0	0	1111	00	
11	(000)	1	1	1	0	0	2211	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*}	4^{001*}	$m_{1\bar{1}0*}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{001}$
000	(000)	0	0	0	0	0	0	2222	0000
000	(000)	0	0	0	0	0	0	4400	2222
000	(000)	0	0	0	0	0	0	4400	4400
000	(000)	0	0	0	0	0	0	0022	0000
000	(000)	0	0	0	0	0	0	2200	2222
003	(000)	1	0	1	1	0	0	1100	1100
002	(000)	0	0	0	0	0	0	2200	2200
001	(000)	1	0	1	1	0	0	3300	3300
010	(000)	0	0	0	0	0	0	2200	1111
013	(000)	1	0	1	1	0	0	1100	0011
012	(000)	0	0	0	0	0	0	0000	1111
011	(000)	1	0	1	1	0	0	1100	2211
100	(000)	0	0	0	0	0	0	1111	0000
103	(000)	1	0	1	1	0	0	2211	1100
102	(000)	0	0	0	0	0	0	3311	2200
101	(000)	1	0	1	1	0	0	4411	3300
110	(000)	0	0	0	0	0	0	1111	1111
113	(000)	1	0	1	1	0	0	0011	0011
112	(000)	0	0	0	0	0	0	1111	1111
111	(000)	1	0	1	1	0	0	2211	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*}	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		
123.345 $P4/mm'm'$ 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^{100*}	i	2^{110*}	4^{001}	$m_{1\bar{1}0*}$	$Cm_{(4)}^{001}$	
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_{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		
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}	$\bar{4}^{001}$	$Cm_{(2)}^{100}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$
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	$\{1 \frac{1}{2}0\}^*$	4^{001}	2^{110}	i	2^{010}	$\bar{4}^{001}$	$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{100}$
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	77	7700	7700
10	(000)	0	0	0	0	0	0	22	1111	2200
13	(000)	1	0	0	1	0	1	11	0011	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	11	1122	1100
24	(000)	0	0	0	0	0	0	00	2222	0000
27	(000)	1	0	0	1	0	1	11	3322	1100
22	(000)	0	0	0	0	0	0	22	4422	2200
25	(000)	1	0	0	1	0	1	33	5522	3300
30	(000)	0	0	0	0	0	0	66	3333	6600
33	(000)	1	0	0	1	0	1	55	2233	5500

36	(000)	0	0	0	0	0	0	44	$\bar{1}13\bar{3}$	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	$\bar{1}\bar{1}$	4433	$\bar{1}\bar{1}00$
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123.350 P_I4/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}	$\bar{4}^{001}$	$Cm_{(2)}^{010}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$
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	$\bar{2}\bar{2}$
0	(000)	0	0	0	0	0	0	4400	4400	22
3	(000)	1	0	0	1	0	1	1100	1100	$\bar{1}\bar{1}$
6	(000)	0	0	0	0	0	0	2200	2200	$\bar{2}\bar{2}$
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	$\bar{7}\bar{7}$
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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	$2_{00\frac{1}{2}}^{110}$	$\bar{4}^{001}$	$g_{00\frac{1}{2}}^{110}$	$Cm_{(4)}^{001}$		
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		
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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	$2_{00\frac{1}{2}}^{110*}$	$\bar{4}^{001*}$	$g_{00\frac{1}{2}}^{110*}$	$Cm_{(2)}^{001}$		
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		
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124.355 $P4'/mcc'$ 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	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		
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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*}	$2_{00\frac{1}{2}}^{100*}$	i^*	$2_{00\frac{1}{2}}^{110*}$	$\bar{4}^{001}$	$g_{00\frac{1}{2}}^{110}$			
0	(000)	0	0	0	0	0	0			
1	(000)	1	0	0	1	1	1			
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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}	$2_{00\frac{1}{2}}^{100*}$	i	$2_{00\frac{1}{2}}^{110*}$	$\bar{4}^{001}$	$g_{00\frac{1}{2}}^{110*}$	$Cm_{(4)}^{001}$		
00	(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	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	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	$\bar{1}$	3 $\bar{1}$ 11
32	(004)	0	1	1	1	1	$\bar{2}$	3122
33	(006)	0	1	0	1	0	3	3333
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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	
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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 $\bar{1}$ 00
2	(000)	0	0	0	0	0	0	0
3	(000)	1	0	1	1	1	1	0
<hr/>								
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	1 $\bar{1}$ 00
2	(000)	0	0	0	0	0	0	0
3	(000)	1	0	0	1	0	1	1
<hr/>								
124.362 P_14/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	$2^{110}_{00\frac{1}{2}}$	$\bar{4}^{001}$	$g^{100}_{00\frac{1}{2}}$ $Cm^{001}_{(4)}$
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	1 $\bar{1}$ 00
2	(000)	0	0	0	0	0	0	0
3	(000)	1	0	0	1	0	1	1
<hr/>								
125.363 $P4/nbm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{2}00}$	$2^{100}_{0\frac{1}{2}0}$	i	2^{110}	$\bar{4}^{001}_{\frac{1}{2}00}$	$Cm^{110}_{(2)}$	
0	(000)	0	0	0	0	0	2 $\bar{2}$	
0	(000)	0	0	0	0	0	2 $\bar{2}$	
1	(000)	0	0	1	0	1	1 $\bar{1}$	
<hr/>								
125.366 $P4'/nb'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{0\frac{1}{2}0}*$	i	2^{110}	$\bar{4}^{001}_{\frac{1}{2}00}*$	$Cm^{110}_{(2)}$	
0	(000)	0	0	0	0	0	2 $\bar{2}$	
0	(000)	0	0	0	0	0	2 $\bar{2}$	
1	(000)	1	1	1	0	0	1 $\bar{1}$	
<hr/>								
125.367 $P4'/nbm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{0\frac{1}{2}0}$	i	$2^{110}*$	$\bar{4}^{001}_{\frac{1}{2}00}*$	$g^{110}_{\frac{1}{2}\frac{1}{2}0}*$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	0	1	1	0	0	
<hr/>								
125.368 $P4'/n'b'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{0\frac{1}{2}0}$	$i*$	$2^{110}*$	$\bar{4}^{001}_{\frac{1}{2}00}$	$Cm^{110}_{(0)}$	
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 $\bar{1}$	
<hr/>								
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	$4^{001}_{\frac{1}{2}00}$	$2^{100}_{0\frac{1}{2}0}*$	i	$2^{110}*$	$\bar{4}^{001}_{\frac{1}{2}00}$	$g^{110}_{\frac{1}{2}\frac{1}{2}0}*$	

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
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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
<hr/>							
125.372 P_c4/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	$2\bar{2}$
0	(000)	0	0	0	0	0	$2\bar{2}$
1	(000)	1	0	0	1	0	$1\bar{1}$
<hr/>							
125.373 P_c4/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	$2\bar{2}$
0	(000)	0	0	0	0	0	$2\bar{2}$
1	(000)	1	1	1	0	0	$1\bar{1}$
<hr/>							
125.374 P_14/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	$2\bar{2}$
0	(000)	0	0	0	0	0	$2\bar{2}$
1	(000)	1	0	0	0	0	$1\bar{1}$
<hr/>							
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	$2_{00\frac{1}{2}}^{110}$	$4_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
0	(000)	0	0	0	0	0	0
1	(000)	0	0	1	0	1	1
<hr/>							
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	$2_{00\frac{1}{2}}^{110}$	$4_{\frac{1}{2}00}^{001*}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
0	(000)	0	0	0	0	0	0
1	(000)	1	1	1	0	0	1
<hr/>							
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	$2_{00\frac{1}{2}}^{110}$	$4_{\frac{1}{2}00}^{001*}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
0	(000)	0	0	0	0	0	0
1	(000)	1	0	1	1	0	0
<hr/>							
126.380 $P4'/n'n'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}							
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i*$	$2_{00\frac{1}{2}}^{110}$	$4_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
0	(000)	0	0	0	0	0	0
1	(000)	1	0	0	1	1	1
<hr/>							
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	$2_{00\frac{1}{2}}^{110}$	$4_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
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
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126.382 $P4'/n'nc'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}							
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i*$	$2_{00\frac{1}{2}}^{110}$	$4_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
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} *	$\bar{4}_{\frac{1}{2}00}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}$ *
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_14/nnc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$4_{\frac{1}{2}00}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$ *	$2_{00\frac{1}{2}}^{110}$	$\bar{4}_{0\frac{1}{2}\frac{1}{2}}^{001}$ *	$m_{1\bar{1}0}$ *
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	1111
12	(000)	0	0	1	0	1	11	1122
13	(000)	0	0	0	0	0	22	1133
20	(000)	0	0	0	0	0	22	2200
21	(000)	0	0	1	0	1	11	2211
22	(000)	0	0	0	0	0	00	2222
23	(000)	0	0	1	0	1	11	2233
30	(000)	0	0	1	0	1	33	3300
31	(000)	0	0	0	0	0	22	3311
32	(000)	0	0	1	0	1	11	3322
33	(000)	0	0	0	0	0	00	3333
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	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$\bar{4}^{001}$ *	$Cm_{(2)}^{110}$	$Cm_{(2)}^{001}$
00	(000)	0	0	0	0	0	44	2222
00	(000)	0	0	0	0	0	44	4400
00	(000)	0	0	0	0	0	22	0000
00	(000)	0	0	0	0	0	22	2222
03	(000)	1	1	1	0	0	11	1100
02	(000)	0	0	0	0	0	22	2200
01	(000)	1	1	1	0	0	33	3300
10	(000)	0	0	0	0	0	22	1111
13	(000)	1	1	1	0	0	11	0011
12	(000)	0	0	0	0	0	00	1111
11	(000)	1	1	1	0	0	11	2211
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	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$ *	$\bar{4}^{001}$ *	$g_{\frac{1}{2}\frac{1}{2}0}^{110}$ *	$Cm_{(2)}^{001}$
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)	1	0	1	1	0	0	1100
02	(000)	0	0	0	0	0	0	2200
01	(000)	1	0	1	1	0	0	3300
10	(000)	0	0	0	0	0	0	1111

13	(000)	1	0	1	1	0	0	0011
12	(000)	0	0	0	0	0	0	1111
11	(000)	1	0	1	1	0	0	2211
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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^*	$2_{\frac{1}{2}\frac{1}{2}0}^{110*}$	$\bar{4}^{001}$	$Cm_{(0)}^{110}$	
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	0	0	1	1	1	11
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127.393 $P4/m'b'm'$ 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	$2_{\frac{1}{2}\frac{1}{2}0}^{110*}$	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110*}$	$Cm_{(4)}^{001}$
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
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 $Pc4/mbm$ 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 $Pc4/mbm$ 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	$2^{010}*$	$\bar{4}_{\frac{1}{2}\frac{1}{2}0}^{001}*$	m_{100}^{110} $Cm_{(2)}^{110}$ $Cm_{(4)}^{001}$
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_I4/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
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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	
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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	
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128.403 $P4'/mnc'$ 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	0	1	1	0	0	1100	
2	(000)	0	0	0	0	0	0	2200	
1	(000)	1	0	1	1	0	0	3300	
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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*}	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$i*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	0	0	1	1	1		
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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}	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$Cm_{(4)}^{001}$	
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	
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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*}	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$i*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	1	0	0	1	0		
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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}	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}$	$Cm_{(4)}^{001}$
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
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128.409 P_C4/mnc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z_{4m,0}^+$									
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}^*$	$4_{\frac{1}{2}0}^{001}$	$2_{\frac{1}{2}\frac{1}{2}}^{110}$	i	$2_{00\frac{1}{2}}^{010}$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}$	$g_{00\frac{1}{2}}^{100}$	$cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0	0000
1	(000)	1	1	0	1	1	0	0	1100
2	(000)	0	0	0	0	0	0	0	2200
3	(000)	1	1	0	1	1	0	0	3300
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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
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129.411 $P4/nmm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}00}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$4_{\frac{1}{2}00}^{001}$	$cm_{(2)}^{100}$	$cm_{(2)}^{110}$	
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	
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129.414 $P4'/nm'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}00}^{100}$	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	22		
0	(000)	0	0	0	0	0	22		
1	(000)	1	1	1	0	0	11		
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129.415 $P4'/nmm'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}00}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$4_{\frac{1}{2}00}^{001}$	$m_{1\bar{1}0}$	$cm_{(2)}^{100}$	
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	
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129.416 $P4'/n'm'm$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}00}^{100}$	i^*	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$4_{\frac{1}{2}00}^{001}$	$cm_{(0)}^{110}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	22		
1	(000)	1	0	0	1	1	11		
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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	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}00}^{100}$	i	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$4_{\frac{1}{2}00}^{001}$	$m_{1\bar{1}0}$		
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		
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129.418 $P4'/n'mm'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$									
\mathbb{Z}_2	weak	$4_{\frac{1}{2}00}^{001}$	$2_{\frac{1}{2}00}^{100}$	i^*	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$4_{\frac{1}{2}00}^{001}$	$m_{1\bar{1}0}$	$cm_{(0)}^{100}$	
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	

\mathbb{Z}_2	weak	$4_{00\frac{1}{2}}^{001}*$	$2^{100}*$	$i*$	$2_{00\frac{1}{2}}^{110}$	$\bar{4}_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{110}*$	$Cm_{(0)}^{100}$		
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	$2^{110}*$	$\bar{4}^{001}*$	$m_{1\bar{1}0}*$	$Cm_{(2)}^{100}$	$Cm_{(4)}^{001}$
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 $PC4_2/mmc$ 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}	$\bar{4}_{00\frac{1}{2}}^{001}$	$Cm_{(2)}^{010}$	$Cm_{(4)}^{001}$	
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	$2_{\frac{1}{2}\frac{1}{2}0}^{110}$	$\bar{4}_{\frac{1}{2}\frac{1}{2}0}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}$	$Cm_{(2)}^{010}$	$Cm_{(4)}^{001}$
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}	$\bar{4}_{00\frac{1}{2}}^{001}$	$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$		
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 $P4_2'/mcm$ 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}	$\bar{4}_{00\frac{1}{2}}^{001}$	$Cm_{(2)}^{110}$	$Cm_{(2)}^{001}$		
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}	$\bar{4}_{00\frac{1}{2}}^{001}$	$m_{1\bar{1}0}$	$Cm_{(2)}^{001}$		
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		

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 $Pc4_2/mcm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z_{4P}'								
\mathbb{Z}_4	weak	$\{1 00\frac{1}{2}\}*$	4_{001}^{001}	2^{100}	i	2^{110}	4_{001}^{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 $Pc4_2/mcm$ 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	$2_{00\frac{1}{2}}^{100}$	$4_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{100}$ $Cm_{(2)}^{110}$ $Cm_{(4)}^{001}$
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 $P14_2/mcm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z_{4P}'								
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{\frac{1}{2}\frac{1}{2}0}^{001}$	$2_{00\frac{1}{2}}^{100}$	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	1	0	0	0	1	

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	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}0}^{100}$	$i*$	$2_{00\frac{1}{2}}^{110}*$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	
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	$2_{00\frac{1}{2}}^{110}*$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$	
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	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}0}^{100}*$	$i*$	$2_{00\frac{1}{2}}^{110}$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$	
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	$2_{000}^{110}*$	$\bar{4}_{\frac{1}{2}00}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$
0	(000)	0	0	0	0	0	0	0
1	(000)	1	1	0	1	1	0	0
133.469 P_C4_2/nbc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2_{\frac{1}{2}00}^{010}$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}00}^{100}*$
0	(000)	0	0	0	0	0	0	0
1	(000)	1	1	1	0	0	1	0
133.470 P_I4_2/nbc Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{0\frac{1}{2}0}^{001}*$	$2_{0\frac{1}{2}0}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{110}*$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$
0	(000)	0	0	0	0	0	0	0
1	(000)	1	1	0	0	1	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}	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$	$Cm_{(2)}^{110}$	
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}	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$Cm_{(2)}^{110}$	
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	$2^{110}*$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	
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	$4_{\frac{1}{2}0\frac{1}{2}}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i*$	$2^{110}*$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$	$Cm_{(0)}^{110}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	1	0	0	1	1	11	
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	$2^{110}*$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	
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}	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	0	0	1	0	
134.480 P_c4_2/nm 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	22
0	(000)	0	0	0	0	0	0	22
1	(000)	1	1	1	1	0	0	11
134.481 P_c4_2/nm 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	22
0	(000)	0	0	0	0	0	0	22
1	(000)	1	1	1	0	0	1	11
134.482 P_I4_2/nm Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{0\frac{1}{2}0}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{001}$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	0	$\bar{2}\bar{2}$
0	(000)	0	0	0	0	0	0	$\bar{2}\bar{2}$
1	(000)	1	1	0	0	1	1	$\bar{1}\bar{1}$
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	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\bar{4}_{00\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$Cm_{(4)}^{001}$
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 $P4'_2/m'b'c$ 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	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\bar{4}_{00\frac{1}{2}}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$Cm_{(2)}^{001}$
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 $P4'_2/m'b'c'$ 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	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\bar{4}_{00\frac{1}{2}}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$Cm_{(2)}^{001}$
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	$4_{00\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}0}^{100}$	$i*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\bar{4}_{00\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	
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	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\bar{4}_{00\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$	$Cm_{(4)}^{001}$
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)	$\bar{1}$	0	0	1	1	$\bar{1}$	$3\bar{1}11$
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	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ $Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
1	(000)	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	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	i	2^{110}	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	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
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	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	$i*$	2^{110}	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$Cm_{(0)}^{110}$	
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	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}$	i	2^{110}	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	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
<hr/>								
136.502 $P4'_2/n'm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	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}	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$m_{1\bar{1}0}$	$*$
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	0	0	1	0	
<hr/>								
136.504 $Pc4_2/mnm$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	$\{1 00\frac{1}{2}\}*$	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}*$	i	2_{000}^{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	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
<hr/>								
136.505 P_C4_2/mnm Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_4$ SI = z'_{4P}								
\mathbb{Z}_4	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$	i	$2_{00\frac{1}{2}}^{010}*$	$4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{100}* Cm_{(4)}^{001} Cm_{(2)}^{110}$
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
<hr/>								
136.506 P_I4_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
<hr/>								
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
<hr/>								
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	
<hr/>								
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
<hr/>								
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	$2_{\frac{1}{2}\frac{1}{2}0}^{110}*$	$4_{\frac{1}{2}00}^{001}*$	$m_{1\bar{1}0}*$ $Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	0	2200
0	(000)	0	0	0	0	0	0	2200
1	(000)	1	1	0	1	1	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_14_2/nmc Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{0\frac{1}{2}0}^{001}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$ $Cm_{(2)}^{010}$
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
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	$4^{\frac{001}{\frac{1}{2}0\frac{1}{2}}*}$	$2^{\frac{100}{\frac{1}{2}0\frac{1}{2}}*}$	$i*$	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}0}}$	$\bar{4}^{\frac{001}{\frac{1}{2}0\frac{1}{2}}}$	$m_{1\bar{1}0*}$	
0	(000)	0	0	0	0	0	0	
1	(000)	1	1	0	0	1	0	
138.528		P_c4_2/nm	Classification = \mathbb{Z}_M			$X_{BS} = \mathbb{Z}_2$	SI = z'_{2P}	
\mathbb{Z}_2	weak	$\{1 00\frac{1}{2}\}*$	$4^{\frac{001}{\frac{1}{2}00}*}$	$2^{\frac{100}{\frac{1}{2}00}*}$	i	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}0}}$	$\bar{4}^{\frac{001}{\frac{1}{2}00}*}$	$Cm_{(2)}^{\frac{110}{10}}$
0	(000)	0	0	0	0	0	0	22
0	(000)	0	0	0	0	0	0	$\bar{2}\bar{2}$
1	(000)	1	1	1	1	0	0	11
138.529		$Pc4_2/nm$	Classification = \mathbb{Z}_M			$X_{BS} = \mathbb{Z}_2$	SI = z'_{2P}	
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{\frac{001}{\frac{1}{2}0\frac{1}{2}}}$	$2^{\frac{110}{0000}*}$	$i\frac{1}{2}\frac{1}{2}0*$	$2^{\frac{110}{\frac{1}{2}0\frac{1}{2}}*}$	$\bar{4}^{\frac{001}{0\frac{1}{2}\frac{1}{2}}*}$	$g_{\frac{1}{2}0\frac{1}{2}}^{\frac{100}{10}} Cm_{(2)}^{\frac{110}{10}}$
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	0	11
138.530		P_14_2/nm	Classification = \mathbb{Z}_M			$X_{BS} = \mathbb{Z}_2$	SI = z'_{2P}	
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4^{\frac{001}{0\frac{1}{2}0}*}$	$2^{\frac{100}{0\frac{1}{2}0}*}$	$i\frac{1}{2}\frac{1}{2}\frac{1}{2}*$	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}0}}$	$\bar{4}^{\frac{001}{\frac{1}{2}0\frac{1}{2}}}$	$Cm_{(2)}^{\frac{110}{10}}$
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	$4^{\frac{001}{000}}$	$2^{\frac{100}{000}}$	i	$2^{\frac{110}{000}}$	$\bar{4}^{\frac{001}{000}}$	$Cm_{(2)}^{\frac{010}{10}}$	$Cm_{(4)}^{\frac{001}{10}} Cm_{(2)}^{\frac{110}{10}}$
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	22	00
0	(000)	0	0	0	0	0	44	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
139.534		$I4'/mm'm$	Classification = \mathbb{Z}_M^2			$X_{BS} = \mathbb{Z}_4$	SI = z'_{4P}	
\mathbb{Z}_4	weak	$4^{\frac{001}{000}*}$	$2^{\frac{100}{000}*}$	i	$2^{\frac{110}{000}}$	$\bar{4}^{\frac{001}{000}*}$	$Cm_{(2)}^{\frac{001}{10}}$	$Cm_{(2)}^{\frac{110}{10}}$
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
139.535		$I4'/mmm'$	Classification = \mathbb{Z}_M^2			$X_{BS} = \mathbb{Z}_4$	SI = z'_{4P}	
\mathbb{Z}_4	weak	$4^{\frac{001}{000}*}$	$2^{\frac{100}{000}}$	i	$2^{\frac{110}{000}*}$	$\bar{4}^{\frac{001}{000}*}$	$m_{1\bar{1}0*}$	$Cm_{(2)}^{\frac{010}{10}} Cm_{(2)}^{\frac{001}{10}}$
0	(000)	0	0	0	0	0	0	44
0	(000)	0	0	0	0	0	0	22
0	(000)	0	0	0	0	0	0	22
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
139.536		$I4'/m'm'm$	Classification = \mathbb{Z}_M			$X_{BS} = \mathbb{Z}_2$	SI = z_{2,S_4}	
\mathbb{Z}_2	weak	$4^{\frac{001}{000}*}$	$2^{\frac{100}{000}}$	$i*$	$2^{\frac{110}{000}*}$	$\bar{4}^{\frac{001}{000}}$	$Cm_{(0)}^{\frac{110}{10}}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	1	0	0	1	1	11	
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	$4^{\frac{001}{000}}$	$2^{\frac{100}{000}*}$	i	$2^{\frac{110}{000}*}$	$\bar{4}^{\frac{001}{000}}$	$m_{1\bar{1}0*}$	$Cm_{(4)}^{\frac{001}{10}}$

00	(444)	0	0	0	0	0	0	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	0	0	0	0	0	11
11	(111)	0	1	1	1	1	0	20
12	(111)	0	0	0	0	0	0	31
13	(111)	0	1	1	1	1	0	42
20	(222)	0	0	0	0	0	0	22
21	(222)	0	1	1	1	1	0	31
22	(222)	0	0	0	0	0	0	40
23	(222)	0	1	1	1	1	0	51
30	(333)	0	0	0	0	0	0	33
31	(333)	0	1	1	1	1	0	42
32	(333)	0	0	0	0	0	0	51
33	(333)	0	1	1	1	1	0	60
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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	22
0	(000)	0	0	0	0	0	0	22
1	(000)	1	1	0	0	1	0	11
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139.540 I_c4/mmm Classification = \mathbb{Z}_M^3 $X_{BS} = \mathbb{Z}_8$ SI = z_8								
\mathbb{Z}_8	weak	$\{1 \frac{1}{2}0\}*$	4^{001}	2^{110}	i	2^{010}	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
<hr/>								
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	$2_{00\frac{1}{2}}^{110}$	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
<hr/>								
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	$2_{00\frac{1}{2}}^{110}$	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
<hr/>								
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	$2_{00\frac{1}{2}}^{110}$	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

\mathbb{Z}_2	weak	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}*$	2^{100}	$i*$	$2_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}*$	$\bar{4}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$	$g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}$
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	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$	2^{100}	i	$2_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}*$	$\bar{4}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$	$g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}*$
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
141.558 $I4'_1/a'md'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}							
\mathbb{Z}_2	weak	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}*$	2^{100}	$i*$	$2_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}$	$\bar{4}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$	$g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}*$
0	(000)	0	0	0	0	0	$2\bar{2}$
0	(000)	0	0	0	0	0	$2\bar{2}$
1	(000)	1	1	0	0	1	11
141.560 $Ic4_1/amd$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\}*$	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}*$	$2_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}*$	$i_{00\frac{1}{2}}*$	$2_{\frac{1}{2}00}^{010}$	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$
0	(000)	0	0	0	0	0	22
0	(000)	0	0	0	0	0	22
1	(000)	1	1	1	0	1	11
142.561 $I4_1/acd$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$	$2_{00\frac{1}{2}}^{100}$	i	$2_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}$	$\bar{4}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$	$g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}$
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	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}*$	$2_{00\frac{1}{2}}^{100}$	i	$2_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}$	$\bar{4}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}*$	$g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}$
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	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}*$	$2_{00\frac{1}{2}}^{100}$	i	$2_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}*$	$\bar{4}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}*$	$g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}*$
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	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}*$	$2_{00\frac{1}{2}}^{100}$	$i*$	$2_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}*$	$\bar{4}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$	$g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}$
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	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$	$2_{00\frac{1}{2}}^{100}$	i	$2_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}*$	$\bar{4}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$	$g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}*$
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 $I4'_1/a'cd'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}							
\mathbb{Z}_2	weak	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}*$	$2_{00\frac{1}{2}}^{100}$	$i*$	$2_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}$	$\bar{4}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$	$g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}*$
0	(000)	0	0	0	0	0	0
1	(000)	1	1	0	0	1	0
142.570 $Ic4_1/acd$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}							
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}0\}*$	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}*$	$2_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}$	$i_{00\frac{1}{2}}*$	$2_{\frac{1}{2}00}^{010}$	$4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$
0	(000)	0	0	0	0	0	$g_{00\frac{1}{2}}^{100}$
1	(000)	1	1	0	0	0	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	
<hr/>			
147.13 $P3$ 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_I3 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		
<hr/>					
162.73 $P31m$ 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
<hr/>					
162.77 $P31m'$ 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	
<hr/>					
162.78 P_c31m 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
<hr/>					
163.79 $P31c$ 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	
<hr/>					
163.83 $P31c'$ 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}	$2_{00\frac{1}{2}}^{120}$ *	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	
<hr/>					
163.84 P_c31c 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
<hr/>					
164.85 $P3m1$ 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
<hr/>					
164.89 $P3m'1$ 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
<hr/>				
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	1
<hr/>				
165.91 $P3c1$ 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
<hr/>				
165.95 $P3c'1$ 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
<hr/>				
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
<hr/>				
166.97 $R3m$ 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
<hr/>				
166.101 $R3m'$ 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
<hr/>				
166.102 R_I3m 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	1
<hr/>				
167.103 $R3c$ 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
<hr/>				
167.107 $R3c'$ 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 $R_I 3c$ 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 $P\bar{6}$ 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	2604	
201	(004)	1	2615	
202	(004)	0	2626	
210	(003)	1	2503	
211	(003)	0	2514	

212	(003)	1	2525	
220	(002)	0	2402	
221	(002)	1	2413	
222	(002)	0	2424	
<hr/>				
174.136 $P_6\bar{6}$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_3$ SI = $z_{3m,0}^+$				
\mathbb{Z}_3	weak	$\{1 00\frac{1}{2}\}^*$	$\bar{6}^{001}$	$Cm_{(3)}^{001}$
0	(000)	1	1	3300
0	(000)	0	0	0000
1	(000)	1	1	1100
2	(000)	0	0	2200
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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	$\bar{6}^{001}$	i	$Cm_{(6)}^{001}$
000	(0030)	0	0	6, 36, 0, 30
000	(006)	0	0	0606
000	(000)	0	0	0066
000	(000)	0	0	0066
001	(000)	0	1	0011
002	(000)	0	0	0022
003	(000)	0	1	0033
004	(000)	0	0	0044
005	(000)	0	1	0055
010	(001)	0	1	0101
011	(001)	0	0	0110
012	(001)	0	1	0121
013	(001)	0	0	0132
014	(001)	0	1	0143
015	(001)	0	0	0154
020	(002)	0	0	0202
021	(002)	0	1	0211
022	(002)	0	0	0220
023	(002)	0	1	0231
024	(002)	0	0	0242
025	(002)	0	1	0253
030	(003)	0	1	0303
031	(003)	0	0	0312
032	(003)	0	1	0321
033	(003)	0	0	0330
034	(003)	0	1	0341
035	(003)	0	0	0352
040	(004)	0	0	0404
041	(004)	0	1	0413
042	(004)	0	0	0422
043	(004)	0	1	0431
044	(004)	0	0	0440
045	(004)	0	1	0451
050	(005)	0	1	0505
051	(005)	0	0	0514
052	(005)	0	1	0523
053	(005)	0	0	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, 10, 5, 13
230	(007)	0	1	2907
231	(007)	0	0	2918
232	(007)	0	1	2929
233	(007)	0	0	2, 9, 3, 10
234	(007)	0	1	2, 9, 4, 11
235	(007)	0	0	2, 9, 5, 12
240	(006)	0	0	2806
241	(006)	0	1	2817
242	(006)	0	0	2828
243	(006)	0	1	2839
244	(006)	0	0	2, 8, 4, 10
245	(006)	0	1	2, 8, 5, 11
250	(005)	0	1	2705

251	(005)	0	0	2716
252	(005)	0	1	2727
253	(005)	0	0	2738
254	(005)	0	1	2749
255	(005)	0	0	2, 7, 5, 10
300	(0015)	0	0	3, 18, 0, 15
301	(0015)	0	1	3, 18, 1, 16
302	(0015)	0	0	3, 18, 2, 17
303	(0015)	0	1	3, 18, 3, 18
304	(0015)	0	0	3, 18, 4, 19
305	(0015)	0	1	3, 18, 5, 20
310	(0014)	0	1	3, 17, 0, 14
311	(0014)	0	0	3, 17, 1, 15
312	(0014)	0	1	3, 17, 2, 16
313	(0014)	0	0	3, 17, 3, 17
314	(0014)	0	1	3, 17, 4, 18
315	(0014)	0	0	3, 17, 5, 19
320	(0013)	0	0	3, 16, 0, 13
321	(0013)	0	1	3, 16, 1, 14
322	(0013)	0	0	3, 16, 2, 15
323	(0013)	0	1	3, 16, 3, 16
324	(0013)	0	0	3, 16, 4, 17
325	(0013)	0	1	3, 16, 5, 18
330	(0012)	0	1	3, 15, 0, 12
331	(0012)	0	0	3, 15, 1, 13
332	(0012)	0	1	3, 15, 2, 14
333	(0012)	0	0	3, 15, 3, 15
334	(0012)	0	1	3, 15, 4, 16
335	(0012)	0	0	3, 15, 5, 17
340	(0011)	0	0	3, 14, 0, 11
341	(0011)	0	1	3, 14, 1, 12
342	(0011)	0	0	3, 14, 2, 13
343	(0011)	0	1	3, 14, 3, 14
344	(0011)	0	0	3, 14, 4, 15
345	(0011)	0	1	3, 14, 5, 16
350	(0010)	0	1	3, 13, 0, 10
351	(0010)	0	0	3, 13, 1, 11
352	(0010)	0	1	3, 13, 2, 12
353	(0010)	0	0	3, 13, 3, 13
354	(0010)	0	1	3, 13, 4, 14
355	(0010)	0	0	3, 13, 5, 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
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
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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_c6/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 $Cm^{001}_{(6)}$
0	(000)	0	0	0 6600
0	(000)	0	0	0 0000
1	(000)	1	0	1 1100
2	(000)	0	0	0 2200
3	(000)	1	0	1 3300
4	(000)	0	0	0 4400
5	(000)	1	0	1 5500
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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	$Cm^{001}_{(6)}$
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	3111
14	(002)	1	0	4211
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
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176.145 $P6'_3/m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_3$ $SI = z_{3m,0}^+$				
\mathbb{Z}_3	weak	$6^{001}_{00\frac{1}{2}}$	$i*$	$Cm^{001}_{(3)}$
0	(000)	1	0	3300
0	(000)	0	0	0000
1	(000)	1	0	1100
2	(000)	0	0	2200
<hr/>				
176.147 $P6'_3/m'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_4$ $SI = z_{4P}$				
\mathbb{Z}_4	weak	$6^{001}_{00\frac{1}{2}}$	i	
0	(000)	0	0	
2	(000)	1	1	
<hr/>				
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}_*	$i_{00\frac{1}{2}}*$ $Cm^{001}_{(6)}$
0	(000)	0	0	0 6600

0	(000)	0	0	0	0000
1	(000)	1	1	0	1100
2	(000)	0	0	0	2200
3	(000)	1	1	0	3300
4	(000)	0	0	0	4400
5	(000)	1	1	0	5500
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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	
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180.171 $P6_22'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z_2C					
\mathbb{Z}_2	weak	$6^{001}_{00\frac{1}{3}}$	$2^{010}_{00\frac{1}{3}}*$	$2^{110}_{00\frac{2}{3}}*$	
0	(006)	2	0	0	
0	(000)	0	1	1	
1	(003)	1	0	1	
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181.177 $P6_42'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ SI = z_2C					
\mathbb{Z}_2	weak	$6^{001}_{00\frac{2}{3}}$	$2^{010}_{00\frac{2}{3}}*$	$2^{110}_{00\frac{1}{3}}*$	
0	(006)	4	0	0	
0	(000)	0	1	1	
1	(003)	2	0	1	
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182.183 $P6_32'2'$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ SI = z_3C					
\mathbb{Z}_3	weak	$6^{001}_{00\frac{1}{2}}$	$2^{010}*$	$2^{110}_{00\frac{1}{2}}*$	
0	(006)	3	0	1	
0	(000)	0	1	1	
2	(002)	1	0	1	
1	(004)	2	0	0	
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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	(006)	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	
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184.195 $P6c'c'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_6$ SI = z'_6C					
\mathbb{Z}_6	weak	6^{001}	$g^{120}_{00\frac{1}{2}}*$	$g^{110}_{00\frac{1}{2}}*$	
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	
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185.201 $P6_3c'm'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_3$ SI = z_3C					
\mathbb{Z}_3	weak	$6^{001}_{00\frac{1}{2}}$	$g^{120}_{00\frac{1}{2}}*$	$m_{1\bar{1}0}*$	
0	(006)	3	3	0	
1	(002)	1	1	0	
2	(004)	2	2	0	
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186.207 $P6_3m'c'$ Classification = \mathbb{Z} $X_{BS} = \mathbb{Z}_3$ SI = z_3C					
\mathbb{Z}_3	weak	$6^{001}_{00\frac{1}{2}}$	$m_{\bar{1}20}*$	$g^{110}_{00\frac{1}{2}}*$	
0	(006)	3	0	3	
2	(002)	1	0	1	

1	(004)	2	0	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_{120}^*	2^{110*}	$Cm_{(3)}^{001}$	
000	(006)	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	0121	
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	1201	
111	(001)	1	0	1	1212	
112	(001)	0	0	0	1223	
120	(000)	1	0	1	1100	
121	(000)	0	0	0	1111	
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	22
1	(000)	1	1	0	1100	11
2	(000)	0	0	0	2200	22
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	1100	
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	1100	
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	$\{1 00\frac{1}{2}\}^*$	$\bar{6}^{001*}$	$m_{\bar{1}20}^*$	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
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	
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*}	$m_{1\bar{1}0}^*$	$Cm_{(3)}^{001}$	
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
<hr/>					
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
<hr/>					
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
<hr/>					
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
<hr/>					
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	$\bar{6}^{001}$	2^{010}	i	2^{110} $Cm_{(2)}^{100}$ $Cm_{(6)}^{001}$ $Cm_{(2)}^{210}$
0,0	(000)	0	0	0	0 12,12 6666 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 6600 66
0,0	(000)	0	0	0	0 22 6666 22
0,0	(000)	0	0	0	0 66 6600 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	77	8811	77
1,10	(000)	0	0	0	0	88	9911	88
1,5	(000)	0	0	1	0	99	10,10,1,1	99
2,0	(000)	0	0	0	0	44	2222	44
2,7	(000)	0	0	1	0	33	1122	33
2,2	(000)	0	0	0	0	22	0022	22
2,9	(000)	0	0	1	0	11	1122	11
2,4	(000)	0	0	0	0	00	2222	00
2,11	(000)	0	0	1	0	11	3322	11
2,6	(000)	0	0	0	0	22	4422	22
2,1	(000)	0	0	1	0	33	5522	33
2,8	(000)	0	0	0	0	44	6622	44
2,3	(000)	0	0	1	0	55	7722	55
2,10	(000)	0	0	0	0	66	8822	66
2,5	(000)	0	0	1	0	77	9922	77
3,0	(000)	0	0	0	0	66	3333	66
3,7	(000)	0	0	1	0	55	2233	55
3,2	(000)	0	0	0	0	44	1133	44
3,9	(000)	0	0	1	0	33	0033	33
3,4	(000)	0	0	0	0	22	1133	22
3,11	(000)	0	0	1	0	11	2233	11
3,6	(000)	0	0	0	0	00	3333	00
3,1	(000)	0	0	1	0	11	4433	11
3,8	(000)	0	0	0	0	22	5533	22
3,3	(000)	0	0	1	0	33	6633	33
3,10	(000)	0	0	0	0	44	7733	44
3,5	(000)	0	0	1	0	55	8833	55
4,0	(000)	0	0	0	0	88	4444	88
4,7	(000)	0	0	1	0	77	3344	77
4,2	(000)	0	0	0	0	66	2244	66
4,9	(000)	0	0	1	0	55	1144	55
4,4	(000)	0	0	0	0	44	0044	44
4,11	(000)	0	0	1	0	33	1144	33
4,6	(000)	0	0	0	0	22	2244	22
4,1	(000)	0	0	1	0	11	3344	11
4,8	(000)	0	0	0	0	00	4444	00
4,3	(000)	0	0	1	0	11	5544	11
4,10	(000)	0	0	0	0	22	6644	22
4,5	(000)	0	0	1	0	33	7744	33
5,0	(000)	0	0	0	0	10,10	5555	10,10
5,7	(000)	0	0	1	0	99	4455	99
5,2	(000)	0	0	0	0	88	3355	88
5,9	(000)	0	0	1	0	77	2255	77
5,4	(000)	0	0	0	0	66	1155	66
5,11	(000)	0	0	1	0	55	0055	55
5,6	(000)	0	0	0	0	44	1155	44

5, 1	(000)	0	0	1	0	33	2255	33
5, 8	(000)	0	0	0	0	22	3355	22
5, 3	(000)	0	0	1	0	11	4455	11
5, 10	(000)	0	0	0	0	00	5555	00
5, 5	(000)	0	0	1	0	11	6655	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	22	0000	
00	(000)	1	0	0	1	11	0033	
01	(000)	1	0	0	1	11	0011	
02	(000)	0	0	0	0	22	0022	
10	(000)	1	0	0	1	11	1100	
11	(000)	0	0	0	0	00	1111	
12	(000)	1	0	0	1	11	1122	
20	(000)	0	0	0	0	22	2200	
21	(000)	1	0	0	1	11	2211	
22	(000)	0	0	0	0	00	2222	
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
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	22		
1	(000)	1	1	1	0	11		
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	
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_6/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	P_6/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	$P_6'/mc'c$	Classification = \mathbb{Z}_M			$X_{BS} = \mathbb{Z}_3$	SI = $z_{3m,0}^+$	
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\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
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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
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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	
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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	
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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	6	0, 12, 6, 6
00	(000)	0	0	0	0	0	0000
01	(002)	0	0	1	0	1	0211
02	(004)	0	0	0	0	2	0422
03	(006)	0	0	1	0	3	0633
04	(008)	0	0	0	0	4	0844
05	(0010)	0	0	1	0	5	0, 10, 5, 5
10	(000)	0	1	1	1	0	1100
11	(002)	0	1	0	1	1	1111
12	(004)	0	1	1	1	2	1322
13	(006)	0	1	0	1	3	1533
14	(008)	0	1	1	1	4	1744
15	(0010)	0	1	0	1	5	1955
20	(000)	0	0	0	0	0	2200
21	(002)	0	0	1	0	1	2011
22	(004)	0	0	0	0	2	2222
23	(006)	0	0	1	0	3	2433
24	(008)	0	0	0	0	4	2644
25	(0010)	0	0	1	0	5	2855
30	(000)	0	1	1	1	0	3300
31	(002)	0	1	0	1	1	3111
32	(004)	0	1	1	1	2	3122
33	(006)	0	1	0	1	3	3333
34	(008)	0	1	1	1	4	3544
35	(0010)	0	1	0	1	5	3755
40	(000)	0	0	0	0	0	4400
41	(002)	0	0	1	0	1	4211
42	(004)	0	0	0	0	2	4022
43	(006)	0	0	1	0	3	4233
44	(008)	0	0	0	0	4	4444
45	(0010)	0	0	1	0	5	4655
50	(000)	0	1	1	1	0	5500
51	(002)	0	1	0	1	1	5311
52	(004)	0	1	1	1	2	5122

53	(006)	0	1	0	1	3	5133
54	(008)	0	1	1	1	4	5344
55	(0010)	0	1	0	1	5	5555
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192.252 P_6/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	6600
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
4	(000)	0	0	0	0	0	4400
5	(000)	1	0	1	1	1	5500
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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
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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
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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
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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	
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193.259 $P6_3'/m'cm'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2P}'							
\mathbb{Z}_2	weak	$6^{001}_{00\frac{1}{2}}^*$	$2^{010}_{00\frac{1}{2}}$	i	2^{110}_*	m_{010}^*	
0	(000)	0	0	0	0	0	
1	(000)	1	0	1	1	0	
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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	$6^{001}_{00\frac{1}{2}}$	$2^{010}_{00\frac{1}{2}}^*$	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
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193.262 P_63/mcm Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_6$ SI = $z_{6m,0}^+$							
\mathbb{Z}_6	weak	$\{1 00\frac{1}{2}\}^*$	$6^{001}*$	$2^{010}_{00\frac{1}{2}}$	$i_{00\frac{1}{2}}*$	$2^{110}_{00\frac{1}{2}}*$	$Cm_{(2)}^{100}$ $Cm_{(6)}^{001}$
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
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194.263 $P6_3/mmc$ 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}	i	$2^{110}_{00\frac{1}{2}}*$	$g^{010}_{00\frac{1}{2}}*$	$Cm_{(2)}^{110}$ $Cm_{(6)}^{001}$
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
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194.266 $P6'_3/mm'c$ 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}	$i*$	$2^{110}_{00\frac{1}{2}}*$	$g^{010}_{00\frac{1}{2}}*$	$Cm_{(3)}^{001}$
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
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194.267 $P6'_3/mmc'$ Classification = \mathbb{Z}_M^2 $X_{BS} = \mathbb{Z}_3$ SI = $z_{3m,0}^+$							
\mathbb{Z}_3	weak	$6^{001}_{00\frac{1}{2}}*$	$2^{010}*$	$i*$	$2^{110}_{00\frac{1}{2}}*$	$g^{010}_{00\frac{1}{2}}*$	$Cm_{(0)}^{110}$ $Cm_{(3)}^{001}$
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
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194.268 $P6_3/m'm'c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2P}'							
\mathbb{Z}_2	weak	$6^{001}_{00\frac{1}{2}}*$	$2^{010}*$	i	$2^{110}_{00\frac{1}{2}}*$	$g^{010}_{00\frac{1}{2}}*$	
0	(000)	0	0	0	0	0	
1	(000)	1	1	1	0	1	
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194.269 $P6'_3/m'mc'$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z_{2P}'							
\mathbb{Z}_2	weak	$6^{001}_{00\frac{1}{2}}*$	2^{010}	i	$2^{110}_{00\frac{1}{2}}*$	$g^{010}_{00\frac{1}{2}}*$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	22
0	(000)	0	0	0	0	0	22
1	(000)	1	0	1	1	0	11
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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	$6^{001}_{00\frac{1}{2}}*$	$2^{010}*$	i	$2^{110}_{00\frac{1}{2}}*$	$g^{010}_{00\frac{1}{2}}*$	$Cm_{(6)}^{001}$

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
<hr/>							
194.272 P_c6_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	6600 66
0	(000)	0	0	0	0	0	0000 22
0	(000)	0	0	0	0	0	0000 22
1	(000)	1	1	1	0	0	1100 11
2	(000)	0	0	0	0	0	2200 22
3	(000)	1	1	1	0	0	3300 33
4	(000)	0	0	0	0	0	4400 44
5	(000)	1	1	1	0	0	5500 55
<hr/>							
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	2222		
00	(000)	0	0	0	4400		
00	(000)	0	0	0	2222		
03	(000)	0	0	1	1100		
02	(000)	0	0	0	2200		
01	(000)	0	0	1	3300		
10	(000)	0	0	0	1111		
13	(000)	0	0	1	0011		
12	(000)	0	0	0	1111		
11	(000)	0	0	1	2211		
<hr/>							
200.17 $P\bar{1}m\bar{3}$ 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 $Pn\bar{3}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$							
\mathbb{Z}_2	weak	3^{111}	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	i			
0	(000)	0	0	0			
1	(000)	0	0	1			
<hr/>							
201.21 $P\bar{1}n\bar{3}$ 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^{111}	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^*$		
0	(000)	0	0	0	0		
1	(000)	1	0	0	0		

202.22 $Fm\bar{3}$ 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	11
2	(000)	0	0	0	22
1	(000)	0	0	1	33
202.25 $Fsm\bar{3}$ 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	44
0	(000)	0	0	0	00
3	(000)	1	0	0	11
2	(000)	0	0	0	22
1	(000)	1	0	0	33
203.26 $Fd\bar{3}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	3^{111}	$2_0^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	i	
0	(000)	0	0	0	
1	(000)	0	0	1	
203.29 $Fsd\bar{3}$ 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^{111}	$2_0^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	i
0	(000)	0	0	0	0
1	(000)	1	0	0	1
204.30 $Im\bar{3}$ 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	11
2	(000)	0	0	0	22
1	(000)	0	0	1	33
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	
205.36 $Pra\bar{3}$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}					
\mathbb{Z}_2	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}^*$	$3_{\frac{1}{2}0\frac{1}{2}}^{111}$	$2_{00\frac{1}{2}}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{111}$
0	(000)	0	0	0	0
1	(000)	1	0	1	0
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	
215.70 $P43m$ 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	22	
0	(000)	0	0	22	
1	(000)	0	1	11	
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	22
0	(000)	0	0	0	22
1	(000)	1	0	1	11
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	22	
0	(000)	0	0	22	

1	(000)	0	1	$\overline{11}$				
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	$\overline{22}$			
0	(000)	0	0	0	$\overline{2\overline{2}}$			
1	(000)	1	0	1	$\overline{11}$			
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	$\overline{22}$				
0	(000)	0	0	$\overline{22}$				
1	(000)	0	1	$\overline{11}$				
218.81 $P43n$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	3^{111}	$4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$g^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$				
0	(000)	0	0	0				
1	(000)	0	1	1				
218.84 P_743n 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			
219.85 $F43c$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	3^{111}	$4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$g^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$				
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 $Pm3m$ 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}	$\overline{4}^{100}$	$Cm_{(4)}^{100}$	$Cm_{(2)}^{011}$
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	$\overline{66}$
00	(000)	0	0	0	0	0	4400	$\overline{22}$
03	(000)	0	0	1	0	1	1100	$\overline{11}$
06	(000)	0	0	0	0	0	2200	$\overline{22}$
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	$\overline{55}$
02	(000)	0	0	0	0	0	6600	$\overline{66}$
05	(000)	0	0	1	0	1	7700	$\overline{77}$
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	4

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
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221.94 $Pm'3'm$ 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	
<hr/>								
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
<hr/>								
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
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222.98 $Pn\bar{3}n$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	3^{111}	$4_{0\frac{1}{2}0}^{100}$	i	$2_{00\frac{1}{2}}^{110}$	$4_{0\frac{1}{2}0}^{100}$	$g_{0\frac{1}{2}0}^{101}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	0	1	0	1	1	
<hr/>								
222.100 $Pn'3'n$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z_{2,S_4}								
\mathbb{Z}_2	weak	3^{111}	$4_{0\frac{1}{2}0}^{100}*$	$i*$	$2_{00\frac{1}{2}}^{110}*$	$4_{0\frac{1}{2}0}^{100}$	$g_{0\frac{1}{2}0}^{101}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	0	1	1	1	
<hr/>								
222.101 $Pn\bar{3}n'$ Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	3^{111}	$4_{0\frac{1}{2}0}^{100}*$	i	$2_{00\frac{1}{2}}^{110}*$	$4_{0\frac{1}{2}0}^{100}*$	$g_{0\frac{1}{2}0}^{101}*$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	1	1	0	0	
<hr/>								
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}	$4_{0\frac{1}{2}0}^{100}$	$i\frac{1}{2}\frac{1}{2}\frac{1}{2}*$	$2_{00\frac{1}{2}}^{110}$	$4_{\frac{1}{2}0\frac{1}{2}}^{100}*$	$g_{\frac{1}{2}0\frac{1}{2}}^{101}*$
0	(000)	0	0	0	0	0	0	0

1	(000)	1	0	0	0	0	0	0
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		223.104	$Pm\bar{3}n$	Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$				
\mathbb{Z}_4	weak	3^{111}	$4^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	i	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$4^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$g^{\frac{101}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$Cm_{(4)}^{100}$
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
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		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}	$4^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$i*$	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$4^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$g^{\frac{101}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	0	1	1	1	
<hr/>								
		223.107	$Pm\bar{3}n'$	Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_4$ $SI = z'_{4P}$				
\mathbb{Z}_4	weak	3^{111}	$4^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	i	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$4^{\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$g^{\frac{101}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}$	$Cm_{(2)}^{100}$
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
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		223.109	$Pm\bar{3}n$	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*}	$m_{101}*$ $Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	4400
0	(000)	0	0	0	0	0	0	0000
3	(000)	1	0	1	1	1	0	1100
2	(000)	0	0	0	0	0	0	2200
1	(000)	1	0	1	1	1	0	3300
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		224.110	$Pn\bar{3}m$	Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$				
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{2}0\frac{1}{2}}}$	i	$2^{\frac{110}{\frac{1}{2}0\frac{1}{2}}}$	$4^{\frac{100}{\frac{1}{2}0\frac{1}{2}}}$	$Cm_{(2)}^{011}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	0	0	1	0	1	11	
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		224.112	$Pn'\bar{3}'m$	Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ $SI = z_{2,S_4}$				
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{2}0\frac{1}{2}}*}$	$i*$	$2^{\frac{110}{\frac{1}{2}0\frac{1}{2}}*}$	$4^{\frac{100}{\frac{1}{2}0\frac{1}{2}}}$	$Cm_{(0)}^{011}$	
0	(000)	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	22	
1	(000)	0	1	0	1	1	11	
<hr/>								
		224.113	$Pn\bar{3}m'$	Classification = \mathbb{Z}_2 $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$				
\mathbb{Z}_2	weak	3^{111}	$4^{\frac{100}{\frac{1}{2}0\frac{1}{2}}*}$	i	$2^{\frac{110}{\frac{1}{2}0\frac{1}{2}}*}$	$4^{\frac{100}{\frac{1}{2}0\frac{1}{2}}*}$	$g^{\frac{101}{\frac{1}{2}0\frac{1}{2}}*}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	1	1	0	0	
<hr/>								
		224.115	$Pm\bar{3}n$	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}	$4^{\frac{100}{0\frac{1}{2}0}*}$	$i\frac{1}{2}\frac{1}{2}\frac{1}{2}*}$	$2^{\frac{110}{00\frac{1}{2}}*}$	$4^{\frac{100}{\frac{1}{2}0\frac{1}{2}}}$	$Cm_{(2)}^{011}$
0	(000)	0	0	0	0	0	0	22
0	(000)	0	0	0	0	0	0	22
1	(000)	1	0	1	0	1	1	11
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		225.116	$Fm\bar{3}m$	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}	$Cm_{(4)}^{001}$	$Cm_{(2)}^{101}$
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	$\overline{66}$	$\overline{66}$
5	(000)	0	0	1	0	1	$\overline{77}$	$\overline{77}$
<hr/>								
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}	$Cm_{(0)}^{101}$	
0	(000)	0	0	0	0	0	$\overline{22}$	
0	(000)	0	0	0	0	0	$\overline{22}$	
1	(000)	0	1	0	1	1	$\overline{11}$	
<hr/>								
225.119 $Fm3m'$ 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	$\overline{44}$
0	(000)	0	0	0	0	0	0	$\overline{00}$
3	(000)	0	1	1	1	0	0	$\overline{11}$
2	(000)	0	0	0	0	0	0	$\overline{22}$
1	(000)	0	1	1	1	0	0	$\overline{33}$
<hr/>								
225.121 $Fsm\bar{3}m$ 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}	$Cm_{(4)}^{100}$ $Cm_{(2)}^{011}$
0	(000)	0	0	0	0	0	0	$\overline{88}$ $\overline{88}$
0	(000)	0	0	0	0	0	0	$\overline{44}$ $\overline{66}$
0	(000)	0	0	0	0	0	0	$\overline{44}$ $\overline{22}$
3	(000)	1	0	0	1	0	1	$\overline{11}$ $\overline{11}$
6	(000)	0	0	0	0	0	0	$\overline{22}$ $\overline{22}$
1	(000)	1	0	0	1	0	1	$\overline{33}$ $\overline{33}$
4	(000)	0	0	0	0	0	0	$\overline{44}$ $\overline{44}$
7	(000)	1	0	0	1	0	1	$\overline{55}$ $\overline{55}$
2	(000)	0	0	0	0	0	0	$\overline{66}$ $\overline{66}$
5	(000)	1	0	0	1	0	1	$\overline{77}$ $\overline{77}$
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226.122 $Fm3c$ 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	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$g^{101}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	$\overline{44}$
0	(000)	0	0	0	0	0	0	$\overline{00}$
3	(000)	0	0	1	0	1	1	$\overline{11}$
2	(000)	0	0	0	0	0	0	$\overline{22}$
1	(000)	0	0	1	0	1	1	$\overline{33}$
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226.124 $Fm'3'c$ 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	
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226.125 $Fm3c'$ 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	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$g^{101}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	0	$\overline{44}$
0	(000)	0	0	0	0	0	0	$\overline{00}$
3	(000)	0	1	1	1	0	0	$\overline{11}$
2	(000)	0	0	0	0	0	0	$\overline{22}$
1	(000)	0	1	1	1	0	0	$\overline{33}$
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226.127 $Fsm\bar{3}c$ 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*} $Cm_{(4)}^{100}$
0	(000)	0	0	0	0	0	0	$\overline{44}$
0	(000)	0	0	0	0	0	0	$\overline{00}$
3	(000)	1	0	1	1	1	0	$\overline{11}$
2	(000)	0	0	0	0	0	0	$\overline{22}$
1	(000)	1	0	1	1	1	0	$\overline{33}$
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227.128 $Fd3m$ Classification = \mathbb{Z}_M $X_{BS} = \mathbb{Z}_2$ SI = z'_{2P}								
\mathbb{Z}_2	weak	3^{111}	$4^{100}_{\frac{1}{4}0\frac{1}{4}}$	i	$2^{110}_{\frac{1}{4}0\frac{1}{4}}$	$4^{100}_{\frac{1}{4}0\frac{1}{4}}$	$Cm_{(2)}^{011}$	
0	(000)	0	0	0	0	0	$\overline{22}$	
0	(000)	0	0	0	0	0	$\overline{22}$	
1	(000)	0	0	1	0	1	$\overline{11}$	

