## 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	$P\bar{1}$ Classif	fication	$n = \mathbb{Z}^3 \times \mathbb{Z}_2$	Xpc =	Z2224 SI	$=z_{2P,1}, z_{2P,2}, z_{2P,3}, z_{4P}$	
$\overline{\mathbb{Z}_{2,2,2,4}}$	weak	i	icatioi	1 12 / 122	2100	22,2,2,4	~21,1,~21,2,~21,3,~41	
0000	$(\overline{2}00)$	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	$(\bar{1}00)$	0						
1002	(100)	1						
1010	(100)	0						
1012	(101)	1						
1100	(101) $(110)$	0						
$\frac{1100}{1102}$	(110) $(110)$	1						
11102	(110) $(111)$	0						
1112	(111) $(111)$	1						
1112	(111)			CI 10 II		**	ar /	
F77		2.7	$P_S\bar{1}$	Classification	$n = \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$\frac{i}{2}$					
0	(000)	0	0					
1	(000)	1	1					
		3.1	. P2	Classification	$n = \mathbb{Z}$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2C}$	
$\mathbb{Z}_2$	weak	$2^{010}$						
0	(020)	0						
1	(010)	0						
		3.4	$P_a 2$	Classification	$n = \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2C}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}00\}*$	$2^{010}$					
0	(000)							
		1	0					
ET!	10.42			cation = $\mathbb{Z}_{M}^{2}$	(Z X	RS = Z2 2 2	$SI = z_0^+$ , $z_0^-$ , $z_0^+$	
//222	10.42 weak	P2/m C	lassific	cation = $\mathbb{Z}_M^2 \times Cm_{(2)}^{010}$	$\mathbb{Z}$ X	$_{\mathrm{BS}}=\mathbb{Z}_{2,2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
$\mathbb{Z}_{2,2,2}$	weak	$\frac{P2/m}{2^{010}}$ C	classific i	$Cm_{(2)}^{010}$	$\mathbb{Z}$ X	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_{2,2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
000	$\frac{\text{weak}}{(0\overline{2}0)}$	$\frac{P2/m}{2^{010}}$ 0	Classific i 0	$\frac{Cm_{(2)}^{010}}{2\overline{4}0\overline{2}}$	⟨ℤ X	$_{ m BS}=\mathbb{Z}_{2,2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
000		$P2/m$ C $2^{010}$ 0 0	classific i 0 0	$ \begin{array}{c} Cm_{(2)}^{010} \\ \hline 2402 \\ 0202 \end{array} $	×ℤ X	$_{ m BS}=\mathbb{Z}_{2,2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
000 000 000	weak (020) (020) (000)	$P2/m$ C $2^{010}$ 0 0 0	$ \begin{array}{c} i \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} Cm_{(2)}^{010} \\ \hline 2402 \\ \hline 0202 \\ \hline 0022 \end{array} $	⟨ℤ X	$_{ m BS}=\mathbb{Z}_{2,2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
000 000 000 000		P2/m C 2 <sup>010</sup> 0 0 0 0 0	Classific $i$ $0$ $0$ $0$ $0$ $0$	$ \begin{array}{r} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ 0202 \\ 00\overline{2} \\ 00\overline{2} \end{array} $	⟨ℤ X	$_{\mathrm{BS}}=\mathbb{Z}_{2,2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
000 000 000 000 000	weak (020) (020) (000) (000) (000)	P2/m C 2 <sup>010</sup> 0 0 0 0 0	0 0 0 0 0 1	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ \hline 0202 \\ \hline 002\overline{2} \\ \hline 00\overline{2}2 \\ \hline 001\overline{1} \end{array}$	×Z X	$_{ m BS}=\mathbb{Z}_{2,2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
000 000 000 000 000 001 010	weak (020) (020) (000) (000) (000) (010)	P2/m C 2 <sup>010</sup> 0 0 0 0 0	Classific $i$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ \hline 0202 \\ \hline 002\overline{2} \\ \hline 001\overline{1} \\ \hline 0101 \\ \end{array}$	X Z X	$_{ m BS}=\mathbb{Z}_{2,2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
000 000 000 000 000 001 010 011	weak (020) (020) (000) (000) (000) (010) (010)	P2/m C 2010 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} \text{Classific} \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \end{array}$	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ \hline 0202 \\ \hline 000\overline{2} \\ \hline 001\overline{1} \\ \hline 0101 \\ \hline 0110 \\ \end{array}$	×Z X	$_{ m BS}=\mathbb{Z}_{2,2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
000 000 000 000 001 010 011 100	weak $(0\overline{2}0)$ $(020)$ $(000)$ $(000)$ $(000)$ $(010)$ $(0\overline{1}0)$	P2/m C 2010  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	lassific i 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2402 \\ \hline 0202 \\ \hline 000\overline{2}2 \\ \hline 001\overline{1} \\ \hline 0101 \\ \hline 0110 \\ \hline 1\overline{2}0\overline{1} \\ \end{array}$	⟨ℤ X	$_{ m BS}=\mathbb{Z}_{2,2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
000 000 000 000 001 010 011 100	$\begin{array}{c} \text{weak} \\ \hline (0\overline{2}0) \\ \hline (020) \\ (000) \\ \hline (000) \\ (000) \\ \hline (010) \\ \hline (0\overline{1}0) \\ \hline (0\overline{1}0) \\ \hline \end{array}$	P2/m C 2010  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	lassific i 0 0 0 0 0 1 1 0 0 0 1 1 0 1 1 0 0 1 1	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ \hline 0202 \\ \hline 000\overline{2} \\ \hline 000\overline{1} \\ \hline 0101 \\ \hline 0110 \\ \hline 1\overline{2}0\overline{1} \\ \hline 1\overline{2}1\overline{2} \\ \end{array}$	⟨ℤ X	$_{ m BS}=\mathbb{Z}_{2,2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
000 000 000 000 001 010 011 100 101	weak	P2/m C 2010  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Classific  i 0 0 0 0 1 1 0 0 1 1 1 1 1 1 1 1 1 1	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ \hline 0202 \\ \hline 000\overline{2}\overline{2} \\ \hline 001\overline{1} \\ \hline 0101 \\ \hline 0110 \\ \hline 1\overline{2}0\overline{1} \\ \hline 1\overline{2}1\overline{2} \\ \hline 1\overline{1}00 \\ \end{array}$	⟨ℤ X	$_{ m BS}=\mathbb{Z}_{2,2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
000 000 000 000 001 010 011 100 101 110	weak (020) (020) (000) (000) (000) (010) (010) (010) (010) (000) (000)	P2/m C 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Classific  i 0 0 0 0 1 1 0 0 1 1 0 0 0 0 0 0 0 0	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ \hline 0202 \\ \hline 002\overline{2} \\ \hline 001\overline{1} \\ \hline 0101 \\ \hline 0110 \\ \hline 1\overline{2}0\overline{1} \\ \hline 1\overline{2}1\overline{2} \\ \hline 1\overline{1}00 \\ \hline 1\overline{1}\overline{1} \end{array}$				
000 000 000 000 001 010 011 100 101 110	weak	P2/m C 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 22'/m' Cla	Classific i 0 0 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ \hline 0202 \\ \hline 000\overline{2}\overline{2} \\ \hline 001\overline{1} \\ \hline 0101 \\ \hline 0110 \\ \hline 1\overline{2}0\overline{1} \\ \hline 1\overline{2}1\overline{2} \\ \hline 1\overline{1}00 \\ \end{array}$		$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{3} = \mathbb{Z}_{2,2,2,4}$	$SI = z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$ $SI = z_{2P,1}, z_{2P,2}, z_{2P,3}, z_{4P}$	
	weak	P2/m C 2010  0 0 0 0 0 0 0 0 0 0 0 0 0 20'/m' Cla	Classific $i$ $0$ $0$ $0$ $0$ $1$ $1$ $0$ $0$ $1$ $1$ $0$ assifica $i$	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ \hline 0202 \\ \hline 002\overline{2} \\ \hline 001\overline{1} \\ \hline 0101 \\ \hline 0110 \\ \hline 1\overline{2}0\overline{1} \\ \hline 1\overline{2}1\overline{2} \\ \hline 1\overline{1}00 \\ \hline 1\overline{1}\overline{1} \end{array}$				
	$\begin{array}{c} \text{weak} \\ \hline (020) \\ (020) \\ (000) \\ (000) \\ (000) \\ (010) \\ (010) \\ (010) \\ (000) \\ (000) \\ \hline \\ \text{weak} \\ (200) \\ \end{array}$	P2/m C 2010  0 0 0 0 0 0 0 0 0 0 0 0 0 0 22'/m' Cla	Classific $i$ $0$ $0$ $0$ $0$ $1$ $1$ $0$ $0$ $1$ $1$ $0$ assifica $i$ $0$	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ \hline 0202 \\ \hline 002\overline{2} \\ \hline 001\overline{1} \\ \hline 0101 \\ \hline 0110 \\ \hline 1\overline{2}0\overline{1} \\ \hline 1\overline{2}1\overline{2} \\ \hline 1\overline{1}00 \\ \hline 1\overline{1}\overline{1} \end{array}$				
	weak (020) (020) (000) (000) (000) (010) (010) (010) (000) (000) 0.46 F weak (200) (002)	P2/m C 2010  0 0 0 0 0 0 0 0 0 0 0 0 0 0 22'/m' Cla 2010*	Classific i 0 0 0 0 0 1 1 0 0 1 1 0 0 0 0 0 0 0 0	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ \hline 0202 \\ \hline 002\overline{2} \\ \hline 001\overline{1} \\ \hline 0101 \\ \hline 0110 \\ \hline 1\overline{2}0\overline{1} \\ \hline 1\overline{2}1\overline{2} \\ \hline 1\overline{1}00 \\ \hline 1\overline{1}\overline{1} \end{array}$				
$\begin{array}{c} 000 \\ 000 \\ 000 \\ 000 \\ 001 \\ 010 \\ 011 \\ 100 \\ 111 \\ \hline \\ \hline 22,2,2,4 \\ 0000 \\ 0000 \\ \hline \\ 0000 \\ 0000 \\ \hline \end{array}$	$\begin{array}{c} \text{weak} \\ \hline (020) \\ \hline (020) \\ \hline (020) \\ \hline (000) \\ \hline (000) \\ \hline (000) \\ \hline (010) \\ \hline (010) \\ \hline (000) \\ \hline (000) \\ \hline (046) \\ \hline \text{weak} \\ \hline (200) \\ \hline (000) \\ \hline (000) \\ \hline \end{array}$	P2/m C 2010  0 0 0 0 0 0 0 0 0 0 0 0 0 0 22'/m' Cla 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Classific i 0 0 0 0 1 1 0 0 1 1 0 0 0 0 0 0 0 0 0	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ \hline 0202 \\ \hline 002\overline{2} \\ \hline 001\overline{1} \\ \hline 0101 \\ \hline 0110 \\ \hline 1\overline{2}0\overline{1} \\ \hline 1\overline{2}1\overline{2} \\ \hline 1\overline{1}00 \\ \hline 1\overline{1}\overline{1} \end{array}$				
	weak (020) (020) (000) (000) (000) (010) (010) (010) (000) (000) 0.46 F weak (200) (002)	P2/m C 2010  0 0 0 0 0 0 0 0 0 0 0 0 0 0 22'/m' Cla 2010*	Classific i 0 0 0 0 0 1 1 0 0 1 1 0 0 0 0 0 0 0 0	$\begin{array}{c} Cm_{(2)}^{010} \\ \hline 2\overline{4}0\overline{2} \\ \hline 0202 \\ \hline 002\overline{2} \\ \hline 001\overline{1} \\ \hline 0101 \\ \hline 0110 \\ \hline 1\overline{2}0\overline{1} \\ \hline 1\overline{2}1\overline{2} \\ \hline 1\overline{1}00 \\ \hline 1\overline{1}\overline{1} \end{array}$				

	(001)	1										
0012	$(00\overline{1})$	1	1									
1000	(100)	0	0									
1002	(100)	1	1									
1010	$(10\overline{1})$	0	0									
1012	(101)	1	1									
		$10.47 P_a 2$		ssificatio	on = $\mathbb{Z}_M^2$	$X_{BS}$	$\mathbb{Z}_{2,2}$	SI	$= z_{2}^{-}$	$z_{m,0}^+, z_2^-$	$+$ $2m.\pi$	
$\mathbb{Z}_{2,2}$	weak	$\{1 \frac{1}{2}00\}*$	$2^{010}$	i	$Cm_{(2)}^{010}$					7		
00	(000)	0	0	0	$2\overline{200}$							
00	(000)	0	0	0	$002\overline{2}$							
00	(000)	0	0	0	$00\overline{2}2$							
01	(000)	1	0	1	0011							
10	(000)	1	0	1	$\frac{1100}{1}$							
$\frac{10}{11}$	(000)	0	0	0	$\frac{1100}{1\overline{1}1\overline{1}}$							
	(000)					**	**	F71	O.T.			
		10.48	$P_b 2/m$		$cation = \mathbb{Z}$	$\mathbb{Z}_{M}$	$X_{BS} =$	$\mathbb{Z}_2$	SI =	$z_{2m,0}^{\scriptscriptstyle op}$		
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}0\}*$	$2^{010}$	i	$Cm_{(2)}^{010}$							
0	(000)	0	0	0	$2\overline{2}00$							
0	(000)	0	0	0	$2\overline{2}00$							
1	(000)	1	0	1	$1\overline{1}00$							
	<del>_</del>	10.49	$P_C 2/m$	Classifi	cation = Z	$\mathbb{Z}_M$	$X_{BS} =$	$\mathbb{Z}_2$	SI =	z+		
$\overline{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$\frac{2^{010}}{2^{010}}$	i	$Cm_{(2)}^{010}$		20			<i>∠m</i> ,0		
$\frac{-2}{0}$	(000)	0	0	0	$2\overline{2}00$							
0	(000)	0	0	0	$\frac{2200}{2\overline{2}00}$							
$\frac{0}{1}$	(000)	1	0	1	$\frac{1100}{1}$							
	(000)						7 37	F77		. /		
	1 1	11.50 I			$ation = \mathbb{Z}_I$	$M \times \mathbb{Z}$	$L = X_{BS}$	$=\mathbb{Z}$	2 S	$I=z_2'$	P	
$\mathbb{Z}_2$	weak	$2^{010}_{0\frac{1}{2}0}$	i	$Cm_{(2)}^{010}$								
0	(000)	0	0	$2\overline{2}00$								
0	(000) (020)	0	0	2200 2011								
	/											
0	(020)	1	0	2011								
0	(020) (000) (000)	1 0 0	0 0 1	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2 \times \mathbb{Z}_2$	X <sub>R</sub>	$S = \mathbb{Z}_2$	- A S	SI =	Z2P 1. 2	Z2P3, Z4	
0 0 1	(020) (000) (000) 11.54	$ \begin{array}{c} 1\\0\\0\\\hline 0\\P2'_1/m' \end{array} $	0 0 1 Classifie	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2  imes \mathbb{Z}_2$	X <sub>B</sub>	$\mathbb{Z}_{\mathrm{S}}=\mathbb{Z}_{2,2}$	.,4 S	SI =	$z_{2P,1}, z_{2P,1}, z_{2$	$z_{2P,3}, z_4$	P
$ \begin{array}{c} 0 \\ 0 \\ 1 \end{array} $ $ \mathbb{Z}_{2,2,4} $	(020) (000) (000) 11.54 weak	$ \begin{array}{c} 1 \\ 0 \\ 0 \\ P2'_1/m' \\ 2^{010}_{0\frac{1}{2}0}* \end{array} $	$0 \\ 0 \\ 1$ Classifie	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2  imes \mathbb{Z}_2$	X <sub>B</sub>	$_{ m S}=\mathbb{Z}_{2,2}$	.,4 S	SI =	$z_{2P,1}, z_{2P,1}$	$\overline{z_{2P,3},z_4}$	P
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,4} \\ 000 \end{array} $	(020) (000) (000) (000) 11.54 weak (200)	$ \begin{array}{c} 1 \\ 0 \\ 0 \\ \hline P2'_1/m' \\ 2^{010}_{0\frac{1}{2}0}* \\ 0 \end{array} $	0 0 1 Classific i	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2  imes \mathbb{Z}_2$	X <sub>B</sub> ;	$_{\mathrm{S}}=\mathbb{Z}_{2,2}$	.,4 S	SI =	$z_{2P,1}, z_{2P,1}$	$z_{2P,3},z_4$	P
$ \begin{array}{c c} 0 \\ 0 \\ \hline 1 \\ \hline \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \end{array} $		$ \begin{array}{c} 1 \\ 0 \\ 0 \\ P2'_1/m' \\ 2^{010}_{0\frac{1}{2}0}* \\ 0 \\ 0 \end{array} $	0 0 1 Classific i 0 0	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2  imes \mathbb{Z}_2$	X <sub>B</sub>	$_{ m S}=\mathbb{Z}_{2,2}$	.,4 S	SI =	$z_{2P,1}, z_{2P,1}$	$z_{2P,3}, z_4$	P
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \end{array} $	$ \begin{array}{c c} (020) \\ (000) \\ (000) \\ \hline \\ 11.54 \\ \hline \\ \text{weak} \\ \hline \\ (\overline{2}00) \\ (00\overline{2}) \\ (000) \\ \end{array} $	$ \begin{array}{c} 1 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} P2'_1/m' \\ 2_{0\frac{1}{2}0}^{010} * \\ 0 \\ 0 \end{array} $	0 0 1 Classific i 0 0	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2  imes \mathbb{Z}_2$	X <sub>B</sub>	$\mathbb{Z}_{S}=\mathbb{Z}_{2,2}$	e,4 S	SI =	$z_{2P,1}, z_{2P,1}$	$z_{2P,3}, z_4$	P
$ \begin{array}{c c} 0 \\ \hline 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \end{array} $	(020) (000) (000) 11.54 weak (200) (002) (000) (000)	$ \begin{array}{c} 1 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} P2'_1/m' \\ 2_{0\frac{1}{2}0}^{010} * \\ 0 \\ 0 \\ 1 \end{array} $	0 0 1 Classific i 0 0 0	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2  imes \mathbb{Z}_2$	X <sub>B</sub>	$\mathbb{Z}_{S}=\mathbb{Z}_{2,2}$	.,4 S	SI =	$z_{2P,1}, z_{2P,1}$	$z_{2P,3}, z_4$	P
$\begin{array}{c} 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 010 \\ \end{array}$		$ \begin{array}{c} 1\\ 0\\ 0\\ P2'_1/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 1\\ 0 \end{array} $	0 0 1 Classific i 0 0 0	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2  imes \mathbb{Z}_2$	$X_{Bi}$	$_{\mathrm{S}}=\mathbb{Z}_{2,2}$	.,4 S	SI =	Z <sub>2P,1</sub> , Z	$z_{2P,3},z_4$	P
$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ \hline 000 \\ \hline 000 \\ \hline 000 \\ \hline 000 \\ \hline 002 \\ \hline 010 \\ \hline 012 \\ \end{array}$	(020) (000) (000) 11.54 weak (200) (002) (000) (000) (001)	$\begin{array}{c} 1\\ 0\\ 0\\ \hline P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ \end{array}$	0 0 1 Classific i 0 0 0 1	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2  imes \mathbb{Z}_2$	X <sub>B</sub>	$\mathbb{Z}_{3}=\mathbb{Z}_{2,2}$	2,4 S		$z_{2P,1}, z_{2P,1}, z_{2$	$z_{2P,3}, z_4$	P
$\begin{array}{c} 0 \\ \hline 0 \\ \hline 1 \\ \hline \\ \hline \\ \hline \\ Z_{2,2,4} \\ \hline \\ 000 \\ \hline 000 \\ \hline 000 \\ \hline 000 \\ \hline 002 \\ \hline 010 \\ \hline 012 \\ \hline 100 \\ \hline \end{array}$	(020) (000) (000) 11.54 weak (200) (002) (000) (000) (001) (001) (100)	$\begin{array}{c} 1\\0\\0\\\hline P2_1'/m'\\2_{0\frac{1}{2}0}^{010}*\\0\\0\\0\\1\\0\\\end{array}$	0 0 1 Classific i 0 0 0 1 0	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2  imes \mathbb{Z}_2$	X <sub>B</sub>	$\mathbb{Z}_{5}=\mathbb{Z}_{2,2}$	.,4 S	SI =	Z <sub>2P,1</sub> , Z	z <sub>2</sub> P,3, z <sub>4</sub>	P
$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 1 \\ \hline \\ \hline \\ \mathbb{Z}_{2,2,4} \\ \hline 000 \\ \hline 000 \\ \hline 000 \\ \hline 002 \\ \hline 010 \\ \hline 012 \\ \hline 100 \\ \hline 102 \\ \hline \end{array}$	(020) (000) (000) 11.54 weak (200) (002) (000) (000) (001) (001) (100)	$\begin{array}{c} 1\\0\\0\\\hline 0\\P2_1'/m'\\2_{0\frac{1}{2}0}^{010}*\\0\\0\\0\\1\\0\\1\end{array}$	0 0 1 Classific i 0 0 0 1 0 1	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2  imes \mathbb{Z}_2$	X <sub>B</sub>	$S_{S}=\mathbb{Z}_{2,2}$	2,4		Z <sub>2</sub> P,1, 2	$z_{2P,3}, z_4$	P
$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 1 \\ \hline \\$	(020) (000) (000) (11.54) weak (200) (002) (000) (001) (001) (100) (100) (100)	$\begin{array}{c} 1\\0\\0\\\hline 0\\P2_1'/m'\\2_{0\frac{1}{2}0}^{010}*\\0\\0\\0\\1\\0\\1\\0\\\end{array}$	0 0 1 Classific i 0 0 0 1 0 1 0 1	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2  imes \mathbb{Z}_2$	X <sub>B</sub>	$\mathbb{Z}_3=\mathbb{Z}_{2,2}$	.,4 S		$z_{2P,1}, z_{2P,1}$	$z_{2P,3}, z_4$	P
$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 1 \\ \hline \\ \hline \\ \mathbb{Z}_{2,2,4} \\ \hline 000 \\ \hline 000 \\ \hline 000 \\ \hline 002 \\ \hline 010 \\ \hline 012 \\ \hline 100 \\ \hline 102 \\ \hline \end{array}$	(020) (000) (000) 11.54 weak (200) (002) (000) (000) (001) (001) (100)	$\begin{array}{c} 1\\0\\0\\\hline 0\\P2_1'/m'\\2_{0\frac{1}{2}0}^{010}*\\0\\0\\0\\1\\0\\1\end{array}$	0 0 1 Classific i 0 0 0 1 0 1	$ \begin{array}{r} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	$\mathbb{Z}^2  imes \mathbb{Z}_2$	X <sub>B</sub>	$_{\mathrm{S}}=\mathbb{Z}_{2,2}$	.,,4 S		$z_{2P,1}, z_{2P,1}$	z <sub>2P,3</sub> , z <sub>4</sub>	P
$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 1 \\ \hline \\$	(020) (000) (000) (11.54) weak (200) (002) (000) (001) (001) (100) (100) (100)	$\begin{array}{c} 1\\0\\0\\\hline 0\\P2_1'/m'\\2_{0\frac{1}{2}0}^{010}*\\0\\0\\0\\1\\0\\1\\0\\\end{array}$	0 $0$ $1$ Classification of the control of the c	$ \frac{2011}{2\overline{2}00} $ $ \frac{1\overline{100}}{100} $ cation =	fication =		$X_{ m BS} = \mathbb{Z}_{2,2}$				\$2P,3, \$24	P
$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 1 \\ \hline \\$	(020) (000) (000) (11.54) weak (200) (002) (000) (001) (001) (100) (100) (100)	$ \begin{array}{c} 1\\ 0\\ 0\\ \hline P2'_1/m'\\ 2^{010}_{0\frac{1}{2}0}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1.55 \end{array} $	0 $0$ $1$ Classification of the control of the c	$ \frac{2011}{2\overline{2}00} $ $ \frac{1\overline{100}}{100} $ cation =	fication =						z <sub>2P,3</sub> , z <sub>4</sub>	P
$ \begin{array}{c c} 0 \\ \hline 0 \\ \hline 1 \\ \hline \\ \hline \\ \mathbb{Z}_{2,2,4} \\ \hline 000 \\ \hline 000 \\ \hline 000 \\ \hline 002 \\ \hline 010 \\ \hline 012 \\ \hline 100 \\ \hline 102 \\ \hline 110 \\ \hline 112 \\ \hline \\ \hline \\ \mathbb{Z}_2 \\ \end{array} $	(020) (000) (000) (11.54) weak (200) (002) (000) (000) (001) (100) (100) (101) (101) weak	$ \begin{array}{c} 1\\ 0\\ 0\\ \end{array} $ $ \begin{array}{c} P2'_1/m'\\ 2_{0\frac{1}{2}0}^{100}*\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1\\ 1.55\\ \{1 \frac{1}{2}00\}*\\ \end{array} $	$\begin{matrix} 0 \\ 0 \\ 1 \\ 1 \\ Classification \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ P_a 2_1/m \\ 2_{0\frac{1}{2}0}^{010}$	$ \frac{2011}{2\overline{2}00} $ $ \overline{1100} $ cation = $ \frac{\text{Classif}}{i} $	$\frac{\text{fication} =}{Cm_{(2)}^{010}}$						z <sub>2P,3</sub> , z <sub>4</sub>	P
$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 1 \\ \hline \\ \hline \\ \mathbb{Z}_{2,2,4} \\ \hline 000 \\ \hline 000 \\ \hline 000 \\ \hline 002 \\ \hline 010 \\ \hline 012 \\ \hline 100 \\ \hline 102 \\ \hline 110 \\ \hline 112 \\ \hline \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \end{array}$	(020) (000) (000) (11.54) weak (200) (002) (000) (001) (001) (100) (100) (101) (101) weak (000)	$\begin{array}{c} 1\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$ \frac{2011}{2\overline{2}00} $ $ 1\overline{1}00 $ cation = $ \frac{\text{Classif}}{i} $	$\begin{aligned} &\text{fication} = \\ &Cm_{(2)}^{010} \\ &2\overline{2}00 \end{aligned}$						z <sub>2P,3</sub> , z <sub>4</sub>	P
$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ \hline 000 \\ \hline 000 \\ \hline 000 \\ \hline 002 \\ \hline 010 \\ \hline 012 \\ \hline 100 \\ \hline 102 \\ \hline 110 \\ \hline 112 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 0 \\ \end{array}$	(020) (000) (000) (11.54) weak (200) (002) (000) (001) (001) (100) (100) (101) (101) (101) (000) (000) (000)	$\begin{array}{c} 1\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$ \frac{2011}{2\overline{2}00} $ $ 1\overline{100} $ $ \frac{1}{100} $	$ \frac{\text{fication} = \\ Cm_{(2)}^{010} \\ 2\overline{2}00 \\ 2\overline{2}00} $						z <sub>2P,3</sub> , z <sub>4</sub>	P
$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 1 \\ \hline \\ \hline \\ \mathbb{Z}_{2,2,4} \\ \hline 000 \\ \hline 000 \\ \hline 000 \\ \hline 002 \\ \hline 010 \\ \hline 012 \\ \hline 100 \\ \hline 102 \\ \hline 110 \\ \hline 112 \\ \hline \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \end{array}$	(020) (000) (000) (11.54) weak (200) (002) (000) (001) (001) (100) (100) (101) (101) weak (000)	$\begin{array}{c} 1\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1.55\\ \{1 \frac{1}{2}00\}*\\ 0\\ 0\\ 1\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$ \frac{2011}{2\overline{2}00} $ $ \frac{1\overline{100}}{1\overline{100}} $ $ \frac{Classis}{i} $ $ 0 $ $ 0 $ $ 1 $	$\begin{array}{l} \text{fication} = \\ Cm_{(2)}^{010} \\ \hline 2\bar{2}00 \\ \hline 2\bar{2}00 \\ \hline 1\bar{1}00 \\ \end{array}$	$\mathbb{Z}_M$	X <sub>BS</sub> =	$=\mathbb{Z}_2$	SI	$=z_{2P}^{\prime}$	z <sub>2</sub> P,3, z <sub>4</sub>	P
$\begin{array}{c} 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 010 \\ 012 \\ 100 \\ 102 \\ 110 \\ 112 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \end{array}$	(020) (000) (000) (11.54) weak (200) (002) (000) (001) (100) (100) (101) (101) (101) (100) (000) (000)	$\begin{array}{c} 1\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1.55\\ \{1 \frac{1}{2}00\}*\\ 0\\ 0\\ 1\\ 11.56\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ Classification of the control of the cont	$ \begin{array}{c} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $ $ \begin{array}{c} \text{Classif} \\ i \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c} \text{Classif} \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} \text{fication} = \\ Cm_{(2)}^{010} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \text{fication} = \\ \end{array}$	$\mathbb{Z}_M$		$=\mathbb{Z}_2$	SI	$=z_{2P}^{\prime}$	Z <sub>2</sub> P,3, Z <sub>4</sub>	P
$\begin{array}{c} 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 010 \\ 012 \\ 100 \\ 102 \\ 110 \\ 112 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \end{array}$	(020) (020) (000) (000)  11.54 weak (200) (002) (000) (000) (001) (100) (100) (101) (101) weak (000) (000) (000)	$\begin{array}{c} 1\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 0\\ 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ 1.55\\ \{1 \frac{1}{2}00\}*\\ \end{array}$ $\begin{array}{c} 0\\ 1\\ 1\\ \end{array}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$     \begin{array}{r}       2011 \\       \hline       2200 \\       \hline       1100 \\       \hline       cation = \\       \hline       Classified is a superior of the content of the con$	$\begin{array}{c} \text{fication} = \\ Cm_{(2)}^{010} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \text{fication} = \\ Cm_{(2)}^{010} \end{array}$	$\mathbb{Z}_M$	X <sub>BS</sub> =	$=\mathbb{Z}_2$	SI	$=z_{2P}^{\prime}$	Z2P,3, Z4	P
$\begin{array}{c} 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 010 \\ 012 \\ 100 \\ 102 \\ 110 \\ 112 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \end{array}$	(020) (000) (000) (11.54) weak (200) (002) (000) (001) (100) (100) (101) (101) (101) (100) (000) (000)	$\begin{array}{c} 1\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1.55\\ \{1 \frac{1}{2}00\}*\\ 0\\ 0\\ 1\\ 11.56\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ Classification of the control of the cont	$ \begin{array}{c} 2011 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $ $ \begin{array}{c} \text{Classif} \\ i \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c} \text{Classif} \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} \text{fication} = \\ Cm_{(2)}^{010} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \text{fication} = \\ \end{array}$	$\mathbb{Z}_M$	X <sub>BS</sub> =	$=\mathbb{Z}_2$	SI	$=z_{2P}^{\prime}$	Z2P,3, Z4	P
$\begin{array}{c} 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 010 \\ 012 \\ 100 \\ 102 \\ 110 \\ 112 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \end{array}$	(020) (020) (000) (000)  11.54 weak (200) (002) (000) (000) (001) (100) (100) (101) (101) weak (000) (000) (000)	$\begin{array}{c} 1\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 0\\ 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ 1.55\\ \{1 \frac{1}{2}00\}*\\ \end{array}$ $\begin{array}{c} 0\\ 1\\ 1\\ \end{array}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$     \begin{array}{r}       2011 \\       \hline       2200 \\       \hline       1100 \\       \hline       cation = \\       \hline       Classified is a superior of the content of the con$	$\begin{array}{c} \text{fication} = \\ Cm_{(2)}^{010} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \text{fication} = \\ Cm_{(2)}^{010} \end{array}$	$\mathbb{Z}_M$	X <sub>BS</sub> =	$=\mathbb{Z}_2$	SI	$=z_{2P}^{\prime}$	Z2P,3, Z4	P
$\begin{array}{c} 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 010 \\ 012 \\ 100 \\ 102 \\ 110 \\ 112 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ \end{array}$	(020) (020) (000) (000)  11.54 weak (200) (002) (000) (001) (001) (100) (100) (101) (101) (000) (000) (000) (000) (000)	$\begin{array}{c} 1\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1.55\\ \{1 \frac{1}{2}00\}*\\ 0\\ 0\\ 1\\ 1\\ 1.56\\ \{1 0\frac{1}{2}0\}*\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 2011 \\ \hline 2200 \\ \hline 1100 \\ \hline \text{cation} = \\ \hline \\ \hline Classification \\ i \\ 0 \\ 0 \\ \hline \\ Classification \\ i_{0\frac{1}{2}0}* \\ 0 \\ \end{array}$	$\begin{array}{c} \text{fication} = \\ Cm_{(2)}^{010} \\ \hline 2\bar{2}00 \\ \hline 2\bar{2}00 \\ \hline 1\bar{1}00 \\ \hline \text{fication} = \\ \hline Cm_{(2)}^{010} \\ \hline 2\bar{2}00 \\ \hline \end{array}$	$\mathbb{Z}_M$	X <sub>BS</sub> =	$=\mathbb{Z}_2$	SI	$=z_{2P}^{\prime}$	Z2P,3, Z4	P
$\begin{array}{c} 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 010 \\ 012 \\ 100 \\ 102 \\ 110 \\ 112 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	(020) (020) (000) (000)  11.54 weak (200) (002) (000) (001) (001) (100) (101) (101) (101) weak (000) (000) (000) (000)	$\begin{array}{c} 1\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1.55\\ \{1 \frac{1}{2}00\}*\\ 0\\ 0\\ 1\\ 11.56\\ \{1 0\frac{1}{2}0\}*\\ 0\\ 0\\ 1\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ Classification of the control of the cont	$\begin{array}{c} 2011 \\ \hline 2200 \\ \hline 1100 \\ \hline \\ cation = \\ \hline \\ Classification = \\ \hline \\ Classification = \\ \hline \\ O \\ 0 \\ \hline \\ Classification = \\ \hline \\ O \\ O \\ O \\ \hline \\ O \\ O \\ O \\ \\ O \\ O$	$\begin{array}{l} \overline{\text{fication}} = \\ Cm_{(2)}^{010} \\ \overline{2200} \\ \overline{1100} \\ \overline{\text{fication}} = \\ Cm_{(2)}^{010} \\ \overline{2200} \\ \overline{2200} \\ \overline{1100} \\ \end{array}$	$\mathbb{Z}_M$	X <sub>BS</sub> =	$==\mathbb{Z}_2$	SI :	$=z_{2P}^{\prime }$	Z2P,3, Z4	P
$\begin{array}{c} 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 000 \\ 0012 \\ 100 \\ 102 \\ 110 \\ 112 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \end{array}$	(020) (020) (000) (000) (11.54) (000) (000) (000) (000) (000) (001) (100) (101) (101) (100) (000) (000) (000) (000)	$\begin{array}{c} 1\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1.55\\ \{1 \frac{1}{2}00\}*\\ 0\\ 0\\ 1\\ 11.56\\ \{1 0\frac{1}{2}0\}*\\ 0\\ 0\\ 1\\ 11.57\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ Classification of the control of the cont	$\begin{array}{c} 2011 \\ \hline 2200 \\ \hline 1100 \\ \hline \\ \text{cation} = \\ \hline \\ \hline \\ Classifi \\ i \\ \hline \\ 0 \\ \hline \\ 0 \\ \hline \\ 1 \\ \hline \\ Classifi \\ i_{0\frac{1}{2}0}* \\ \hline \\ 0 \\ 0 \\ \hline \\ Classifi \\ \hline \\ 0 \\ \hline \\ 0 \\ \hline \\ Classifi \\ \hline \\ 0 \\ 0$	$\begin{array}{c} \text{fication} = \\ Cm_{(2)}^{010} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \text{fication} = \\ \hline Cm_{(2)}^{010} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \text{fication} = \\ \end{array}$	$\mathbb{Z}_M$	X <sub>BS</sub> =	$==\mathbb{Z}_2$	SI :	$=z_{2P}^{\prime}$	Z2P,3, Z4	P
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 010 \\ 012 \\ 100 \\ 112 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \end{array}$	(020) (020) (000) (000) (11.54) (000) (002) (000) (000) (001) (100) (100) (101) (101) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 1\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1.55\\ \{1 \frac{1}{2}00\}*\\ 0\\ 0\\ 1\\ 11.56\\ \{1 0\frac{1}{2}0\}*\\ 0\\ 0\\ 1\\ 11.57\\ \{1 \frac{1}{2}\frac{1}{2}0\}*\\ \end{array}$	$\begin{matrix} 0\\ 0\\ 1\\ 1\\ Classification \\ i\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 2011 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \\ \text{cation} = \\ \hline \\ \hline \\ \text{Classif} \\ i \\ 0 \\ 0 \\ \hline \\ 0 \\ \hline \\ 0 \\ 0 \\ \hline \\ \text{Classif} \\ i_{0\frac{1}{2}0}* \\ \hline \\ 0 \\ 0 \\ \hline \\ \text{Classif} \\ i_{\frac{1}{2}\frac{1}{2}0}* \\ \hline \end{array}$	$\begin{array}{c} \text{fication} = \\ Cm_{(2)}^{010} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \text{fication} = \\ \hline Cm_{(2)}^{010} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \text{fication} = \\ \hline Cm_{(2)}^{010} \\ \hline \end{array}$	$\mathbb{Z}_M$	X <sub>BS</sub> =	$==\mathbb{Z}_2$	SI :	$=z_{2P}^{\prime }$	Z2P,3, Z4	P
$\begin{array}{c} 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 010 \\ 012 \\ 100 \\ 102 \\ 110 \\ 112 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \end{array}$	(020) (020) (000) (000) (11.54) weak (200) (002) (000) (001) (001) (100) (100) (101) (101) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 1\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1.55\\ \{1 \frac{1}{2}00\}*\\ 0\\ 0\\ 1\\ 11.56\\ \{1 0\frac{1}{2}0\}*\\ 0\\ 0\\ 1\\ 11.57\\ \{1 \frac{1}{2}\frac{1}{2}0\}*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{matrix} 0\\ 0\\ 1\\ 0\\ 1\\ \end{matrix}$ Classification of the state of the	$\begin{array}{c} 2011 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \text{cation} = \\ \hline \\ \hline Classi \\ i \\ \hline 0 \\ 0 \\ \hline \\ Classi \\ i_{0\frac{1}{2}0}* \\ 0 \\ 0 \\ \hline \\ Classi \\ i_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ \hline \\ \end{array}$	$\begin{array}{c} \text{fication} = \\ Cm_{(2)}^{010} \\ \hline 2\bar{2}00 \\ \hline 2\bar{2}00 \\ \hline 1\bar{1}00 \\ \hline \text{fication} = \\ \hline Cm_{(2)}^{010} \\ \hline 2\bar{2}00 \\ \hline 2\bar{2}00 \\ \hline 1\bar{1}00 \\ \hline \text{fication} = \\ \hline Cm_{(2)}^{010} \\ \hline Cm_{(2)}^{010} \\ \hline 2\bar{2}00 \\ \hline \end{array}$	$\mathbb{Z}_M$	X <sub>BS</sub> =	$==\mathbb{Z}_2$	SI :	$=z_{2P}^{\prime }$	Z2P,3, Z4	P
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 010 \\ 012 \\ 100 \\ 112 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \end{array}$	(020) (020) (000) (000) (11.54) (000) (002) (000) (000) (001) (100) (100) (101) (101) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 1\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} P2_1'/m'\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1.55\\ \{1 \frac{1}{2}00\}*\\ 0\\ 0\\ 1\\ 11.56\\ \{1 0\frac{1}{2}0\}*\\ 0\\ 0\\ 1\\ 11.57\\ \{1 \frac{1}{2}\frac{1}{2}0\}*\\ \end{array}$	$\begin{matrix} 0\\ 0\\ 1\\ 1\\ Classification \\ i\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 2011 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \\ \text{cation} = \\ \hline \\ \hline \\ \text{Classif} \\ i \\ 0 \\ 0 \\ \hline \\ 0 \\ \hline \\ 0 \\ 0 \\ \hline \\ \text{Classif} \\ i_{0\frac{1}{2}0}* \\ \hline \\ 0 \\ 0 \\ \hline \\ \text{Classif} \\ i_{\frac{1}{2}\frac{1}{2}0}* \\ \hline \end{array}$	$\begin{array}{c} \text{fication} = \\ Cm_{(2)}^{010} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \text{fication} = \\ \hline Cm_{(2)}^{010} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \text{fication} = \\ \hline Cm_{(2)}^{010} \\ \hline \end{array}$	$\mathbb{Z}_M$	X <sub>BS</sub> =	$==\mathbb{Z}_2$	SI :	$=z_{2P}^{\prime }$	Z2P,3, Z4	P

	1	0.50 00/	CI	·C	
77	weak	$\frac{2.58 C2}{2^{010}}$	$\frac{m}{i}$ Class	$ ext{ification} = \mathbb{Z}_M  imes \mathbb{Z}   ext{X}_{ ext{BS}} = \mathbb{Z}_{2,2}   ext{SI} = z_{2P,2}, z_2' \ Cm_{(2)}^{010}$	P
$\frac{\mathbb{Z}_{2,2}}{00}$	(220)		$\frac{\imath}{0}$	$\frac{Cm_{(2)}}{22}$	
00	(000)	0	0	$\frac{22}{2\overline{2}}$	
00	(000)	0	0	$\frac{22}{2\overline{2}}$	
01	(000)	0	1	11	
$\frac{-01}{10}$	(110)	0	0	11	
11	(110)	0	1	20	
	12.62			ation = $\mathbb{Z}^2 \times \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_{2,2,4}$ $\mathrm{SI} = z_{2P,1}, z_{2P}$	
$\mathbb{Z}_{2,2,4}$	weak	$\frac{C2/m}{2^{010}*}$	i	$\mathbf{A}_{\mathrm{BS}} = \mathbb{Z}_{2,2,4}  \mathbf{S}_{\mathrm{I}} = \mathbf{z}_{2P,1}, \mathbf{z}_{2P}$	3, 24P
$\frac{222,2,4}{000}$	$(2\overline{2}0)$	0	0		
000	(002)	0	0		
000	(000)	0	0		
002	(000)	1	1		
010	(001)	0	0		
012	(001)	1	1		
100	$(1\overline{1}0)$	0	0		
102	$(1\bar{1}0)$	1	1		_
110	$(1\overline{1}1)$	0	0		
112	$(1\overline{1}1)$	1	1		
		12.63	$C_c 2/m$	Classification = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$2^{010}$	$i  ext{ } Cm_{(2)}^{010}$	_
0	(000)	0	0	$0$ $2\overline{2}$	
0	(000)	0	0	$0   2\overline{2}$	
1	(000)	1	0	$1   1\overline{1}$	
		12.64	$C_a 2/m$	Classification = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	2010	$i  ext{ } Cm_{(2)}^{010}$	
0	(000)	0	0	$0   2\overline{2}$	
0	(000)	0	0	$0   2\overline{2}$	
1	(000)	1	0	$1   1\overline{1}$	
		13.65 P2	/c Class	ification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_{2,2}$ $\mathrm{SI} = z_{2P,2}, z_{2P}'$	)
$\overline{\mathbb{Z}_{2,2}}$	weak	$2_{00\frac{1}{2}}^{010}$	i		
00	(020)	$\frac{00\overline{2}}{0}$	0		
00	(000)	0	0		
01		U			
10	(000)	0	1		
	(010)				
11		0	1		
11	(010)	0 0 0	1 0 1	$X_{ m BS} = \mathbb{Z}_2 \circ_A  { m SI} = Z_{2P1} \circ_{P1} \circ_{P2P}$	2, Z4P
	(010) (010) 13.69	$ \begin{array}{c} 0 \\ 0 \\ 0 \end{array} $	1 0 1	$ ext{ation} = \mathbb{Z}^2  imes \mathbb{Z}_2   ext{X}_{ ext{BS}} = \mathbb{Z}_{2,2,4}   ext{SI} = z_{2P,1}, z_{2P,1}$	$2, z_{4P}$
$\mathbb{Z}_{2,2,4}$	(010) (010) 13.69 weak	$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ P2'/c' \\ 2_{00\frac{1}{2}}^{010} * \end{array} $	$ \begin{array}{c} 1\\0\\1\\ \end{array} $ Classific	$X_{\mathrm{BS}} = \mathbb{Z}_{2,2,4}  \mathrm{SI} = z_{2P,1}, z_{2P,1}$	$2, z_{4P}$
$\frac{\boxed{\mathbb{Z}_{2,2,4}}}{000}$	(010) (010) 13.69 weak (200)	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ P2'/c' \\ 2_{00\frac{1}{2}}^{010} * \\ 0 \end{array} $	$ \begin{array}{c} 1\\0\\1\\\text{Classific}\\i\\0\end{array} $	ation $= \mathbb{Z}^2  imes \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_{2,2,4}$ $\mathrm{SI} = z_{2P,1}, z_{2P,1}$	$2, z_{4P}$
	(010) (010) 13.69 weak (200) (004)	$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ P2'/c' \\ 2_{00\frac{1}{2}}^{010} * \end{array} $	$ \begin{array}{c} 1\\0\\1\\ \text{Classific}\\i\\0\\0\\ \end{array} $	$ ext{ation} = \mathbb{Z}^2  imes \mathbb{Z}_2   ext{X}_{ ext{BS}} = \mathbb{Z}_{2,2,4}   ext{SI} = z_{2P,1}, z_{2P,1}$	$2, z_{4P}$
$\frac{\boxed{\mathbb{Z}_{2,2,4}}}{000}$	(010) (010) 13.69 weak (200)	$ \begin{array}{c} 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ P2'/c' \\ 2_{00\frac{1}{2}}^{010} * \\ 0 \end{array} $	$ \begin{array}{c} 1\\0\\1\\\text{Classific}\\i\\0\end{array} $	$\mathbf{x}_{\mathrm{BS}} = \mathbb{Z}_{2,2,4}  \mathrm{SI} = z_{2P,1}, z_{2P,1}$	$2, z_{4P}$
$ \begin{array}{c c}                                    $	$ \begin{array}{c} (010) \\ (010) \\ \hline (010) \\ \hline \\ 13.69 \\ \hline \\ \text{weak} \\ \hline \\ (200) \\ \hline \\ (004) \\ \hline \\ (00\overline{2}) \\ \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ P2'/c' \\ 2_{00\frac{1}{2}}^{010} * \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 1\\0\\1\\ \end{array} $ Classific $ \begin{array}{c} i\\0\\0\\0\\ \end{array} $	$ ext{ation} = \mathbb{Z}^2  imes \mathbb{Z}_2   ext{ X}_{ ext{BS}} = \mathbb{Z}_{2,2,4}   ext{SI} = z_{2P,1}, z_{2P,1}$	$2, z_{4P}$
$ \begin{array}{c c} \hline \mathbb{Z}_{2,2,4} \\ \hline 000 \\ 000 \\ \hline 000 \\ 002 \end{array} $	(010) (010) 13.69 weak (200) (004) (002) (002)	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ P2'/c' \\ 2_{00\frac{1}{2}}^{010} * \\ 0 \\ 0 \\ 1 \\ 0 \\ \end{array}$	$ \begin{array}{c} 1\\0\\1\\ \end{array} $ Classific $ \begin{array}{c} i\\0\\0\\0\\1\\ \end{array} $	$ ext{stion} = \mathbb{Z}^2  imes \mathbb{Z}_2   ext{ X}_{ ext{BS}} = \mathbb{Z}_{2,2,4}   ext{SI} = z_{2P,1}, z_{2P,1}$	2, Z4P
$ \begin{array}{c c} \hline \mathbb{Z}_{2,2,4} \\ \hline 000 \\ 000 \\ \hline 000 \\ 002 \\ 100 \\ \end{array} $	(010) (010) 13.69 weak (200) (004) (002) (002) (100)	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ P2'/c' \\ 2_{00\frac{1}{2}}^{010} * \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ \end{array}$	1 0 1 Classific i 0 0 0 1 0		$2, z_{4P}$
$ \begin{array}{c c} \hline \mathbb{Z}_{2,2,4} \\ \hline 000 \\ 000 \\ \hline 000 \\ 002 \\ 100 \\ \end{array} $	(010) (010) 13.69 weak (200) (004) (002) (002) (100)	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ P2'/c' \\ 2^{010}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} 1\\ 0\\ 1\\ \end{array} $ Classific $ 0\\ 0\\ 0\\ 1\\ 0\\ 1 $	tion = $\mathbb{Z}^2 \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2,4}$ $SI = z_{2P,1}, z_{2P,1}$ $Z_{2P,1}$	2, Z4P
$ \begin{array}{c c}  \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 100 \\ 102 \\ \mathbb{Z}_{2} \end{array} $	(010) (010) 13.69 weak (200) (004) (002) (002) (100) (102) weak	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	1 0 1 Classific i 0 0 0 1 0	Classification = $\mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$ $i$	2, Z4P
$ \begin{array}{c c}  \mathbb{Z}_{2,2,4} \\ \hline 000 \\ 000 \\ 000 \\ 002 \\ 100 \\ 102 \end{array} $	(010) (010) (010) 13.69 weak (200) (004) (002) (002) (100) (102) weak (000)	$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 13.70 \\ \{1 \frac{1}{2}00\}* \end{array} $	$\begin{array}{c} 1\\ 0\\ 1\\ \hline 0\\ 1\\ \hline \\ Classific\\ i\\ 0\\ 0\\ 1\\ \hline \\ O\\ 1\\ \hline \\ P_a2/c\\ \hline \\ 2^{010}_{00\frac{1}{2}}\\ \hline \\ 0\\ \end{array}$	Classification = $\mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z_{2P}'$	2, Z4P
$ \begin{array}{c c} \hline \mathbb{Z}_{2,2,4} \\ \hline 000 \\ 000 \\ 000 \\ \hline 002 \\ \hline 100 \\ 102 \\ \hline \mathbb{Z}_{2} \\ \hline 0 $	(010) (010) 13.69 weak (200) (004) (002) (002) (100) (102) weak	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 13.70 \\ 1 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} 1\\ 0\\ 1\\ \\ Classific\\ i\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \hline P_a2/c\\ \hline 2^{010}_{00\frac{1}{2}}\\ 0\\ 0\\ \end{array}$	Classification = $\mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$ $i$ $0$ $1$	2, Z4P
$ \begin{array}{c c} \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 100 \\ 102 \\ \hline \mathbb{Z}_{2} \\ 0 \\ 1 \end{array} $	(010) (010) (010) 13.69 weak (200) (004) (002) (100) (100) (102) weak (000) (000)	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ P2'/c'\\ 2^{010}_{00\frac{1}{2}}*\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 1\\ 1,\frac{1}{2}00\}*\\ 0\\ \end{array}$ $\begin{array}{c} 13.70\\ \end{array}$	$ \begin{array}{c} 1 \\ 0 \\ 1 \\ \hline Classific \\ i \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline P_a 2/c \\ 2_{00\frac{1}{2}}^{010} \\ 0 \\ 0 \\ \hline P_b 2/c \\ \end{array} $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2, Z4P
$ \begin{array}{c c} \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 100 \\ 102 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	(010) (010) (010) 13.69 weak (200) (004) (002) (100) (102) weak (000) (000)	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 1\\ 0\\ 1\\ \hline \\ 1\\ \hline \\ Classific\\ i\\ 0\\ 0\\ 0\\ 1\\ \hline \\ 0\\ 0\\ 0\\ 1\\ \hline \\ P_a2/c\\ 2^{010}_{00\frac{1}{2}}\\ 0\\ 0\\ \hline \\ 0\\ 0\\ 0\\ \frac{1}{2}\\ 0\\ 0\\ 0\\ \frac{1}{2}\\ 0\\ 0\\ 0\\ 0\\ \frac{1}{2}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \frac{1}{2}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	Classification = $\mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z_{2P}'$ $i$ $0$ $1$ Classification = $\mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z_{2P}'$ $i$	2, Z4P
$ \begin{array}{c c} \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 100 \\ 102 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	(010) (010) (010) (13.69) weak (200) (004) (002) (100) (102) weak (000) (000)	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 13.70\\ \{1 \frac{1}{2}00\}*\\ 0\\ 1\\ 13.71\\ \{1 0\frac{1}{2}0\}*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 1\\ 0\\ 1\\ \hline 0\\ 1\\ \hline \\ Classific\\ i\\ 0\\ 0\\ 0\\ 1\\ \hline \\ 0\\ 0\\ 0\\ 1\\ \hline \\ P_a2/c\\ 2^{010}_{00\frac{1}{2}}\\ 0\\ 0\\ \hline \\ 0\\ 2^{010}_{00\frac{1}{2}}\\ 0\\ \hline \\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2, Z4P
$ \begin{array}{c c} \mathbb{Z}_{2,2,4} \\ 000 \\ 000 \\ 000 \\ 002 \\ 100 \\ 102 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	(010) (010) (010) 13.69 weak (200) (004) (002) (100) (102) weak (000) (000)	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 1\\ 13.70\\ \{1 \frac{1}{2}00\}*\\ 0\\ 1\\ 13.71\\ \{1 0\frac{1}{2}0\}*\\ 0\\ 1\\ 1\\ 10\frac{1}{2}0\}*\\ 0\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{c} 1\\ 0\\ 1\\ \hline 0\\ 1\\ \hline \\ Classific\\ i\\ 0\\ 0\\ 0\\ 1\\ \hline \\ 0\\ 0\\ 1\\ \hline \\ P_a2/c\\ 2^{010}_{00\frac{1}{2}}\\ 0\\ 0\\ \hline \\ 0\\ 2^{010}_{00\frac{1}{2}}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI} = z_{2P}' \\ i \\ 0 \\ 1 \\ \hline \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI} = z_{2P}' \\ i \\ 0 \\ 1 \\ \end{array}$	2, Z4P
$ \begin{array}{c c} \mathbb{Z}_{2,2,4} \\ \hline 000 \\ 000 \\ 000 \\ 002 \\ \hline 100 \\ 102 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	(010) (010) (010) (010) (010) (010) (004) (002) (002) (100) (102)  weak (000) (000)  weak (000) (000)	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 1\\ 13.70\\ \{1 \frac{1}{2}00\}*\\ 0\\ 1\\ 1(0\frac{1}{2}0)*\\ 0\\ 1\\ 13.71\\ \{1 0\frac{1}{2}0\}*\\ 0\\ 1\\ 13.72\\ 0\\ 1\\ 1\\ 13.72\\ 0\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{c} 1\\ 0\\ 1\\ \\\hline 0\\ 1\\ \\\hline 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ \frac{1}{2}\\ 0\\ 0\\ 0\\ 0\\ \frac{1}{2}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\text{BS}} = \mathbb{Z}_2  \mathbf{SI} = z_{2P}' \\ i \\ 0 \\ 1 \\ \hline \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\text{BS}} = \mathbb{Z}_2  \mathbf{SI} = z_{2P}' \\ i \\ 0 \\ 1 \\ \hline \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\text{BS}} = \mathbb{Z}_2  \mathbf{SI} = z_{2P}' \\ \end{array}$	2, Z4P
$ \begin{array}{c c} \mathbb{Z}_{2,2,4} \\ \hline 000 \\ 000 \\ 000 \\ 002 \\ \hline 100 \\ 102 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \end{array} $	(010) (010) (010) (13.69) weak (200) (004) (002) (100) (102) weak (000) (000)  weak (000) (000)	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	$\begin{array}{c} 1\\ 0\\ 1\\ 1\\ Classific\\ i\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ P_a2/c\\ 2^{010}_{000\frac{1}{2}}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI} = z_{2P}' \\ i \\ 0 \\ 1 \\ \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI} = z_{2P}' \\ i \\ 0 \\ 1 \\ \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI} = z_{2P}' \\ i \\ 0 \\ 1 \\ \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI} = z_{2P}' \\ i \\ 0 \\ 1 \\ \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI} = z_{2P}' \\ \mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_2  \mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_2  \mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_2 \\ \mathbf{X}$	2, Z4P
$ \begin{array}{c c} \mathbb{Z}_{2,2,4} \\ \hline 000 \\ 000 \\ 000 \\ \hline 002 \\ 100 \\ 102 \\ \hline \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ \hline 0 \\ 1 \end{array} $	(010) (010) (010) (010) (010) (010) (004) (002) (002) (100) (102)  weak (000) (000)  weak (000) (000)	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 1\\ 13.70\\ \{1 \frac{1}{2}00\}*\\ 0\\ 1\\ 1(0\frac{1}{2}0)*\\ 0\\ 1\\ 13.71\\ \{1 0\frac{1}{2}0\}*\\ 0\\ 1\\ 13.72\\ 0\\ 1\\ 1\\ 13.72\\ 0\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{c} 1\\ 0\\ 1\\ \\\hline 0\\ 1\\ \\\hline 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ \frac{1}{2}\\ 0\\ 0\\ 0\\ 0\\ \frac{1}{2}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\text{BS}} = \mathbb{Z}_2  \mathbf{SI} = z_{2P}' \\ i \\ 0 \\ 1 \\ \hline \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\text{BS}} = \mathbb{Z}_2  \mathbf{SI} = z_{2P}' \\ i \\ 0 \\ 1 \\ \hline \text{Classification} = \mathbb{Z}_2  \mathbf{X}_{\text{BS}} = \mathbb{Z}_2  \mathbf{SI} = z_{2P}' \\ \end{array}$	2, Z4P

	(000)	1	0	0
	(000)	13.73	$P_A 2/c$	Classification = $\mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$
$\overline{\mathbb{Z}_2}$	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$\frac{142/c}{2_{00\frac{1}{2}}^{010}}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{-2}{0}$	(000)	0	$\frac{-00\frac{1}{2}}{0}$	0
$\frac{0}{1}$	(000)	1	0	0
	(000)	13.74	$P_C 2/c$	Classification = $\mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$
$\mathbb{Z}_2$	weak	$\frac{13.74}{\{1 \frac{1}{2}\frac{1}{2}0\}*}$	$2_{00\frac{1}{2}}^{010}$	$i \qquad \qquad i \qquad \qquad i$
$\frac{2}{0}$	(000)	0	$\frac{2_{00\frac{1}{2}}}{0}$	0
$\frac{0}{1}$	(000)	1	0	1
	(000)			Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z_{2P}'$
$\overline{\mathbb{Z}_2}$	weak	$\begin{array}{r} 14.75 \\ 2_{0\frac{1}{2}\frac{1}{2}}^{010} \end{array}$	$\frac{1}{i}$	$\mathbb{A}_{BS} = \mathbb{Z}_2  \mathbb{A}_{BS} = \mathbb{Z}_2  \mathbb{A}_{1} = \mathbb{Z}_{2P}$
$\frac{\mathbb{Z}_2}{0}$	(000)	$\frac{2_{0\frac{1}{2}\frac{1}{2}}}{0}$	0	
$\frac{0}{0}$	(000)	$\frac{0}{1}$	0	
$\frac{0}{1}$	(000)	0	1	
		$4.79 P2'_{1}$		sification = $\mathbb{Z}^2 \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ $SI = z_{2P,1}, z_{4P}$
$\overline{\mathbb{Z}_{2,4}}$	weak	$\frac{2_{0\frac{1}{2}\frac{1}{2}}^{010}}{2_{0\frac{1}{2}\frac{1}{2}}^{010}}*$	i	MBS = 224  SI = 22P, 1, 24P
$\frac{22,4}{00}$	(200)	$\frac{\frac{2}{0}\frac{1}{2}\frac{1}{2}}{0}$	0	
00	(000)	0	0	
00	(000)	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	$\{1 0\frac{1}{2}0\}*$	$2^{010}_{00\frac{1}{2}}*$	$i_{0\frac{1}{2}0}*$
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 = $\mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$ $\mathrm{SI} = z_{2P}'$
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$2^{010}*$	i
0	(000)	0	0	0
1	(000)	1	1	<u> </u>
F77		14.84	$P_C 2_1/c$	Classification = $\mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$
$\mathbb{Z}_2$		$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}*$	$i_{rac{1}{2}rac{1}{2}0}*$
0	(000)	0	0	0
1	(000)	1	1	0
		$\frac{15.85 C2}{2010}$		ification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z_{2P,2}, z'_{2P}$
$\mathbb{Z}_{2,2}$	weak	$2^{010}_{00\frac{1}{2}}$	i	
00	$(\overline{220})$	0	0	
00	(000)	0	0	
$\frac{01}{10}$	$(000)$ $(\overline{110})$	0	0	
$\frac{10}{11}$	(110) $(110)$	0	1	
				if eation 72 v 7 V 7 CI
7.	weak	0.89 <i>C2 /</i>	$\frac{c}{i}$ Class	sification = $\mathbb{Z}^2 \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ $SI = z_{2P,1}, z_{4P}$
$\frac{\mathbb{Z}_{2,4}}{00}$		$2^{010}_{00\frac{1}{2}}*$		
00	$(2\overline{2}4)$	0	0	
00	$(00\overline{4})$ $(002)$	0	0	
$\frac{00}{02}$	$(002)$ $(00\overline{2})$	0	1	
02	(302)	V	_	

10	(110)	1	0									
10	$(1\overline{1}2)$	1	0									
12	$(1\bar{1}0)$	1	1									
		15.90		Classifica	ation =	$\mathbb{Z}_2$	$X_{BS} =$	$\mathbb{Z}_2$	SI =	$z'_{2P}$		
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$2_{00\frac{1}{2}}^{010}$	$i_{00\frac{1}{2}}*$								
0	(000)	0	0	0								
1	(000)	1	0	0								
		15.91	$C_a 2/c$	Classifica	ation =	$\mathbb{Z}_2$	X <sub>BS</sub> =	$=\mathbb{Z}_2$	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	$\frac{00_{\bar{2}}}{0}$	0								
$\frac{0}{1}$	(000)	1	0	1								
	(000)	16.3 <i>I</i>		Classification	on – 7	v 77-	V	$=\mathbb{Z}_2$	ÇT	$= z_{2C}$		
$\overline{\mathbb{Z}_2}$	weak	$\frac{10.3}{2^{001}}$	2010*	2 <sup>100</sup> *	011 — Z	∧ <i>\(\mu</i> 2	ABS	<i>—</i> ∠12	51	- 22C		
$\frac{2}{0}$	(002)	0	0	0								
$\frac{0}{0}$	(000)	0	1	1								
1	(001)	0	0	0								
	(00-)			Classificat	ion = 7	7 ~ 7.	. Y <sub>D</sub>	. – 7.	. ST	$=z_{2C}$		
$\overline{\mathbb{Z}_2}$	weak	$\frac{2^{001}}{2^{00\frac{1}{2}}}*$	$\frac{2221}{2_{00\frac{1}{2}}^{010}}*$	$2^{100}$	1011 — 2	<u>а ∧ ш</u> ;	2 AB;	5 — 🕮	2 51	— 22C		
0	$(\overline{2}00)$ $(000)$	0	$\frac{0}{1}$	0								
$\frac{0}{1}$	(000)	0	0	0								
	(100)			-		77 . ***	77	F77				
	1	$\frac{18.18}{2^{001}}$		Classificat	ion = 2	$\mathbb{Z} \times \mathbb{Z}_{2}$	$_{2}$ $X_{\mathrm{B}}$	$_{ m S}=\mathbb{Z}_2$	$_{2}$ SI	$=z_{2C}$	!	
$\mathbb{Z}_2$	weak		$2^{010}_{\frac{1}{2}\frac{1}{2}0}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$								
0	(002)	0	0	0								
0	(000)	0	1	1								
1	(001)	0	0	0								
				Classificati	$ion = \mathbb{Z}$	$\mathbb{Z} \times \mathbb{Z}_2$	$_{2}$ $X_{BS}$	$_{\mathrm{S}}=\mathbb{Z}_{2}$	SI	$=z_{2C}$		
$\mathbb{Z}_2$	weak	$2^{001}$	$2^{010}*$	$2^{100}*$								
0	(002)	0	0	0								
0	(000)	0	1	1								
1	(001)	0	0	0								
		25.60	Pm'm'	2 Classifi	cation	$=\mathbb{Z}$	$X_{BS}$	$=\mathbb{Z}_2$	SI =	$= z_{2C}$		
$\mathbb{Z}_2$	weak	2001	$m_{010}*$	$m_{100}*$								
0	$(00\overline{2})$	0	0	0								
1	$(00\overline{1})$	0	0	0								
		27.81	Pc'c'2		ation =	$=\mathbb{Z}$	$X_{BS} =$	$\mathbb{Z}_2$ S	SI =	$z_{2C}'$		
$\mathbb{Z}_2$	weak	2001	$g_{00\frac{1}{2}}^{010}*$	$g_{00\frac{1}{2}}^{100}*$								
0	(004)	0	2	2								
1	(002)	0	1	1								
		28.91	Pm'a'2		cation :	$=\mathbb{Z}$	X <sub>BS</sub> =	$=\mathbb{Z}_2$	SI =	$z_{2C}$		
$\mathbb{Z}_2$	weak	$2^{001}$	$g_{\frac{1}{2}00}^{010}*$	$g_{\frac{1}{2}00}^{100}*$								
0	$(00\bar{2})$	0	0	0								
1	$(00\overline{1})$	0	0	0								
	/	30.117	$P_bnc2$	Classifica	tion =	$\mathbb{Z}_2$	X <sub>BS</sub> =	- Zo :	SI =	$z'_{2C,\pi}$		
$\overline{\mathbb{Z}_2}$	weak	$\{1 0\frac{1}{2}0\}*$	$\frac{2_{0\frac{1}{2}0}^{001}}{2_{0\frac{1}{2}0}^{001}}$	$g_{0\frac{1}{2}\frac{1}{2}}^{010}$	$g_{00\frac{1}{2}}^{100}*$		no			-20,π		
0	(000)	1	$0\frac{1}{2}0$	$\frac{g_{0\frac{1}{2}\frac{1}{2}}}{1}$	$\frac{g_{00\frac{1}{2}}}{0}$							
	1 (000)		D1/ /e			F77	v	777	CT			
777	**** 1-	$\frac{32.138}{2^{001}}$			cation	=	$X_{BS} =$	= #2	SI =	$z_{2C}$		
$\mathbb{Z}_2$	weak		$g_{\frac{1}{2}\frac{1}{2}0}^{010}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{100}*$								
0	$(00\overline{2})$	0	0	0								
1	$(00\overline{1})$	0	0	0								
		34.163	$P_Cnn2$	Classifica		$\mathbb{Z}_2$	$X_{BS} =$	$=\overline{\mathbb{Z}_2}$	SI =	$z_{2C,\pi}'$		
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}$	$g_{00\frac{1}{2}}^{010}*$	$g_{00\frac{1}{2}}^{100}*$							
0	(000)	1	0	0	0							
		35.168	Cm'm'	2 Classif	ication	$=\mathbb{Z}$	$X_{BS}$	$=\mathbb{Z}_2$	SI =	$= z_{2C}$		
$\overline{\mathbb{Z}_2}$	weak	$2^{001}$	$m_{010}*$	$m_{100}*$			20			20		
			0.10	100								

	$(00\overline{2})$	0	0	0					
1	$(00\overline{1})$	0	0	0					
		37.18	3  Cc'c'	2 Classi	fication	= Z XBS	$=\mathbb{Z}_2$ SI	$=z'_{2C}$	
$\mathbb{Z}_2$	weak	$2^{001}$	$g_{00\frac{1}{2}}^{010}*$	$g_{00\frac{1}{2}}^{100}*$				20	
0	(004)	0	$\frac{200^{\frac{1}{2}}}{2}$	$\frac{300_{\overline{2}}}{2}$					
1	(002)	0	1	1					
	,	37.185	$C_acc2$	Classifica	ation = 2	$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}} =$	$\mathbb{Z}_2$ SI =	z <sub>2,37.185</sub>	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	2001	$g_{00\frac{1}{2}}^{010}$	$g_{00\frac{1}{2}}^{100}$	22 21B5 —	<u> </u>	~2,37.160	
0	(000)	1	0	$\frac{g_{00\frac{1}{2}}}{1}$	$\frac{g_{00\frac{1}{2}}}{1}$				
	(000)			-		77 V	77 CT	/	
$\overline{\mathbb{Z}_2}$	weak	$\frac{39.199}{2^{001}}$			ification	$= \mathbb{Z}  \Lambda_{\mathrm{BS}}$	$=\mathbb{Z}_2$ SI	$=z_{2C}'$	
			$g_{00\frac{1}{2}}^{010}*$	$g_{00\frac{1}{2}}^{100}*$					
$\frac{0}{1}$	(022)	0	2 1	1					
	(011)					F77 3V	F77 CIT		
- F77	1	$\frac{41.215}{2^{001}}$	$\frac{Ab'a'2}{010}$		cation =	$\mathbb{Z}$ $X_{BS} =$	$\mathbb{Z}_2$ SI =	$z_{2,41.215}$	
$\mathbb{Z}_2$	weak		$g^{010}_{\frac{1}{2}0\frac{1}{2}}*$	$g_{\frac{1}{2}0\frac{1}{2}}^{100}*$					
0	(022)	0	2	2					
1	(011)	0	1	1					
	-	42.222	Fm'm'2		cation =	$\mathbb{Z}$ $\mathbb{X}_{BS} =$	$=\mathbb{Z}_2$ SI $=$	$= z_{2,42.222}$	
$\mathbb{Z}_2$	weak	2001	$m_{010}*$	$m_{100}*$					
0	(220)	0	0	0					
1	$(\overline{110})$	0	0	0					
		$\frac{45.23}{2^{001}}$		2 Classi	fication =	$=\mathbb{Z}$ $X_{BS}$	$=\mathbb{Z}_2$ SI	$=z_{2C}^{\prime}$	
$\mathbb{Z}_2$	weak	2001	$g_{00\frac{1}{2}}^{010}*$	$g_{00\frac{1}{2}}^{100}*$					
0	$(22\overline{2})$	0	2	2					
1	(111)	0	1	1					
	47.249	Pmmm		cation = 1	$\mathbb{Z}_M^6$ X <sub>I</sub>	$_{3S} = \mathbb{Z}_{2,2,2,4}$	$SI = z_2'$	$z_{P,1}, z_{2P,2}', z_{2P,2}$	$z'_{2P,3}, z'_{4P}$
$\mathbb{Z}_{2,2,2,4}$	weak	$2^{001}$	$2^{010}$	i	$2^{100}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$	
0000	(000)	0	0	0	0	$\overline{2}22\overline{2}$	$\bar{4}400$	$\overline{4}400$	
0000	(000)	0	0	0	0	4400	$\overline{2}22\overline{2}$	4400	
0000	(000)	0	0	0	0	4400	4400	$\overline{2}22\overline{2}$	
0000	(000)	0	0	0	0	4400	4400	4400	
0000	(000)	0	0	0	0	$\frac{2200}{2000}$	$\frac{\overline{2}2\overline{2}2}{\overline{2}200}$	$\frac{\overline{2}200}{\overline{2}200}$	
0000	(000)	0	0	0	0	$\overline{2}2\overline{2}2$	$\frac{\overline{2}200}{\overline{2}200}$	$\frac{\overline{2}200}{\overline{2}2\overline{2}2}$	
$\frac{0000}{0003}$	(000)	0	0	$\frac{0}{1}$	0	$\frac{\overline{2}200}{1\overline{1}00}$	$\frac{\overline{2}200}{1\overline{1}00}$	$\frac{2222}{1\overline{1}00}$	
$\frac{0003}{0002}$	(000)	0	0	0	0	$\frac{1100}{2\overline{2}00}$	$\frac{1100}{2\overline{2}00}$	$\frac{1100}{2\overline{2}00}$	
0002	(000)	0	0	1	0	$\frac{2200}{3\overline{3}00}$	$\frac{2200}{3\overline{3}00}$	$\frac{2200}{3\overline{3}00}$	
0010	(000)	0	0	0	0	$\frac{\overline{2}200}{2}$	$\frac{\overline{2}200}{2}$	1111	
0013	(000)	0	0	1	0	$\frac{2200}{1100}$	$\frac{2200}{1100}$	$001\overline{1}$	
0012	(000)	0	0	0	0	0000	0000	$1\overline{1}1\overline{1}$	
0011	(000)	0	0	1	0	$1\overline{1}00$	$1\overline{1}00$	$2\overline{2}1\overline{1}$	
0100	(000)	0	0	0	0	$\overline{2}200$	<u>1</u> 111 <u>1</u>	2200	
0103	(000)	0	0	1	0	$\overline{1}100$	$001\overline{1}$	$\overline{1}100$	
0102	(000)	0	0	0	0	0000	$1\overline{1}1\overline{1}$	0000	
0101	(000)	0	0	1	0	$1\overline{1}00$	$2\overline{2}1\overline{1}$	$1\overline{1}00$	
0110	(000)	0	0	0	0	$\overline{4}400$	$\overline{3}31\overline{1}$	$\overline{3}31\overline{1}$	
0113	(000)	0	0	1	0	3300	$\overline{2}21\overline{1}$	$\overline{2}21\overline{1}$	
0112	(000)	0	0	0	0	$\frac{\overline{2}200}{\overline{1}100}$	1111	1111	
0111	(000)	0	0	1	0	$\frac{1100}{1111}$	0011	0011	
1000	(000)	0	0	0	0	<u>1111</u>	$\frac{\overline{2}200}{\overline{1}100}$	<u>2</u> 200	
1003	(000)	0	0	1	0	$001\overline{1}$	1100	1100	
1002	(000)	0	0	0	0	$\frac{1\overline{1}1\overline{1}}{2\overline{2}1\overline{1}}$	$\frac{0000}{1\overline{1}00}$	$\frac{0000}{1\overline{1}00}$	
1010	(000)	0	0	0	0	$\frac{2211}{331\overline{1}}$	$\frac{1100}{4400}$	$\frac{1100}{331\overline{1}}$	
1010	(000)	0	0	1	0	$\frac{3311}{221\overline{1}}$	$\frac{4400}{3300}$	$\frac{3311}{2211}$	_
$\frac{1013}{1012}$	(000)	0	0	0	0	1111	$\frac{3300}{2200}$	$\frac{2211}{1111}$	
1014	(000)	U	U		<u> </u>	1111	2200	1111	

1011	(000)	0	0	1	0	$001\overline{1}$	1100	$001\overline{1}$	
1100	(000)	0	0	0	0	3311	$\frac{1100}{3311}$	4400	
1103	(000)	0	0	1	0	$\frac{\overline{2}21\overline{1}}{\overline{1}}$	$\frac{3311}{2211}$	3300	
1102	(000)	0	0	0	0	$\overline{1}11\overline{1}$	$\overline{1}11\overline{1}$	$\frac{1}{2}$ 200	
1101	(000)	0	0	1	0	$001\overline{1}$	$001\overline{1}$	1100	
1110	(000)	0	0	0	0	$\overline{5}51\overline{1}$	<u>5</u> 51 <u>1</u>	$\overline{5}51\overline{1}$	
1113	(000)	0	0	1	0	$\overline{4}41\overline{1}$	$\overline{4}41\overline{1}$	$\overline{4}41\overline{1}$	
1112	(000)	0	0	0	0	$\overline{3}31\overline{1}$	$\overline{3}31\overline{1}$	$\overline{3}31\overline{1}$	
1111	(000)	0	0	1	0	$\overline{2}21\overline{1}$	$\overline{2}21\overline{1}$	$\overline{2}21\overline{1}$	
	47.252	Pm'm'm	Classi	fication =	$\mathbb{Z}_M^2 \times \mathbb{Z}$	$X_{BS} =$	$\mathbb{Z}_{2,2,2}$ SI =	$=z_{2m,0}^+,z_{2r}^-$	$z_{2m,\pi}^{+}$
$\overline{\mathbb{Z}_{2,2,2}}$	weak	$2^{001}$	$2^{010}*$	i	2 <sup>100</sup> *	$Cm_{(2)}^{001}$		2110,0 - 21	10,0 - 2110, K
000	$(00\overline{2})$	0	0	0	0	$2\overline{402}$			
000	(002)	0	0	0	0	0202			
000	(000)	0	0	0	0	$002\overline{2}$			
000	(000)	0	0	0	0	$00\overline{2}2$			
001	(000)	0	1	1	1	$001\overline{1}$			
010	(001)	0	1	1	1	0101			
011	(001)	0	0	0	0	0110			
100	$(00\overline{1})$	0	0	0	0	$1\overline{2}0\overline{1}$			
101	$(00\overline{1})$	0	1	1	1	$1\overline{2}1\overline{2}$			
110	(000)	0	1	1	1	$1\overline{1}00$			
111	(000)	0	0	0	0	$1\overline{1}1\overline{1}$			
	47.2	$54 P_a mm$	m Cla	assification	$\mathbb{Z}^5_M$	$X_{BS} =$	$\mathbb{Z}_{2,2,4}$ 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	$2^{100}$	$\mathbb{Z}_{2,2,4}  \text{SI} = \\ Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$
000	(000)	0	0	0	0	0	$\frac{1}{4400}$	$\overline{2}22\overline{2}$	4400
000	(000)	0	0	0	0	0	$\overline{4}400$	$\bar{4}400$	$\overline{2}22\overline{2}$
000	(000)	0	0	0	0	0	$4\overline{4}00$	$4\overline{4}00$	$4\overline{4}00$
000	(000)	0	0	0	0	0	$\overline{2}200$	$\overline{2}2\overline{2}2$	$\bar{2}200$
000	(000)	0	0	0	0	0	0000	$\bar{2}200$	$\overline{2}200$
000	(000)	0	0	0	0	0	$\overline{2}200$	$\bar{2}200$	$\overline{2}2\overline{2}2$
003	(000)	1	0	0	1	0	$1\overline{1}00$	$1\overline{1}00$	$1\overline{1}00$
002	(000)	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}00$	$2\overline{2}00$
001	(000)	1	0	0	1	0	$3\overline{3}00$	$3\overline{3}00$	$3\overline{3}00$
010	(000)	0	0	0	0	0	$\overline{2}200$	$\bar{2}200$	$\overline{1}11\overline{1}$
013	(000)	1	0	0	1	0	$\overline{1}100$	$\bar{1}100$	$001\overline{1}$
012	(000)	0	0	0	0	0	0000	0000	$1\overline{1}1\overline{1}$
011	(000)	1	0	0	1	0	$1\overline{1}00$	$1\overline{1}00$	$2\overline{2}1\overline{1}$
100	(000)	0	0	0	0	0	$\overline{2}200$	$\overline{1}11\overline{1}$	$\bar{2}200$
103	(000)	1	0	0	1	0	$\overline{1}100$	$001\overline{1}$	$\overline{1}100$
102	(000)	0	0	0	0	0	0000	$1\overline{1}1\overline{1}$	0000
101	(000)	1	0	0	1	0	$1\overline{1}00$	$2\overline{2}1\overline{1}$	$1\overline{1}00$
110	(000)	0	0	0	0	0	<u>4400</u>	3311	3311
113	(000)	1	0	0	1	0	3300	$\overline{2}21\overline{1}$	<u>2</u> 21 <u>1</u>
112	(000)	0	0	0	0	0	$\frac{\overline{2}200}{\overline{2}}$	1111	<u>1</u> 111 <u>1</u>
111	(000)	1	0	0	1	0	1100	$001\overline{1}$	$001\overline{1}$
			mmm	Classifica	$tion = \mathbb{Z}$	$X_{BS}$	$S = \mathbb{Z}_{2,4}$ SI		IP
$\mathbb{Z}_{2,4}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}$	$2^{010}$	i	$2^{100}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{100}$
00	(000)	0	0	0	0	0	$\overline{4}400$	$\overline{2}22\overline{2}$	$\overline{4}400$
00	(000)	0	0	0	0	0	$4\overline{4}00$	$4\overline{4}00$	$4\overline{4}00$
00	(000)	0	0	0	0	0	0000	$\overline{2}200$	$\overline{2}200$
00	(000)	0	0	0	0	0	$\bar{2}200$	$\overline{2}2\overline{2}2$	$\overline{2}200$
00	(000)	0	0	0	0	0	$\bar{2}200$	$\overline{2}200$	0000
03	(000)	1	0	0	1	0	$1\overline{1}00$	$1\overline{1}00$	$1\overline{1}00$
02	(000)	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}00$	$2\overline{2}00$
01	(000)	1	0	0	1	0	$3\overline{3}00$	$3\overline{3}00$	3300
10	(000)	0	0	0	0	0	$\overline{2}200$	<u>1</u> 111 <u>1</u>	$\overline{2}200$
13	(000)	1	0	0	1	0	$\overline{1}100$	$001\overline{1}$	$\overline{1}100$
12	(000)	0	0	0	0	0	0000	$1\overline{1}1\overline{1}$	0000

11	(000)	1	0	0	1	0	$1\overline{1}00$	$2\overline{2}1\overline{1}$	$\overline{1100}$
		47.256	$P_Immm$	Classi	fication =	$=\mathbb{Z}_M^3$ X	$X_{\mathrm{BS}} = \mathbb{Z}_4$	$SI = z'_{4P}$	
$\mathbb{Z}_4$	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	$4\overline{4}00$	$4\overline{4}00$	$4\overline{400}$
0	(000)	0	0	0	0	0	0000	$\overline{2}200$	$\overline{2}200$
0	(000)	0	0	0	0	0	$\overline{2}200$	0000	$\overline{2}200$
0	(000)	0	0	0	0	0	$\bar{2}200$	$\bar{2}200$	0000
3	(000)	1	0	0	1	0	$1\overline{1}00$	$1\overline{1}00$	1100
2	(000)	0	0	0	0	0	2200	$2\overline{2}00$	$\frac{2\overline{2}00}{\overline{2}}$
1	(000)	1	0	0	1	0	$3\overline{3}00$	3300	3300
		48.257			ication =	$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{B}}$	$S = \mathbb{Z}_2$ S	$\mathrm{SI}=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}$	i	$2^{100}_{0\frac{1}{2}\frac{1}{2}}$				
0	(000)	0	0	0	0				
1	(000)	0	0	1	0				
					ation = 2	$\mathbb{Z}  imes \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}*$	i	$2^{100}_{0\frac{1}{2}\frac{1}{2}}*$				
0	(000)	0	0	0	0				
0	(002)	0	1	0	1				
1	(000)	0	1	1	1				
		48.262	$P_c nnn$			$=\mathbb{Z}_2$ $X_B$	$_{\mathrm{SS}}=\mathbb{Z}_{2}$ S	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}*$	i	$2_{0\frac{1}{2}0}^{100}*$			
0	(000)	0	0	0	0	0			
1	(000)	1	0	1	1	1			
		48.263	$P_C nnn$		fication =		$_{\mathrm{BS}}=\mathbb{Z}_{2}$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$			
0	(000)	0	0	0	0	0			
1	(000)	1	0	0	0	0			
		48.264		Classi	fication =		$_{ m BS}=\mathbb{Z}_2$ S	$\mathrm{SI}=z_{2P}'$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{100}_{0\frac{1}{2}\frac{1}{2}}$			
0	(000)	0	0	0	0	0			
1		0							
	(000)	1	0	0	0	0			
	(000)	1 49.265	0 Pccm	0	cation =	$\mathbb{Z}_M$ $X_{\mathbb{R}}$	$_{\mathrm{BS}}=\mathbb{Z}_{2}$	$\mathrm{SI}=z_{2P}^{\prime}$	
$\frac{1}{\mathbb{Z}_2}$	(000) weak	1	0 Pccm	0			$\mathbb{Z}_3 = \mathbb{Z}_2$	$\mathrm{SI}=z_{2P}^{\prime}$	
	,	1 49.265	0	0 Classifi	cation =	$\mathbb{Z}_M$ $X_{\mathbb{R}}$	$\mathbb{Z}_3 = \mathbb{Z}_2$	$\mathrm{SI}=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$   \begin{array}{r}     1 \\     \hline     49.265 \\     \hline     2^{001}   \end{array} $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2^{010}_{00\frac{1}{2}} \end{array}$	0 Classifi	$ \frac{\text{cation} = \\ 2_{00\frac{1}{2}}^{100} $	$ \begin{array}{c c}                                    $	$\mathbb{Z}_3 = \mathbb{Z}_2$	$\mathrm{SI}=z_{2P}^{\prime}$	
$\frac{\mathbb{Z}_2}{0}$	weak (000)	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ Pccm \\ 2_{00\frac{1}{2}}^{010} \\ 0 \end{array} $	0 Classifi $i$ $0$	$ \frac{\text{cation} = 2_{00\frac{1}{2}}^{100}}{0} $	$ \frac{\mathbb{Z}_{M} \times_{E}}{Cm_{(2)}^{001}} $ $ 2\overline{2}00 $	$\mathbb{Z}_3 = \mathbb{Z}_2$	$\mathrm{SI}=z_{2P}^{\prime}$	
$ \begin{array}{c}                                     $	weak (000) (000) (000)	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c's \end{array} $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2^{010}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \end{array}$	0 Classifi i 0 0	$\begin{array}{c} \text{cation} = \\ 2_{00\frac{1}{2}}^{100} \\ 0 \\ 0 \\ 0 \\ = \mathbb{Z}_M \times \end{array}$	$egin{array}{c c} \mathbb{Z}_M & X_{ m B} \\ \hline Cm_{(2)}^{001} \\ \hline 2ar{2}00 \\ \hline 2ar{2}00 \\ \hline 1ar{1}00 \\ \hline \mathbb{Z} & X_{ m BS} \\ \hline \end{array}$			$^{+}_{2m.\pi}$
$ \begin{array}{c}                                     $	weak (000) (000) (000)	1 49.265 2 <sup>001</sup> 0 0	$ \begin{array}{c c} \hline  Pccm \\ 2^{010}_{00\frac{1}{2}} \\ \hline  0 \\ 0 \\ \hline  0 \end{array} $	0 Classifi i 0 0	$\begin{array}{c} \text{cation} = \\ 2_{00\frac{1}{2}}^{100} \\ 0 \\ 0 \\ 0 \\ = \mathbb{Z}_M \times \end{array}$	$egin{array}{c c} \mathbb{Z}_M & X_{ m B} \\ \hline Cm_{(2)}^{001} \\ \hline 2ar{2}00 \\ \hline 2ar{2}00 \\ \hline 1ar{1}00 \\ \hline \mathbb{Z} & X_{ m BS} \\ \hline \end{array}$		$\mathrm{SI}=z_{2P}^{\prime}$ $\mathrm{SI}=z_{2m,0}^{+},z_{2m}^{+}$	$_{2m,\pi}^{+}$
$ \begin{array}{c c}  & \mathbb{Z}_2 \\ \hline 0 \\ 0 \\ 1 \end{array} $	weak (000) (000) (000) 49.	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c's \end{array} $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2^{010}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ \text{Classifi} \\ i \\ 0 \\ 0 \\ 1 \\ \text{ification} \end{array}$	$ \begin{array}{r} \text{cation} = \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} \mathbb{Z}_{M} & X_{E} \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \end{array} $			$_{2m,\pi}^{+}$
$ \begin{array}{c c} \mathbb{Z}_2 \\ \hline 0 \\ 0 \\ 1 \end{array} $ $ \mathbb{Z}_{2,2} $	weak   (000)   (000)   (000)   49.   weak	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c' \\ 2^{001} \end{array} $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2^{010}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline m \text{ Class:} \\ 2^{010}_{00\frac{1}{2}} * \end{array}$	$0 \\ Classifi \\ i \\ 0 \\ 0 \\ 1 \\ ification \\ i$	$ \begin{array}{c} \text{cation} = \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline = \mathbb{Z}_M \times \\ 2^{100}_{00\frac{1}{2}} * \end{array} $	$\begin{array}{c c} \mathbb{Z}_{M} & \mathbf{X}_{\mathrm{E}} \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \mathbb{Z} & \mathbf{X}_{\mathrm{BS}} \\ \hline Cm_{(2)}^{001} \\ \end{array}$			$_{2m,\pi}^{+}$
	weak   (000)   (000)   (000)   49.   weak   (000)   (004)   (000)   (004)   (000)	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c' \\ 2^{001} \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ \hline Pccm \\ 2_{00\frac{1}{2}}^{010} \\ 0 \\ 0 \\ \hline m Classi \\ 2_{00\frac{1}{2}}^{010} * \\ 0 \end{array} $	0 Classifi $i$ $0$ $0$ $1$ iffication $i$ $0$	$ \begin{array}{c} \text{cation} = \\ 2_{00\frac{1}{2}}^{100} \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ = \mathbb{Z}_M \times \\ 2_{00\frac{1}{2}}^{100} \times \\ 0 \end{array} $	$\begin{array}{c} \mathbb{Z}_{M} & X_{\rm E} \\ Cm_{(2)}^{(01)} \\ \hline 2\bar{2}00 \\ \hline 2\bar{2}00 \\ \hline 1\bar{1}00 \\ \hline \mathbb{Z} & X_{\rm BS} \\ \hline Cm_{(2)}^{(01)} \\ \hline 2\bar{2}00 \\ \hline 4022 \\ \hline 2\bar{2}00 \\ \hline \end{array}$			$_{2m,\pi}^{+}$
	weak (000) (000) 49. weak (000) (004) (000) (002)	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 2^{69} Pc'c' \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2_{00\frac{1}{2}}^{010} \\ 0 \\ 0 \\ \hline 0 \\ \hline m \text{ Class:} \\ 2_{00\frac{1}{2}}^{010} * \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ \hline Classifi \\ i \\ 0 \\ 0 \\ 1 \\ \hline ification \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \end{array}$	$ \begin{array}{c} \text{cation} &= \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline = \mathbb{Z}_M \times \\ 2^{100}_{00\frac{1}{2}} \times \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c c} \mathbb{Z}_{M} & X_{\mathrm{E}} \\ \hline Cm_{(2)}^{(01)} \\ \hline 2\bar{2}00 \\ \hline 2\bar{2}00 \\ \hline 1\bar{1}00 \\ \hline \mathbb{Z} & X_{\mathrm{BS}} \\ \hline Cm_{(2)}^{(01)} \\ \hline 2\bar{2}00 \\ \hline 4022 \\ \hline 2\bar{2}00 \\ \hline 2011 \\ \end{array}$			$+$ $2m,\pi$
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 00 \\ 01 \\ 10 \end{array} $	weak (000) (000) 49. weak (000) (004) (000) (002) (000)	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ \hline 269 Pc'c'_{2} \\ \hline 2^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2^{010}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline m  \text{Class:} \\ 2^{010}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ \end{array}$	Classifi $i$ $0$ $0$ $1$ iffication $i$ $0$ $0$ $0$ $1$ $1$ $1$	$ \begin{array}{c} \text{cation} = \\                                   $	$\begin{array}{c c} \mathbb{Z}_{M} & X_{\mathrm{E}} \\ \hline Cm_{(2)}^{(01)} \\ \hline 2\bar{2}00 \\ \hline 2\bar{2}00 \\ \hline 1\bar{1}00 \\ \hline \mathbb{Z} & X_{\mathrm{BS}} \\ \hline Cm_{(2)}^{(01)} \\ \hline 2\bar{2}00 \\ \hline 4022 \\ \hline 2\bar{2}00 \\ \hline 2011 \\ \hline 1\bar{1}00 \\ \hline \end{array}$			$^{+}_{2m,\pi}$
	weak (000) (000) (000) 49. weak (000) (004) (000) (002) (000) (002)	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c' \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2^{010}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline m  \text{Class:} \\ 2^{010}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ \end{array}$	Classifi $i$ $0$ $0$ $1$ iffication $i$ $0$ $0$ $1$ $1$ $0$ $0$ $0$ $1$ $1$ $0$	$ \begin{array}{c} \text{cation} = \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ = \mathbb{Z}_M \times \\ 2^{100}_{00\frac{1}{2}} \times \\ 0 \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c c} \mathbb{Z}_{M} & \mathbf{X}_{\mathbf{E}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \mathbb{Z} & \mathbf{X}_{\mathbf{BS}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \hline \end{array}$	$=\mathbb{Z}_{2,2}$ S	$\mathrm{SI}=z_{2m,0}^{+},z_{2m,0}^{+}$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 00 \\ 01 \\ 10 \\ 11 \end{array} $	weak (000) (000) (000) (000) (004) (000) (002) (000) (002) (002) (002) (002)	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c' \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 9.270 Pc'c' \end{array} $	$\begin{array}{c c} 0 \\ \hline Pccm \\ 2_{00\frac{1}{2}}^{010} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline m & Class: \\ 2_{00\frac{1}{2}}^{010} * \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ 1 \\ \hline 1 \\ \hline cm' & Class \\ \end{array}$	Classifi $i$ $0$ $0$ $1$ iffication $i$ $0$ $0$ $1$ $1$ $0$ $0$ $0$ $1$ $1$ $0$ ssification	$ \begin{array}{c} \text{cation} = \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c c} \mathbb{Z}_{M} & \mathbf{X}_{\mathbf{E}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \mathbb{Z} & \mathbf{X}_{\mathbf{BS}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \hline \end{array}$	$=\mathbb{Z}_{2,2}$ S		
	weak (000) (000) (000)  49. weak (000) (004) (000) (002) (000) (002)  4 weak	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c' \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2_{00\frac{1}{2}}^{010} \\ \hline 0 \\ \hline 0 \\ \hline m & Classi \\ \hline 2_{00\frac{1}{2}}^{010} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 1 \\ \hline cm' & Clas \\ \hline 2_{00\frac{1}{2}}^{010} \\ \hline cm' & Clas \\ \hline \end{array}$	Classifi $i$ $0$ $0$ $1$ iffication $i$ $0$ $0$ $1$ $1$ $0$ essification $i$	$\begin{array}{c} \text{cation} = \\ 2_{00\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_{M} \times \\ 2_{00\frac{1}{2}}^{100} \times \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c c} \mathbb{Z}_{M} & \mathbf{X}_{\mathbf{E}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \mathbb{Z} & \mathbf{X}_{\mathbf{BS}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \hline \end{array}$	$=\mathbb{Z}_{2,2}$ S	$\mathrm{SI}=z_{2m,0}^{+},z_{2m,0}^{+}$	
	weak (000) (000) (000)  49. weak (000) (004) (000) (002) (000) (002)  weak (000)	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c' \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 9.270 Pc' \\ 2^{001} * $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2_{00\frac{1}{2}}^{010} \\ \hline 0 \\ \hline 0 \\ \hline m \text{ Class} \\ 2_{00\frac{1}{2}}^{010} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 1 \\ \hline cm' \text{ Clas} \\ 2_{00\frac{1}{2}}^{010} \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	Classifi $i$ $0$ $0$ $1$ iffication $i$ $0$ $0$ $1$ $1$ $0$ ssification $i$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \text{cation} = \\ 2_{00\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \hline \\ 0 \\ \hline \\ 0 \\ \hline \\ 0 \\ 0 \\ 0$	$\begin{array}{c c} \mathbb{Z}_{M} & \mathbf{X}_{\mathbf{E}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \mathbb{Z} & \mathbf{X}_{\mathbf{BS}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \hline \end{array}$	$=\mathbb{Z}_{2,2}$ S	$\mathrm{SI}=z_{2m,0}^{+},z_{2m,0}^{+}$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \\ 10 \\ 11 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 00 \end{array} $	weak (000) (000) (000)  49. weak (000) (004) (002) (002) (002) weak (0\overline{2}0) (000)	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c' \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 9.270 Pc' \\ 2^{001} * $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2^{010}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline m  \text{Class}; \\ 2^{010}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 1 \\ \hline cm'  \text{Class}; \\ 2^{010}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	Classifi $i$ $0$ $0$ $1$ iffication $i$ $0$ $0$ $1$ $1$ $0$ essification $i$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \text{cation} = \\ \frac{2^{100}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ 0 \\ = \mathbb{Z}_M \times \\ \frac{2^{100}_{00\frac{1}{2}} \times }{0} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ \text{on} = \mathbb{Z} \times \\ \frac{2^{100}_{00\frac{1}{2}} \times }{0} \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c c} \mathbb{Z}_{M} & \mathbf{X}_{\mathbf{E}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \mathbb{Z} & \mathbf{X}_{\mathbf{BS}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \hline \end{array}$	$=\mathbb{Z}_{2,2}$ S	$\mathrm{SI}=z_{2m,0}^{+},z_{2m,0}^{+}$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \\ 10 \\ 11 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \end{array} $	weak   (000)   (000)   (000)   (000)   (000)   (001)   (002)   (002)   (002)   (002)   (002)   (002)   (000)	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 269 Pc'c' \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 9.270 Pc' \\ 2^{001} * $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2^{010}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline m  \text{Class:} \\ 2^{010}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ \hline 1 \\ \hline cm'  \text{Class:} \\ 2^{010}_{00\frac{1}{2}} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline \end{array}$	Classifi $i$ $0$ $0$ $1$ iffication $i$ $0$ $0$ $0$ $1$ $1$ $0$ essification $i$ $0$ $0$ $1$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \text{cation} = \\ 2_{00\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_{M} \times \\ 2_{00\frac{1}{2}}^{100} \times \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$	$\begin{array}{c c} \mathbb{Z}_{M} & \mathbf{X}_{\mathbf{E}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \mathbb{Z} & \mathbf{X}_{\mathbf{BS}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \hline \end{array}$	$=\mathbb{Z}_{2,2}$ S	$\mathrm{SI}=z_{2m,0}^{+},z_{2m,0}^{+}$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \\ 11 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \\ 10 \\ \end{array} $	$\begin{array}{c} \text{weak} \\ (000) \\ (000) \\ (000) \\ (000) \\ \end{array}$	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c' \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 2^{001} * $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2_{001\frac{1}{2}}^{010} \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline m & Class: \\ 2_{001\frac{1}{2}}^{010} * \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline 1 \\ \hline cm' & Class: \\ 2_{001\frac{1}{2}}^{010} \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\$	Classifi $i$ $0$ $0$ $1$ iffication $i$ $0$ $0$ $1$ $1$ $0$ essification $i$ $0$ $0$ $1$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \text{cation} = \\ \frac{2^{100}}{000\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_M \times \\ \frac{2^{100}}{000\frac{1}{2}} \times \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$	$\begin{array}{c c} \mathbb{Z}_{M} & \mathbf{X}_{\mathbf{E}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \mathbb{Z} & \mathbf{X}_{\mathbf{BS}} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \hline \end{array}$	$=\mathbb{Z}_{2,2}$ S	$\mathrm{SI}=z_{2m,0}^{+},z_{2m,0}^{+}$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \\ 10 \\ 11 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \end{array} $	weak   (000)   (000)   (000)   (000)   (000)   (001)   (002)   (002)   (002)   (002)   (002)   (002)   (000)	$ \begin{array}{c} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c' \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ \hline Pccm \\ 2^{010}_{00\frac{1}{2}} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline m  \text{Class:} \\ 2^{010}_{00\frac{1}{2}} * \\ \hline 0 \\ 0 \\ 0 \\ \hline 1 \\ \hline 1 \\ \hline cm'  \text{Class} \\ 2^{010}_{00\frac{1}{2}} \\ \hline 0 \\ 0 \\$	Classifi $i$ $0$ $0$ $1$ iffication $i$ $0$ $0$ $1$ $1$ $0$ essification $i$ $0$ $0$ $1$ $0$ $0$ $0$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \text{cation} = \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline = \mathbb{Z}_{M} \times \\ 2^{100}_{00\frac{1}{2}} \times \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ \hline 0 \\ 0 = \mathbb{Z} \times \\ 2^{100}_{00\frac{1}{2}} \times \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1$	$\begin{array}{c c} \mathbb{Z}_M & X_{\rm E} \\ \hline Cm^{001}_{(2)} \\ \hline 2\bar{2}00 \\ \hline 2\bar{2}00 \\ \hline 1\bar{1}00 \\ \hline \mathbb{Z} & X_{\rm BS} \\ \hline Cm^{001}_{(2)} \\ \hline 2\bar{2}00 \\ \hline 4022 \\ \hline 2\bar{2}00 \\ \hline 2011 \\ \hline 1\bar{1}00 \\ \hline 3\bar{1}11 \\ \hline \mathbb{Z}_2 & X_{\rm BS} \\ \hline \end{array}$	$=\mathbb{Z}_{2,2}$ S $s=\mathbb{Z}_{2,2}$	$SI = z_{2m,0}^+, z_{2m,0}^+$ $SI = z_{2P,2}, z_{2m,0}^+$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \\ 11 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \\ 11 \\ 11 \\ \hline \end{array} $	weak (000) (000) (000)  49.  weak (000) (004) (000) (002) (000) (002)  weak (020) (000) (000) (010) (010)	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c' \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ \hline Pccm \\ 2_{00}^{010} \frac{1}{2} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline m & Classi \\ 2_{00}^{110} * * \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\$	Classifi $i$ $0$ $0$ $1$ iffication $i$ $0$ $0$ $1$ $1$ $0$ ssification $i$ $0$ $0$ $1$ $1$ $0$ Classifi $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \text{cation} = \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline = \mathbb{Z}_{M} \times \\ 2^{100}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 1 \\ \text{on} = \mathbb{Z} \times \\ 2^{100}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline 1 \\ \text{on} = \mathbb{Z} \times \\ 1 \\ \text{odd} \\ 1 \\ $	$\begin{array}{c c} \mathbb{Z}_{M} & X_{E} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \mathbb{Z} & X_{BS} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \hline \mathbb{Z}_{2} & X_{BS} \\ \hline \end{array}$	$=\mathbb{Z}_{2,2}$ S $g=\mathbb{Z}_{2,2}$ $g=\mathbb$	$SI = z_{2m,0}^+, z$ $SI = z_{2P,2}, z$ $SI = z_{2P}'$	
	weak (000) (000) (000)  49. weak (000) (004) (002) (000) (002) (000) (002) (000) (000) (000) (010) (010) weak	$ \begin{array}{r} 1\\ 49.265\\ 2^{001}\\ 0\\ 0\\ 0\\ 269 Pc'c'\\ 2^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 9.270 Pc'\\ 2^{001}*\\ 0\\ 0\\ 1\\ 0\\ 1\\ 49.272\\ \{1 \frac{1}{2}00\}*\\ \end{array} $	$\begin{array}{c} 0 \\ \hline Pccm \\ 2_{00\frac{1}{2}}^{010} \\ \hline 0 \\ \hline 0 \\ \hline m & Class \\ \hline 2_{00\frac{1}{2}}^{010} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 1 \\ \hline cm' & Clas \\ \hline 2_{00\frac{1}{2}}^{010} * \\ \hline 0 \\ \hline \hline P_accm \\ \hline 2^{001} \end{array}$	$\begin{array}{c} 0 \\ \hline Classifi \\ i \\ 0 \\ 0 \\ 1 \\ \hline ification \\ i \\ 0 \\ 0 \\ 1 \\ 0 \\ \hline 0 \\ ssificatio \\ i \\ 0 \\ 0 \\ 1 \\ 0 \\ \hline 1 \\ Classifi \\ 2_{00\frac{1}{2}}^{010} \\ \hline \end{array}$	$     \begin{array}{c}       \text{cation} &= \\                                   $	$\begin{array}{c c} \mathbb{Z}_{M} & X_{E} \\ \hline Cm^{(0)}_{(2)} \\ \hline 2\bar{2}00 \\ \hline 2\bar{2}00 \\ \hline 1\bar{1}00 \\ \hline \mathbb{Z} & X_{BS} \\ \hline Cm^{(0)}_{(2)} \\ \hline 2\bar{2}00 \\ \hline 4022 \\ \hline 2\bar{2}00 \\ \hline 2011 \\ \hline 1\bar{1}00 \\ \hline 3\bar{1}11 \\ \hline \mathbb{Z}_{2} & X_{BS} \\ \hline \end{array}$	$=\mathbb{Z}_{2,2}$ S $s=\mathbb{Z}_{2,2}$	$SI = z_{2m,0}^+, z$ $SI = z_{2P,2}, z$ $SI = z_{2P}'$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \\ 11 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \\ 11 \\ 11 \\ \hline \end{array} $	weak (000) (000) (000)  49.  weak (000) (004) (000) (002) (000) (002)  weak (020) (000) (000) (010) (010)	$ \begin{array}{r} 1 \\ 49.265 \\ 2^{001} \\ 0 \\ 0 \\ 269 Pc'c' \\ 2^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ \hline Pccm \\ 2_{00}^{010} \frac{1}{2} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline m & Classi \\ 2_{00}^{110} * * \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\$	Classifi $i$ $0$ $0$ $1$ iffication $i$ $0$ $0$ $1$ $1$ $0$ ssification $i$ $0$ $0$ $1$ $1$ $0$ Classifi $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \text{cation} = \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline = \mathbb{Z}_{M} \times \\ 2^{100}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 1 \\ \text{on} = \mathbb{Z} \times \\ 2^{100}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline 1 \\ \text{on} = \mathbb{Z} \times \\ 1 \\ \text{odd} \\ 1 \\ $	$\begin{array}{c c} \mathbb{Z}_{M} & X_{E} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \mathbb{Z} & X_{BS} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \hline \mathbb{Z}_{2} & X_{BS} \\ \hline \end{array}$	$=\mathbb{Z}_{2,2}$ S $g=\mathbb{Z}_{2,2}$ $g=\mathbb$	$SI = z_{2m,0}^+, z$ $SI = z_{2P,2}, z$ $SI = z_{2P}'$	

1	(000)	1	0	0	1	0	$1\overline{1}00$		
		49.273	$P_{c}ccm$	Classi	fication =	$\mathbb{Z}_M$ $\Sigma$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ S	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$2^{001}$	$2^{010}*$	i	2 <sup>100</sup> *			
0	(000)	0	0	0	0	0	$2\overline{200}$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	0	1	1	1	$1\overline{1}00$		
		49.274	$P_Bccm$	Classi	fication =	- 7 <sub>M</sub>	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{OD}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$\frac{2^{010}_{\frac{1}{2}00}*}{2^{00}_{\frac{1}{2}00}}$	$2^{100}_{\frac{1}{2}00}*$	i i	$\frac{2001}{2001}$	$Cm_{(2)}^{001}$	51 — ≈2P	
							$\frac{2\overline{200}}{200}$		
0	(000)	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$		
$\frac{0}{1}$	(000)	$\frac{0}{1}$	$\frac{0}{1}$	1	1	0	$\frac{2200}{1\overline{1}00}$		
	(000)								
		49.275	$P_{C}ccm$		fication =	$\mathbb{Z}_M$ .	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	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	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	0	0	1	0	$1\overline{1}00$		
		49.276	$P_Iccm$	Classi	fication =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$ S	$SI = z'_{2D}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}$	$2_{00\frac{1}{2}}^{010}$	i	$2_{00\frac{1}{2}}^{100}$	$Cm_{(2)}^{001}$	- 21	
0	(000)	0	0	$\frac{-00\frac{1}{2}}{0}$	0	$\frac{-00\frac{1}{2}}{0}$	$\frac{2\overline{200}}{2\overline{200}}$		
$\frac{0}{0}$	(000)	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$		
$\frac{0}{1}$	(000)	1	0	0	1	0	$\frac{2200}{1\overline{1}00}$		
	(000)							. /	
		50.277	$\frac{7 Pban}{2_{100}^{010}}$		fication =	$\mathbb{Z}_2$ X	$\mathbb{E}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{S}$	$1 = z_{2P}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2\frac{1}{2}00$	i	$2^{100}_{0\frac{1}{2}0}$				
0	(000)	0	0	0	0				
1	(000)	0	0	1	0				
	5	$0.281 \ Pb'$		ssification	$on = \mathbb{Z} \times \mathbb{I}$	$\mathbb{Z}_2$ X <sub>E</sub>	$\mathbb{Z}_{\mathrm{SS}} = \mathbb{Z}_{2,2}$ S	$SI = z_{2P,3}, z$	$z_{2P}^{\prime}$
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}*$	i	$2^{100}_{0\frac{1}{2}0}*$				
00	$(00\overline{2})$	0	0	0	0				
00	(000)	0	0	0	0				
01	(000)	0	1	1	1				
10	$(00\overline{1})$	0	0	0	0				
11	$(00\overline{1})$	0	1	1	1				
		50.282	Pb'an'	Classific	cation = Z	$\mathbb{Z} \times \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$2^{010}_{\frac{1}{2}00}$	$\frac{i}{i}$	$\frac{2_{0\frac{1}{2}0}^{100}*}{2_{0\frac{1}{2}0}^{100}}$	- /	1165 22	21 ~2P	
0	(000)	$\frac{-\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{-\frac{1}{2}00}{0}$	0	$\frac{-0\frac{1}{2}0}{0}$				
0	(000)	1	0	0	1				
	\	1	0	1	1				
1	(000)			1		F77	r = 000 00	T /	
	1	50.284		Classi		= Z <sub>2</sub> X	$X_{\mathrm{BS}} = \mathbb{Z}_2$ S	$z_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}00\}*$	$2^{010}_{\frac{1}{2}00}$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$i_{rac{1}{2}00}*$	$2^{100}_{0\frac{1}{2}0}$			
0	(000)	0	0	0	0	0			
1	(000)	1	0	0	0	0			
		50.285		Classi	fication =	$\mathbb{Z}_2$ X	$X_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{S}_2$	$I = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}$	i	$2^{100}_{0\frac{1}{2}0}$			
0	(000)	0	$\frac{\frac{2}{2}}{0}$	$\frac{\frac{1}{2}00}{0}$	0	$\frac{0}{2}$			
1	(000)	1	0	0	1	0			
		50.286		Classi	ification -	= 7/2 X	$X_{\mathrm{BS}} = \mathbb{Z}_2$ S	$SI = z'_{ab}$	
$\overline{\mathbb{Z}_2}$	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$2_{0\frac{1}{2}0}^{100}$	$2^{010}_{\frac{1}{2}00}$	$\frac{i}{i}$	$\frac{2001}{2\frac{1}{2}\frac{1}{2}0}$	-DS — 22 F	~~ ~2P	
0	(000)	0	0	0	0	0			
	(000)	1	0	0	1	0		,	
		50.287		Classi		$= \mathbb{Z}_2 X$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ S	$\mathrm{d} = z_{2P}'$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2^{100}_{0\frac{1}{2}0}$			
0	(000)	0	0	0	0	0			
1	(000)	1	0	0	0	0			
		50.288	$P_Iban$	Classi	fication =	$\mathbb{Z}_2$ X	$X_{\mathrm{BS}} = \mathbb{Z}_2$ S	$I = z'_{2P}$	<u> </u>
								41	

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\overline{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}$	<i>i</i> 1 1 1 *	$2^{100}_{0\frac{1}{2}0}$			
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			1 289 Pn	ama Cl	assification	$n = \mathbb{Z}_{3}^3$	Xpc =	= Z <sub>2 2</sub> SI =	z <sup>+</sup> z <sup>+</sup>	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7/2 2			2010		2100	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$	$\sim 2m,0,\sim 2m,\pi$	
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	10	(000)	0	0	1	0	$1\overline{1}00$	$1\overline{1}00$		
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		51	.294 Pm	'm'a C	lassificati	on = $\mathbb{Z} \times$	$\mathbb{Z}_2$ $X_{F}$	$\mathbb{Z}_{\mathrm{SS}} = \mathbb{Z}_{2,2}$	$SI = z_{2P,3}, z'_{2P}$	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\mathbb{Z}_{2,2}$	weak		$2^{010}*$		$2^{100}_{100}*$		-,-	,-, 21	
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11	$(00\overline{1})$	0	1	1	1				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			51.295 I		Classific	ation = 2	$\mathbb{Z}_M  imes \mathbb{Z}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}00}*$	$2^{010}*$					<del>-</del> -	
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$\begin{array}{ c c c c c c c c c }\hline 1 & 0000 & 1 & 1 & 1 & 0 & 1\overline{1}00 \\ \hline & 51.296 & Pm'ma' & Classification & & & & Z_M \times \mathbb{Z} & X_{BS} & & Z_{2,2,2} & SI & & z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+ \\ \hline Z_{2,2,2} & weak & & 2_{2}^{001}* & & 2^{010} & & i & 2_{2}^{100}* & Cm^{(10)}_{(2)} \\ \hline 000 & (020) & 0 & 0 & 0 & 0 & 0 & 2402 \\ \hline 000 & (020) & 0 & 0 & 0 & 0 & 0 & 0202 \\ \hline 000 & (000) & 0 & 0 & 0 & 0 & 0022 \\ \hline 000 & (000) & 0 & 0 & 0 & 0 & 0022 \\ \hline 001 & (000) & 1 & 0 & 1 & 1 & 0011 \\ \hline 010 & (010) & 1 & 0 & 1 & 1 & 0101 \\ \hline 011 & (010) & 0 & 0 & 0 & 0 & 0 & 1201 \\ \hline 101 & (010) & 1 & 0 & 1 & 1 & 1100 \\ \hline 101 & (000) & 1 & 0 & 1 & 1 & 1100 \\ \hline 101 & (000) & 1 & 0 & 1 & 1 & 1100 \\ \hline 111 & (000) & 0 & 0 & 0 & 0 & 1111 \\ \hline \hline & & & & & & & & & & & & & & & & &$	0		1	0	0	1				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0	(000)	0	0	0	0	$2\overline{2}00$			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1	(000)	1	1	1	0	$1\overline{1}00$			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		51.296	Pm'ma'	Classifie	cation =	$\mathbb{Z}_M^2 \times \mathbb{Z}$	$X_{BS} =$	$\mathbb{Z}_{2,2,2}$ SI =	$=z_{2m,0}^+, z_{2m,0}^-, z_{2m,\pi}^+$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\overline{\mathbb{Z}_{2,2,2}}$	weak	$2^{001}_{100}*$			$2^{100}_{100}*$			210,0 210,0 210,1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$(0\bar{2}0)$		0	0					
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	000	(000)	0	0	0	0	$00\overline{2}2$			
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$\begin{array}{ c c c c c c c }\hline \mathbb{Z}_{2,2} & \text{weak} & \{1 \frac{1}{2}00\}* & 2\frac{100}{2} & 2\frac{010}{2} * & i_{\frac{1}{2}00}* & 2^{100}* & Cm\frac{100}{(2)} & Cm\frac{010}{(2)}\\\hline 00 & (000) & 0 & 0 & 0 & 0 & 0 & 2\overline{2}00 & 2\overline{2}00\\\hline 00 & (000) & 0 & 0 & 0 & 0 & 0 & \overline{2}200 & 002\overline{2}\\\hline 00 & (000) & 0 & 0 & 0 & 0 & 0 & 0 & 2\overline{2}00 & 0000\\\hline 00 & (000) & 0 & 0 & 0 & 0 & 0 & 0000 & 00\overline{2}2\\\hline 01 & (000) & 1 & 0 & 1 & 0 & 1 & 1100 & 001\overline{1}\\\hline 10 & (000) & 1 & 0 & 1 & 0 & 1 & 1\overline{1}00 & 1\overline{1}00\\\hline 11 & (000) & 0 & 0 & 0 & 0 & 0 & 0000 & 1\overline{1}1\overline{1}\\\hline & & & & & & & & & & & & & & & & & & &$		. ,						<i>F</i> 77 OT	+ +	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	77						$\Lambda_{\rm BS} = \frac{100}{2}$	$= \angle L_{2,2}$ S1 =	$= z_{2m,0}, z_{2m,\pi}$ $C_{m}^{010}$	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7/2	wool		2001	2 <sup>010</sup>		$\frac{\omega_M}{2^{100}}$	$\frac{E_{\rm BS} - \mathbb{Z}_2}{C_m^{100}}$	$\frac{1 - z_{2m,0}}{Cm^{010}}$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
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51.300 $P_cmma$ Classification = $\mathbb{Z}_M^3$ $X_{BS} = \mathbb{Z}_{2,2}$ $SI = z_{2m,0}^+, z_{2m,\pi}^+$		,								
		_ /								
$\mathbb{Z}_{2,2}$   weak $\{1 00\frac{1}{2}\}^*$ $\mathbb{Z}_{\frac{1}{2}00}$ $\mathbb{Z}$ $i$ $\mathbb{Z}_{\frac{1}{2}00}$ $\mathbb{Z}_{m(2)}$ $\mathbb{Z}_{m(2)}$	77 -			<u>1711а</u> С.	iassincati o <sup>010</sup>		Λ <sub>BS</sub> =	$- \angle 2,2$ S1 = $C_{\infty}^{-100}$	$\frac{z_{2m,0}, z_{2m,\pi}}{Cm^{010}}$	
	<u></u> <u>42,2</u>	weak	11 002}*	$\frac{2}{2}$ 00		$\iota$	$\frac{2}{2}$ 00	$Um_{(2)}$	$Cm_{(2)}$	

00	(000)	0	0	0	0	0	$2\overline{2}00$	2200	
00	(000)	0	0	0	0	0	2200	$002\overline{2}$	
00	(000)	0	0	0	0	0	$2\overline{2}00$	0000	
00	(000)	0	0	0	0	0	0000	$00\overline{2}2$	
01	(000)	1	0	0	1	0	1100	0011	
10	(000)	1	0	0	1	0	$1\overline{1}00$	$1\overline{1}00$	
11	(000)	0	0	0	0	0	0000	$1\overline{1}1\overline{1}$	
		51.301	$P_Amma$	Classif	ication =	$\mathbb{Z}_M^2$ X	$I_{BS} = \mathbb{Z}_2$ S	$I = z_{2m,0}^+$	
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$2^{100}_{\frac{1}{2}00}$	$2^{001}_{\frac{1}{2}00}$	i	$2^{010}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{2m,0}$	
0	(000)	0	$\frac{\frac{1}{2}00}{0}$	0	0	0	$2\overline{2}00$	$\frac{2\overline{200}}{2\overline{200}}$	
$\frac{0}{0}$	(000)	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$	0000	
$\frac{0}{0}$	(000)	0	0	0	0	0	0000	$\frac{0000}{2\overline{2}00}$	
$\frac{0}{1}$	(000)	1	0	0	1		$\frac{0000}{1\overline{1}00}$	$\frac{2200}{1\overline{1}00}$	
	/					0			
		1.302 $P_{B'}$	mma Cl		on = $\mathbb{Z}_M^3$	X <sub>BS</sub> :	$=\mathbb{Z}_{2,2}$ SI =	$=z_{2m,0}^+, z_{2m,2}^+$	π
$\mathbb{Z}_{2,2}$	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}*$	$2^{100}_{00\frac{1}{2}}*$	$i_{\frac{1}{2}0\frac{1}{2}}*$	$2^{001}_{\frac{1}{2}00}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$	
00	(000)	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}00$	
00	(000)	0	0	0	0	0	$\overline{2}200$	$002\overline{2}$	
00	(000)	0	0	0	0	0	$2\overline{2}00$	0000	
00	(000)	0	0	0	0	0	0000	$00\overline{2}2$	
01	(000)	1	1	1	0	0	1100	$001\overline{1}$	
10	(000)	1	1	1	0	0	$1\overline{1}00$	1100	
11	(000)	0	0	0	0	0	0000	$1\overline{1}1\overline{1}$	
		51.303	$P_Cmma$	Classif	ication =	$\mathbb{Z}^2$ . X	$X_{\mathrm{BS}} = \mathbb{Z}_2$ S	$I = z_{2m,0}^+$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$\frac{2^{001}_{\frac{1}{2}00}}{2^{00}}$			$\frac{Z_M}{2_{0\frac{1}{2}0}^{100}}*$	$\frac{Cm_{(2)}^{010}}{Cm_{(2)}^{010}}$	$\frac{1-z_{2m,0}}{Cm_{(2)}^{100}}$	
				$2^{010}_{\frac{1}{2}\frac{1}{2}0}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$				
0	(000)	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}00$	
0	(000)	0	0	0	0	0	$2\overline{200}$	0000	
0	(000)	0	0	0	0	0	0000	$2\overline{2}00$	
1	(000)	1	0	1	0	1	$1\overline{100}$	$1\overline{100}$	
		51.304	$P_{I}mma$	Classifi	cation =	$\mathbb{Z}_M^2$ X	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2$ S.	$I = z_{2m,0}^+$	
$\overline{\mathbb{Z}_2}$	weak		$P_{I}mma$ $2\frac{001}{\frac{1}{6}00}$	Classifi $2\frac{100}{\frac{1}{2}00}$			$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2$ S.	$I = z_{2m,0}^+$	
$\frac{\mathbb{Z}_2}{0}$	weak (000)	$   \begin{array}{r}     51.304 \\     \{1 \mid \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\     0   \end{array} $	$ \begin{array}{c} P_I mma \\ 2^{001}_{\frac{1}{2}00} \\ 0 \end{array} $	Classifi $2^{100}_{\frac{1}{2}00}$ 0	cation =	$\mathbb{Z}_M^2$ X	$Cm_{(2)}^{100}$	$I = z_{2m,0}^+  Cm_{(2)}^{010}$	
0	(000)	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \end{array}$	$2^{100}_{\frac{1}{2}00}$	$\frac{i}{0}$	$\frac{\mathbb{Z}_M^2}{2^{010}}X$	$\frac{C_{\rm BS} = \mathbb{Z}_2 \text{ S}}{Cm_{(2)}^{100}}$		
0	(000)	$   \begin{cases}     1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\     0 \\     0   \end{cases} $	$2^{001}_{\frac{1}{2}00}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}00} \\ 0 \end{array}$	$ \frac{\text{cation} = i}{0} \\ 0 $	$\frac{\mathbb{Z}_M^2}{2^{010}}X$	$E_{\rm BS} = \mathbb{Z}_2$ Since $Cm_{(2)}^{100}$ $\overline{2200}$ $\overline{2200}$	$I = z_{2m,0}^{+}$ $Cm_{(2)}^{010}$ $2\overline{200}$ $0000$	
0	(000)	$\frac{\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*}{0}$	$ \begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2^{100}_{\frac{1}{2}00} \\ 0 \\ 0 \end{array} $	$\frac{i}{0}$	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ \hline 2^{010} \\ \hline 0 \\ 0 \end{array} $	$\frac{C_{\rm BS} = \mathbb{Z}_2 \text{ S}}{Cm_{(2)}^{100}}$		
0 0 0	(000) (000) (000)	$ \begin{cases} 1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\ 0 \\ 0 \\ 0 \\ 1 \end{cases} $	$ \begin{array}{c} 2_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2^{100}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	cation =  i  0 0 0 1	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ \hline 0 \\ 0 \\ 0 \end{array} $	$ \frac{C_{\text{BS}} = \mathbb{Z}_2  \text{S}}{Cm_{(2)}^{100}} \\ \frac{2\overline{2}00}{2\overline{2}00} \\ 0000 \\ 1\overline{1}00 $	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &Cm_{(2)}^{010} \\ &2\overline{2}00 \\ &0000 \\ &2\overline{2}00 \\ &1\overline{1}00 \end{split}$	
0 0 0 1	(000) (000) (000) (000)	$ \begin{cases} 1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\ 0 \\ 0 \\ 0 \\ 1 \end{cases} $ 52.30	$ \begin{array}{c} 2_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 5  Pnna \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}00}^{100} \\ 0 \\ 0 \\ 0 \\ \text{Classif} \end{array} $	$ \begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \end{array} $	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ \hline 0 \\ 0 \\ 0 \end{array} $	$ \frac{\overline{C}_{BS} = \mathbb{Z}_2}{Cm_{(2)}^{100}} \\  = \frac{2\overline{2}00}{2\overline{2}00} \\  = 0000 $	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &Cm_{(2)}^{010} \\ &2\overline{2}00 \\ &0000 \\ &2\overline{2}00 \\ &1\overline{1}00 \end{split}$	
$ \begin{array}{c c} \hline 0 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \end{array} $	(000) (000) (000) (000) (weak	$ \begin{cases} 1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\ 0 \\ 0 \\ 0 \\ 1 \end{cases} $ $ 52.30 $ $ 2_{\frac{1}{2}00}^{001} $	$ \begin{array}{c} 2_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 5 \\ Pnna \\ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010} \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}00}^{100} \\ 0 \\ 0 \\ 0 \end{array} $ Classif	cation = $\frac{i}{0}$ 0 0 1 cation = $\frac{2^{100}}{0}$	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ \hline 0 \\ 0 \\ 0 \end{array} $	$ \frac{C_{\text{BS}} = \mathbb{Z}_2  \text{S}}{Cm_{(2)}^{100}} \\ \frac{2\overline{2}00}{2\overline{2}00} \\ 0000 \\ 1\overline{1}00 $	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &Cm_{(2)}^{010} \\ &2\overline{2}00 \\ &0000 \\ &2\overline{2}00 \\ &1\overline{1}00 \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	(000) (000) (000) (000) weak (000)	$ \begin{cases} 1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\ 0 \\ 0 \\ 1 \\ 52.30 \\ 2 \frac{1}{2} 00 \\ 0 \end{cases} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 5 \ Pnna \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ \end{array}$	$2^{100}_{\frac{1}{2}00}$ $0$ $0$ $0$ $Classif$ $i$	cation = $i$ 0 0 0 1 cation = $2_{0\frac{1}{2}\frac{1}{2}}^{100}$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ \hline 0 \\ 0 \\ 0 \end{array} $	$ \frac{C_{\text{BS}} = \mathbb{Z}_2  \text{S}}{Cm_{(2)}^{100}} \\ \frac{2\overline{2}00}{2\overline{2}00} \\ 0000 \\ 1\overline{1}00 $	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &Cm_{(2)}^{010} \\ &2\overline{2}00 \\ &0000 \\ &2\overline{2}00 \\ &1\overline{1}00 \end{split}$	
$ \begin{array}{c c} \hline 0 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \end{array} $	(000) (000) (000) (000) (weak	$ \begin{cases} 1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\ 0 \\ 0 \\ 1 \\ 52.30 \\ 2_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \end{cases} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 5 \begin{array}{c} Pnna \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} 2_{\frac{1}{2}00}^{100} \\ 0 \\ 0 \\ 0 \end{array} $ Classif $ \begin{array}{c} i \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{ication} = \\ 2\frac{100}{0\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ \hline 2^{010} \\ 0 \\ 0 \\ 0 \end{array} $	$ \frac{C_{\text{BS}} = \mathbb{Z}_2  \text{S}}{Cm_{(2)}^{100}} \\ \frac{2\overline{2}00}{2\overline{2}00} \\ 0000 \\ 1\overline{1}00 $ $ \text{BS} = \mathbb{Z}_2  \text{SI} $	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &Cm_{(2)}^{010} \\ &2\overline{2}00 \\ &\underline{0}000 \\ &2\overline{2}00 \\ &\underline{1}\overline{1}00 \\ &= z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	(000) (000) (000) (000) weak (000)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\0\\0\\1\\\hline 52.30\\2^{001}_{\frac{1}{2}00}\\0\\0\\\hline 52.310 \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 0 \\ 5 \\ \hline Pnna \\ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010} \\ 0 \\ \hline Pn'n'a \end{array} $	$2\frac{100}{\frac{1}{2}00}$ $0$ $0$ $0$ $Classif$ $i$ $0$ $1$ $Classific$	$\begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{ication} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = 2 \\ 0 \\ \text{ation} = 2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ \hline 2^{010} \\ 0 \\ 0 \\ 0 \end{array} $	$ \frac{C_{\text{BS}} = \mathbb{Z}_2  \text{S}}{Cm_{(2)}^{100}} \\ \frac{2\overline{2}00}{2\overline{2}00} \\ 0000 \\ 1\overline{1}00 $	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &Cm_{(2)}^{010} \\ &2\overline{2}00 \\ &\underline{0}000 \\ &2\overline{2}00 \\ &\underline{1}\overline{1}00 \\ &= z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	(000) (000) (000) (000) weak (000)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\0\\0\\1\\\hline 52.30\\2^{001}_{\frac{1}{2}00}\\0\\0\\\hline 52.310 \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 0 \\ 5 \\ \hline Pnna \\ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010} \\ 0 \\ \hline Pn'n'a \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}00}^{100} \\ 0 \\ 0 \\ 0 \end{array} $ Classif $ \begin{array}{c} i \\ 0 \\ 1 \end{array} $	$\begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{ication} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = 2 \\ 0 \\ \text{ation} = 2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ \hline 2^{010} \\ 0 \\ 0 \\ 0 \end{array} $	$ \frac{C_{\text{BS}} = \mathbb{Z}_2  \text{S}}{Cm_{(2)}^{100}} \\ \frac{2\overline{2}00}{2\overline{2}00} \\ 0000 \\ 1\overline{1}00 $ $ \text{BS} = \mathbb{Z}_2  \text{SI} $	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &Cm_{(2)}^{010} \\ &2\overline{2}00 \\ &\underline{0}000 \\ &2\overline{2}00 \\ &\underline{1}\overline{1}00 \\ &= z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	(000) (000) (000) (000) (000) weak (000) (000)	$ \begin{cases} 1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\ 0 \\ 0 \\ 1 \\ 52.30 \\ 2_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \end{cases} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 5 \begin{array}{c} Pnna \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$	$2\frac{100}{\frac{1}{2}00}$ $0$ $0$ $0$ $Classif$ $i$ $0$ $1$ $Classific$	$ \begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{ication} = \\ 2\frac{100}{0\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ \hline 2^{010} \\ 0 \\ 0 \\ 0 \end{array} $	$ \frac{C_{\text{BS}} = \mathbb{Z}_2  \text{S}}{Cm_{(2)}^{100}} \\ \frac{2\overline{2}00}{2\overline{2}00} \\ 0000 \\ 1\overline{1}00 $ $ \text{BS} = \mathbb{Z}_2  \text{SI} $	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &Cm_{(2)}^{010} \\ &2\overline{2}00 \\ &\underline{0}000 \\ &2\overline{2}00 \\ &\underline{1}\overline{1}00 \\ &= z_{2P}' \end{split}$	
$ \begin{array}{c c} 0\\ 0\\ 0\\ 1\\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2\\ 0\\ 1\\ \end{array} $ $ \mathbb{Z}_2$	(000) (000) (000) (000) (000) weak (000) (000)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\0\\0\\1\\1\\\hline 52.30\\2\frac{1}{2}00\\0\\0\\\hline 52.310\\2\frac{1}{2}00\\1\\\hline 2001\\2\frac{1}{2}00\\\end{array} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 5 \\ \hline Pnna \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ \hline Pn'n'a \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \end{array}$	$2\frac{100}{\frac{1}{2}00}$ $0$ $0$ $0$ $0$ $Classif$ $i$ $0$ $1$ $Classific$ $i$	cation =	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ \hline 2^{010} \\ 0 \\ 0 \\ 0 \end{array} $	$ \frac{C_{\text{BS}} = \mathbb{Z}_2  \text{S}}{Cm_{(2)}^{100}} \\ \frac{2\overline{2}00}{2\overline{2}00} \\ 0000 \\ 1\overline{1}00 $ $ \text{BS} = \mathbb{Z}_2  \text{SI} $	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &Cm_{(2)}^{010} \\ &2\overline{2}00 \\ &\underline{0}000 \\ &2\overline{2}00 \\ &\underline{1}\overline{1}00 \\ &= z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \\ \hline  & \\  & \\  & \\  & \\  & \\  & \\  & \\ $	(000) (000) (000) (000) (000) weak (000) (000) weak (000)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\0\\0\\1\\\end{array} $ $ \begin{array}{c} 0\\2^{001}\\\frac{1}{2}^{00}\\0\\0\\\end{array} $ $ \begin{array}{c} 0\\2^{001}\\\frac{1}{2}^{00}\\0\\\end{array} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 5 \\ Pnna \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline Pn'n'a \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \end{array}$	$2\frac{100}{\frac{1}{2}00}$ $0$ $0$ $0$ $Classif$ $i$ $0$ $1$ $Classific$ $i$ $0$	cation = $\frac{i}{0}$ 0 0 1 cation = $\frac{2^{100}}{0 \frac{1}{2} \frac{1}{2}}$ 0 ation = $\frac{2}{2^{100}}$ 0	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ \hline 2^{010} \\ 0 \\ 0 \\ 0 \end{array} $	$ \frac{C_{\text{BS}} = \mathbb{Z}_2  \text{S}}{Cm_{(2)}^{100}} \\ \frac{2\overline{2}00}{2\overline{2}00} \\ 0000 \\ 1\overline{1}00 $ $ \text{BS} = \mathbb{Z}_2  \text{SI} $	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &Cm_{(2)}^{010} \\ &2\overline{2}00 \\ &\underline{0}000 \\ &2\overline{2}00 \\ &\underline{1}\overline{1}00 \\ &= z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \end{array} $	(000) (000) (000) (000) (000) weak (000) (000) weak (000) (002)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\0\\0\\1\\\\\hline 52.30\\2\frac{1}{2}00\\0\\0\\\\\hline 52.310\\2\frac{1}{2}00\\0\\0\\\\\hline 0\\0\\\\\hline 0\\\\\hline 0\\\\\hline 0\\\\\hline 0\\\\\hline 52.311\\ \end{array} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 5 \ Pnna \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} Pn'n'a \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \end{array}$ $\begin{array}{c} 1 \\ \end{array}$	$ \begin{array}{c} 2^{100}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \end{array} $ Classifician  Classifician  1	cation = $\frac{i}{0}$ 0 0 1 cation = $\frac{2^{100}_{0\frac{1}{2}\frac{1}{2}}}{0}$ 0 ation = $\frac{2}{2^{100}_{0\frac{1}{2}\frac{1}{2}}}$ 0 1	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ 0 \\ 0 \\ 0 \end{array} $ $ \mathbb{Z}_2 & X_1 $	$\mathbb{Z}_{BS} = \mathbb{Z}_2$ S $\frac{Cm_{(2)}^{100}}{2\overline{2}00}$ $\frac{2\overline{2}00}{0000}$ $\frac{1\overline{1}00}{BS} = \mathbb{Z}_2$ SI $\mathbb{Z}_{BS} = \mathbb{Z}_2$	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &= C m_{(2)}^{010} \\ &= 2\overline{2}00 \\ &= 0000 \\ &= 2\overline{2}00 \\ &= \overline{1}\overline{1}00 \\ &= z_{2P}' \\ \\ &= S \mathbf{I} = z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $	(000) (000) (000) (000) (000) weak (000) (000) weak (000) (002)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\0\\0\\1\\\\\hline 52.30\\2\frac{1}{2}00\\0\\0\\\\\hline 52.310\\2\frac{1}{2}00\\0\\0\\\\\hline 0\\0\\\\\hline 0\\\\\hline 0\\\\\hline 0\\\\\hline 0\\\\\hline 52.311\\ \end{array} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 5 \\ \hline Pnna \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline Pn'n'a \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \\ \hline Pnn'a' \end{array}$	$ \begin{array}{c} 2^{100}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \end{array} $ Classifician  Classifician  1	cation = $\frac{i}{0}$ 0 0 1 cation = $\frac{2^{100}_{0\frac{1}{2}\frac{1}{2}}}{0}$ 0 ation = $\frac{2}{2^{100}_{0\frac{1}{2}\frac{1}{2}}} *$ 0 1 ation = $\frac{2}{2^{100}_{0\frac{1}{2}\frac{1}{2}}} *$	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ 0 \\ 0 \\ 0 \end{array} $ $ \mathbb{Z}_2 & X_1 $	$ \frac{C_{\text{BS}} = \mathbb{Z}_2  \text{S}}{Cm_{(2)}^{100}} \\ \frac{2\overline{2}00}{2\overline{2}00} \\ 0000 \\ 1\overline{1}00 $ $ \text{BS} = \mathbb{Z}_2  \text{SI} $	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &Cm_{(2)}^{010} \\ &2\overline{2}00 \\ &\underline{0}000 \\ &2\overline{2}00 \\ &\underline{1}\overline{1}00 \\ &= z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $ $ \mathbb{Z}_2$	(000) (000) (000) (000) (000) (000) (000) weak (000) (002) (000)	$\begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ \hline 52.30\\ 2\frac{1}{2}00\\ 0\\ 0\\ \hline 52.310\\ 2\frac{1}{2}00\\ 0\\ 0\\ 0\\ \hline 52.311\\ 2\frac{1}{2}00\\ 0\\ \end{array}$	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 5 \\ Pnna \\ \hline 2^{011}_{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline Pn'n'a \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \hline 1 \\ \hline Pnn'a' \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ \end{array}$	$2_{\frac{100}{2}00}^{100}$ $0$ $0$ $0$ $Classifichtics i$ $0$ $0$ $1$ $Classifichtics i$ $0$ $0$ $1$	$\begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{cation} = \\ \frac{2_{0\frac{1}{2}\frac{1}{2}}}{2_{0\frac{1}{2}\frac{1}{2}}} \\ 0 \\ \text{ation} = Z \\ \frac{2_{0\frac{1}{2}\frac{1}{2}}}{2} \\ 1 \\ \text{ation} = Z \\ \frac{2_{0\frac{1}{2}\frac{1}{2}}}{2_{0\frac{1}{2}\frac{1}{2}}} \end{array}$	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ 0 \\ 0 \\ 0 \end{array} $ $ \mathbb{Z}_2 & X_1 $	$\mathbb{Z}_{BS} = \mathbb{Z}_2$ S $\frac{Cm_{(2)}^{100}}{2\overline{2}00}$ $\frac{2\overline{2}00}{0000}$ $\frac{1\overline{1}00}{BS} = \mathbb{Z}_2$ SI $\mathbb{Z}_{BS} = \mathbb{Z}_2$	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &= C m_{(2)}^{010} \\ &= 2\overline{2}00 \\ &= 0000 \\ &= 2\overline{2}00 \\ &= \overline{1}\overline{1}00 \\ &= z_{2P}' \\ \\ &= S \mathbf{I} = z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \end{array} $	(000) (000) (000) (000) (000) (000) (000) weak (000) (002) (000) weak (000)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ \hline \\ 52.30\\ 2\frac{1}{2}00\\ 0\\ 0\\ \hline \\ 52.310\\ 2\frac{1}{2}00\\ 0\\ 0\\ 0\\ \hline \\ 52.311\\ 2\frac{1}{2}00\\ 0\\ 0\\ \end{array} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 5  Pnna \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline Pn'n'a \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ \hline 1 \\ \hline Pnn'a' \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ \hline 0 \\ \hline \end{array}$	$2_{\frac{1}{2}00}^{100}$ $0$ $0$ $0$ $Classifich i$ $0$ $1$ $Classifich i$ $0$ $0$ $1$ $Classifich i$ $0$ $0$ $0$ $1$	$\begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{ication} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ Z_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 1 \\ 1 \\ \text{ation} = \\ Z_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ 0 \\ 0 \\ 0 \end{array} $ $ \mathbb{Z}_2 & X_1 $	$\mathbb{Z}_{BS} = \mathbb{Z}_2$ S $\frac{Cm_{(2)}^{100}}{2\overline{2}00}$ $\frac{2\overline{2}00}{0000}$ $\frac{1\overline{1}00}{BS} = \mathbb{Z}_2$ SI $\mathbb{Z}_{BS} = \mathbb{Z}_2$	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &= C m_{(2)}^{010} \\ &= 2\overline{2}00 \\ &= 0000 \\ &= 2\overline{2}00 \\ &= \overline{1}\overline{1}00 \\ &= z_{2P}' \\ \\ &= S \mathbf{I} = z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \end{array} $	(000) (000) (000) (000) (000) (000) (000) weak (000) (002) (000) weak (000) (000)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ \hline \\ 52.30\\ 2\frac{1}{2}00\\ 0\\ 0\\ \hline \\ 52.310\\ 2\frac{1}{2}00\\ 0\\ 0\\ 0\\ \hline \\ 52.311\\ 2\frac{1}{2}00\\ 0\\ 0\\ \hline \\ 1\\ \end{array} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 5  Pnna \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline Pn'n'a \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ \hline 1 \\ \hline Pnn'a' \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ \hline 0 \\ 1 \\ \hline \end{array}$	$2_{\frac{100}{2}00}^{100}$ $0$ $0$ $0$ Classific $i$ $0$ $0$ Classific $i$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	cation =	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ 0 \\ 0 \\ 0 \end{array} $ $ \mathbb{Z}_2 & X_1 $	$\mathbb{Z}_{BS} = \mathbb{Z}_2$ S $\frac{Cm_{(2)}^{100}}{2\overline{2}00}$ $\frac{2\overline{2}00}{0000}$ $\frac{1\overline{1}00}{BS} = \mathbb{Z}_2$ SI $\mathbb{Z}_{BS} = \mathbb{Z}_2$	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &= C m_{(2)}^{010} \\ &= 2\overline{2}00 \\ &= 0000 \\ &= 2\overline{2}00 \\ &= \overline{1}\overline{1}00 \\ &= z_{2P}' \\ \\ &= S \mathbf{I} = z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \end{array} $	(000) (000) (000) (000) (000) (000) (000) weak (000) (002) (000) weak (000)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ \hline \\ 52.30\\ 2^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ \hline \\ 52.310\\ 2^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ 0\\ \hline \\ 52.311\\ 2^{001}_{\frac{1}{2}00}*\\ 0\\ 1\\ 1\\ \end{array} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \end{array}$ $0 \\ 0 \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline Pn'n'a \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \\ \hline 1 \\ \hline Pnn'a' \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \\ 1 \\ \end{array}$	$2\frac{100}{200}$ $0$ $0$ $0$ $0$ Classific $i$ $0$ $0$ Classific $i$ $0$ $0$ $1$ Classific $i$ $0$ $1$	$\begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \\ \text{deation} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ \text{ation} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ \hline \\ \text{ation} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ \hline \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ \hline 0 \\ 0 \\ 0 \end{array} $ $ \mathbb{Z}_2 & X_1 $ $ \mathbb{Z} \times \mathbb{Z}_2 $	$\begin{split} & \frac{\mathbb{Z}_{2}}{Cm_{(2)}^{100}} \\ & \frac{2\overline{2}00}{2\overline{2}00} \\ & \frac{2\overline{2}00}{0000} \\ & \frac{1\overline{1}00}{100} \\ & \frac{1}{8}S = \mathbb{Z}_{2}  SI \end{split}$ $\overline{X}_{BS} = \mathbb{Z}_{2}$	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &= C m_{(2)}^{010} \\ &= 2\overline{2}00 \\ &= 0000 \\ &= 2\overline{2}00 \\ &= \overline{1}\overline{1}00 \\ &= z_{2P}' \\ \\ &= S\mathbf{I} = z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $	(000) (000) (000) (000) (000)  weak (000) (000)  weak (000) (000)  weak (000) (000)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ \hline \\ 52.30\\ 2\frac{1}{2}00\\ 0\\ 0\\ \hline \\ 0\\ 2\frac{1}{2}00\\ 0\\ 0\\ 0\\ 0\\ \hline \\ 52.311\\ 2\frac{1}{2}00\\ 0\\ 0\\ 0\\ \hline \\ 1\\ 1\\ \hline \\ 52.312\\ \end{array} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 5  Pnna \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} Pn'n'a \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ \end{array}$ $\begin{array}{c} 1 \\ \end{array}$ $\begin{array}{c} Pnn'a' \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ \end{array}$ $\begin{array}{c} 0 \\ \end{array}$ $\begin{array}{c} 1 \\ \end{array}$ $\begin{array}{c} Pnn'a' \\ \end{array}$	$2^{100}_{\frac{1}{2}00}$ 0 0 0 Classific i 0 1 Classific i 0 1 Classific i Classific i Classific i Classific i Classific	cation = $ \begin{array}{c} i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{ication} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 1 \\ 1 \\ \text{ation} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \text{ation} = \\ 2 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ \hline 0 \\ 0 \\ 0 \end{array} $ $ \mathbb{Z}_2 & X_1 $ $ \mathbb{Z} \times \mathbb{Z}_2 $	$\mathbb{Z}_{BS} = \mathbb{Z}_2$ S $\frac{Cm_{(2)}^{100}}{2\overline{2}00}$ $\frac{2\overline{2}00}{0000}$ $\frac{1\overline{1}00}{BS} = \mathbb{Z}_2$ SI $\mathbb{Z}_{BS} = \mathbb{Z}_2$	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &= C m_{(2)}^{010} \\ &= 2\overline{2}00 \\ &= 0000 \\ &= 2\overline{2}00 \\ &= \overline{1}\overline{1}00 \\ &= z_{2P}' \\ \\ &= S \mathbf{I} = z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \end{array} $	(000) (000) (000) (000) (000)  weak (000) (000)  weak (000) (002) (000)  weak (000) (000)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ \hline \\ 52.30\\ 2^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ \hline \\ 52.310\\ 2^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ 0\\ \hline \\ 52.311\\ 2^{001}_{\frac{1}{2}00}*\\ 0\\ 1\\ 1\\ \end{array} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \end{array}$ $0 \\ 0 \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline Pn'n'a \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \\ \hline 1 \\ \hline Pnn'a' \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \\ 1 \\ \end{array}$	$2\frac{100}{200}$ $0$ $0$ $0$ $0$ $Classifichtics i$ $0$ $0$ $1$ $Classifichtic i$ $0$ $0$ $1$ $Classifichtic i$ $0$ $0$ $1$ $Classifichtic i$	$\begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{cation} = \\ 2_{0\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \text{ation} = 2 \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 1 \\ 1 \\ \text{ation} = 2 \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \text{ation} = 2 \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ \text{ation} = 2 \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ \hline 0 \\ 0 \\ 0 \end{array} $ $ \mathbb{Z}_2 & X_1 $ $ \mathbb{Z} \times \mathbb{Z}_2 $	$\begin{split} & \frac{\mathbb{Z}_{2}}{Cm_{(2)}^{100}} \\ & \frac{2\overline{2}00}{2\overline{2}00} \\ & \frac{2\overline{2}00}{0000} \\ & \frac{1\overline{1}00}{100} \\ & \frac{1}{8}S = \mathbb{Z}_{2}  SI \end{split}$ $\overline{X}_{BS} = \mathbb{Z}_{2}$	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &= C m_{(2)}^{010} \\ &= 2\overline{2}00 \\ &= 0000 \\ &= 2\overline{2}00 \\ &= \overline{1}\overline{1}00 \\ &= z_{2P}' \\ \\ &= S\mathbf{I} = z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $	(000) (000) (000) (000) (000)  weak (000) (000)  weak (000) (002) (000)  weak (000) (200) (000)	$\begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ \hline \\ 52.30\\ 2\frac{101}{\frac{1}{2}00}\\ 0\\ 0\\ \hline \\ 52.310\\ 2\frac{1}{2}00\\ 0\\ 0\\ 0\\ \hline \\ 52.311\\ 2\frac{1}{2}00*\\ 0\\ 1\\ 1\\ \hline \\ 52.312\\ 2\frac{1}{2}00*\\ 0\\ \end{array}$	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 5  Pnna \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} Pn'n'a \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ \end{array}$ $\begin{array}{c} 1 \\ \end{array}$ $\begin{array}{c} Pnn'a' \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ \end{array}$ $\begin{array}{c} 0 \\ \end{array}$ $\begin{array}{c} 1 \\ \end{array}$ $\begin{array}{c} Pnn'a' \\ \end{array}$	$2\frac{100}{200}$ $0$ $0$ $0$ $0$ Classific $i$ $0$ $0$ Classific $i$ $0$ $0$ $1$ Classific $i$ $0$ $0$ $0$ $1$ Classific $i$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	cation = $ \begin{array}{c} i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{ication} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 1 \\ 1 \\ \text{ation} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \text{ation} = \\ 2 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ \hline 0 \\ 0 \\ 0 \end{array} $ $ \mathbb{Z}_2 & X_1 $ $ \mathbb{Z} \times \mathbb{Z}_2 $	$\begin{split} & \frac{\mathbb{Z}_{2}}{Cm_{(2)}^{100}} \\ & \frac{2\overline{2}00}{2\overline{2}00} \\ & \frac{2\overline{2}00}{0000} \\ & \frac{1\overline{1}00}{100} \\ & \frac{1}{8}S = \mathbb{Z}_{2}  SI \end{split}$ $\overline{X}_{BS} = \mathbb{Z}_{2}$	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &= C m_{(2)}^{010} \\ &= 2\overline{2}00 \\ &= 0000 \\ &= 2\overline{2}00 \\ &= \overline{1}\overline{1}00 \\ &= z_{2P}' \\ \\ &= S\mathbf{I} = z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $	(000) (000) (000) (000) (000)  weak (000) (000)  weak (000) (002) (000)  weak (000) (000)	$\begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ \hline \\ 52.30\\ 2\frac{101}{\frac{1}{2}00}\\ 0\\ 0\\ \hline \\ 52.310\\ 2\frac{1}{2}00\\ 0\\ 0\\ 0\\ \hline \\ 52.311\\ 2\frac{1}{2}00*\\ 0\\ 1\\ 1\\ \hline \\ 52.312\\ 2\frac{1}{2}00*\\ \end{array}$	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 5 \\ Pnna \\ 2^{\frac{01}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline Pn'n'a \\ 2^{\frac{010}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 1 \\ \hline 1 \\ \hline Pnn'a' \\ 2^{\frac{010}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 1 \\ \hline 1 \\ \hline \end{array}$	$2\frac{100}{200}$ $0$ $0$ $0$ $0$ $Classifichtics i$ $0$ $0$ $1$ $Classifichtic i$ $0$ $0$ $1$ $Classifichtic i$ $0$ $0$ $1$ $Classifichtic i$	$\begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{cation} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ Z \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ Z \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ Z \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ Z \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ Z \\ 1 \\ \end{array}$	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ \hline 0 \\ 0 \\ 0 \end{array} $ $ \mathbb{Z}_2 & X_1 $ $ \mathbb{Z} \times \mathbb{Z}_2 $	$\begin{split} & \frac{\mathbb{Z}_{2}}{Cm_{(2)}^{100}} \\ & \frac{2\overline{2}00}{2\overline{2}00} \\ & \frac{2\overline{2}00}{0000} \\ & \frac{1\overline{1}00}{100} \\ & \frac{1}{8}S = \mathbb{Z}_{2}  SI \end{split}$ $\overline{X}_{BS} = \mathbb{Z}_{2}$	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &= C m_{(2)}^{010} \\ &= 2\overline{2}00 \\ &= 0000 \\ &= 2\overline{2}00 \\ &= \overline{1}\overline{1}00 \\ &= z_{2P}' \\ \\ &= S\mathbf{I} = z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $	(000) (000) (000) (000) (000)  weak (000) (000)  weak (000) (002) (000)  weak (000) (200) (000)	$\begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ \hline \\ 52.30\\ 2\frac{101}{\frac{1}{2}00}\\ 0\\ 0\\ \hline \\ 52.310\\ 2\frac{1}{2}00\\ 0\\ 0\\ 0\\ \hline \\ 52.311\\ 2\frac{1}{2}00*\\ 0\\ 1\\ 1\\ \hline \\ 52.312\\ 2\frac{1}{2}00*\\ 0\\ \end{array}$	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 5 \\ Pnna \\ 2^{\frac{01}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline Pn'n'a \\ 2^{\frac{010}{2}\frac{1}{2}\frac{1}{2}*} \\ 0 \\ 1 \\ \hline 1 \\ \hline Pnn'a' \\ 2^{\frac{010}{2}\frac{1}{2}\frac{1}{2}*} \\ 0 \\ 1 \\ \hline 1 \\ \hline Pn'na' \\ 2^{\frac{010}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}*} \\ 0 \\ 0 \\ \end{array}$	$2\frac{100}{200}$ $0$ $0$ $0$ $0$ Classific $i$ $0$ $0$ Classific $i$ $0$ $0$ $1$ Classific $i$ $0$ $0$ $0$ $1$ Classific $i$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{cation} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ 2 \\ 0 \\ 0 \\ \text{ation} = \\ 2 \\ 0 \\ 0 \\ \text{ation} = \\ 2 \\ 0 \\ 0 \\ 0 \\ \text{ation} = \\ 2 \\ 0 \\ 0 \\ 0 \\ 0 \\ \text{ation} = \\ 2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ \hline 0 \\ 0 \\ 0 \end{array} $ $ \mathbb{Z}_2 & X_1 $ $ \mathbb{Z} \times \mathbb{Z}_2 $	$\begin{split} & \frac{\mathbb{Z}_{2}}{Cm_{(2)}^{100}} \\ & \frac{2\overline{2}00}{2\overline{2}00} \\ & \frac{2\overline{2}00}{0000} \\ & \frac{1\overline{1}00}{100} \\ & \frac{1}{8}S = \mathbb{Z}_{2}  SI \end{split}$ $\overline{X}_{BS} = \mathbb{Z}_{2}$	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &= C m_{(2)}^{010} \\ &= 2\overline{2}00 \\ &= 0000 \\ &= 2\overline{2}00 \\ &= \overline{1}\overline{1}00 \\ &= z_{2P}' \\ \\ &= S\mathbf{I} = z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 0 \end{array} $	(000) (000) (000) (000) (000)  weak (000) (000)  weak (000) (000)  weak (000) (000)	$\begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ \hline \\ 52.30\\ 2\frac{1001}{\frac{1}{2}00}\\ 0\\ 0\\ \hline \\ 52.310\\ 2\frac{1001}{\frac{1}{2}00}\\ 0\\ 0\\ 0\\ \hline \\ 52.311\\ 2\frac{1001}{\frac{1}{2}00}*\\ 0\\ 1\\ 1\\ \hline \\ 52.312\\ 2\frac{1}{2}00^*\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 5 \\ \hline Pnna \\ 2^{010}_{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline Pn'n'a \\ 2^{010}_{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 1 \\ \hline \hline Pn'n'a' \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 1 \\ \hline 1 \\ \hline Pn'na' \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 1 \\ \hline 0 \\ 4 \\ P_anna \\ \end{array}$	$2^{100}_{\frac{1}{2}00}$ $0$ $0$ $0$ $0$ Classific $i$ $0$ $0$ Classific $i$ $0$ $0$ $1$ Classific $i$ $0$ $0$ $1$ Classific $i$ $0$ $0$ $1$ Classific $i$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{cation} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ Z \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ Z \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ Z \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ Z \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ Z \\ 1 \\ \end{array}$	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ \hline 0 \\ 0 \\ 0 \\ \mathbb{Z}_2 & X_1 \end{array} $ $ \begin{array}{c c} \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z} \times \mathbb{Z}_2 \end{array} $	$\mathbb{Z}_{BS} = \mathbb{Z}_2$ S $\frac{Cm_{(2)}^{100}}{2\bar{2}00}$ $\frac{2\bar{2}00}{0000}$ $\frac{1\bar{1}00}{1\bar{1}00}$ $\frac{1}{1}00$ $\frac{1}00$ $\frac$	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &= C m_{(2)}^{010} \\ &= 2\overline{2}00 \\ &= 0000 \\ &= 2\overline{2}00 \\ &= \overline{1}\overline{1}00 \\ &= z_{2P}' \\ \\ &= S\mathbf{I} = z_{2P}' \end{split}$	
$ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} 0 \\ 0 \\ 0 \\ 0 \end{array} $	(000) (000) (000) (000) (000)  weak (000) (000)  weak (000) (000)  weak (000) (000)	$\begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ \\\hline 52.30\\ 2^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ \\\hline 52.310\\ 2^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ \\\hline 0\\ \\\hline 52.311\\ 2^{001}_{\frac{1}{2}00}*\\ 0\\ 1\\ \\\hline \\\hline 52.312\\ 2^{001}_{\frac{1}{2}00}*\\ 0\\ \\\hline \\\hline \\ 0\\ 1\\ \\\hline \end{array}$	$\begin{array}{c} 2^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline \\ 5  Pnna \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline \\ Pn'n'a \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \\ \hline \\ Pnn'a' \\ \hline 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \\ \hline \\ Pn'na' \\ \hline \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \\ \hline \\ D \\ \hline \\ 1 \\ \hline \\ 0 \\ 0 \\ \end{array}$	$2^{100}_{\frac{1}{2}00}$ $0$ $0$ $0$ Classific $i$ $0$ $0$ Classific $i$ $0$ $0$ $1$ Classific $i$ $0$ $0$ $1$ Classific $i$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$	$\begin{array}{c} \text{cation} = \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \text{cation} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{ation} = \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 1 \\ 1 \\ \text{ation} = \\ 2 \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \text{ation} = \\ 2 \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 1 \\ 1 \\ 1 \\ \end{array}$	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ 2^{010} \\ \hline 0 \\ 0 \\ 0 \\ \mathbb{Z}_2 & X_1 \end{array} $ $ \begin{array}{c c} \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z} \times \mathbb{Z}_2 \end{array} $	$\mathbb{Z}_{BS} = \mathbb{Z}_2$ S $\frac{Cm_{(2)}^{100}}{2\bar{2}00}$ $\frac{2\bar{2}00}{0000}$ $\frac{1\bar{1}00}{1\bar{1}00}$ $\frac{1}{1}00$ $\frac{1}00$ $\frac$	$\begin{split} \mathbf{I} &= z_{2m,0}^{+} \\ &= C m_{(2)}^{010} \\ &= 2\overline{2}00 \\ &= 0000 \\ &= 2\overline{2}00 \\ &= \overline{1}\overline{1}00 \\ &= z_{2P}^{\prime} \\ \\ &= S\mathbf{I} = z_{2P}^{\prime} \\ \\ &= S\mathbf{I} = z_{2P}^{\prime} \end{split}$	

0	(000)	0	0	0	0	0				
1	(000)	1	1	0	1	1				
		52.315	$P_bnna$	Classi	fication =	$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}}$	$= \mathbb{Z}_2$	SI :	$=z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}0\}*$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$i_{0\frac{1}{2}0}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$			21	
0	(000)	0	$\frac{\bar{2}^{0}\bar{2}}{0}$	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	0	$\frac{0_{\bar{2}\bar{2}}}{0}$				
1	(000)	1	1	1	0	0				
		52.316	$P_cnna$	Classi	fication =	$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}}$	$=\mathbb{Z}_2$	SI :	$=z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$2^{100}_{0\frac{1}{2}0}*$	$2^{001}_{\frac{1}{2}00}$	i	$\frac{2^{010}}{2^{\frac{1}{2}\frac{1}{2}0}}*$			721	
0	(000)	0	0 2 0	0	0	$\frac{\bar{2}  \bar{2}^{0}}{0}$				
$\frac{3}{1}$	(000)	1	1	0	1	1				
	/ /	52.317	$P_Anna$	Classi	fication =	$=\mathbb{Z}_2$ $X_{BS}$	$= \mathbb{Z}_2$	SI	$= z'_{0D}$	
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	2 <sup>100</sup> *	$2^{010}_{\frac{1}{2}00}*$	$\frac{i}{i}$	$\frac{2^{001}}{2^{001}_{\frac{1}{2}00}}$		~-	~2P	
0	(000)	0	0	$\frac{1}{2}$ 00	0	$\frac{\frac{1}{2}00}{0}$				
1	(000)	1	1	1	1	0				
		52.318	$P_Bnna$	Classi	fication =	$=\mathbb{Z}_2$ $X_{BS}$	$=\mathbb{Z}_2$	SI	$=z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i_{\frac{1}{2}0\frac{1}{2}}*$	$\frac{2^{001}}{2^{001}_{\frac{1}{2}00}}$			,-2F	
0	(000)	0	$\frac{\bar{2}\ \bar{2}\ \bar{2}}{0}$	0 2 2	$\frac{\bar{2}^{0}\bar{2}}{0}$	0				
$\frac{0}{1}$	(000)	1	0	0	0	0				
		52.319	$P_Cnna$	Classi	fication =	= Z <sub>2</sub> X <sub>D</sub>	$=\mathbb{Z}_2$	SI	$=z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2_{0\frac{1}{2}0}^{001}*$	$2_{00\frac{1}{2}}^{010}*$	$\frac{i}{i}$	$\frac{2_{0\frac{1}{2}\frac{1}{2}}^{100}}{2_{0\frac{1}{2}\frac{1}{2}}^{100}}$		~-	~2F	
0	(000)	0	0 2 0	00 2	0	$0^{\frac{1}{2}\frac{1}{2}}$				
$\frac{3}{1}$	(000)	1	1	1	1	0				
		52.320	$P_Inna$	Classi	fication =	= Z2 XBS	$=\mathbb{Z}_2$	SI	$=z'_{2D}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}_{\frac{1}{2}00}$	$2^{100}_{\frac{1}{2}00}*$	i	2010*			~ 2F	
0	(000)	0	0	$\frac{1}{2}00$	0	0				
$\frac{3}{1}$	(000)	1	0	1	1	1				
	/	53.321	Pmna	Classif	ication =	$\mathbb{Z}_M$ $X_{BS}$	$= \mathbb{Z}_2$	SI	$=z'_{2P}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}0\frac{1}{2}}$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}$	i	$2^{100}$	$Cm_{(2)}^{100}$			~2F	
0	(000)	$\frac{\bar{2}^{0}\bar{2}}{0}$	$\frac{\bar{2}^{0}\bar{2}}{0}$	0	0	$\frac{2\overline{200}}{200}$				
0	(000)	0	0	0	0	$2\overline{200}$				
1	(000)	0	0	1	0	$1\overline{1}00$				
			Pm'n'a	Classifie	cation = 2	$\mathbb{Z} \times \mathbb{Z}_2 = X_1$	$_{\mathrm{BS}}=\mathbb{Z}$	$\mathbb{Z}_2$	$SI = z'_{2P}$	
		53.326							21	
$\mathbb{Z}_2$	weak	$\frac{53.326}{2_{101}^{001}}$		i	$2^{100}*$					
$\frac{\mathbb{Z}_2}{0}$		$\begin{array}{r} 53.326 \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \end{array}$	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \end{array}$	$\frac{i}{0}$	$\frac{2^{100}*}{0}$					
	$ \begin{array}{c c} weak\\ (000)\\ (00\overline{2}) \end{array} $	$2^{001}_{\frac{1}{2}0\frac{1}{2}}$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}*$	-						
0	(000)	$\begin{array}{c} 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ - \end{array}$	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \end{array}$	0	0					
0	$(000)$ $(00\overline{2})$ $(000)$	$ \begin{array}{c} 2_{\frac{1}{2}0\frac{1}{2}}^{001} \\ \underline{0} \\ \hline 1 \\ 0 \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}0\frac{1}{2}}^{010} * \\ 0 \\ 1 \\ 1 \end{array} $	0 0 1	0 0 1	$\mathbb{Z} \mathbb{Z} = \mathbb{X}_{\mathrm{BS}} =$	$\mathbb{Z}_{2,2}$	SI :	$=z_{2m,0}^{+},z_{2m,0}^{+}$	,+ 29m π
0	$(000)$ $(00\overline{2})$ $(000)$	$ \begin{array}{c} 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ 327  Pmn' \end{array} $	$2^{010}_{\frac{1}{2}0\frac{1}{2}}*$ 0 1 1 Class	0 0 1	0	$\mathbb{Z}  \mathbb{X}_{\mathrm{BS}} = Cm_{(2)}^{100}$	$\mathbb{Z}_{2,2}$	SI =	$=z_{2m,0}^+,z_{2m,0}^+$	$z_{2m,\pi}^+$
$ \begin{array}{c c} 0\\ 0\\ 1\\ \hline \mathbb{Z}_{2,2} \end{array} $	$(000)$ $(00\overline{2})$ $(000)$ $53.3$ weak	$ \begin{array}{c} 2_{\frac{1}{2}0\frac{1}{2}}^{001} \\ \underline{0} \\ \hline 1 \\ 0 \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}0\frac{1}{2}}^{010} * \\ 0 \\ 1 \\ 1 \end{array} $	0 0 1 sification	$ \begin{array}{c} 0\\ 0\\ 1\\ 1 = \mathbb{Z}_M \times \end{array} $	$Cm_{(2)}^{100}$	$\mathbb{Z}_{2,2}$	SI :	$=z_{2m,0}^+,z_{2m,0}^+$	_+ -2m,π
0 0 1	$ \begin{array}{c c} (000) \\ (00\overline{2}) \\ (000) \\ \hline 53.5 \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}0_{\frac{1}{2}}}^{001} \\ 0 \\ \hline 0 \\ 327 Pmn' \\ 2_{\frac{1}{2}0_{\frac{1}{2}}}^{001} * \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}0\frac{1}{2}}^{010} * \\ 0 \\ 1 \\ 1 \end{array} $ $ \begin{array}{c} a' \text{ Class} \\ 2_{\frac{1}{2}0\frac{1}{2}}^{010} * \end{array} $	$0 \\ 0 \\ 1$ sification $i$	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 1 \\ 2^{100} \end{array} $	$ \begin{array}{c c} \mathbb{Z} & \mathbf{X}_{BS} = \\ \hline Cm_{(2)}^{100} \\ \hline 2\overline{2}00 \\ 4022 \end{array} $	$\mathbb{Z}_{2,2}$	SI :	$=z_{2m,0}^+,z_{2m,0}^+$	$y^+$ $y^-$ $y^-$ $y^-$
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline  & \\ \hline  & \\  & \\ \hline  & \\  & \\  & \\  $	$(000)$ $(00\overline{2})$ $(000)$ $53.3$ $(000)$	$ \begin{array}{c} 2_{\frac{1}{2}0_{\frac{1}{2}}}^{001} \\ 0 \\ \hline 1 \\ 0 \\ 327 Pmn' \\ 2_{\frac{1}{2}0_{\frac{1}{2}}}^{001} * \\ 0 \end{array} $	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 1 \\ 1 \\ \end{array}$	$0 \\ 0 \\ 1$ sification $i$ $0$	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 1 \\ 2^{100} \end{array} $	$\frac{Cm_{(2)}^{100}}{2\overline{2}00}$	$\mathbb{Z}_{2,2}$	SI :	$=z_{2m,0}^+,z_{2m,0}^+$	$z^+$ $2m,\pi$
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 00 \\ 01 \end{array} $	(000) (002) (000) 53.: weak (000) (400) (000) (200)	$ \begin{array}{c} 2_{\frac{1}{2}0_{\frac{1}{2}}}^{001} \\ 0 \\ \hline 1 \\ 0 \\ 327 Pmn' \\ 2_{\frac{1}{2}0_{\frac{1}{2}}}^{001} \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ \end{array}$	$0 \\ 0 \\ 1$ Sification $i$ $0$ $0$	$ \begin{array}{c} 0\\0\\1\\1\\1=\mathbb{Z}_M\times\\2^{100}\\0\\0\\0\\0\end{array} $	$ \begin{array}{c} Cm_{(2)}^{100} \\ \hline 2\overline{2}00 \\ 4022 \\ \overline{2}\overline{2}00 \\ 2011 \end{array} $	$\mathbb{Z}_{2,2}$	SI :	$=z_{2m,0}^{+},z_{2m,0}^{+}$	$^{+}_{2m,\pi}$
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 00 \\ 01 \\ 10 \\ \end{array} $	(000) (002) (000) 53.: weak (000) (400) (000) (200) (000)	$\begin{array}{c} 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ \hline 327 \ Pmn' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 1 \\ 1 \\ \hline 1 \\ 2^{o10}_{\frac{1}{2}} * \\ 0 \\ 2^{010}_{\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ \end{array}$	0 0 1 sification i 0 0 0	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 1 \\ 1 = \mathbb{Z}_M \times \\ 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} Cm_{(2)}^{100} \\ \hline 2\overline{2}00 \\ 4022 \\ \hline 2\overline{2}00 \\ 2011 \\ 1\overline{1}00 \end{array} $	$: \mathbb{Z}_{2,2}$	SI :	$=z_{2m,0}^{+},z_{2m,0}^{+}$	γ <sup>+</sup> γ <sup>2</sup> m,π
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 00 \\ 01 \end{array} $	(000) (002) (000) 53.: weak (000) (400) (000) (200) (200) (200)	$ \begin{array}{c} 2\frac{101}{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \end{array} $ $ 327 Pmn'  2\frac{101}{\frac{1}{2}0\frac{1}{2}} *   0 \\ 0 \\ 0 \\ 1 \\ 1 $	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 1 \\ 1 \\ \hline 1 \\ \end{array}$	0 0 1 sification i 0 0 0 1 1	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 1 \\ 1 = \mathbb{Z}_M \times 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} Cm_{(2)}^{100} \\ \hline 2\overline{2}00 \\ 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \end{array}$				
$ \begin{array}{c c} 0 \\ \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_{2,2} \\ \hline 00 \\ 00 \\ \hline 00 \\ \hline 01 \\ \hline 10 \\ \hline 11 \end{array} $	(000) (002) (000) 53.3 weak (000) (400) (000) (200) (200) (200)	$ \begin{array}{c} 2_{\frac{1}{2}0\frac{1}{2}}^{001} \\ 0 \\ \hline 1 \\ 0 \\ 327  Pmn' \\ 2_{\frac{1}{2}0\frac{1}{2}}^{1} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 3.328  Pm' \end{array} $	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ \hline\\ a' \text{ Class}\\ 2^{010}_{\frac{1}{2}}*\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ \end{array}$	0 $0$ $1$ sification $i$ $0$ $0$ $1$ $1$ $0$ ussification	$ \begin{array}{c} 0\\ 0\\ 1\\ 1 = \mathbb{Z}_M \times \\ 2^{100}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} Cm_{(2)}^{100} \\ \hline 2\overline{2}00 \\ 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \end{array}$			$=z_{2m,0}^+,z_{2m,0}^+$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \\ 10 \\ 11 \\ \hline \mathbb{Z}_{2,2} \end{array} $	(000) (002) (000) 53.: weak (000) (400) (200) (200) (200) (200) (200) (200) (200)	$\begin{array}{c} 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ 327 \ Pmn' \\ \hline 2^{001}_{\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ \hline 3.328 \ Pm' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ \end{array}$	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 1 \\ 1 \\ \hline 1 \\ \hline 2' \text{ Class} \\ 2^{010}_{\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ 1 \\ \hline \\ 'na' \text{ Clas} \\ 2^{010}_{\frac{1}{2}0\frac{1}{2}} * \\ \end{array}$	0 $0$ $1$ sification $i$ $0$ $0$ $1$ $1$ $0$ assification $i$	$0$ $0$ $1$ $1 = \mathbb{Z}_M \times 2^{100}$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $2^{100} \times 2^{100} \times 2^{100}$	$\begin{array}{c} Cm_{(2)}^{100} \\ \hline 2\overline{2}00 \\ 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \end{array}$				
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \\ 10 \\ 11 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ \end{array} $	(000) (002) (000) 53 weak (000) (400) (200) (200) (200) (200) (200) weak (020)	$\begin{array}{c} 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ 327 \ Pmn' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ 1 \\ \hline 3.328 \ Pm' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ \end{array}$	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ \end{array}$	0 $0$ $1$ sification $i$ $0$ $0$ $1$ $1$ $0$ assificatio $i$ $0$	$0$ $0$ $1$ $1 = \mathbb{Z}_M \times 2^{100}$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $2^{100} \times 2^{100} \times 0$ $0$	$\begin{array}{c} Cm_{(2)}^{100} \\ \hline 2\overline{2}00 \\ 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \end{array}$				
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 01 \\ 10 \\ 11 \\ \hline \mathbb{Z}_{2,2} \\ 00 \\ 00 \\ 00 \end{array} $	(000) (002) (000) 53 weak (000) (400) (20	$\begin{array}{c} 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ 327 \ Pmn' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ 1 \\ \hline 3.328 \ Pm' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ \end{array}$	0 $0$ $1$ sification $i$ $0$ $0$ $1$ $1$ $0$ assificatio $i$ $0$ $0$	$ \begin{array}{c} 0\\ 0\\ 1\\ 1 = \mathbb{Z}_M \times \\ 2^{100}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} Cm_{(2)}^{100} \\ \hline 2\overline{2}00 \\ 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \end{array}$				
$\begin{array}{c c} 0\\ 0\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 01\\ 11\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 01\\ \end{array}$	(000) (002) (000) 53 weak (000) (400) (20	$\begin{array}{c} 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ \hline 327 \ Pmn' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ \hline 1 \\ \hline 3.328 \ Pm' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ \hline \\ 2^{10}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ \hline \\ 2^{010}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 $0$ $1$ sification $i$ $0$ $0$ $1$ $1$ $0$ assificatio $i$ $0$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$ \begin{array}{c} 0\\ 0\\ 1\\ 1 = \mathbb{Z}_M \times \\ 2^{100} \end{array} $ $ \begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0 \end{array} $ $ \begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0 \end{array} $ $ \begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1 \end{array} $	$\begin{array}{c} Cm_{(2)}^{100} \\ \hline 2\overline{2}00 \\ 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \end{array}$				
$\begin{array}{c c} 0\\ 0\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 01\\ 11\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 01\\ 10\\ \end{array}$	$ \begin{array}{c c} (000) \\ \hline (00\overline{2}) \\ \hline (000) \\ \hline (000) \\ \hline 53 \\ \hline weak \\ (000) \\ (400) \\ (200) \\ (200) \\ \hline (000) \\ (000) \\ (000) \\ (0\overline{1}0) \\ \hline \end{array} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ \hline 327 \ Pmn' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ \hline 1 \\ \hline 3.328 \ Pm' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline 1 \\ 0 \\ \end{array}$	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ \hline \\ a' \text{ Class}\\ 2^{010}_{\frac{1}{2}}*\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ \hline \\ 2^{010}_{\frac{1}{2}0\frac{1}{2}}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$	0 0 1 sification i 0 0 1 1 0 ssification i 0 0 1 1 0 ssification i 0 1 0 0 1 0 0 1	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 1 = \mathbb{Z}_M \times \\ 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Cm_{(2)}^{100} \\ \hline 2\overline{2}00 \\ 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \end{array}$				
$\begin{array}{c c} 0\\ 0\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 01\\ 11\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 01\\ \end{array}$	(000) (002) (000) 53 weak (000) (400) (20	$\begin{array}{c} 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ 327 \ Pmn' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 1 \\ 3.328 \ Pm' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ \end{array}$	0 0 1 sification i 0 0 1 1 0 assification i 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 1 0 1 0 1 0 1	$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ 1 = \mathbb{Z}_M \times \\ 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} Cm_{(2)}^{100} \\ 2\overline{2}00 \\ 4022 \\ 2\overline{2}00 \\ 2011 \\ 1\overline{1}00 \\ 3\overline{1}11 \\ \overline{\mathbb{Z}}_2  X_{BS} = \end{array}$	$=\mathbb{Z}_{2,2}$	SI	$=z_{2P,2},$	
$ \begin{array}{c c} 0\\ 0\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 01\\ 10\\ 11\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 01\\ 10\\ 11\\ \hline \end{array} $	$ \begin{array}{c c} (000) \\ (00\overline{2}) \\ (000) \\ \hline \\ 53. \\ \\ \text{weak} \\ (000) \\ (400) \\ (000) \\ (200) \\ \hline \\ (200) \\ (200) \\ \hline \\ \\ \text{weak} \\ (0\overline{2}0) \\ (000) \\ (000) \\ (0\overline{1}0) \\ (0\overline{1}0) \\ \hline \end{array} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ 327 \ Pmn' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 1 \\ 3.328 \ Pm' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline 1 \\ 0 \\ 1 \\ 53.330 \\ \end{array}$	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ 2^{10}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 1\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ 2^{010}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$	0 0 1 sification i 0 0 0 1 1 0 ssificatio i 0 1 1 0 classificatio 1 Classificatio 1	$0$ $0$ $1$ $1 = \mathbb{Z}_M \times 2^{100}$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} Cm_{(2)}^{100} \\ \hline 2\overline{2}00 \\ 4022 \\ \hline 2\overline{2}00 \\ \hline 2011 \\ \hline 1\overline{1}00 \\ \hline 3\overline{1}11 \\ \hline \mathbb{Z}_2  X_{BS} = \end{array}$	$=\mathbb{Z}_{2,2}$	SI		
$\begin{array}{c c} 0\\ 0\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 01\\ 11\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 01\\ 10\\ \end{array}$	$ \begin{array}{c c} (000) \\ \hline (00\overline{2}) \\ \hline (000) \\ \hline (000) \\ \hline 53 \\ \hline weak \\ (000) \\ (400) \\ (200) \\ (200) \\ \hline (000) \\ (000) \\ (000) \\ (0\overline{1}0) \\ \hline \end{array} $	$\begin{array}{c} 2^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ 327 \ Pmn' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 1 \\ 3.328 \ Pm' \\ \hline 2^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 2^{010}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ \end{array}$	0 0 1 sification i 0 0 1 1 0 assification i 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 1 0 1 0 1 0 1	$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ 1 = \mathbb{Z}_M \times \\ 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} Cm_{(2)}^{100} \\ 2\overline{2}00 \\ 4022 \\ 2\overline{2}00 \\ 2011 \\ 1\overline{1}00 \\ 3\overline{1}11 \\ \overline{\mathbb{Z}}_2  X_{BS} = \end{array}$	$=\mathbb{Z}_{2,2}$	SI SI (1000 (100) (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (100) (1000 (1000 (1000 (1000 (1000 (100) (1000 (1000 (100) (1000 (1000 (100) (1000 (100) (1000 (1000 (100) (1000 (100) (1000 (100) (1000 (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000) (1000 (100) (1000 (100) (1000 (100) (1000) (1000 (100) (1000) (1	$=z_{2P,2},$	

	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	1	0	1	1	$1\overline{1}00$		
		53.331	$P_bmna$	Classif	fication =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}0\}*$	$2^{001}_{\frac{1}{2}0\frac{1}{2}}$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}$	i	$2^{100}$	$Cm_{(2)}^{100}$	)	
0	(000)	0	0	0	0	0	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	0	0	1	0	$1\overline{1}00$		
		53.332	$P_cmna$		fication =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	2100	$2^{010}_{\frac{1}{2}00}*$	i	$2^{001}_{\frac{1}{2}00}$	$Cm_{(2)}^{100}$	)	
0	(000)	0	0	0	0	0	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	0	1	1	1	1100		
		53.333	$P_Amna$	Classi	fication =		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$i_{0\frac{1}{2}\frac{1}{2}}*$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}$		,	
0	(000)	0	0	0	0	0	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	1	1	0	0	1100		
- F77	1 1	53.334	$\frac{P_Bmna}{2^{010}*}$	Classi 2001*	$fication = \frac{i}{i}$	$\frac{\mathbb{Z}_M}{2^{100}}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$			$\frac{i}{2}$		(2)	,	
0	(000)	0	0	0	0	0	$\frac{2\overline{2}00}{2\overline{2}00}$		
$\frac{0}{1}$	(000)	1	1	1	1	0	$\frac{2200}{1\overline{1}00}$		
	(000)	53.335	$P_{Cmna}$		fication =		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\frac{33.333}{\{1 \frac{1}{2}\frac{1}{2}0\}*}$	$2^{001}_{0\frac{1}{2}\frac{1}{2}}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010} *$	i i	$\frac{2^{100}}{2^{100}}$	$\frac{R_{\rm BS} = \mathbb{Z}_2}{Cm_{(2)}^{100}}$	$\frac{51-z_{2P}}{}$	
0	(000)	0	$\frac{-0\frac{1}{2}\frac{1}{2}}{0}$	$\frac{-0\frac{1}{2}\frac{1}{2}}{0}$	0	0	$\frac{2\overline{200}}{2\overline{200}}$		
0	(000)	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$		
1	(000)	1	1	1	1	0	$1\overline{1}00$		
		53.336	$P_{I}mna$	Classit	fication =	- Z <sub>м</sub>	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}_{0\frac{1}{2}0}*$	$2^{010}_{0\frac{1}{2}0}*$	i	$\frac{-m}{2^{100}}$	$Cm_{(2)}^{100}$	)	
0	(000)	0	$\frac{0}{2}$ 0	$\frac{0}{2}$ 0	0	0	$2\overline{200}$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	1	1	1	0	$1\overline{1}00$		
		54.33		Classifi	ication =	$\mathbb{Z}_2$ X	$X_{\mathrm{BS}} = \mathbb{Z}_2$ S	$\mathrm{SI}=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}00}$	$2_{00\frac{1}{2}}^{010}$	i	$2^{100}_{\frac{1}{2}0\frac{1}{2}}$				
0	(000)	0	0	0	0				
1	(000)	0	0	1	0				
		54.342 Pa		ssification		$\mathbb{Z}_2$ X	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_{2,2}$	$SI = z_{2C}', z_{2D}'$	P
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{\frac{1}{2}00}$	$2^{010}_{00\frac{1}{2}}*$	i	$2^{100}_{\frac{1}{2}0\frac{1}{2}}*$				
00	(004)	0	0	0	0				
00	(000)	0	0	0	0				
01	(000)	0	1 1	1	1				
$\frac{10}{11}$	(002)	0	0	0	0				
	1 (002)	54.343			$\frac{0}{\text{ation} = \mathbb{Z}}$	7. y 7/2	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\frac{2^{001}_{\frac{1}{2}00}}{2^{001}_{\frac{1}{2}00}}$	$\frac{2^{010}}{2^{00\frac{1}{2}}}*$	$\frac{\text{Classific}}{i}$	$\frac{\text{ation} = \mathbb{Z}}{2^{100}_{\frac{1}{2}0\frac{1}{2}}}$	⊿ ∧ <i>∠</i> ⊔2	$\Lambda_{\rm BS} = \mathbb{Z}_2$	$\omega_1 - \omega_{2P}$	
$\frac{\mathbb{Z}_2}{0}$	(000)	$\frac{\frac{2\frac{1}{2}00}{0}}{0}$	$\frac{2_{00\frac{1}{2}}\pi}{0}$	0	$\frac{\frac{2}{2}0\frac{1}{2}}{0}$				
$\frac{0}{0}$	(200)	1	0	0	1				
$\frac{0}{1}$	(000)	1	1	1	0				
	<u>' ' '</u>	54.344 <i>Pc</i>	ca' Clas	ssificatio	$n = \mathbb{Z} \times \mathbb{Z}$	$\mathbb{Z}_2$ X1	$_{\mathrm{BS}}=\mathbb{Z}_{2,2}$	$SI = z_{2P,2}, z_2'$	o P
$\overline{\mathbb{Z}_{2,2}}$	weak	$\frac{2^{001}_{\frac{1}{2}00}*}{2^{001}_{\frac{1}{2}00}}*$	$2^{010}_{00\frac{1}{2}}$	$\frac{i}{i}$	$2^{100}_{\frac{1}{2}0\frac{1}{2}}*$			··· 21,2,~2	
00	$(0\bar{2}0)$	$\frac{\frac{1}{2}00}{0}$	$\frac{00_{\overline{2}}}{0}$	0	$\frac{\frac{1}{2}0^{\frac{1}{2}}}{0}$				
00	(000)	0	0	0	0				
01	(000)	1	0	1	1				
10	$(0\overline{1}0)$	0	0	0	0				
11	$ (0\overline{1}0)$	1	0	1	1				

		54.346	$P_acca$			$\mathbb{Z}_2 X_{BS} =$	$\mathbb{Z}_2$	SI =	$=z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}00\}*$	$2^{001}_{\frac{1}{2}00}$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}*$	$i_{\frac{1}{2}00}*$	$2^{100}_{00\frac{1}{2}}*$				
0	(000)	0	0	0	0	0				
1	(000)	1	0	1	0	1				
		54.347			ication =		$\mathbb{Z}_2$	SI =	$=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}0\}*$	$2^{001}_{\frac{1}{2}00}$	$2_{00\frac{1}{2}}^{010}$	i	$2^{100}_{\frac{1}{2}0\frac{1}{2}}$				
0	(000)	0	$\frac{\frac{1}{2}00}{0}$	$00^{\frac{1}{2}}$	0	$\frac{2^{0}2}{0}$				
$\frac{0}{1}$	(000)	1	0	0	1	0				
	(000)	54.348				$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}} =$	77	CT	/	
$\overline{\mathbb{Z}_2}$				2010*	$\frac{i \text{cation}}{i}$	$= \frac{\mathbb{Z}_2}{2^{100}}$	<u> </u>	51 =	$z_{2P}$	
	weak	$\{1 00\frac{1}{2}\}*$	$2^{001}_{\frac{1}{2}00}$			$2^{100}_{\frac{1}{2}00}*$				
0	(000)	0	0	0	0	0				
1	(000)	1	0	1	1	1				
		54.349			fication =	$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}} =$	$=\mathbb{Z}_2$	SI =	$=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$i_{0\frac{1}{2}\frac{1}{2}}*$	$2_{00\frac{1}{2}}^{010}$				
0	(000)	0	0	0	0	0 2				
1	(000)	1	1	1	0	0				
		54.350	$P_Bcca$	Classit	fication =	$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}}$ =	= Zo	SI =	$=z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$2_{00\frac{1}{2}}^{010}$	$2^{100}_{\frac{1}{2}0\frac{1}{2}}$	$i_{\frac{1}{2}0\frac{1}{2}}*$	$\frac{2^{001}}{2^{000}_{\frac{1}{2}00}}$		~-	·- 2P	
	(000)									
$\frac{0}{1}$	(000)	<u>0</u> 1	0	0	0	0				
	(000)						FT	O.		
		54.351	$P_Ccca$		fication =	$\mathbb{Z}_2$ $X_{BS} =$	$=\mathbb{Z}_2$	SI =	$=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}_{0\frac{1}{2}0}*$	$2^{100}_{0\frac{1}{2}\frac{1}{2}}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2_{00\frac{1}{2}}^{010}$				
0	(000)	0	0	0	0	0				
1	(000)	1	1	1	0	0				
		54.352	$P_Icca$	Classif	ication =	$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}} =$	$\mathbb{Z}_2$	SI =	$=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2_{00\frac{1}{2}}^{010}$	$2^{001}_{\frac{1}{2}00}$	i	$2^{100}_{0\frac{1}{2}0}*$				
0	(000)	0	$\frac{00_{\overline{2}}}{0}$	$\frac{\frac{1}{2}00}{0}$	0	$\frac{0}{2}$ 0				
$\frac{0}{1}$	(000)	1	0	0	1	1				
	/		-				CI	r	++	
-77		$\frac{55.353 Pb}{2^{001}}$	am Cla		$on = \mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_{2,3}$	2 5	L = z	$z_{2m,0}, z_{2m,\pi}$	
$\mathbb{Z}_{2,2}$	weak		$2^{010}_{\frac{1}{2}\frac{1}{2}0}$	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	$00\overline{2}2$				
01	(000)	0	0	1	0	0011				
10	(000)	0	0	1	0	$1\overline{1}00$				
11	(000)	0	0	0	0	$1\overline{1}1\overline{1}$				
	55.357		Classifica	ation = 2	$\mathbb{Z}_M^2  imes \mathbb{Z}$	$X_{BS} = \mathbb{Z}_{2,2}$	, <sub>2</sub> S	I = z	$z_{2m,0}^+, z_{2m,0}^-, z_{2m,1}^+$	τ
$\overline{\mathbb{Z}_{2,2,2}}$	weak	$2^{001}$	$2^{010}_{\frac{1}{2}\frac{1}{2}0}*$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$	$Cm_{(2)}^{001}$			, 0, 2110,1	·
000	$(00\overline{2})$	0	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	0	$\frac{\overline{2}\overline{2}^{0}}{0}$	$2\overline{4}0\overline{2}$				
000	(002)	0	0	0	0	0202				
000	(000)	0	0	0	0	$\frac{0202}{002\overline{2}}$				
000	(000)	0	0	0	0	$00\overline{2}2$				
001	(000)	0	1	1	1	0011				
010	(001)	0	1	1	1	0101				
011	(001)	0	0	0	0	0110				
100	$(00\overline{1})$	0	0	0	0	$1\overline{2}0\overline{1}$				
101	$(00\overline{1})$	0	1	1	1	$\frac{1\overline{2}\overline{1}\overline{2}}{1\overline{2}}$				
110	(000)	0	1	1	1	$\frac{1212}{1\overline{1}00}$				
111	(000)	0	0	0	0	1111				
	(550)							7. 0	T = ~'	
77	17700 le	$\frac{55.358}{2^{001}}*$	$\frac{Pb'am'}{2^{010}}$		$\frac{\text{cation} = 2}{2^{100}}$	$\!$	$_{\mathrm{S}}=\mathbb{Z}$	⊿2 S	$\mathrm{SI}=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak		$2^{010}_{\frac{1}{2}\frac{1}{2}0}$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$					
0	(000)	0	0	0	0					
0	(020)	0	1	0	1					
1	(000)	1	0	1	1					

	Ę	$55.360 P_a$	bam Cla	assification	$on = \mathbb{Z}_M^2$	$X_{BS} = \mathbb{Z}$	$G_{2,2}$ $SI =$	$z_{2m,0}^+, z_{2m,\pi}^+$	
$\overline{\mathbb{Z}_{2,2}}$	weak	$\{1 \frac{1}{2}00\}*$		$2^{001}_{\frac{1}{2}00}*$	i <sub>1/2</sub> 00*	$2^{010}_{\frac{1}{2}\frac{1}{2}0}$	$Cm_{(2)}^{001}$	2111,07 2111,11	
00	(000)	0	0	0	0	0	$2\overline{2}00$		
00	(000)	0	0	0	0	0	$002\overline{2}$		
00	(000)	0	0	0	0	0	$00\overline{2}2$		
01	(000)	1	1	1	0	0	0011		
10	(000)	1	1	1	0	0	$1\overline{1}00$		
11	(000)	0	0	0	0	0	1111		
777		55.361	$\frac{P_c bam}{2^{001}}$	Classific	$\frac{\text{cation} =}{i}$	$\frac{\mathbb{Z}_M  X_{BS}}{2^{100}}$	$=\mathbb{Z}_2$ SI	$=z_{2m,0}^{\scriptscriptstyle op}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$		$2^{010}_{\frac{1}{2}\frac{1}{2}0}$		$2^{100}_{\frac{1}{2}\frac{1}{2}0}$	$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}00}{2\overline{2}00}$		
$\frac{0}{1}$	(000)	0	0	0	0	0	$\frac{2\overline{2}00}{1\overline{1}00}$		
	(000)							+	
$\mathbb{Z}_2$	weak	55.362	$\frac{P_Abam}{2^{100}}$	2010	$\frac{\text{cation} = i}{i}$	$\frac{\mathbb{Z}_M  X_{BS}}{2^{001}}$	$\frac{= \mathbb{Z}_2 \text{ SI}}{Cm_{(2)}^{001}}$	$=z_{2m,0}$	
		$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}\frac{1}{2}0}$					
$\frac{0}{0}$	(000)	0	0	0	0	0	$\frac{2\overline{2}00}{2\overline{2}00}$		
$\frac{0}{1}$	(000)	1	0	0	1	0	$\frac{2200}{1\overline{1}00}$		
	/	$\frac{1}{65.363} P_C$						.+ .+	
$\overline{\mathbb{Z}_{2,2}}$	weak	$\frac{1}{1}\frac{1}{2}\frac{1}{2}0$	$\frac{bam}{2^{001}}$ Cla	$\frac{assificatio}{2^{010}*}$	$\frac{\mathrm{on} = \mathbb{Z}_M^2}{i}$	$X_{\rm BS} = \mathbb{Z}$ $2^{100}*$	$\frac{L_{2,2}  S1 = }{Cm_{(2)}^{001}}$	$z_{2m,0}^+, z_{2m,\pi}^+$	
$\frac{242,2}{00}$	(000)	$\frac{\{1 \frac{\pi}{2},\frac{\pi}{2}0\}^*}{0}$	0	0	0	0	$\frac{Cm_{(2)}}{2\overline{2}00}$		
00	(000)	0	0	0	0	0	$\frac{2200}{002\overline{2}}$		
00	(000)	0	0	0	0	0	$00\overline{2}2$		
01	(000)	1	0	1	1	1	$001\overline{1}$		
10	(000)	1	0	1	1	1	$1\overline{1}00$		
11	(000)	0	0	0	0	0	$1\overline{1}1\overline{1}$		
		55.364	$P_Ibam$		cation =	$\mathbb{Z}_M$ $X_{BS}$	$=\mathbb{Z}_2$ SI	$=z_{2m,0}^{+}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}$	$2^{010}_{00\frac{1}{2}}*$	i	$2^{100}_{00\frac{1}{2}}*$	$Cm_{(2)}^{001}$	=,v	
0	(000)	0	0	0	0	0	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	0	1	1	1	$1\overline{1}00$		
		56.36			ication =	$\mathbb{Z}_2$ $X_{\mathrm{BS}}$	$=\mathbb{Z}_2$ SI:	$=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}\frac{1}{2}}$	i	$2^{100}_{\frac{1}{2}0\frac{1}{2}}$				
0	(000)	0	0	0	0				
1	(000)	0	0	1	0				
		56.369 Pc	c'c'n Cla		on = $\mathbb{Z} \times$	$\mathbb{Z}_2$ $X_{\mathrm{BS}}$ :	$=\mathbb{Z}_{2,2}$ SI	$I=z_{2C}^{\prime},z_{2P}^{\prime}$	
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}\frac{1}{2}}*$	i	$2^{100}_{\frac{1}{2}0\frac{1}{2}}*$				
00	(004)	0	0	0	0				
00	(000)	0	0	0	0				
$\frac{01}{10}$	(000)	0	1	$\frac{1}{0}$	1				
$\frac{10}{11}$	(002)	0	0	1	0				
	( = = )	56.370	Pc'cn'		ation = 2	$\mathbb{Z}_{1} \times \mathbb{Z}_{12} = \mathbb{X}_{1}$	$_{\mathrm{BS}}=\mathbb{Z}_{2}$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\frac{2^{001}_{\frac{1}{2}\frac{1}{2}0}*}{2^{001}_{\frac{1}{2}\frac{1}{2}0}}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	i	$\frac{2^{100} - 2^{100}}{2^{100}_{\frac{1}{2}0^{\frac{1}{2}}}} *$		ا <u>44</u> 2 در	~- ~2P	
$\frac{-2}{0}$	(000)	$\frac{-\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{-0\frac{1}{2}\frac{1}{2}}{0}$	0	$\frac{-\frac{1}{2}0\frac{1}{2}}{0}$				
0	$(0\bar{2}0)$	1	$\frac{\sigma}{1}$	0	0				
1	(000)	1	0	1	1				
		56.372	$P_bccn$	Classif	ication =	$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}}$	$=\mathbb{Z}_2$ SI	$=z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}0\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2_{00\frac{1}{2}}^{010}*$	$i_{0\frac{1}{2}0}*$	$\frac{2^{100}}{2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}} *$		<del></del>	
0	(000)	0	$\frac{\overline{2}\overline{2}0}{0}$	0	0	$\frac{\overline{2}\ \overline{2}\ \overline{2}}{0}$			
1	(000)	1	0	1	0	1			
		56.373			ication =	$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}}$	$=\mathbb{Z}_2$ SI	$=z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}0}*$	i	$2^{100}_{\frac{1}{2}00}*$		<del></del>	
0	(000)	0	0	0	0	0			
1	(000)	1	0	1	1	1			

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{ c c c c c c c c c }\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 \\\hline 1 & (000) & 1 & 0 & 1 & 1 & 1 \\\hline & & & & & & & & & & & & & & & & & & $
$ \begin{array}{ c c c c c c }\hline & 56.375 & P_{c}ccn & Classification & \mathbb{Z}_{2} & X_{BS} & \mathbb{Z}_{2} & SI = z_{2P}' \\\hline \mathbb{Z}_{2} & weak & \{1 \frac{1}{2}\frac{1}{2}0\}* & 2_{\frac{1}{2}\frac{1}{2}0}^{10} & 2_{\frac{1}{2}\frac{1}{2}0}^{10}* & i_{\frac{1}{2}\frac{1}{2}0}* & 2_{0\frac{1}{2}\frac{1}{2}}^{10}* \\\hline \mathbb{Z}_{2} & weak & \{1 \frac{1}{2}\frac{1}{2}0\}* & 2_{\frac{1}{2}\frac{1}{2}0}^{10}* & i_{\frac{1}{2}\frac{1}{2}0}* & 2_{0\frac{1}{2}\frac{1}{2}}^{10}* \\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 \\\hline 1 & (000) & 1 & 0 & 1 & 0 & 1\\\hline & & 56.376 & P_{I}ccn & Classification & \mathbb{Z}_{2} & X_{BS} & \mathbb{Z}_{2} & SI & z_{2P}'\\\hline \mathbb{Z}_{2} & weak & \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}^{1}* & 2_{\frac{1}{2}0}^{10} & 2_{\frac{1}{2}0}^{10}* & i_{\frac{1}{2}\frac{1}{2}}^{1}* & 2_{\frac{1}{2}0}^{10}* & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0\\\hline 1 & (000) & 1 & 0 & 1 & 0 & 1\\\hline & & 57.377 & Pbcm & Classification & \mathbb{Z}_{M} & X_{BS} & \mathbb{Z}_{2} & SI & z_{2P}'\\\hline \mathbb{Z}_{2} & weak & 2_{00\frac{1}{2}}^{001} & 2_{0\frac{1}{2}}^{01} & i_{\frac{1}{2}\frac{1}{2}}^{1}* & 2_{0\frac{1}{2}0}^{10} & Cm_{(2)}^{001}\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 2200\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 2200\\\hline 1 & (000) & 0 & 0 & 1 & 0 & 1100\\\hline & & 57.382 & Pb'c'm & Classification & \mathbb{Z}_{M} \times \mathbb{Z} & X_{BS} & \mathbb{Z}_{2} & SI & z_{2P}'\\\hline \mathbb{Z}_{2} & weak & 2_{00\frac{1}{2}}^{001} & 2_{0\frac{1}{2}\frac{1}{2}}^{1}* & i_{\frac{1}{2}0\frac{10}{2}}^{10}* & Cm_{(2)}^{001}\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 2200\\\hline 0 & (002) & \overline{1} & 1 & 0 & 0 & 2011\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 2200\\\hline 1 & (000) & 0 & 1 & 1 & 1 & 1100\\\hline & & 57.383 & Pbc'm' & Classification & \mathbb{Z}_{N} \times \mathbb{Z}_{2} & X_{BS} & \mathbb{Z}_{2} & SI & z_{2P}, z_{2P}\\\hline \mathbb{Z}_{2} & weak & 2_{00\frac{1}{2}}^{001}* & 2_{0\frac{1}{2}\frac{1}{2}}^{1}* & i_{\frac{1}{2}\frac{1}{2}0}^{10}& Cm_{(2)}^{001}\\\hline & 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 1 & 1 & 1\\\hline 1 & (000) & 1 & 0 & 1\\\hline 1 & (000) & 1 & 0 & 1\\\hline 1 & 1 & 0 & 1\\\hline \end{array}$
$ \begin{array}{ c c c c c } \hline \mathbb{Z}_2 & \text{weak} & \{1 \frac{1}{2}\frac{1}{2}0\} * & 2\frac{201}{2}\frac{1}{2}0 & 2\frac{1}{2}0^{\frac{1}{2}} * & 2\frac{100}{12} * & 2\frac$
$ \begin{array}{ c c c c c } \hline \mathbb{Z}_2 & \text{weak} & \{1 \frac{1}{2}\frac{1}{2}0\} * & 2\frac{201}{2}\frac{1}{2}0 & 2\frac{1}{2}0^{\frac{1}{2}} * & 2\frac{100}{12} * & 2\frac$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{ c c c c c c }\hline & & & & & & & & & & & & & & & & & & &$
$\begin{array}{ c c c c c }\hline & 56.376 & P_{I}ccn & Classification = \mathbb{Z}_{2} & X_{BS} = \mathbb{Z}_{2} & SI = z'_{2P}\\\hline \mathbb{Z}_{2} & weak & \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* & 2\frac{001}{2}\frac{1}{2}0 & 2\frac{100}{2}0* & i\frac{1}{2}\frac{1}{2}\frac{1}{2}* & 2\frac{100}{0}0*\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0\\\hline 1 & (000) & 1 & 0 & 1 & 0 & 1\\\hline & & 57.377 & Pbcm & Classification = \mathbb{Z}_{M} & X_{BS} = \mathbb{Z}_{2} & SI = z'_{2P}\\\hline \mathbb{Z}_{2} & weak & 2\frac{001}{00\frac{1}{2}} & 2\frac{010}{0\frac{1}{2}} & i & 2\frac{100}{0\frac{1}{2}0} & Cm^{001}\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 2\overline{2}00\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 2\overline{2}00\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 2\overline{2}00\\\hline 0 & (000) & 0 & 0 & 1 & 0 & 1\overline{1}00\\\hline & & 57.382 & Pb'c'm & Classification = \mathbb{Z}_{M} \times \mathbb{Z} & X_{BS} = \mathbb{Z}_{2} & SI = z'_{2P}\\\hline \mathbb{Z}_{2} & weak & 2\frac{001}{00\frac{1}{2}} & 2\frac{010}{0\frac{1}{2}}* & i & 2\frac{100}{0\frac{1}{2}}0* & Cm^{001}\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00\\\hline 0 & (000) & 1 & 1 & 0 & 1\overline{1}00\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00\\\hline 1 & (000) & 0 & 1 & 1 & 1 & 1\overline{1}00\\\hline & 57.383 & Pbc'm' & Classification = \mathbb{Z}_{X} \times \mathbb{Z}_{2} & X_{BS} = \mathbb{Z}_{2} & SI = z_{2P,1}, z'_{2P}\\\hline \mathbb{Z}_{2,2} & weak & 2\frac{001}{00\frac{1}{3}}* & 2\frac{010}{0\frac{1}{2}\frac{1}{2}}* & i & 2\frac{100}{0\frac{1}{2}0}\\\hline 0 & (200) & 0 & 0 & 0 & 0\\\hline 0 & (200) & 0 & 0 & 0 & 0\\\hline 0 & (200) & 0 & 0 & 0 & 0\\\hline 0 & (200) & 0 & 0 & 0 & 0\\\hline 11 & (100) & 1 & 1 & 1 & 0\\\hline 10 & (100) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (000) & 0 & 1 & 0 & 1\\\hline 1 & (000) & 1 & 0 & 1 & 1\\\hline 1 & (000) & 1 & 0 & 1 & 1\\\hline 0 & 1 & 0 & 1\\\hline 0 & (000) & 0 & 0 & 0\\\hline 0 & (000) & 0 & 0 & 1\\\hline 0 & 1 & 0 & 1\\\hline 0 & (000) & 0 & 0 & 0\\\hline 0 & (000) & 0 & 1 & 0\\\hline 0 & 1 & 0 & 1\\\hline 1 & (000) & 1 & 0 & 1\\\hline 1 & (000) & 1 & 0 & 1\\\hline \end{array}$
$ \begin{array}{ c c c c c c }\hline \mathbb{Z}_2 & \text{weak } \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* & 2_{\frac{1}{2}0}^{001} & 2_{\frac{1}{2}0}^{010} * & i_{\frac{1}{2}\frac{1}{2}} * & 2_{0\frac{1}{2}0}^{100} * \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 0 \\ \hline 1 & (000) & 1 & 0 & 1 & 0 & 1 \\ \hline \hline & 57.377 & Pbcm & Classification & \mathbb{Z}_M & X_{BS} & \mathbb{Z}_2 & SI & z_{2P}' \\ \hline \mathbb{Z}_2 & \text{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} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 1 & (000) & 0 & 0 & 1 & 0 & 1100 \\ \hline \hline & 57.382 & Pb'c'm & Classification & \mathbb{Z}_M \times \mathbb{Z} & X_{BS} & \mathbb{Z}_2 & SI & z_{2P}' \\ \hline \mathbb{Z}_2 & \text{weak } & 2_{00\frac{1}{2}}^{011} & 2_{0\frac{1}{2}\frac{1}{2}}^{010} * & i & 2_{0\frac{1}{2}0}^{100} * & Cm_{(2)}^{001} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 0 & (000) & 1 & 1 & 1 & 1 & 1100 \\ \hline \hline & 57.383 & Pb'm' & Classification & \mathbb{Z} \times \mathbb{Z} & X_{BS} & \mathbb{Z}_{2,2} & SI & z_{2P,1}, z_{2P}' \\ \hline \mathbb{Z}_{2,2} & \text{weak } & 2_{00\frac{1}{2}}^{010} * & 2_{0\frac{1}{2}\frac{1}{2}}^{100} * & i & 2_{0\frac{1}{2}0}^{100} \\ \hline 0 & (200) & 0 & 0 & 0 & 0 & 0 \\ \hline 0 & (200) & 0 & 0 & 0 & 0 & 0 \\ \hline 0 & (200) & 0 & 0 & 0 & 0 & 0 \\ \hline 0 & (000) & 1 & 1 & 1 & 0 & 0 \\ \hline 1 & (100) & 1 & 1 & 1 & 0 & 0 \\ \hline \mathbb{Z}_2 & \text{weak } & 2_{00\frac{1}{2}}^{010} * & 2_{0\frac{1}{2}\frac{1}{2}}^{100} * & i & 2_{0\frac{1}{2}0}^{100} * \\ \hline \mathbb{Z}_2 & \text{weak } & 2_{00\frac{1}{2}}^{010} * & 2_{0\frac{1}{2}\frac{1}{2}}^{100} * & i & 2_{0\frac{1}{2}0}^{100} * \\ \hline \mathbb{Z}_2 & \text{weak } & 2_{00\frac{1}{2}}^{010} * & 2_{0\frac{1}{2}\frac{1}{2}}^{100} * & i & 2_{0\frac{1}{2}0}^{100} * \\ \hline \mathbb{Z}_2 & \text{weak } & 2_{00\frac{1}{2}}^{010} * & 2_{0\frac{1}{2}\frac{1}{2}}^{100} * & 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ \hline \mathbb{Z}_2 & \text{weak } & 2_{00\frac{1}{2}}^{010} * & 2_{0\frac{1}{2}\frac{1}{2}}^{100} * & 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ \hline \mathbb{Z}_2 & \text{weak } & 2_{00\frac{1}{2}}^{010} * & 2_{0\frac{1}{2}\frac{1}{2}}^{100} * & 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ \hline \mathbb{Z}_2 & \text{weak } & 2_{00\frac{1}{2}}^{010} * & 2_{00\frac{1}{2}}^{010} * & 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ \hline \mathbb{Z}_2 & \text{weak } & 2_{00\frac{1}{2$
$\begin{array}{ c c c c c c c c }\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 \\\hline 1 & (000) & 1 & 0 & 1 & 0 & 1 \\\hline & & & & & & & & & & & & & & & & & & $
$\begin{array}{ c c c c c c c c }\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 \\\hline 1 & (000) & 1 & 0 & 1 & 0 & 1 \\\hline & & & & & & & & & & & & & & & & & & $
$ \begin{array}{ c c c c c c }\hline & & 57.377 & Pbcm & Classification = \mathbb{Z}_M & X_{BS} = \mathbb{Z}_2 & SI = z'_{2P} \\\hline \mathbb{Z}_2 & weak & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} & Cm^{001}_{(2)} \\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 2\overline{2}00 \\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 2\overline{2}00 \\\hline 1 & (000) & 0 & 0 & 1 & 0 & 1\overline{1}00 \\\hline & & 57.382 & Pb'c'm & Classification = \mathbb{Z}_M \times \mathbb{Z} & X_{BS} = \mathbb{Z}_2 & SI = z'_{2P} \\\hline \mathbb{Z}_2 & weak & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} * & i & 2^{100}_{0\frac{1}{2}0} * & Cm^{001}_{(2)} \\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 2\overline{2}00 \\\hline 0 & (000) & 1 & 1 & 0 & 0 & 2011 \\\hline 0 & (000) & 0 & 0 & 0 & 0 & 2200 \\\hline 1 & (000) & 0 & 1 & 1 & 1 & 1\overline{1}00 \\\hline & 57.383 & Pbc'm' & Classification = \mathbb{Z} \times \mathbb{Z}_2 & X_{BS} = \mathbb{Z}_{2,2} & SI = z_{2P,1}, z'_{2P} \\\hline \mathbb{Z}_{2,2} & weak & 2^{001}_{00\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}\frac{1}{2}} * & i & 2^{100}_{0\frac{1}{2}0} \\\hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0 \\\hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0 \\\hline 01 & (000) & 1 & 1 & 1 & 0 \\\hline 10 & (\overline{1}00) & 0 & 0 & 0 & 0 \\\hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0 \\\hline & 57.384 & Pb'cm' & Classification = \mathbb{Z} \times \mathbb{Z}_2 & X_{BS} = \mathbb{Z}_2 & SI = z'_{2P} \\\hline \mathbb{Z}_2 & weak & 2^{001}_{00\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} * \\\hline 0 & (000) & 0 & 0 & 0 & 0 \\\hline 0 & (020) & 0 & \overline{1} & 0 & 1 \\\hline 1 & (000) & 1 & 0 & 1 & 1 \\\hline & 57.386 & P_abcm & Classification = \mathbb{Z}_M & X_{BS} = \mathbb{Z}_2 & SI = z'_{2P} \\\hline \mathbb{Z}_2 & weak & \{1 \frac{1}{2}00\} * & 2^{001}_{00\frac{1}{2}} & 2^{001}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} & Cm^{001}_{(2)} \\\hline \end{array}$
$ \begin{array}{ c c c c c } \hline \mathbb{Z}_2 & \text{weak} & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} & Cm^{001}_{(2)} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 1 & (000) & 0 & 0 & 1 & 0 & 1\overline{1}00 \\ \hline \hline & 57.382 & Pb'c'm & \text{Classification} & \mathbb{Z}_M \times \mathbb{Z} & X_{BS} & \mathbb{Z}_2 & \text{SI} & z'_{2P} \\ \hline \mathbb{Z}_2 & \text{weak} & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} * & i & 2^{100}_{0\frac{1}{2}0} * & Cm^{001}_{(2)} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 0 & (000) & 1 & 1 & 0 & 0 & 2011 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 1 & (000) & 0 & 1 & 1 & 1 & 1\overline{1}00 \\ \hline \hline & 57.383 & Pb'm' & \text{Classification} & \mathbb{Z} \times \mathbb{Z}_2 & X_{BS} & \mathbb{Z}_{2,2} & \text{SI} & z_{2P,1}, z'_{2P} \\ \hline \mathbb{Z}_{2,2} & \text{weak} & 2^{001}_{0\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}\frac{1}{2}} * & i & 2^{100}_{0\frac{1}{2}0} \\ \hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0 \\ \hline 01 & (000) & 1 & 1 & 1 & 0 \\ \hline 10 & (\overline{1}00) & 0 & 0 & 0 & 0 \\ \hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0 \\ \hline \hline & 57.384 & Pb'cm' & \text{Classification} & \mathbb{Z} \times \mathbb{Z}_2 & X_{BS} & \mathbb{Z}_2 & \text{SI} & z_{2P} \\ \hline \mathbb{Z}_2 & \text{weak} & 2^{001}_{00\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 \\ \hline 0 & (000) & 0 & 1 & 1 & 1 & 0 \\ \hline \hline & 57.384 & Pb'cm' & \text{Classification} & \mathbb{Z} \times \mathbb{Z}_2 & X_{BS} & \mathbb{Z}_2 & \text{SI} & z'_{2P} \\ \hline \mathbb{Z}_2 & \text{weak} & 2^{001}_{0\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} * \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 0 \\ \hline 0 & (000) & 0 & 1 & 0 & 1 & 1 \\ \hline 1 & (000) & 1 & 0 & 1 & 1 & 1 \\ \hline \hline & 57.386 & P_abcm & \text{Classification} & \mathbb{Z}_M X_{BS} & \mathbb{Z}_2 & \text{SI} & z'_{2P} \\ \hline \mathbb{Z}_2 & \text{weak} & \{1 \frac{1}{2}00\} * & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} & Cm^{001} \\ \hline \end{array}$
$ \begin{array}{ c c c c c } \hline \mathbb{Z}_2 & \text{weak} & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} & Cm^{001}_{(2)} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 1 & (000) & 0 & 0 & 1 & 0 & 1\overline{1}00 \\ \hline \hline & 57.382 & Pb'c'm & \text{Classification} & \mathbb{Z}_M \times \mathbb{Z} & X_{BS} & \mathbb{Z}_2 & \text{SI} & z'_{2P} \\ \hline \mathbb{Z}_2 & \text{weak} & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} * & i & 2^{100}_{0\frac{1}{2}0} * & Cm^{001}_{(2)} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 0 & (000) & 1 & 1 & 0 & 0 & 2011 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 1 & (000) & 0 & 1 & 1 & 1 & 1\overline{1}00 \\ \hline \hline & 57.383 & Pb'm' & \text{Classification} & \mathbb{Z} \times \mathbb{Z}_2 & X_{BS} & \mathbb{Z}_{2,2} & \text{SI} & z_{2P,1}, z'_{2P} \\ \hline \mathbb{Z}_{2,2} & \text{weak} & 2^{001}_{0\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}\frac{1}{2}} * & i & 2^{100}_{0\frac{1}{2}0} \\ \hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0 \\ \hline 01 & (000) & 1 & 1 & 1 & 0 \\ \hline 10 & (\overline{1}00) & 0 & 0 & 0 & 0 \\ \hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0 \\ \hline \hline & 57.384 & Pb'cm' & \text{Classification} & \mathbb{Z} \times \mathbb{Z}_2 & X_{BS} & \mathbb{Z}_2 & \text{SI} & z_{2P} \\ \hline \mathbb{Z}_2 & \text{weak} & 2^{001}_{00\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 \\ \hline 0 & (000) & 0 & 1 & 1 & 1 & 0 \\ \hline \hline & 57.384 & Pb'cm' & \text{Classification} & \mathbb{Z} \times \mathbb{Z}_2 & X_{BS} & \mathbb{Z}_2 & \text{SI} & z'_{2P} \\ \hline \mathbb{Z}_2 & \text{weak} & 2^{001}_{0\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} * \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 0 \\ \hline 0 & (000) & 0 & 1 & 0 & 1 & 1 \\ \hline 1 & (000) & 1 & 0 & 1 & 1 & 1 \\ \hline \hline & 57.386 & P_abcm & \text{Classification} & \mathbb{Z}_M X_{BS} & \mathbb{Z}_2 & \text{SI} & z'_{2P} \\ \hline \mathbb{Z}_2 & \text{weak} & \{1 \frac{1}{2}00\} * & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} & Cm^{001} \\ \hline \end{array}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{ c c c c c c c }\hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 1 & (000) & 0 & 0 & 1 & 0 & 1\overline{1}00 \\ \hline & 57.382 & Pb'c'm & Classification = $\mathbb{Z}_M \times \mathbb{Z}$ & $X_{\rm BS} = $\mathbb{Z}_2$ & $SI = z'_{2P}$ \\ \hline $\mathbb{Z}_2$ & weak & $2^{001}_{00\frac{1}{2}}$ & $2^{010}_{0\frac{1}{2}\frac{1}{2}}*$ & $i$ & $2^{100}_{0\frac{1}{2}0}*$ & $Cm^{001}_{00}$ \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 0 & (00\overline{2}) & \overline{1} & 1 & 0 & 0 & 2011 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 1 & (000) & 0 & 1 & 1 & 1 & 1\overline{1}00 \\ \hline & 57.383 & Pbc'm' & Classification = $\mathbb{Z} \times \mathbb{Z}_2$ & $X_{\rm BS} = \mathbb{Z}_{2,2}$ & $SI = z_{2P,1}, z'_{2P}$ \\ \hline $\mathbb{Z}_{2,2}$ & weak & $2^{001}_{00\frac{1}{2}}*$ & $2^{010}_{0\frac{1}{2}\frac{1}{2}}*$ & $i$ & $2^{100}_{0\frac{1}{2}0}$ \\ \hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0 \\ \hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0 \\ \hline 01 & (000) & 1 & 1 & 1 & 0 \\ \hline 10 & (\overline{1}00) & 0 & 0 & 0 & 0 \\ \hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0 \\ \hline \hline $27.384$ & $Pb'cm'$ & Classification = $\mathbb{Z} \times \mathbb{Z}_2$ & $X_{\rm BS} = \mathbb{Z}_2$ & $SI = z'_{2P}$ \\ \hline $\mathbb{Z}_2$ & weak & $2^{001}_{00\frac{1}{2}}*$ & $2^{010}_{0\frac{1}{2}}*$ & $i$ & $2^{100}_{0\frac{1}{2}}*$ \\ \hline $2^{01}_{000}*$ & $0$ & 0 & 0 & 0 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 \\ \hline 0 & (000) & 0 & \overline{1} & 0 & 1 \\ \hline 1 & (000) & 1 & 0 & \overline{1} & 1 \\ \hline \hline $27.386$ & $P_abcm$ & Classification = $\mathbb{Z}_M$ & $X_{\rm BS} = \mathbb{Z}_2$ & $SI = z'_{2P}$ \\ \hline $\mathbb{Z}_2$ & weak & $\{1 \frac{1}{2}00\}*$ & $2^{001}_{0\frac{1}{2}}$ & $2^{010}_{0\frac{1}{2}}$ & $i$ & $2^{100}_{0\frac{1}{2}}$ & $Cm^{001}_{02}$ \\ \hline \hline $2$ & weak & $\{1 \frac{1}{2}00\}*$ & $2^{001}_{0\frac{1}{2}}$ & $2^{010}_{0\frac{1}{2}}$ & $i$ & $2^{100}_{0\frac{1}{2}}$ & $Cm^{001}_{02}$ \\ \hline \hline $2$ & weak & $\{1 \frac{1}{2}00\}*$ & $2^{001}_{0\frac{1}{2}}$ & $2^{010}_{0\frac{1}{2}}$ & $i$ & $2^{100}_{0\frac{1}{2}}$ & $Cm^{001}_{02}$ \\ \hline \hline $2$ & weak & $\{1 \frac{1}{2}00\}*$ & $2^{001}_{0\frac{1}{2}}$ & $2^{010}_{0\frac{1}{2}}$ & $i$ & $2^{100}_{00}$ & $Cm^{001}_{02}$ \\ \hline \hline $2$ & $2^{00}_{0\frac{1}{2}}$ & $2^{001}_{0\frac{1}{2}}$ & $i$ & $2^{100}_{00}$ & $Cm^{001}_{02}$ \\ \hline \hline $2$ & $0$ & $1$ & $1$ & $1$ & $1$ \\ \hline \hline $2$ & $0$ & $1$ & $1$ & $1$ \\ \hline \hline $2$ & $0$ & $1$ & $1$ & $1$ \\ \hline $
$\begin{array}{ c c c c c c }\hline 1 & (000) & 0 & 0 & 1 & 0 & 1\overline{100} \\ \hline & 57.382 & Pb'c'm & Classification = \mathbb{Z}_M \times \mathbb{Z} & X_{BS} = \mathbb{Z}_2 & SI = z'_{2P} \\ \hline \mathbb{Z}_2 & weak & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}}* & i & 2^{100}_{0\frac{1}{2}0}* & Cm^{001}_{(2)} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 0 & (000) & \overline{1} & 1 & 0 & 0 & 2011 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 1 & (000) & 0 & 1 & 1 & 1 & 1100 \\ \hline \hline & 57.383 & Pbc'm' & Classification = \mathbb{Z} \times \mathbb{Z}_2 & X_{BS} = \mathbb{Z}_{2,2} & SI = z_{2P,1}, z'_{2P} \\ \hline \mathbb{Z}_{2,2} & weak & 2^{001}_{00\frac{1}{2}}* & 2^{010}_{0\frac{1}{2}\frac{1}{2}}* & i & 2^{100}_{0\frac{1}{2}0} \\ \hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0 \\ \hline 01 & (000) & 1 & 1 & 1 & 0 \\ \hline 10 & (\overline{1}00) & 0 & 0 & 0 & 0 \\ \hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0 \\ \hline \hline & 57.384 & Pb'cm' & Classification = \mathbb{Z} \times \mathbb{Z}_2 & X_{BS} = \mathbb{Z}_2 & SI = z'_{2P} \\ \hline \mathbb{Z}_2 & weak & 2^{001}_{0\frac{1}{2}}* & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0}* \\ \hline \mathbb{Z}_2 & weak & 2^{001}_{00\frac{1}{2}}* & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0}* \\ \hline \mathbb{Z}_2 & weak & 2^{001}_{00\frac{1}{2}}* & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0}* \\ \hline 0 & (000) & 0 & \overline{1} & 0 & 1 \\ \hline 1 & (000) & 1 & 0 & \overline{1} & 1 & 1 \\ \hline \hline & 57.386 & P_abcm & Classification = \mathbb{Z}_M & X_{BS} = \mathbb{Z}_2 & SI = z'_{2P} \\ \hline \mathbb{Z}_2 & weak & \{1 \frac{1}{2}00\}* & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} & Cm^{001}_{(2)} \\ \hline \end{array}$
$ \begin{array}{ c c c c c c }\hline & 57.382 & Pb'c'm & Classification = \mathbb{Z}_M \times \mathbb{Z} & X_{BS} = \mathbb{Z}_2 & SI = z'_{2P}\\\hline \mathbb{Z}_2 & weak & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}}* & i & 2^{100}_{0\frac{1}{2}0}* & Cm^{001}_{(2)}\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00\\\hline 0 & (00\overline{2}) & \overline{1} & 1 & 0 & 0 & 2011\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00\\\hline 1 & (000) & 0 & 1 & 1 & 1 & 1\overline{1}00\\\hline & 57.383 & Pbc'm' & Classification = \mathbb{Z} \times \mathbb{Z}_2 & X_{BS} = \mathbb{Z}_{2,2} & SI = z_{2P,1}, z'_{2P}\\\hline \mathbb{Z}_{2,2} & weak & 2^{001}_{00\frac{1}{2}}* & 2^{010}_{0\frac{1}{2}\frac{1}{2}}* & i & 2^{100}_{0\frac{1}{2}0}\\\hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0\\\hline 01 & (000) & 1 & 1 & 1 & 0\\\hline 00 & (000) & 0 & 0 & 0 & 0\\\hline 01 & (000) & 1 & 1 & 1 & 0\\\hline 10 & (\overline{1}00) & 0 & 0 & 0 & 0\\\hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0\\\hline \mathbb{Z}_2 & weak & 2^{001}_{00\frac{1}{2}}* & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0}*\\\hline \mathbb{Z}_2 & weak & 2^{001}_{00\frac{1}{2}}* & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0}*\\\hline \mathbb{Z}_2 & weak & 2^{001}_{00\frac{1}{2}}* & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0}*\\\hline 0 & (000) & 0 & \overline{1} & 0 & 1\\\hline 1 & (000) & 1 & 0 & 1 & 1\\\hline \end{array}$
$ \begin{array}{ c c c c c c }\hline \mathbb{Z}_2 & \text{weak} & 2^{00\frac{1}{2}}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}} * & i & 2^{100}_{0\frac{1}{2}} * & Cm^{001}_{(2)}\\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00\\ \hline 0 & (00\overline{2}) & \overline{1} & 1 & 0 & 0 & 2011\\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00\\ \hline 1 & (000) & 0 & 1 & 1 & 1 & 1\overline{1}00\\ \hline \hline & 57.383 & Pbc'm' & \text{Classification} & = \mathbb{Z} \times \mathbb{Z}_2 & \mathbb{X}_{BS} & \mathbb{Z}_{2,2} & \text{SI} & = z_{2P,1}, z'_{2P}\\ \hline \mathbb{Z}_{2,2} & \text{weak} & 2^{001}_{00\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}\frac{1}{2}} * & i & 2^{100}_{0\frac{1}{2}0}\\ \hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0\\ \hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0\\ \hline 01 & (000) & 1 & 1 & 1 & 0\\ \hline 10 & (\overline{1}00) & 0 & 0 & 0 & 0\\ \hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0\\ \hline \hline & 57.384 & Pb'cm' & \text{Classification} & = \mathbb{Z} \times \mathbb{Z}_2 & \mathbb{X}_{BS} & \mathbb{Z}_2 & \text{SI} & = z'_{2P}\\ \hline \mathbb{Z}_2 & \text{weak} & 2^{001}_{00\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} *\\ \hline 0 & (000) & 0 & 0 & 0 & 0\\ \hline 0 & (000) & 0 & 0 & 0 & 0\\ \hline 0 & (0\overline{2}0) & 0 & \overline{1} & 0 & 1\\ \hline 1 & (000) & 1 & 0 & 1 & 1\\ \hline \hline & 57.386 & P_abcm & \text{Classification} & \mathbb{Z}_M & \mathbb{X}_{BS} & \mathbb{Z}_2 & \text{SI} & = z'_{2P}\\ \hline \mathbb{Z}_2 & \text{weak} & \{1 \frac{1}{2}00\} * & 2^{001}_{0\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} & Cm^{001}_{(2)}\\ \hline \end{array}$
$\begin{array}{ c c c c c c c c }\hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 0 & (00\overline{2}) & \overline{1} & 1 & 0 & 0 & 2011 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 1 & (000) & 0 & 1 & 1 & 1 & 1\overline{1}00 \\ \hline \hline & 57.383 & Pbc'm' & Classification & & & & & & & & & & & & & & & & & & &$
$\begin{array}{ c c c c c c c c }\hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 0 & (00\overline{2}) & \overline{1} & 1 & 0 & 0 & 2011 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\ \hline 1 & (000) & 0 & 1 & 1 & 1 & 1\overline{1}00 \\ \hline \hline & 57.383 & Pbc'm' & Classification & & & & & & & & & & & & & & & & & & &$
$\begin{array}{ c c c c c c c }\hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00 \\\hline 1 & (000) & 0 & 1 & 1 & 1 & 1\overline{1}00 \\\hline & & & & & & & & & & & & & & & & & & $
$ \begin{array}{ c c c c c c }\hline 1 & (000) & 0 & 1 & 1 & 1 & 1\overline{100} \\ \hline & & 57.383 & Pbc'm' & \text{Classification} &= \mathbb{Z} \times \mathbb{Z}_2 & X_{\text{BS}} &= \mathbb{Z}_{2,2} & \text{SI} &= z_{2P,1}, z_{2P}' \\ \hline \mathbb{Z}_{2,2} & \text{weak} & 2_{00\frac{1}{2}}^{001} * & 2_{0\frac{1}{2}\frac{1}{2}}^{010} * & i & 2_{0\frac{1}{2}0}^{100} \\ \hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0 \\ \hline 00 & (000) & 0 & 0 & 0 & 0 \\ \hline 01 & (000) & 1 & 1 & 1 & 0 \\ \hline 10 & (\overline{1}00) & 0 & 0 & 0 & 0 \\ \hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0 \\ \hline \hline & & 57.384 & Pb'cm' & \text{Classification} &= \mathbb{Z} \times \mathbb{Z}_2 & X_{\text{BS}} &= \mathbb{Z}_2 & \text{SI} &= z_{2P}' \\ \hline \mathbb{Z}_2 & \text{weak} & 2_{00\frac{1}{2}}^{001} * & 2_{0\frac{1}{2}\frac{1}{2}}^{010} & i & 2_{0\frac{1}{2}0}^{100} * \\ \hline & & & & & & & & & & & & & & & & & &$
$\begin{array}{ c c c c c c }\hline \mathbb{Z}_{2,2} & \text{weak} & 2^{001}_{00\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}1} * & i & 2^{100}_{0\frac{1}{2}0}\\\hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0\\\hline 00 & (000) & 0 & 0 & 0 & 0\\\hline 01 & (000) & 1 & 1 & 1 & 0\\\hline 10 & (\overline{1}00) & 0 & 0 & 0 & 0\\\hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0\\\hline\hline & & 57.384 & Pb'cm' & \text{Classification} = \mathbb{Z} \times \mathbb{Z}_2 & X_{\text{BS}} = \mathbb{Z}_2 & \text{SI} = z'_{2P}\\\hline \mathbb{Z}_2 & \text{weak} & 2^{001}_{00\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} *\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (0\overline{2}0) & 0 & \overline{1} & 0 & 1\\\hline 1 & (000) & 1 & 0 & 1 & 1\\\hline\hline \mathbb{Z}_2 & \text{weak} & \{1 \frac{1}{2}00\} * & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} & Cm^{001}_{(2)}\\\hline \end{array}$
$\begin{array}{ c c c c c c }\hline \mathbb{Z}_{2,2} & \text{weak} & 2^{001}_{00\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}1} * & i & 2^{100}_{0\frac{1}{2}0}\\\hline 00 & (\overline{2}00) & 0 & 0 & 0 & 0\\\hline 00 & (000) & 0 & 0 & 0 & 0\\\hline 01 & (000) & 1 & 1 & 1 & 0\\\hline 10 & (\overline{1}00) & 0 & 0 & 0 & 0\\\hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0\\\hline\hline & & 57.384 & Pb'cm' & \text{Classification} = \mathbb{Z} \times \mathbb{Z}_2 & X_{\text{BS}} = \mathbb{Z}_2 & \text{SI} = z'_{2P}\\\hline \mathbb{Z}_2 & \text{weak} & 2^{001}_{00\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} *\\\hline 0 & (000) & 0 & 0 & 0 & 0\\\hline 0 & (0\overline{2}0) & 0 & \overline{1} & 0 & 1\\\hline 1 & (000) & 1 & 0 & 1 & 1\\\hline\hline \mathbb{Z}_2 & \text{weak} & \{1 \frac{1}{2}00\} * & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} & Cm^{001}_{(2)}\\\hline \end{array}$
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$\begin{array}{ c c c c c c c c c }\hline 01 & (000) & 1 & 1 & 1 & 0 \\ \hline 10 & (\overline{1}00) & 0 & 0 & 0 & 0 \\ \hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0 \\ \hline & & & & & & & & & & & & \\ \hline & & & &$
$\begin{array}{ c c c c c c c c }\hline 10 & (\overline{1}00) & 0 & 0 & 0 & 0 \\ \hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0 \\ \hline & & & 57.384 & Pb'cm' & Classification = \mathbb{Z} \times \mathbb{Z}_2 & X_{BS} = \mathbb{Z}_2 & SI = z'_{2P} \\ \hline \mathbb{Z}_2 & weak & 2^{001}_{00\frac{1}{2}} * & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} * \\ \hline 0 & (000) & 0 & 0 & 0 & 0 \\ \hline 0 & (0\overline{2}0) & 0 & \overline{1} & 0 & 1 \\ \hline 1 & (000) & 1 & 0 & 1 & 1 \\ \hline \hline & & 57.386 & P_abcm & Classification = \mathbb{Z}_M & X_{BS} = \mathbb{Z}_2 & SI = z'_{2P} \\ \hline \mathbb{Z}_2 & weak & \{1 \frac{1}{2}00\} * & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} & Cm^{001}_{(2)} \\ \hline \end{array}$
$ \begin{array}{ c c c c c c c c }\hline 11 & (\overline{1}00) & 1 & 1 & 1 & 0 \\ \hline & & & & & & & & & & & & & & & & & &$
$ \begin{array}{ c c c c c c c }\hline \mathbb{Z}_2 & \text{weak} & 2^{001}_{00\frac{1}{2}}* & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0}* \\ \hline 0 & (000) & 0 & 0 & 0 & 0 \\ \hline 0 & (0\overline{2}0) & 0 & \overline{1} & 0 & 1 \\ \hline 1 & (000) & 1 & 0 & 1 & 1 \\ \hline \hline & & 57.386 & P_abcm & \text{Classification} = \mathbb{Z}_M & \mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_2 & \mathrm{SI} = z'_{2P} \\ \hline \mathbb{Z}_2 & \mathrm{weak} & \{1 \frac{1}{2}00\}* & 2^{001}_{00\frac{1}{2}} & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i & 2^{100}_{0\frac{1}{2}0} & Cm^{001}_{(2)} \\ \hline \end{array} $
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$\mathbb{Z}_2$ weak $\{1 \frac{1}{2}00\}*$ $2_{00\frac{1}{2}}^{001}$ $2_{0\frac{1}{2}\frac{1}{2}}^{010}$ $i$ $2_{0\frac{1}{2}0}^{100}$ $Cm_{(2)}^{001}$
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57.387 $P_bbcm$ Classification = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$1  (000)  1  1  0  0  1  1\overline{1}00$
57.388 $P_cbcm$ Classification = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$
$\mathbb{Z}_2$ weak $\{1 00\frac{1}{2}\}*\ 2^{100}_{0\frac{1}{2}\frac{1}{2}}*\ 2^{001}*\ i_{00\frac{1}{2}}*\ 2^{010}_{0\frac{1}{2}\frac{1}{2}}$ $Cm^{001}_{(2)}$
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$ \begin{array}{ c c c c c c c c }\hline \mathbb{Z}_2 & \text{weak} & \{1 00\frac{1}{2}\}* & 2^{100}_{0\frac{1}{2}}* & 2^{001}* & i_{00\frac{1}{2}}* & 2^{010}_{0\frac{1}{2}} & Cm^{001}_{(2)}\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 2\overline{2}00\\\hline 1 & (000) & 1 & 1 & 1 & 0 & 0 & 1\overline{1}00\\\hline \hline & & & 57.389 & P_{Abcm} & \text{Classification} & \mathbb{Z}_M & \mathbf{X}_{\mathrm{BS}} & \mathbb{Z}_2 & \mathrm{SI} & \mathbf{z}'_{2P}\\\hline \mathbb{Z}_2 & \mathrm{weak} & \{1 0\frac{1}{2}\frac{1}{2}\}* & 2^{100}_{00\frac{1}{2}}* & 2^{010}_{0\frac{1}{2}\frac{1}{2}} & i_{0\frac{1}{2}\frac{1}{2}}* & 2^{001}_{0\frac{1}{2}0}* & Cm^{001}_{(2)}\\\hline \end{array} $
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1	(000)	1	1	0	0	1	1100		
	(000)	57.390	$P_Bbcm$				$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2$ S	$SI = z'_{2D}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	2 <sup>100</sup> / <sub>1/2</sub> *	$i_{\frac{1}{2}0\frac{1}{2}}*$	$\frac{2^{001}}{2^{001}}*$	$\frac{Cm_{(2)}^{001}}{Cm_{(2)}^{001}}$	~2P	
	(000)	0	$0^{\frac{1}{2}\frac{1}{2}}$	$\frac{\overline{2}  \overline{2}  \overline{2}}{0}$	$\frac{\overline{2}}{0}$	$\frac{-\frac{1}{2}00}{0}$	$\overline{2\overline{200}}$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	0	1	0	1	$1\overline{1}00$		
		57.391	$P_Cbcm$	Classif	fication =	$\mathbb{Z}_M$ X	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2$ S	$\mathrm{I}=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2^{100}_{0\frac{1}{2}0}$	$Cm_{(2)}^{001}$	21	
0	(000)	0	$\frac{222}{0}$	$\frac{202}{0}$	0	0	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	1	1	0	0	$1\overline{1}00$		
		57.392		Classif	ication =	$\mathbb{Z}_M$ X	$I_{BS} = \mathbb{Z}_2$ S	$I = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$2^{010}_{\frac{1}{2}00}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{100}_{0\frac{1}{2}0}$	$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	1	1	0	0	$1\overline{1}00$		
		58.393			ication =		$\mathbb{I}_{\mathrm{BS}} = \mathbb{Z}_2$ S	$I=z_{2P}'$	
$\mathbb{Z}_2$	weak	$2^{001}$	$2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$Cm_{(2)}^{001}$			
0	(000)	0	0	0	0	$2\overline{2}00$			
0	(000)	0	0	0	0	$2\overline{2}00$			
1	(000)	0	0	1	0	$1\overline{1}00$			
	58.3	397 Pn'n'	m Class		$\mathbf{n} = \mathbb{Z}_M \times$	$\mathbb{Z}$ $X_{BS}$	$S = \mathbb{Z}_{2,2}$ Si	$I=z_{2m,0}^+,z_{2m,\pi}^+$	
$\mathbb{Z}_{2,2}$	weak	$2^{001}$	$2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$Cm_{(2)}^{001}$			
00	(000)	0	0	0	0	$2\overline{2}00$			
00	(004)	0	0	0	0	4022			
00	(000)	0	0	0	0	$2\overline{2}00$			
$\frac{01}{10}$	(002)	0	0	1	$\frac{0}{1}$	$\frac{2011}{1\overline{1}00}$			
11	(000)	0	1	0	1	$\frac{1100}{3\overline{1}11}$			
	(002)	0				0111		GT /	
		58 308	Pnn'm'	Classifi	ration — '	7. × 7.0	$\mathbf{Y}_{\mathrm{DG}} - \mathbb{Z}_{\mathrm{G}}$	SI — ~'	
$\mathbb{Z}_2$	weak	58.398 2 <sup>001</sup> *	$\frac{Pnn'm'}{2^{010}}$ *		$ \begin{array}{c} \text{cation} = 2 \\ 2_{111}^{100} \end{array} $	$\mathbb{Z} \times \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\frac{\mathbb{Z}_2}{0}$	weak	2001*	$2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\mathbb{Z}  imes \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
0	(000)	$2^{001}*$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \end{array}$	<i>i</i> 0	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \end{array} $	$\mathbb{Z}  imes \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2P}$	
		2001*	$2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\mathbb{Z}  imes \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2P}$	
0	$(000)$ $(\overline{2}00)$	2 <sup>001</sup> *  0 0 1	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010} * \\ 0 \\ 1 \\ 1 \end{array} $	i 0 0 1	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ \underline{0} \\ \hline 1 \\ 0 \end{array} $				
0	$(000)$ $(\overline{2}00)$	2 <sup>001</sup> * 0 0 1 58.400	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010} * \\ 0 \\ 1 \\ 1 \\ P_a nnm \end{array} $	i 0 0 1 Classi:	$   \begin{array}{r}     2\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\     0 \\     \hline     1 \\     0 \\     \hline     fication =   \end{array} $	$\mathbb{Z}_M$ $X$	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2$ . S		
$ \begin{array}{c} 0 \\ 0 \\ 1 \end{array} $ $ \mathbb{Z}_{2}$	$(000)$ $(\overline{2}00)$ $(000)$ weak	$ \begin{array}{c} 2^{001}*\\ 0\\ 0\\ 1\\ 58.400\\ \{1 \frac{1}{2}00\}* \end{array} $	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}} * \\ 0 \\ 1 \\ 1 \\ \hline P_a nnm \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \end{array}$	$\begin{array}{c} i \\ 0 \\ 0 \\ 1 \\ \hline \text{Classi:} \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \end{array}$	$ \frac{2\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}}{0} $ $ \frac{1}{0} $ fication = $i_{\frac{1}{2}00}*$		$X_{ m BS} = \mathbb{Z}_2$ $S_{ m C} = S_{ m C} = S_{ m C}$		
0 0 1	$(000)$ $(\overline{2}00)$ $(000)$	2 <sup>001</sup> * 0 0 1 58.400	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{010} * \\ 0 \\ 1 \\ 1 \\ P_a nnm \end{array} $	i 0 0 1 Classi:	$   \begin{array}{r}     2\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\     0 \\     \hline     1 \\     0 \\     \hline     fication =   \end{array} $	$\frac{\mathbb{Z}_{M}}{2^{001}_{rac{1}{2}00}} \times$	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2$ . S		
$ \begin{array}{c} 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c} \mathbb{Z}_2 \\ 0 \end{array} $	$(000)$ $(\overline{2}00)$ $(000)$ weak $(000)$	$ \begin{array}{c} 2^{001}*\\ 0\\ 0\\ 1\\ 58.400\\ \{1 \frac{1}{2}00\}*\\ 0 \end{array} $	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}} * \\ 0 \\ 1 \\ 1 \\ \hline P_annm \\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ \end{array}$	$i \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} 2\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}{\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \end{array} $ fication = $ i_{\frac{1}{2}00}* $	$\frac{\mathbb{Z}_{M}}{2\frac{1}{2}00}$ $\times$	$X_{\rm BS} = \mathbb{Z}_2$ $Cm_{(2)}^{001}$ $\overline{2200}$		
$ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \end{array} $	$(000)$ $(\overline{2}00)$ $(000)$ weak $(000)$ $(000)$	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $0$ $1$ $58.401$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ \hline P_annm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline P_cnnm\\ \end{array}$		$ \begin{array}{c} 2\frac{100}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}{\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ \text{fication} = \\ i_{\frac{1}{2}00}* \\ 0 \\ 0 \end{array} $	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{align*} Z_{ m BS} &= \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} & 2\overline{2}00 \\ \hline 2\overline{2}00 & 1\overline{1}00 \\ \hline Z_{ m BS} &= \mathbb{Z}_2 & S \\ \hline \end{array}$		
$ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \end{array} $	$(000)$ $(\overline{2}00)$ $(000)$ weak $(000)$ $(000)$	$ \begin{array}{c} 2^{001}*\\ 0\\ 0\\ 1\\ \hline 58.400\\ \{1 \frac{1}{2}00\}*\\ 0\\ 0\\ 1 \end{array} $	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ \hline P_annm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \end{array}$	$i \\ 0 \\ 0 \\ 1 \\ Classi: \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 1$	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} \\ 0 \\ \hline 1 \\ 0 \\ \hline 6cation = \\ i_{\frac{1}{2}00}* \\ 0 \\ 0 \\ 0 \end{array} $	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\overline{L}_{\mathrm{BS}} = \overline{\mathbb{Z}}_2$ $\overline{S}$ $Cm_{(2)}^{001}$ $\overline{2200}$ $\overline{2200}$ $\overline{1100}$	$\mathrm{SI}=z_{2P}^{\prime}$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $	(000) (200) (000) (000) (000) (000) (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $0$ $1$ $58.401$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ \hline P_annm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline P_cnnm\\ \end{array}$		$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{100}{2}} \\ 0 \\ \hline 1 \\ 0 \\ \text{fication} = \\ i_{\frac{1}{2}00}* \\ 0 \\ 0 \\ 0 \\ \text{fication} = \\ \end{array} $	$ \begin{array}{c c} \mathbb{Z}_{M} & X \\ \hline 2^{001}_{\frac{1}{2}00} * \\ 0 \\ 0 \\ 1 \end{array} $	$egin{align*} Z_{ m BS} &= \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} & 2\overline{2}00 \\ \hline 2\overline{2}00 & 1\overline{1}00 \\ \hline Z_{ m BS} &= \mathbb{Z}_2 & S \\ \hline \end{array}$	$\mathrm{SI}=z_{2P}^{\prime}$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \end{array} $	(000) (200) (000) (000) (000) (000) (000) (000) (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $0$ $1$ $58.401$ $\{1 00\frac{1}{2}\}*$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ \\ P_annm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \\ \end{array}$	$\begin{matrix} i \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ 1 \\ Classi \\ \frac{2_{10}^{010}}{2_{\frac{1}{2}\frac{1}{2}}} * \end{matrix}$	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ \frac{1}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ \hline 0 \\ \text{fication} = \\ i_{\frac{1}{2}00}* \\ 0 \\ 0 \\ \hline \text{fication} = \\ i \end{array} $	$ \begin{array}{c c} \mathbb{Z}_{M} & X \\ 2^{001}_{\frac{1}{2}00} * \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{M} & X \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ \end{array} $	$egin{align*} & \overline{X}_{\mathrm{BS}} = \overline{\mathbb{Z}}_2 & \overline{S} \\ & Cm_{(2)}^{001} \\ & 2\overline{2}00 \\ & 2\overline{2}00 \\ & 1\overline{1}00 \\ \hline & \overline{X}_{\mathrm{BS}} = \overline{\mathbb{Z}}_2 & \overline{S} \\ & \overline{C}m_{(2)}^{001} \\ & 2\overline{2}00 \\ & 2\overline{2}00 \\ \hline \end{bmatrix}$	$\mathrm{SI}=z_{2P}^{\prime}$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	(000) (200) (000) (000) (000) (000) (000) (000) weak (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $0$ $1$ $58.401$ $\{1 00\frac{1}{2}\}*$ $0$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ \hline\\ P_annm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline\\ P_cnnm\\ 2^{001}\\ 0\\ \end{array}$	$\begin{matrix} i \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{\frac{1}{2}\frac{1}{2}0}^{010} * \\ 0 \\ 0 \\ 1 \end{matrix}$	$ \begin{array}{c} 2_{\frac{1}{2}}^{100} \\ 2_{\frac{1}{2}}^{\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ \hline 6 \\ 6 \\ 0 \\ 0 \\ 6 \\ 0 \\ 0 \\ 1 \end{array} $	$ \begin{array}{c c} \mathbb{Z}_{M} & X \\ \hline 2^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline \mathbb{Z}_{M} & X \\ \hline 2^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} \overline{L}_{\rm BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline L_{\rm BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \end{array}$	$\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \end{array} $	(000) (200) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $0$ $1$ $58.401$ $\{1 00\frac{1}{2}\}*$ $0$ $0$ $1$ $58.402$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ \hline P_annm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline P_cnnm\\ 2^{001}\\ 0\\ 0\\ \hline P_Bnnm\\ \end{array}$	$\begin{array}{c} i \\ 0 \\ 0 \\ 1 \\ \text{Classi} \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ 1 \\ \text{Classi} \\ 2_{\frac{1}{2}0}^{110} * \\ 0 \\ 0 \\ 1 \\ \text{Classi} \end{array}$	$     \begin{array}{c}       2\frac{100}{2} \frac{1}{2} \frac{1}{2} \\       0 \\       \hline       1 \\       0     \end{array} $ fication = $     \begin{array}{c}       i_{\frac{1}{2}00} * \\       0 \\       0     \end{array} $ fication = $     \begin{array}{c}       0 \\       0 \\     \end{array} $ fication = $     \begin{array}{c}       0 \\     \end{array} $ fication =	$ \begin{array}{c c} \mathbb{Z}_{M} & X \\ \hline 2^{001}_{\frac{1}{2}00} * \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{M} & X \\ \hline 2^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{M} & X \end{array} $	$egin{array}{c} Z_{ m BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} & 2\overline{2}00 \\ \hline 2\overline{2}00 & 1\overline{1}00 \\ \hline Z_{ m BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} & 2\overline{2}00 \\ \hline 2\overline{2}00 & 1\overline{1}00 \\ \hline Z_{ m BS} = \mathbb{Z}_2 & S \\ \hline Z_{ m BS}$	$\mathrm{SI}=z_{2P}^{\prime}$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \end{array} $	(000) (200) (000) (000) (000) (000) (000) (000) (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $0$ $1$ $58.401$ $\{1 00\frac{1}{2}\}*$ $0$ $0$ $1$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ \hline P_annm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline P_cnnm\\ 2^{001}\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{matrix} i \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{\frac{1}{2}\frac{1}{2}0}^{010} * \\ 0 \\ 0 \\ 1 \end{matrix}$	$ \begin{array}{c} 2_{\frac{1}{2}}^{100} \\ 2_{\frac{1}{2}}^{\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ \hline 6 \\ 6 \\ 0 \\ 0 \\ 6 \\ 0 \\ 0 \\ 1 \end{array} $	$ \begin{array}{c c} \mathbb{Z}_{M} & X \\ \hline 2^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline \mathbb{Z}_{M} & X \\ \hline 2^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} \overline{L}_{\rm BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline L_{\rm BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \end{array}$	$\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \end{array} $	(000) (200) (000)  weak (000) (000)  weak (000) (000)  weak (000) (000) (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $0$ $1$ $58.401$ $\{1 00\frac{1}{2}\}*$ $0$ $0$ $1$ $58.402$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ \hline P_annm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline P_cnnm\\ 2^{001}\\ 0\\ 0\\ \hline P_Bnnm\\ \end{array}$	$\begin{array}{c} i \\ 0 \\ 0 \\ 1 \\ \text{Classi} \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ 1 \\ \text{Classi} \\ 2_{\frac{1}{2}0}^{110} * \\ 0 \\ 0 \\ 1 \\ \text{Classi} \end{array}$	$     2\frac{100}{\frac{1}{2} \frac{1}{2} \frac{1}{2}}{0} \\     0 \\     \overline{1} \\     0 \\     fication =      i \frac{i_{\frac{1}{2}00}}{0} \\     0 \\     0 \\     \hline{0} \\     fication =      i \\     0 \\     \hline{0} \\     fication =      i \\     0 \\     0 \\     1 \\     \hline{fication = } \\     0 \\    $	$ \begin{array}{c c} \mathbb{Z}_{M} & X \\ \hline 2^{001}_{\frac{1}{2}00} * \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{M} & X \\ \hline 2^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{M} & X \end{array} $	$\begin{split} \overline{X}_{\text{BS}} &= \mathbb{Z}_2 \\ \overline{Cm_{(2)}^{001}} \\ 2\overline{2}00 \\ 2\overline{2}00 \\ 1\overline{1}00 \\ \overline{X}_{\text{BS}} &= \mathbb{Z}_2 \\ \overline{Cm_{(2)}^{001}} \\ 2\overline{2}00 \\ 2\overline{2}00 \\ 1\overline{1}00 \\ \overline{X}_{\text{BS}} &= \mathbb{Z}_2 \\ \overline{Cm_{(2)}^{001}} \\ \overline{X}_{\text{BS}} &= \mathbb{Z}_2 \\ \overline{Cm_{(2)}^{001}} \\ 2\overline{2}00 \\ \overline{X}_{\text{BS}} &= \mathbb{Z}_2 \\ \overline{X}_{\text{BS}} &= \mathbb$	$\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	(000) (200) (000)  weak (000) (000)  weak (000) (000)  weak (000) (000) (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $0$ $1$ $58.401$ $\{1 00\frac{1}{2}\}*$ $0$ $0$ $1$ $58.402$ $\{1 \frac{1}{2}0\frac{1}{2}\}*$ $0$ $0$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ P_annm\\ 2^{\frac{010}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ P_cnnm\\ 2^{001}\\ 0\\ 0\\ 0\\ P_Bnnm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{matrix} i \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}\frac{1}{2}}^{010} * \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}0}^{100} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{matrix}$	$     2\frac{100}{\frac{1}{2} \frac{1}{2} \frac{1}{2}}{0} \\     0 \\     \overline{1} \\     0 \\     fication =                                   $	$\begin{array}{c c} \mathbb{Z}_{M} & X \\ 2^{001}_{\frac{1}{2}00} * \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{M} & X \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ \hline 1 \\ \hline \mathbb{Z}_{M} & X \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{split} \overline{X}_{\rm BS} &= \mathbb{Z}_2  S \\ \overline{Cm_{(2)}^{001}} \\ \overline{2200} \\ \overline{2200} \\ \overline{1100} \\ \overline{X}_{\rm BS} &= \mathbb{Z}_2  S \\ \overline{Cm_{(2)}^{001}} \\ \overline{2200} \\ \overline{2200} \\ \overline{1100} \\ \overline{X}_{\rm BS} &= \mathbb{Z}_2  S \\ \overline{Cm_{(2)}^{001}} \\ \overline{2200} $	$\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 1 \end{array} $	(000) (200) (000)  weak (000) (000)  weak (000) (000)  weak (000) (000) (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $1$ $58.401$ $\{1 00\frac{1}{2}\}*$ $0$ $0$ $1$ $58.402$ $\{1 \frac{1}{2}0\frac{1}{2}\}*$ $0$ $0$ $1$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ \\ P_annm\\ 2^{\frac{010}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \\ \\ O\\ \\ D\\ \\ O\\ \\ D\\ \\ D\\ \\ $	$\begin{matrix} i \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}\frac{1}{2}0}^{010} * \\ 0 \\ 1 \\ Classi \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{matrix}$	$ \begin{array}{c} 2_{\frac{1}{2}}^{100} \\ 2_{\frac{1}{2}}^{\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ \hline 6 \\ 6 \\ 0 \\ 0 \\ 0 \\ 6 \\ 0 \\ 1 \\ 6 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c c} \mathbb{Z}_{M} & X \\ 2\frac{1}{2}00 * \\ 0 \\ 0 \\ 1 \\ \mathbb{Z}_{M} & X \\ 2\frac{1}{2}\frac{1}{2}0 * \\ 0 \\ 0 \\ 1 \\ \mathbb{Z}_{M} & X \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} Z_{\rm BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline Z_{\rm BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline \overline{1}\overline{1}00 \\ \hline Z_{\rm BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \end{array}$	$\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \end{array} $	(000) (200) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $0$ $1$ $58.401$ $\{1 00\frac{1}{2}\}*$ $0$ $0$ $1$ $58.402$ $\{1 \frac{1}{2}0\frac{1}{2}\}*$ $0$ $0$ $1$ $58.403$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ \\ P_annm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \\ O\\ \\ P_cnnm\\ 2^{001}\\ 0\\ 0\\ \\ O\\ \\ D\\ \\ D\\ \\ D\\ \\ D\\ \\ D\\ \\ $	$\begin{matrix} i \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}0}^{100} * \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}0}^{100} * \\ 0 \\ 1 \\ Classi \\ 2_{00\frac{1}{2}0}^{100} * \\ 0 \\ 0 \\ 1 \\ Classi \\ Classi \\ 0 \\ 0 \\ 1 \\ Classi \\ 0 \\ 0 \\ 0 \\ 1 \\ Classi \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$     2\frac{100}{\frac{1}{2} \frac{1}{2} \frac{1}{2}}{0} \\     0     \hline{1}     0     fication =           \frac{i_{\frac{1}{2}00}*}{0} \\     0     0     0     fication =      i     0     0     1     fication =      i     0     0     1     fication =      i $	$ \begin{array}{c c} \mathbb{Z}_{M} & X \\ 2\frac{1}{2}00 * \\ 0 \\ 0 \\ 1 \\ \mathbb{Z}_{M} & X \\ 2\frac{100}{2}\frac{1}{2}0 * \\ 0 \\ 0 \\ 1 \\ \mathbb{Z}_{M} & X \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \mathbb{Z}_{M} & X \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Z_{\rm BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline Z_{\rm BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline Z_{\rm BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline Z_{\rm BS} = \mathbb{Z}_2 & S \\ \hline Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline Z_{\rm BS} = \mathbb{Z}_2 & S \\ Z_{\rm BS} = \mathbb{Z}_2 & S \\ \hline Z_{\rm BS} = \mathbb{Z}_2 & S \\ Z$	$\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	(000) (200) (200) (000)  weak (000) (000)  weak (000) (000) (000)  weak (000) (000)  weak (000) (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $1$ $58.401$ $\{1 00\frac{1}{2}\}*$ $0$ $0$ $1$ $58.402$ $\{1 \frac{1}{2}0\frac{1}{2}\}*$ $0$ $0$ $1$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ \\ P_annm\\ 2^{\frac{010}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \\ \\ O\\ \\ D\\ \\ O\\ \\ D\\ \\ D\\ \\ $	$\begin{array}{c} i\\ 0\\ 0\\ 1\\ \text{Classi:}\\ 2_{0\frac{1}{2}\frac{1}{2}}^{100}*\\ 0\\ 0\\ 1\\ \text{Classi:}\\ 2_{0\frac{1}{2}0}^{010}*\\ 0\\ 0\\ 1\\ \text{Classi:}\\ 2_{0\frac{1}{2}0}^{100}*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$ \begin{array}{c} 2_{\frac{1}{2}}^{100} \\ 2_{\frac{1}{2}}^{\frac{1}{2}} \\ 0 \\ \hline 1 \\ 0 \\ \hline 6 \\ 6 \\ 0 \\ 0 \\ 0 \\ 6 \\ 0 \\ 1 \\ 6 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c c} \mathbb{Z}_{M} & X \\ 2\frac{1}{2}00 * \\ 0 \\ 0 \\ 1 \\ \mathbb{Z}_{M} & X \\ 2\frac{1}{2}\frac{1}{2}0 * \\ 0 \\ 0 \\ 1 \\ \mathbb{Z}_{M} & X \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} Z_{\rm BS} = \mathbb{Z}_2 & S \\ Cm_{(2)}^{(001)} & 2\overline{2}00 \\ 2\overline{2}00 & 1\overline{1}00 \\ \\ Z_{\rm BS} = \mathbb{Z}_2 & S \\ Cm_{(2)}^{(001)} & 2\overline{2}00 \\ 1\overline{1}00 & \\ \\ Z_{\rm BS} = \mathbb{Z}_2 & S \\ Cm_{(2)}^{(001)} & 2\overline{2}00 \\ 2\overline{2}00 & 2\overline{2}00 \\ 1\overline{1}00 & \\ \\ Z_{\rm BS} = \mathbb{Z}_2 & S \\ Cm_{(2)}^{(01)} & \\ \\ Z_{\rm BS} = \mathbb{Z}_2 & S \\ Cm_{(2)}^{(01)} & \\ \end{array}$	$\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \end{array} $	(000) (200) (200) (000)  weak (000) (000)  weak (000) (000)  weak (000) (000)  weak (000) (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $0$ $1$ $58.401$ $\{1 00\frac{1}{2}\}*$ $0$ $0$ $1$ $58.402$ $\{1 \frac{1}{2}0\frac{1}{2}\}*$ $0$ $0$ $1$ $58.403$ $\{1 \frac{1}{2}\frac{1}{2}0\}*$ $0$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ P_annm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ 0\\ P_cnnm\\ 2^{001}\\ 0\\ 0\\ 0\\ 0\\ 1\\ P_Bnnm\\ 2^{010}_{\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ P_Cnnm\\ 2^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} i\\ 0\\ 0\\ 1\\ \text{Classi:}\\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} *\\ 0\\ 1\\ \text{Classi:}\\ 2_{0\frac{1}{2}\frac{1}{2}}^{010} *\\ 0\\ 1\\ \text{Classi:}\\ 2_{0\frac{1}{2}0}^{100} *\\ 0\\ 1\\ \text{Classi:}\\ 2_{0\frac{1}{2}0}^{100} *\\ 0\\ 0\\ 1\\ \text{Classi:}\\ 2_{00\frac{1}{2}}^{100} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$     2\frac{100}{\frac{1}{2} \frac{1}{2} \frac{1}{2}}{0} \\     0     \hline{1}     0     fication =           \frac{i_{\frac{1}{2}00}*}{0} \\     0     0     0     fication =           i     0     0     1     fication =           i     0     0     1     fication =      i     0     0     1     fication =      i $	$\begin{array}{c c} \mathbb{Z}_{M} & X \\ 2\frac{1}{2}00 * \\ 0 \\ 0 \\ 1 \\ \hline Z_{M} & X \\ 2\frac{1}{2}\frac{1}{2}0 * \\ 0 \\ 0 \\ 1 \\ \hline = \mathbb{Z}_{M} & X \\ 2\frac{100}{2}\frac{1}{2}0 * \\ 0 \\ 0 \\ 0 \\ \hline = \mathbb{Z}_{M} & X \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ Cm^{001}_{(2)} \\ 2\overline{2}00 \\ 2\overline{2}00 \\ 1\overline{1}00 \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \overline{Cm^{001}_{(2)}} \\ 2\overline{2}00 \\ 2\overline{2}00 \\ 1\overline{1}00 \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \overline{Cm^{001}_{(2)}} \\ 2\overline{2}00 \\ 2\overline{2}00 \\ 1\overline{1}00 \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \overline{Cm^{001}_{(2)}} \\ 2\overline{2}00 \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \overline{Cm^{001}_{(2)}} \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \overline{Cm^{001}_{(2)}} \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{X}_{\rm BS} \\ \overline{X}_{\rm BS} = $	$\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	(000) (200) (200) (000)  weak (000) (000)  weak (000) (000)  weak (000) (000)  weak (000) (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $0$ $1$ $58.401$ $\{1 00\frac{1}{2}\}*$ $0$ $0$ $1$ $58.402$ $\{1 \frac{1}{2}0\frac{1}{2}\}*$ $0$ $0$ $1$ $58.403$ $\{1 \frac{1}{2}\frac{1}{2}0\}*$ $0$ $0$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ P_annm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ P_cnnm\\ 2^{001}\\ 0\\ 0\\ 0\\ 1\\ P_Bnnm\\ 2^{010}_{\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ P_Cnnm\\ 2^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{matrix} i \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}\frac{1}{2}}^{010} * \\ 0 \\ 1 \\ Classi \\ 2_{0\frac{1}{2}0}^{100} * \\ 0 \\ 1 \\ Classi \\ 2_{00\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ 1 \\ Classi \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$     2\frac{100}{\frac{1}{2} \frac{1}{2} \frac{1}{2}}{2} \\     0 \\     \hline{1} \\     0 \\     \hline{fication} = \\     i \\     \frac{i_{\frac{1}{2}00}}{0} \\     0 \\     \hline{fication} = \\     i \\     \hline{0} \\     \hline{0} \\     \hline{fication} = \\     i \\     \hline{0} \\     \hline{0} \\     \hline{fication} = \\     i \\     \hline{0} \\   $	$\begin{array}{c c} \mathbb{Z}_{M} & X \\ 2\frac{1}{2}00 * \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{M} & X \\ 2\frac{100}{2}\frac{1}{2}0 * \\ 0 \\ 0 \\ \hline 1 \\ \hline \mathbb{Z}_{M} & X \\ 2\frac{100}{2}\frac{1}{2}0 * \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 2\frac{100}{00\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline X_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline X_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline X_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \hline Cm^{001}_{(2)} \\ \hline 2\overline{2}00 \\ \hline \end{array}$	$\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	(000) (200) (200) (000)  weak (000) (000)  weak (000) (000)  weak (000) (000)  weak (000) (000)	$2^{001}*$ $0$ $0$ $1$ $58.400$ $\{1 \frac{1}{2}00\}*$ $0$ $0$ $1$ $58.401$ $\{1 00\frac{1}{2}\}*$ $0$ $0$ $1$ $58.402$ $\{1 \frac{1}{2}0\frac{1}{2}\}*$ $0$ $0$ $1$ $58.403$ $\{1 \frac{1}{2}\frac{1}{2}0\}*$ $0$	$\begin{array}{c} 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 1\\ P_annm\\ 2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ 0\\ P_cnnm\\ 2^{001}\\ 0\\ 0\\ 0\\ 0\\ 1\\ P_Bnnm\\ 2^{010}_{\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ P_Cnnm\\ 2^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} i\\ 0\\ 0\\ 1\\ \text{Classi:}\\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} *\\ 0\\ 1\\ \text{Classi:}\\ 2_{0\frac{1}{2}\frac{1}{2}}^{010} *\\ 0\\ 1\\ \text{Classi:}\\ 2_{0\frac{1}{2}0}^{100} *\\ 0\\ 1\\ \text{Classi:}\\ 2_{0\frac{1}{2}0}^{100} *\\ 0\\ 0\\ 1\\ \text{Classi:}\\ 2_{00\frac{1}{2}}^{100} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$     2\frac{100}{\frac{1}{2} \frac{1}{2} \frac{1}{2}}{0} \\     0     \hline{1}     0     fication =           \frac{i_{\frac{1}{2}00}*}{0} \\     0     0     0     fication =           i     0     0     1     fication =           i     0     0     1     fication =      i     0     0     1     fication =      i $	$\begin{array}{c c} \mathbb{Z}_{M} & X \\ 2\frac{1}{2}00 * \\ 0 \\ 0 \\ 1 \\ \hline Z_{M} & X \\ 2\frac{1}{2}\frac{1}{2}0 * \\ 0 \\ 0 \\ 1 \\ \hline = \mathbb{Z}_{M} & X \\ 2\frac{100}{2}\frac{1}{2}0 * \\ 0 \\ 0 \\ 0 \\ \hline = \mathbb{Z}_{M} & X \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ Cm^{001}_{(2)} \\ 2\overline{2}00 \\ 2\overline{2}00 \\ 1\overline{1}00 \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \overline{Cm^{001}_{(2)}} \\ 2\overline{2}00 \\ 2\overline{2}00 \\ 1\overline{1}00 \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \overline{Cm^{001}_{(2)}} \\ 2\overline{2}00 \\ 2\overline{2}00 \\ 1\overline{1}00 \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \overline{Cm^{001}_{(2)}} \\ 2\overline{2}00 \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \overline{Cm^{001}_{(2)}} \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{S} \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{X}_{\rm BS} \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{X}_{\rm BS} \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{X}_{\rm BS} & \overline{X}_{\rm BS} \\ \overline{X}_{\rm BS} = \mathbb{Z}_2 & \overline{X}_{\rm BS} \\ \overline{X}$	$\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$ $\mathrm{SI}=z_{2P}'$	

		58.404	$\frac{P_I nnm}{2^{001}}$	Classi	fication =		$\mathbb{I}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI}_{\mathrm{SS}}$	$=z_{2P}'$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$		2010*	i	2 <sup>100</sup> *	$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	0	1	1	1	1100		
		59.405	Pmmn	Classi	fication =		$\mathbb{I}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI}$	$=z'_{2P}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}0}$	i	$2^{100}_{\frac{1}{2}00}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$		
0	(000)	0	0	0	0	$2\overline{2}00$	$2\overline{2}00$		
0	(000)	0	0	0	0	$2\overline{2}00$	0000		
0	(000)	0	0	0	0	0000	$2\overline{2}00$		
1	(000)	0	0	1	0	$1\overline{1}00$	1100		
	/	0.409  Pm'	m'n Cla	ssificati	$ion = \mathbb{Z} \times$		$S = \mathbb{Z}_{2,2}$ SI	$=z_{2P,3},z'_{2P}$	
$\overline{\mathbb{Z}_{2,2}}$	weak	$\frac{2^{001}_{\frac{1}{2}\frac{1}{2}0}}{2^{001}_{\frac{1}{2}\frac{1}{2}0}}$	$2^{010}_{0\frac{1}{2}0}*$	$\frac{i}{i}$	$\frac{2^{100}}{2^{100}_{\frac{1}{2}00}}*$	22 IID	5 22,2 51	~2F,3,~21	
00	$(00\overline{2})$	$\frac{-\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{-0\frac{1}{2}0}{0}$	0	$\frac{-\frac{1}{2}00}{0}$				
00	(002)	0	0	0	0				
01	(000)	0	1	1	1				
10	$(00\overline{1})$	0	0	0	0				
11	$(00\overline{1})$	0	1	1	1				
	(501)	-			cation = 2	7	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak		9010 L	$\frac{\text{Classing}}{i}$	$\frac{100}{5^{100}}$	$\frac{\mathcal{L}_M \times \mathbb{Z}}{Cm_{(2)}^{100}}$	$\Lambda_{\mathrm{BS}} = \mathbb{Z}_2$	$\omega_1 = z_{2P}$	
		$2^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$2^{010}_{0\frac{1}{2}0}*$		$2^{100}_{\frac{1}{2}00}$				
0	(000)	0	0	0	0	$2\overline{2}00$			
0	$(\overline{2}00)$	1	0	0	1	2011			
0	(000)	0	0	0	0	2200			
1	(000)	1	1	1	0	$1\overline{1}00$			
		59.412	$P_bmmn$	Classi	fication =	$\mathbb{Z}_M^2$ X	$X_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI}$	$=z_{2P}'$	
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}0\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}*$	$i_{0\frac{1}{2}0}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$	_
0	(000)	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}00$	
0	(000)	0	0	0	0	0	$2\overline{2}00$	0000	
0	(000)	0	0	0	0	0	0000	$2\overline{2}00$	
1	(000)	1	0	1	0	1	1100	1100	
	/	59.413	$P_cmmn$	Classi	fication =	$\mathbb{Z}^2$ X	$I_{\mathrm{BS}} = \mathbb{Z}_2$ SI	$=z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\{1 00\frac{1}{2}\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}0}$	$\frac{i}{i}$	$2^{100}_{\frac{1}{2}00}$	$\frac{Cm_{(2)}^{100}}{Cm_{(2)}^{100}}$	$\frac{-z_{2}p}{Cm_{(2)}^{010}}$	
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	$\frac{2\overline{2}00}{1\overline{1}00}$	
1	(000)	1	0	0	1	0	1100	1100	
	-	59.414	$P_Bmmn$	Class	ification =	$\mathbb{Z}_M^2$ $\Sigma$	$X_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI}_{\mathrm{SS}}$	$z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$i_{\frac{1}{2}0\frac{1}{2}}*$	$\frac{2^{100}}{2^{100}}*$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}00$	
0	(000)	0	0	0	0	0	$2\overline{2}00$	0000	
0	(000)	0	0	0	0	0	0000	$2\overline{2}00$	
1	(000)	1	1	0	0	1	$1\overline{1}00$	$1\overline{1}00$	
		59.415	$P_Cmmn$	Class	ification =	$\mathbb{Z}_M^2$	$X_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI}$	$z'=z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}*$	$i_{\frac{1}{2}\frac{1}{2}0}^{*}$	20100	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$	
0	(000)	0	$\frac{\bar{2}\bar{2}^{0}}{0}$	$\frac{1}{2}00$	$\frac{\overline{2} \overline{2}^0}{0}$	0 2 0	$2\overline{2}00$	$\frac{2\overline{200}}{2\overline{200}}$	
0	(000)	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$	0000	
0	(000)	0	0	0	0	0	0000	$2\overline{2}00$	
$\frac{0}{1}$	(000)	1	0	1	0	1	$1\overline{1}00$	$\frac{1100}{1}$	
	(555)								
77 -	nrool.	59.416	$P_{I}mmn$	2100 .	ification =	$\frac{\omega_M}{2001}$	$\frac{L_{\rm BS} = \mathbb{Z}_2}{Cm_{(2)}^{010}}$	$=z'_{2P} \ Cm^{100}_{(2)}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$		$2^{100}_{0\frac{1}{2}\frac{1}{2}}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}$			
0	(000)	0	0	0	0	0	$2\overline{2}00$	2200	
0	(000)	0	0	0	0	0	$2\overline{2}00$	0000	
0	(000)	0	0	0	0	0	0000	$\frac{2\overline{2}00}{1\overline{1}00}$	
1	(000)	1	1	1	0	0	$1\overline{1}00$	1100	
		60 41'	7 Phen	C11: f	ication -	$\mathbb{Z}_{2}$ $\mathbf{Y}_{2}$	$a = \mathbb{Z}_0$ SI –		

60.417 Pbcn Classification =  $\mathbb{Z}_2$   $X_{BS} = \mathbb{Z}_2$   $SI = z'_{2P}$ 

		2001	$2_{-0.1}^{010}$		2100			
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	00 2	i	$2^{100}_{\frac{1}{2}\frac{1}{2}0}$			
0	(000)	0	0	0	0			
	(000)	0	0	1	0	77 77 37	F7 OI /	
$\mathbb{Z}_2$	weak	60.422	Pb'c'n	i	$\frac{\text{ation} = 2}{2^{100}}$	$\angle \times \angle_2 = X_{BS}$	$=\mathbb{Z}_2  \mathrm{SI}=z'_{2P}$	
		$2^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$2_{00\frac{1}{2}}^{010} *$		$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \end{array}$			
$\frac{0}{0}$	(000)	0	0	0	0			
$\frac{0}{1}$	(000)	0	1	1	1			
	,	60.423	Pbc'n'	Classific	ation = 2	7. × 7.2 Xpc	$=\mathbb{Z}_2  \mathrm{SI}=z_{2P}'$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} *$	$2_{00\frac{1}{2}}^{010}*$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}0}$	2 / 11B5	22 SI ~2F	
0	(000)	$\frac{\overline{2}\ \overline{2}\ \overline{2}}{0}$	$00_{\overline{2}}$	0	$\frac{\overline{2}\overline{2}^{0}}{0}$			
0	(200)	1	0	0	1			
1	(000)	1	1	1	0			
-	60	.424 Pb'c	n' Clas	sification	$= \mathbb{Z} \times \mathbb{Z}$	$X_{BS} = \mathbb{Z}_2$	$_{,2}$ SI = $z'_{2P}, z_{2,60.242}$	
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{010}_{00\frac{1}{2}}$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$			
00	(040)	0	0	0	0			
00	$(0\overline{4}0)$	0	0	0	0			
01	$(0\overline{2}0)$	1	0	0	1			
$\frac{10}{11}$	(020)	0	0	1	0			
	(000)					77 V	77 CI ./	
$\overline{\mathbb{Z}_2}$	weak	$\frac{60.420}{11^{\frac{1}{2}}000}$			ication =		$\mathbb{Z}_2$ SI = $z'_{2P}$	
		$\{1 \frac{1}{2}00\}*$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}*$	$2^{100}_{0\frac{1}{2}0}*$	$\frac{i_{\frac{1}{2}00}*}{0}$	$2^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$		
$\frac{0}{1}$	(000)	0	<u>0</u> 1	<u>0</u> 1	0	0		
	(000)	60.42			ication =		$\mathbb{Z}_2$ SI = $z'_{2P}$	
$\mathbb{Z}_2$	weak	$\frac{60.42}{\{1 0\frac{1}{2}0\}*}$	$\frac{1}{2^{100}_{\frac{1}{2}00}}*$	$\frac{2^{001}}{2^{\frac{1}{2}0^{\frac{1}{2}}}}*$		$\frac{2^{010}}{2^{010}_{00\frac{1}{2}}}$	ω <sub>2</sub>	
$\frac{2}{0}$	(000)	0	$\frac{2\frac{1}{2}00}{0}$	$\frac{2\frac{1}{2}0\frac{1}{2}}{0}$	0	$\frac{2_{00\frac{1}{2}}}{0}$		
$\frac{0}{1}$	(000)	1	1	1	1	0		
	()	60.42	$8 P_c bcn$	Classif	ication =	$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}} =$	$\mathbb{Z}_2$ SI = $z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$		$2^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$i_{00\frac{1}{2}}*$	$\frac{2^{010}}{2^{00\frac{1}{2}}}$	22 S1 ~2P	
0	(000)	0	$\frac{\bar{2}\bar{2}\bar{2}}{0}$	$\frac{\bar{2}\bar{2}^0}{0}$	$\frac{00\overline{2}}{0}$	00 2		
1	(000)	1	1	1	0	0		
		60.429	$P_Abcr$	Classi	fication =	$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}} =$	$\mathbb{Z}_2$ SI = $z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}$	$2^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$i_{0\frac{1}{2}\frac{1}{2}}*$	$2_{00\frac{1}{2}}^{010}$	2 21	
0	(000)	0	$\frac{\frac{\overline{2}}{2}\overline{2}^0}{0}$	$\frac{\overline{2}\ \overline{2}\ \overline{2}}{0}$	0	0		
1	(000)	1	0	0	0	0		
		60.430	$P_Bbcr$	a Classi	fication =	$\mathbb{Z}_2$ $\mathbb{X}_{BS} =$	$\mathbb{Z}_2$ SI = $z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$2_{00\frac{1}{2}}^{010}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	$i_{\frac{1}{2}0\frac{1}{2}}*$	$2_{0\frac{1}{2}0}^{001}*$	<del>-</del> -	
0	(000)	0	0	0	0	0		
1	(000)	1	0	1	0	1		
		60.431			fication =	$\mathbb{Z}_2$ $X_{\mathrm{BS}} =$	$\mathbb{Z}_2$ SI = $z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}_{00\frac{1}{2}}*$	$2_{00\frac{1}{2}}^{010}$	i	$2^{100}*$		
0	(000)	0	0	0	0	0		
1	(000)	1	1	0	1	1		
		60.43			ication =	$\mathbb{Z}_2$ $X_{BS} =$	$\mathbb{Z}_2$ SI $= z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	2 <sup>001</sup> *	$2_{00\frac{1}{2}}^{010}$	i	$2^{100}_{00\frac{1}{2}}*$		
0	(000)	0	0	0	0	0		
1	(000)	1	1	0	1	1		
	,	61.43			ication =	$\mathbb{Z}_2$ $X_{BS} = 2$	$\mathbb{Z}_2  \mathrm{SI} = z'_{2P}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}0\frac{1}{2}}$	$2^{010}_{0\frac{1}{2}\frac{1}{2}}$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}0}$			
0	(000)	0	0	0	0			
1	(000)	0	0	1	0	7	F7 CIT	
	1.	61.436	Pb'c'a		$\frac{\text{ation} = 2}{2^{100}}$	$L \times \mathbb{Z}_2$ $X_{BS}$	$=\mathbb{Z}_2$ $SI=z'_{2P}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}0\frac{1}{2}}$	$2^{010}_{0\frac{1}{2}\frac{1}{2}}*$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$			

0	(000)	0	0	0	0				
0	(002)	1	1	0	0				
1	(000)	0	1	1	1				
		61.438		Classif	ication =	$\mathbb{Z}_2$ X	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2$ S	$I = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}00\}*$	$2^{001}_{\frac{1}{2}0\frac{1}{2}}$	$2^{010}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	i 1 2 00 *	$2^{100}_{0\frac{1}{2}0}*$			
0	(000)	0	$\frac{\overline{2}^{0}\overline{2}}{0}$	$\frac{\overline{2}\ \overline{2}\ \overline{2}}{0}$	0	$\frac{0}{2}$			
1	(000)	1	0	1	0	1			
	()	61.439	$P_Cbca$	Classif	ication =	- 7.0 X	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2$ S	$\mathrm{SI}=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	-	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	i	$\frac{2^{100}*}{2^{100}}$	1B5 — 22 L	1 — ≈2P	
0	(000)	0	$\begin{array}{c} 2_{0\frac{1}{2}\frac{1}{2}}^{001} * \\ 0 \end{array}$	$\frac{0\frac{1}{2}\frac{1}{2}}{0}$	0	0			
$\frac{0}{1}$	(000)	1	1	0	1	1			
	(000)	61.440					$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2$ S	I = ~'	
$-\mathbb{Z}_2$	weak	$\{1 \frac{1}{2},\frac{1}{2},\frac{1}{2}\}*$	$\frac{2^{010}}{2^{010}_{\frac{1}{2}00}}*$			$\frac{2^{100}}{2_{00\frac{1}{2}}^{100}}*$	.BS — ∠2 S	$1-z_{2P}$	
				$2^{001}_{0\frac{1}{2}0}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$				
0	(000)	0	0	0	0	0			
1	(000)	1	1	1		1	7 77	OF /	
	1	62.441			$\frac{\text{cation}}{2^{100}}$	$\mathbb{Z}_M$ $\Sigma$	$X_{\mathrm{BS}} = \mathbb{Z}_2$	$z_{1} = z'_{2P}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}0\frac{1}{2}}$	$2^{010}_{0\frac{1}{2}0}$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$Cm_{(2)}^{010}$			
0	(000)	0	0	0	0	$2\overline{2}00$			
0	(000)	0	0	0	0	$2\overline{2}00$			
1	(000)	0	0	1	0	1100			
			Pn'm'a		eation =	$\mathbb{Z} \times \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}0\frac{1}{2}}$	$2^{010}_{0\frac{1}{2}0}*$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$				
0	(000)	0	0	0	0				
0	$(00\overline{2})$	1	0	0	1				
1	(000)	0	1	1	1				
			Pnm'a'	Classific	cation =	$\mathbb{Z} \times \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$2^{010}_{0\frac{1}{2}0}*$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}$				
0	(000)	0	0	0	$\frac{222}{0}$				
0	(200)	1	0	0	1				
1	(000)	1	1	1	0				
			Pn'ma'	Classific		$\mathbb{Z}_M  imes \mathbb{Z}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$2^{010}_{0\frac{1}{2}0}$	i	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$Cm_{(2)}^{010}$	)		
0	(000)	0	0	0	0	$2\overline{2}00$			
0	$(0\overline{2}0)$	0	1	0	1	2011			
0	(000)	0	0	0	0	$2\overline{2}00$			
1	(000)	1	0	1	1	$1\overline{1}00$			
		62.450	$P_a nma$	Classif	ication =	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}00\}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	$2^{010}_{\frac{1}{2},\frac{1}{2},0}*$	$i_{\frac{1}{2}00}*$	$2^{001}_{\frac{1}{2}0^{\frac{1}{2}}}$	$Cm_{(2)}^{010}$	- 21	
0	(000)	0	$0^{\frac{1}{2}\frac{1}{2}}$	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{1}{2}00$	$\frac{\frac{1}{2}0\frac{1}{2}}{0}$	$2\overline{2}00$		
$\frac{0}{0}$	(000)	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$		
$\frac{}{1}$	(000)	1	1	1	0	0	$\frac{2200}{1\overline{1}00}$		
	1 (-00)	62.451	$P_bnma$	Classif	ication =			$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\frac{62.431}{\{1 0\frac{1}{2}0\}*}$	$\frac{F_b n ma}{2^{010}}*$	$\frac{2^{001}}{2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}*$		$\frac{2^{100}}{2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$X_{\rm BS} = \mathbb{Z}_2$ $Cm_{(2)}^{010}$	ω1 — ≈2P	
					$i_{0\frac{1}{2}0}*$				
$\frac{0}{0}$	(000)	0	0	0	0	0	$\frac{2\overline{2}00}{2\overline{2}00}$		
$\frac{0}{1}$	(000)	1	1	1	0	0	$\frac{2200}{1\overline{1}00}$		
	[ (000)							CT /	
	1 1	62.452	$P_cnma$	Classif	ication =	$= \mathbb{Z}_M$ $\subseteq \mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$2^{010}_{0\frac{1}{2}\frac{1}{2}}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$i_{00\frac{1}{2}}*$	$2^{001}_{\frac{1}{2}00}*$	$Cm_{(2)}^{010}$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	1	0	0	1	$1\overline{1}00$		
		62.453	$P_A nma$		fication =	$=\overline{\mathbb{Z}_M}$	$X_{BS} = \mathbb{Z}_2$	$SI = \overline{z'_{2P}}$	
$\mathbb{Z}_2$	weak	$\{1 0\frac{1}{2}\frac{1}{2}\}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$2^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$i_{0\frac{1}{2}\frac{1}{2}}*$	$2^{010}_{00\frac{1}{2}}*$	$Cm_{(2)}^{010}$		<del></del>
0	(000)	0	0	0	0	0	$2\overline{2}00$		

	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	0	1	0	1	$1\overline{1}00$		
		62.454	$P_Bnma$	Classi	ification =		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	$2^{010}_{0\frac{1}{2}0}$	$2^{100}_{0\frac{1}{2}0}*$	i	$2^{001}*$	$Cm_{(2)}^{010}$		
0	(000)	0	0	Ô	0	0	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	0	1	1	1	1100		
		62.455	$P_C nma$	Classi	ification =		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}_{0\frac{1}{2}\frac{1}{2}}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2^{010}_{\frac{1}{2}00}*$	$Cm_{(2)}^{010}$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	1	0	0	1	$1\overline{1}00$		
		62.456	$P_Inma$	Classi	fication =		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}_{0\frac{1}{2}0}*$	$2^{010}_{0\frac{1}{2}0}$	i	$2^{100}*$	0(2)		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}00}{1\overline{1}00}$		
1	(000)	1	1	0	1	1	$1\overline{1}00$		
- F77	1 1	63.457	Cmcm		$\frac{\text{fication} =}{2^{100}}$	$\mathbb{Z}_{M}^{2}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$2^{001}_{00\frac{1}{2}}$	$2^{010}_{00\frac{1}{2}}$	i		$Cm_{(2)}^{00}$			
0	(000)	0	0	0	0	$2\overline{2}00$	$\frac{2\overline{2}}{2}$		
$\frac{0}{0}$	(000)	0	0	0	0	$\frac{2\overline{2}00}{0000}$	$\frac{00}{2\overline{2}}$		
$\frac{0}{1}$	(000)	0	0	1	0	$1\overline{1}00$	$\frac{22}{1\overline{1}}$		
	(000)				cation = 2		$X_{BS} = \mathbb{Z}$	$_{2}$ SI = $z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$2^{001}_{00\frac{1}{2}}$	$\frac{2010}{200\frac{1}{2}}*$	$\frac{\text{Classific}}{i}$	$\frac{\text{cation} = 2}{2^{100}}$ *	$\frac{\omega_M \times \omega}{Cm_{(2)}^{000}}$		$z_{2}$ $S1 = z_{2P}$	
$\frac{\omega_2}{0}$	(000)	$\frac{2_{00\frac{1}{2}}}{0}$	$\frac{2_{00\frac{1}{2}}}{0}$		0	$\frac{\overline{2200}}{200}$			
$\frac{0}{0}$	(000)	$\frac{0}{1}$	1	0	0	2011			
0	(000)	0	0	0	0	$\frac{2\overline{0}11}{2\overline{2}00}$			
$\frac{3}{1}$	(000)	0	1	1	1	$1\overline{100}$			
	63	.463 Cmc	'm' Clas	ssification	on $= \mathbb{Z}_M$	$\times \mathbb{Z}$ X	$X_{\mathrm{BS}} = \mathbb{Z}_{2,2}$	$SI = z_{2P,2}, z_2'$	
$\overline{\mathbb{Z}_{2,2}}$	weak	$2^{001}_{00\frac{1}{2}}*$	$2^{010}_{00\frac{1}{2}}*$	i	$2^{100}$	$Cm_{(2)}^{100}$	) 2,2	21,27 2	
00	$(\overline{2}20)$	0	0	0	0	22			
00	(000)	0	0	0	0	$2\overline{2}$			
00	(000)	0	0	0	0	$2\overline{2}$			
01	(000)	1	1	1	0	$1\overline{1}$			
10	$(\overline{1}10)$	0	0	0	0	11			
11	$(\overline{1}10)$	1	1	1	0	20		-	
-77					$\frac{\text{ion} = \mathbb{Z} \times}{2^{100}} *$	$\mathbb{Z}_2$ X	$_{\mathrm{BS}}=\mathbb{Z}_{2,2}$	$SI = z_{2P,2}, z'_{2P}$	Р
$\mathbb{Z}_{2,2}$	weak	$2_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{010}$	<i>i</i>					
$\frac{00}{00}$	(220)	0	0	0	0				
01	(000)	1	0	1	1				
10	(110)	0	0	0	0				
11	(110)	1	0	1	1				
	/	63.466	$C_cmcm$	Classi	ification =	$\mathbb{Z}^2_M$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	2001*	2010*	i	$\frac{N}{2^{100}}$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}$	
0	(000)	0	0	0	0	0	$2\overline{2}00$	00	
0	(000)	0	0	0	0	0	0000	$2\overline{2}$	
1	(000)	1	1	1	1	0	$1\overline{1}00$	11	
		63.467	$C_a mcm$	Classi	ification =	$=\mathbb{Z}_{M}^{2}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2_{00\frac{1}{2}}^{010}$	$2^{100}$	i	$2^{001}_{00\frac{1}{2}}$	$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}$	
0	(000)	0	0	0	0	0	$2\overline{2}00$	00	
0	(000)	0	0	0	0	0	0000	$2\overline{2}$	

1	(000)	1	0	0	1	0	$1\overline{1}00$	$1\overline{1}$	
		63.468	$C_Amcm$	Classi	ification =	$=\mathbb{Z}_M^2$	$X_{BS} = \mathbb{Z}_2$ S	$I = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}_{0\frac{1}{2}0}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	$i_{0\frac{1}{2}\frac{1}{2}}*$	$2_{00\frac{1}{2}}^{010}$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	0	$\overline{2\overline{2}00}$	$2\overline{2}$	
0	(000)	0	0	0	0	0	$2\bar{2}00$	00	
0	(000)	0	0	0	0	0	0000	$2\overline{2}$	
1	(000)	1	1	1	0	0	$1\overline{1}00$	$1\overline{1}$	
		64.469		Classif	ication =	$\mathbb{Z}_M$ X	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2$ 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	$\overline{2\overline{2}}$			
0	(000)	0	0	0	0	$2\overline{2}$			
1	(000)	0	0	1	0	$1\overline{1}$			
			Cm'c'a	Classific	cation = 2	$\mathbb{Z} \times \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$2_{0\frac{1}{2}\frac{1}{2}}^{001}$	$2^{010}_{0\frac{1}{2}\frac{1}{2}}*$	i	$2^{100}*$				
0	(000)	0	0	0	0				
0	(002)	1	1	0	0				
1	(000)	0	1	1	1				
	64	1.475 Cm		sificatio	$\overline{\mathbf{n}} = \mathbb{Z}_M >$	$\times \mathbb{Z} = X_{\mathbb{F}}$	$\mathbb{Z}_{\mathrm{SS}} = \mathbb{Z}_{2,2}$ Si	$I = z_{2P,2}, z_2'$	 P
$\overline{\mathbb{Z}_{2,2}}$	weak	$2_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$2^{010}_{0\frac{1}{2}\frac{1}{2}}*$	i	$2^{100}$	$Cm_{(2)}^{100}$	,- :-	,-, 2.	
00	$(2\overline{2}0)$	$\frac{0  \overline{2}  \overline{2}}{0}$	$0^{\frac{0}{2}\frac{7}{2}}$	0	0	22			
00	(000)	0	0	0	0	$2\overline{2}$			
00	(000)	0	0	0	0	$2\overline{2}$			
01	(000)	1	1	1	0	$1\overline{1}$			
10	$(1\overline{1}0)$	0	0	0	0	11			
11	$(1\overline{1}0)$	1	1	1	0	20			
	6-	4.476 $Cm$	'ca' Cla	ssification	$on = \mathbb{Z} \times$	$\mathbb{Z}_2$ $X_B$	$S_{\rm S} = \mathbb{Z}_{2,2}$ SI	$=z_{2P,2},z_{2P}'$	)
$\overline{\mathbb{Z}_{2,2}}$	weak	$2_{0\frac{1}{2}\frac{1}{2}}^{001}*$	$2^{010}_{0\frac{1}{2}\frac{1}{2}}$	i	$2^{100}*$				
00	(220)	0	2	0	0				
00	(000)	0	0	0	0				
01	(000)	1	0	1	1				
10	(110)	1	1	0	0				
11	(110)	0	1	1	1				
	1	64.478	$C_cmca$	Classif 2 <sup>100</sup> *		$\mathbb{Z}_M$ X	$X_{\rm BS} = \mathbb{Z}_2  \text{SI}$	$z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$2^{001}_{0\frac{1}{2}0}*$	00 2	$i_{00\frac{1}{2}}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{010}$	$Cm_{(2)}^{100}$		
0	(000)	0	0	0	0	0	$2\overline{2}$		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{1\overline{4}}$		
1	(000)	1	1	1	0	0	11		
		64.479	$C_a mca$	Classit	fication =	$\mathbb{Z}_M$ X	$X_{\rm BS} = \mathbb{Z}_2  \text{SI}$	$I=z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{010}_{00\frac{1}{2}}*$	$2^{100}_{0\frac{1}{2}0}*$	$i_{0\frac{1}{2}0}*$	$2^{001}_{0\frac{1}{2}\frac{1}{2}}$	$Cm_{(2)}^{100}$		
0	(000)	0	0	0	0	0	$2\overline{2}$		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{1\overline{1}}$		
1	(000)	1	1	1	0	0	11		
		64.480	$C_Amca$	Classi	fication =	$\mathbb{Z}_{M}$ $\overline{\Sigma}$	$X_{\rm BS} = \mathbb{Z}_2  \text{SI}$	$I = z'_{2P}$	
$\frac{\mathbb{Z}_2}{2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	2001*	2010*	i	$2^{100}$	$Cm_{(2)}^{100}$		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{1\overline{1}}$		
1	(000)	1	1	1	1		11	, ,	
		$\frac{65.481}{2^{001}}$ Cr	$\frac{mmm}{2^{010}}$ C		$tion = \mathbb{Z}_{\Lambda}^4$	$\frac{I}{C}$ $\frac{X_{BS}}{C}$	$=\mathbb{Z}_{2,4}$ SI =		
$\frac{\mathbb{Z}_{2,4}}{2}$	weak			i	$2^{100}$	$Cm_{(2)}^{010}$		$\frac{Cm_{(2)}^{100}}{44}$	
00	(000)	0	0	0	0	$\frac{44}{44}$	$\overline{2222}$	$\frac{44}{44}$	
00	(000)	0	0	0	0	$\frac{4\overline{4}}{00}$	$\frac{4\overline{4}00}{\overline{2}200}$	$\frac{4\overline{4}}{\overline{2}2}$	
00	(000)	0	0	0	0	$\frac{00}{\overline{2}2}$	$\frac{2200}{2222}$	$\frac{22}{22}$	
00	(000)	0	0	0	0	$\frac{22}{22}$	$\frac{2222}{2200}$	00	
03	(000)	0	0	1	0	$\frac{22}{11}$	$\frac{2200}{1\overline{1}00}$	$\frac{00}{1\overline{1}}$	
	(000)	· ·					1100		

	(000)	0	0	0	0	$\overline{22}$	$2\overline{2}00$	$2\overline{2}$		
01	(000)	0	0	1	0	$\frac{22}{3\overline{3}}$	$\frac{2200}{3\overline{3}00}$	$\frac{22}{3\overline{3}}$		
10	(000)	0	0	0	0	$\frac{\overline{22}}{\overline{11}}$	1111	$\frac{\overline{22}}{\overline{11}}$		
13	(000)	0	0	1	0	11	0011	11		
12	(000)	0	0	0	0	00	$1\overline{1}1\overline{1}$	00		
11	(000)	0	0	1	0	$1\overline{1}$	$2\overline{2}1\overline{1}$	$1\overline{1}$		
	65.485	Cm'm'm	Classifica	ation =	$=\mathbb{Z}_M^2 imes\mathbb{Z}$	$X_{BS} =$	$\mathbb{Z}_{2,2,2}$ SI =	$z_{2m,0}^+, z_{2m}^-$	$z_{2m}^{+}$	
$\overline{\mathbb{Z}_{2,2,2}}$	weak	$2^{001}$	2 <sup>010</sup> *	i	2 <sup>100</sup> *	$Cm_{(2)}^{001}$	, ,	2111,07 211	n,0 / 2m, n	
000	(002)	0	0	0	0	$2\overline{402}$				
000	$(00\overline{2})$	0	0	0	0	0202				
000	(000)	0	0	0	0	$002\overline{2}$				
000	(000)	0	0	0	0	$00\overline{2}2$				
001	(000)	0	1	1	1	$\frac{0022}{0011}$				
010	$(00\overline{1})$	0	1	1	1	0101				
011	(001)	0	0	0	0	0110				
100	(001)	0	0	0	0	$\frac{1\overline{2}0\overline{1}}{1}$				
100	(001)	0		1	1	$\frac{1201}{1\overline{2}1\overline{2}}$				
			1							
110	(000)	0	1	1	1	$1\overline{100}$				
111	(000)	0	0	0	0	1111				
		486 <i>Cmn</i>	n'm' Cla		$ \sin = \mathbb{Z}_M $	$\times \mathbb{Z} - \overline{X}$	$\mathbb{I}_{\mathrm{BS}} = \mathbb{Z}_{2,2}  \overline{\mathrm{SI}}_{2,2}$	$I=z_{2P,2},$	$z_{2P}'$	
$\mathbb{Z}_{2,2}$	weak	$2^{001}*$	2010*	i	$2^{100}$	$Cm_{(2)}^{100}$				
00	$(\overline{2}20)$	0	0	0	0	22				
00	(000)	0	0	0	0	$2\overline{2}$				
00	(000)	0	0	0	0	$2\overline{2}$				
01	(000)	1	1	1	0	$1\overline{1}$				
10	$(\bar{1}10)$	0	0	0	0	11				
11	$(\overline{1}10)$	1	1	1	0	20				
		65.488	$C_cmmm$	Class	sification =	73	$X_{BS} = \mathbb{Z}_4$ SI	$=z'_{4P}$		
$\mathbb{Z}_4$	weak	$\{1 00\frac{1}{2}\}*$	$\frac{2^{001}}{2^{001}}$	2010	$\frac{i}{i}$	$\frac{2M}{2^{100}}$	$\frac{Cm_{(2)}^{010}}{Cm_{(2)}^{010}}$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{100}$	
$\frac{24}{0}$	(000)	$\frac{1100\overline{2}f^*}{0}$	0		0	0	$\frac{Cm_{(2)}}{4\overline{4}}$	$\frac{6m_{(2)}}{4\overline{4}00}$	$\frac{Cm_{(2)}}{4\overline{4}}$	
	(000)			0				$\frac{4400}{2200}$	$\frac{44}{\overline{2}2}$	
0	/	0	0	0	0	0	$\frac{00}{22}$		$\frac{22}{22}$	
0	(000)	0	0	0	0	0		0000		
0	(000)	0	0	0	0	0	$\frac{\overline{2}2}{1\overline{1}}$	2200	00	
3	(000)	1	0	0	1	0	$\frac{1\overline{1}}{2\overline{2}}$	$1\overline{100}$	$\frac{1\overline{1}}{2\overline{2}}$	
2	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}00$	$\frac{2\overline{2}}{\overline{}}$	
1	(000)	1	0	0	1	0	$3\overline{3}$	3300	$3\overline{3}$	
	(	$65.489 C_a$	mmm C	lassific	$\operatorname{ation} = \mathbb{Z}_{\Lambda}^4$	$_{I}$ $X_{BS}$	$=\mathbb{Z}_{2,4}$ SI =	$=z_{2P,3}',z_{4}'$	P	
$\mathbb{Z}_{2,4}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}$	$2^{010}$	i	$2^{100}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$	
00		0	0	0	0	0	44	$\frac{1}{44}$	$\overline{2}22\overline{2}$	
00	(000)	0	0	0	0	0	$4\overline{4}$	$4\overline{4}$	$4\overline{4}00$	
00	(000)	0	0	0	0	0	$\overline{2}2$	00	$\overline{2}200$	
00	(000)	0	0	0	0	0	00	$\overline{2}2$	$\overline{2}200$	
00	(000)	0	0	0	0	0	$\overline{2}2$	$\overline{2}2$	$\overline{2}2\overline{2}2$	
03	(000)	1	0	0	1	0	$1\overline{1}$	11	$1\overline{1}00$	
02	(000)	0	0	0	0	0	$\frac{11}{2\overline{2}}$	$2\overline{2}$	$2\overline{2}00$	
01	(000)	1	0	0	1	0	33	33	3300	
10	(000)	0	0	0	0	0	$\frac{\overline{2}}{2}$	$\frac{\overline{2}}{2}$	1111	
13	(000)	1	0	0	1	0	$\frac{22}{11}$	$\frac{22}{11}$	$001\overline{1}$	
$\frac{13}{12}$	(000)	0	0	0	0	0	00	00	1111	
$\frac{12}{11}$	(000)	1	0	0	1	0	$\frac{00}{1\overline{1}}$	$\frac{00}{1\overline{1}}$	$\frac{1111}{2\overline{2}1\overline{1}}$	
	(000)								2211	
		65.490	$C_A mmm$	Clas	sification =	$\mathbb{Z}_M^3$	$X_{BS} = \mathbb{Z}_4$ Si	$=z_{4P}'$	~ 100	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}$	$2^{010}$	i	$2^{100}$	$Cm_{(2)}^{001}$	$Cm_{\underline{(2)}}^{010}$	$Cm_{\underline{(2)}}^{100}$	
0	(000)	0	0	0	0	0	$4\overline{4}00$	44	$\frac{4\overline{4}}{\overline{}}$	
0	(000)	0	0	0	0	0	0000	$\overline{2}2$	$\overline{2}2$	
0	(000)	0	0	0	0	0	$\overline{2}200$	00	$\overline{2}2$	
0	(000)	0	0	0	0	0	$\overline{2}200$	$\overline{2}2$	00	
3	(000)	1	0	0	1	0	$1\overline{1}00$	$1\overline{1}$	$1\overline{1}$	

	(000)	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}$	$\overline{2\overline{2}}$
$\frac{2}{1}$	(000)	1	0	0	1	0	3300	$\frac{22}{3\overline{3}}$	$\frac{22}{3\overline{3}}$
	/	66.491	Cccm	Classifi	ication =	$\mathbb{Z}_M$ $X_{BS}$	$=\mathbb{Z}_2$ SI =	$=z'_{2D}$	
$\mathbb{Z}_2$	weak	$2^{001}$	$2_{00\frac{1}{2}}^{010}$	i	$2_{00\frac{1}{2}}^{100}$	$Cm_{(2)}^{001}$		21	
0	(000)	0	0	0	0	$2\overline{2}00$			
0	(000)	0	0	0	0	$2\overline{2}00$			
1	(000)	0	0	1	0	$1\overline{1}00$			
	66.	495  Cc'c'r	m Class	ification	$=\mathbb{Z}_{M} \times$	$\mathbb{Z}$ $X_{BS} =$	$\mathbb{Z}_{2,2}$ SI =	$=z_{2m,0}^+,z_2^-$	$m,\pi$
$\overline{\mathbb{Z}_{2,2}}$	weak	$2^{001}$	$2^{010}_{00\frac{1}{2}}*$	i	$2^{100}_{00\frac{1}{2}}*$	$Cm_{(2)}^{001}$			
00	(000)	0	0	0	0	$2\overline{2}00$			
00	$(00\overline{4})$	0	0	0	0	4022			
00	(000)	0	0	0	0	$2\overline{2}00$			
01	$(00\bar{2})$	0	0	1	0	2011			
$\frac{10}{11}$	$(000)$ $(00\overline{2})$	0	1	0	1 1	$\frac{1\overline{1}00}{3\overline{1}11}$			
	( )					$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}}$ =	_ 77 CI.	_ ~ ~′	
$\overline{\mathbb{Z}_{2,2}}$	weak	$\frac{0.490 \text{ C}cc}{2^{001}*}$	$\frac{m}{2_{00\frac{1}{2}}^{010}}*$	i	$\frac{200 - 200}{200 \frac{1}{2}}$	$\mathbb{Z}_2$ $\Lambda_{\mathrm{BS}}$ -	- Z <sub>2,2</sub> S1 ·	$-z_{2P,2},z_{2}$	<u>P</u>
$\frac{22,2}{00}$	$(\overline{2}20)$	0	$\frac{^{2}00\frac{1}{2}^{*}}{0}$	$\frac{\iota}{0}$	$\frac{z_{00\frac{1}{2}}}{0}$				
00	(000)	0	0	0	0				
01	(000)	1	1	1	0				
10	$\overline{(110)}$	0	0	0	0				
11	$(\bar{1}10)$	1	1	1	0				
		66.498	$C_c ccm$		ication =		$=\mathbb{Z}_2$ SI	$=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$2^{001}$	$2^{010}*$	i	$2^{100}*$	$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
0	(000)	0	0	0	0	0	$2\overline{2}00$		
1	(000)	1	0	1	1	1	1 <u>1</u> 00	,	
777	l-	66.499	$\frac{C_a ccm}{2^{001}}$	Classif	ication =	$= \mathbb{Z}_M - X_{BS}$	$\frac{S = \mathbb{Z}_2  \text{SI}}{Cm_{(2)}^{001}}$	$=z'_{2P}$	
$\frac{\mathbb{Z}_2}{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$		$2_{00\frac{1}{2}}^{010}$	$\frac{i}{2}$	$2_{00\frac{1}{2}}^{100}$			
$\frac{0}{0}$	(000)	0	0	0	0	0	$\frac{2\overline{2}00}{2\overline{2}00}$		
$\frac{0}{1}$	(000)	1	0	0	1	0	$\frac{2200}{1\overline{1}00}$		
	(000)	66.500	$C_Accm$		fication =			$=z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$\frac{2_{000}^{001}*}{2_{000}^{001}}$	$2_{0\frac{1}{2}0}^{010}*$	<i>i</i> *	$\frac{2_{M}^{100}}{2_{0\frac{1}{2}0}^{100}}$	$\frac{S - Z_2 S_1}{Cm_{(2)}^{001}}$	$\frac{-z_2p}{Cm_{(2)}^{010}}$	
$\frac{-2}{0}$	(000)	0	0	$\frac{-0\frac{1}{2}0}{0}$	0	$\frac{-0\frac{1}{2}0}{0}$	$\frac{2\overline{200}}{2\overline{200}}$	$\frac{2\overline{2}}{2\overline{2}}$	
0	(000)	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$	00	
0	(000)	0	0	0	0	0	0000	$2\overline{2}$	
1	(000)	1	1	1	0	0	$1\overline{1}00$	$1\overline{1}$	
		67.501	Cmma	Classif	fication =	$=\mathbb{Z}_M^2$ $X_{\mathrm{BS}}$	$S = \mathbb{Z}_2$ SI	$=z_{2P}'$	
$\mathbb{Z}_2$	weak	$2_{0\frac{1}{2}0}^{001}$	$2^{010}_{0\frac{1}{2}0}$	i	$2^{100}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$		
0	(000)	0	0	0	0	$2\overline{2}$	$2\overline{2}$		
0	(000)	0	0	0	0	$2\overline{2}$	00		
0	(000)	0	0	0	0	00	$\frac{2\overline{2}}{1\overline{4}}$		
1	(000)	0	0	1	0	11	11		,
		$\frac{7.505 Cm'}{2001}$			$on = \mathbb{Z} \times 2^{100} *$	$\mathbb{Z}_2$ $\mathbb{Z}_{\mathrm{BS}}$	$=\mathbb{Z}_{2,2}$ SI	$=z_{2P,3},z$	
$\mathbb{Z}_{2,2}$	weak	$2_{0\frac{1}{2}0}^{001}$	$2^{010}_{0\frac{1}{2}0}*$	$\frac{i}{2}$					
00	(002)	0	0	0	0				
$\frac{00}{01}$	(000)	0	0	0	0				
10	(000)	0	0	0	0				
11	(001)	0	1	1	1				
	67	.506 Cmn	η'a' Cla	ssificatio	$\mathrm{on}=\mathbb{Z}_M$	$\times \mathbb{Z}$ $X_{BS}$	$=\mathbb{Z}_{2,2}$ SI	$=z_{2P,2},z_{2P,2}$	$\overline{z'_{2P}}$
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{0\frac{1}{2}0}*$	$2^{010}_{0\frac{1}{2}0}*$	i	2100	$Cm_{(2)}^{100}$	,	,-/	
00	$(2\overline{2}0)$	0	0	0	0	22			
00	(000)	0	0	0	0	$2\overline{2}$			

	(000)	0	0	0	0	$\overline{22}$			
01	(000)	1	1	1	0	$1\overline{1}$			
10	$(1\overline{1}0)$	0	0	0	0	11			
11	$(1\overline{1}0)$	1	1	1	0	20			
		67.508	$C_cmma$	Classi	fication =	$=\mathbb{Z}_M^2$	$X_{BS} = \mathbb{Z}_2$ Since	$I=z_{2P}'$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$2^{001}_{0\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}0}$	i	$2^{100}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}$	
0	(000)	0	0	0	0	0	$2\overline{2}$	00	
0	(000)	0	0	0	0	0	00	$2\overline{2}$	
1	(000)	1	0	0	1	0	$1\overline{1}$	$1\overline{1}$	
		67.509	$C_amma$	Classi	fication =	$=\mathbb{Z}_M^2$	$X_{BS} = \mathbb{Z}_2$ S	$\mathrm{I}=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}_{0\frac{1}{2}0}$	$2_{0\frac{1}{2}0}^{100}*$	$i_{0\frac{1}{2}0}*$	2010*	$\frac{\mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_2}{Cm_{(2)}^{010}}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}$	
0	(000)	0	0	0	0	0	$2\overline{2}$	00	
0	(000)	0	0	0	0	0	00	$2\overline{2}$	
1	(000)	1	0	1	0	1	11	11	
		67.510	$C_Amma$	Classi		$=\mathbb{Z}_M^2$	$X_{BS} = \mathbb{Z}_2$ S	$I=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}_{0\frac{1}{2}0}*$	$2^{100}_{0\frac{1}{2}\frac{1}{2}}*$	$i_{0\frac{1}{2}\frac{1}{2}}*$	$2_{00\frac{1}{2}}^{010}$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}$	
0	(000)	0	0	0	0	0	$2\overline{2}00$	00	
0	(000)	0	0	0	0	0	0000	$2\overline{2}$	
1	(000)	1	1	1	0	0	$1\overline{1}00$	11	
		68.511			cation =	$\mathbb{Z}_2$ $X_{\mathbb{F}}$	$_{\mathrm{BS}}=\mathbb{Z}_{2}$ SI =	$=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$2^{001}_{0\frac{1}{2}0}$	$2_{00\frac{1}{2}}^{010}$	i	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$				
0	(000)	0	0	0	0				
1	(000)	0	0	1	0				
	68	.515  Cc'c'		ification		$_{2}$ $X_{\mathrm{BS}}$	$=\mathbb{Z}_{2,2}$ SI $=$	$z_{2P}', z_{2,68.51}$	5
$\mathbb{Z}_{2,2}$	weak	$2_{0\frac{1}{2}0}^{001}$	$2^{010}_{00\frac{1}{2}}*$	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 11	(000)	0	0	1	1 0				
	/					F77 3.7	<i>77</i> OT		
	_	58.516 Ccc			$n = \mathbb{Z} \times \frac{100}{100}$	$\mathbb{Z}_2$ $X_{\mathrm{B}}$	$S = \mathbb{Z}_{2,2}$ SI	$=z_{2P,2},z_{2P}$	
$\mathbb{Z}_{2,2}$	weak	$2_{0\frac{1}{2}0}^{001}*$	$2^{010}_{00\frac{1}{2}}*$	i	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$				
00	$(2\overline{2}0)$	0	0	0	0				
00 01	(000)	0	0	0	0				
$\frac{01}{10}$	(110)	0	0	0	0				
11	(110)	1	1	1	0				
	. ~/	68.518			ication =	- 7/2 X	$_{\mathrm{BS}}=\mathbb{Z}_{2}$ SI	$=z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\{1 00\frac{1}{2}\}*$	2001	$2^{100}_{0\frac{1}{2}0}*$	$\frac{i}{i}$	$\frac{2^{010}*}{2^{010}}$	ں س∠ ب	~2P	
0	(000)	0	$\frac{z_{0\frac{1}{2}0}}{0}$	$\frac{-0\frac{1}{2}0}{0}$	0	0			
$\frac{0}{1}$	(000)	1	0	1	1	1			
	/	68.519	Cacca	Classif	ication =		$_{\mathrm{BS}}=\mathbb{Z}_{2}$ SI	$=z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2_{0\frac{1}{2}0}^{001}$	$2_{0\frac{1}{2}\frac{1}{2}}^{010} *$	$\frac{i_{0\frac{1}{2}0}*}{i_{0\frac{1}{2}0}}$	$\frac{2^{100}}{2^{100}}$ *	DO 22 DI	~2P	
$\frac{-2}{0}$	(000)	0	$\frac{-0\frac{1}{2}0}{0}$	$\frac{-0\frac{1}{2}\frac{1}{2}}{0}$	$\frac{0\frac{1}{2}0}{0}$	$\frac{-00\frac{1}{2}}{0}$			
$\frac{0}{1}$	(000)	1	0	1	0	1			
	/	68.520			ication =	= 7/2 X	$_{\mathrm{BS}}=\mathbb{Z}_{2}$ SI	$=z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2_{0\frac{1}{2}0}^{001}$	$2_{00\frac{1}{2}}^{010}$	$i_{0\frac{1}{2}\frac{1}{2}}*$	$\frac{2^{100}}{2^{100}_{0\frac{1}{2}\frac{1}{2}}}$	DO 22 DI	~2P	
$\frac{2}{0}$	(000)	0	$\frac{2_{0\frac{1}{2}0}}{0}$	$\frac{200\frac{1}{2}}{0}$	$\frac{v_{0\frac{1}{2}\frac{1}{2}}}{0}$	$\frac{2_{0\frac{1}{2}\frac{1}{2}}}{0}$			
$\frac{0}{1}$	(000)	1	0	0	0	0			
	1 (200)	69.521	Fmmm		fication =		$X_{BS} = \mathbb{Z}_4$ Since	$I = z'_{4P}$	
$\mathbb{Z}_4$	weak	$2^{001}$	$\frac{1^{6} mmm}{2^{010}}$	i	$\frac{110011 - 110011}{2^{100}}$	$\frac{- \omega_M}{Cm_{(2)}^{001}}$	$\frac{A_{\rm BS} - Z_4}{Cm_{(2)}^{010}}$	$\frac{1 - z_{4P}}{Cm_{(2)}^{100}}$	
$\frac{\omega_4}{0}$	(000)	0	0	0	0	$\frac{Cm_{(2)}}{4\overline{4}}$	$\frac{Cm_{(2)}}{4\overline{4}}$	$\frac{6m_{(2)}}{4\overline{4}}$	
~	(300)	V	~	~	~				

	(000)	0	0	0	0	00	$\overline{2}2$	20		
$\frac{0}{0}$	(000)	0	0	0	0	$\frac{00}{22}$	00	$\frac{22}{22}$		
$\frac{0}{0}$	(000)	0	0	0	0	$\frac{22}{22}$	$\frac{\overline{2}2}{\overline{2}}$	00		
$\frac{}{3}$	(000)	0	0	1	0	$\frac{22}{1\overline{1}}$	$\frac{22}{1\overline{1}}$	$\frac{00}{1\overline{1}}$		
$\frac{3}{2}$	(000)	0	0	0	0	$\frac{11}{2\overline{2}}$	$\frac{11}{2\overline{2}}$	$\frac{11}{2\overline{2}}$		
$\frac{2}{1}$	(000)	0	0	1	0	$\frac{22}{3\overline{3}}$	$\frac{22}{3\overline{3}}$	$\frac{22}{3\overline{3}}$		
		524 Fm'r						$\overline{\mathrm{SI} = z_{2P,2}},$	7' D	_
$\overline{\mathbb{Z}_{2,2}}$	weak	$\frac{524 - 1 \cdot nt \cdot r}{2^{001}}$	$\frac{7010}{2^{010}}$ *	i	$\frac{01 - 21_{M}}{2^{100}}*$	$Cm_{(2)}^{001}$	BS = 22,2	51 - 22P, 2,	≈2P	
00	$(\overline{220})$	0	0	0	0	$\frac{22}{22}$				
00	(000)	0	0	0	0	$\frac{-\overline{2}}{2}$				
00	(000)	0	0	0	0	$2\overline{2}$				
01	(000)	0	1	1	1	$1\overline{1}$				
10	$\overline{(110)}$	0	0	0	0	11				
11	$(\overline{110})$	0	1	1	1	20				
		69.526	$F_Smmm$	Class	ification =	$=\mathbb{Z}_M^3$	$X_{BS} = \mathbb{Z}_4$ S	$SI = z'_{4P}$		_
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$2^{001}$	$2^{010}$	i	$2^{100}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{001}$	
0	(000)	0	0	0	0	0	$4\overline{4}$	$4\overline{4}$	$4\overline{4}$	
0	(000)	0	0	0	0	0	00	$\overline{2}2$	$\overline{2}2$	
0	(000)	0	0	0	0	0	$\overline{2}2$	00	$\overline{2}2$	
0	(000)	0	0	0	0	0	$\overline{2}2$	$\overline{2}2$	00	
3	(000)	1	0	0	1	0	$1\overline{1}$	$1\overline{1}$	$1\overline{1}$	
2	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}$	$2\overline{2}$	
1	(000)	1	0	0	1	0	33	33	33	
		70.527	7 Fddd		ication =	$\mathbb{Z}_2$ X	$_{\mathrm{BS}}=\mathbb{Z}_{2}$ SI	$=z_{2P}^{\prime}$		
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{4}\frac{1}{4}0}$	$2^{010}_{\frac{1}{4}0\frac{1}{4}}$	i	$2_{0\frac{1}{4}\frac{1}{4}}^{100}$					
0	(000)	0	0	0	0					
1	(000)	0	0	1	0					
			Fd'd'd	Classific	$ation = \mathbb{Z}$	$\mathbb{Z}  imes \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$		
$\mathbb{Z}_2$	weak	$2^{001}_{\frac{1}{4}\frac{1}{4}0}$	$2^{010}_{\frac{1}{4}0\frac{1}{4}}*$	i	$2^{100}_{0\frac{1}{4}\frac{1}{4}}*$					
0	(000)	0	0	0	0					
0	(220)	0	1	0	1					
1	(000)	0	1	1	1					
	(000)	U								
	(000)	70.532		Classi	fication =		$\mathbb{I}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI}$	$=z_{2P}'$		
$\mathbb{Z}_2$	weak		$F_S ddd$ $2^{001}_{\frac{1}{4},\frac{1}{4},0}$	Classi $2^{010}_{\frac{1}{4}0^{\frac{1}{4}}}$			$\mathbb{I}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI}$	$=z_{2P}'$		
$\frac{\mathbb{Z}_2}{0}$		70.532	$\begin{array}{c} F_S ddd \\ 2^{001}_{\frac{1}{4},\frac{1}{4},0} \\ 0 \end{array}$	Classi $2^{010}_{\frac{1}{4}0\frac{1}{4}}$ 0	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0}^{*} $	$ \begin{array}{c c}  & \mathbb{Z}_2 & X \\ \hline 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ \hline 0 \end{array} $	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI}$	$=z_{2P}'$		
	weak	$70.532$ $\{1 \frac{1}{2},\frac{1}{2},\frac{1}{2}\}*$	$2^{001}_{\frac{1}{4}\frac{1}{4}0}$	$2^{010}_{\frac{1}{4}0\frac{1}{4}}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{100}_{0\frac{1}{4}\frac{1}{4}}$	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2$ SI	$=z'_{2P}$		
0	weak (000)	$70.532$ $\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$ $0$ $1$ $71.533$	$ \begin{array}{c} 2_{\frac{1}{4}\frac{1}{4}0}^{001} \\ 0 \\ 0 \\ Immm \end{array} $	$ \begin{array}{c} 2_{\frac{1}{4}0\frac{1}{4}}^{010} \\ 0 \\ 0 \end{array} $	$     i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{*} \\     0 \\     0 \\     fication = $	$ \begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ 0 \end{array} $	$X_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI}$ $X_{\mathrm{BS}} = \mathbb{Z}_4  \mathrm{SI}$			
0	weak (000)	$ 70.532 {1 \frac{1}{2}\frac{1}{2}\frac{1}{2}}* 0 $ 1	$ \begin{array}{c} 2_{\frac{1}{4},\frac{1}{4}0}^{001} \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2_{\frac{1}{4}0\frac{1}{4}}^{010} \\ 0 \\ 0 \end{array} $	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{*}$ 0	$ \begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ 0 \end{array} $	$X_{ ext{BS}} = \mathbb{Z}_4  ext{ S}$ $Cm_{(2)}^{010}$			
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_4\\ 0 \end{array} $	weak (000) (000) weak (000)	$70.532$ $\{1 \frac{1}{2} \frac{1}{2} \frac{1}{2} \}*$ $0$ $1$ $71.533$ $2^{001}$ $0$	$ \begin{array}{c} 2_{\frac{1}{4}\frac{1}{4}0}^{001} \\ 0 \\ 0 \\ Immm \\ 2^{010} \\ 0 \end{array} $	$ \begin{array}{c} 2_{\frac{1}{4}0\frac{1}{4}}^{010} \\ 0 \\ 0 \end{array} $ Classi $ i \\ 0 $	$     \begin{array}{c}       i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\       0 \\       0 \\       \hline       0 \\       \hline       fication = \\       2^{100} \\       \hline       0     \end{array} $	$ \begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ \hline 0 \\ Cm_{(2)}^{001} \end{array} $	$X_{\rm BS} = \mathbb{Z}_4  { m S} $ $Cm_{(2)}^{010}$ $44$	$ I = z'_{4P}  Cm_{(2)}^{100}  44 $		
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_4\\ 0\\ 0 \end{array} $	weak (000) (000) weak (000) (000)	$70.532$ $\{1 \frac{1}{2} \frac{1}{2} \frac{1}{2} *$ $0$ $1$ $71.533$ $2^{001}$ $0$ $0$	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ \hline 0 \\ Immm \\ 2^{010} \\ 0 \\ \end{array}$	$ \begin{array}{c} 2_{\frac{1}{4}0}^{010} \\ 0 \\ 0 \end{array} $ Classi $ \begin{array}{c} i \\ 0 \\ 0 \end{array} $	$     \begin{array}{r}       i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\       0 \\       0 \\       \hline       0 \\       \hline       fication = \\       \hline       2^{100} \\       \hline       0 \\       \hline       0     \end{array} $	$ \begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ \hline 0 \\ \hline Cm_{(2)}^{001} \\ 44 \\ 00 \end{array} $	$X_{\rm BS} = \mathbb{Z}_4  { m S}$ $Cm_{(2)}^{010}$ $44$ $\overline{2}2$			
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 0 \end{array} $	weak (000) (000) (000) (000) (000)	$70.532$ $\{1 \frac{1}{2} \frac{1}{2} \frac{1}{2} *$ $0$ $1$ $71.533$ $2^{001}$ $0$ $0$ $0$	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ 0 \\$	$ \begin{array}{c} 2_{\frac{1}{4}0\frac{1}{4}}^{010} \\ 0 \\ 0 \end{array} $ Classi $ \begin{array}{c} i \\ 0 \\ 0 \end{array} $	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} = 0 $ fication = $ \frac{2^{100}}{0} $ 0 0	$ \begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ \hline 0 \\ \hline Cm_{(2)}^{001} \\ 44 \\ \hline 00 \\ \hline 22 \end{array} $	$X_{\text{BS}} = \mathbb{Z}_4  \text{S}$ $Cm_{(2)}^{010}$ $44$ $\overline{2}2$ $00$	$\begin{array}{c} \mathbf{I} = z'_{4P} \\ \underline{Cm'^{100}_{(2)}} \\ \underline{44} \\ \underline{\bar{2}2} \\ \underline{\bar{2}2} \end{array}$		
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	weak (000) (000) (000) (000) (000) (000)	$70.532$ $\{1 \frac{1}{2} \frac{1}{2} \frac{1}{2} *$ $0$ $1$ $71.533$ $2^{001}$ $0$ $0$ $0$ $0$	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ \hline 0 \\ \hline Immm \\ 2^{010} \\ 0 \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} 2_{\frac{1}{4}0\frac{1}{4}}^{010} \\ 0 \\ 0 \end{array} $ Classi $ \begin{array}{c} i \\ 0 \\ 0 \\ 0 \end{array} $	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} = 0 $ fication = $ \frac{2^{100}}{0} $ 0 0 0	$ \begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ \hline 0 \\ Cm_{(2)}^{001} \\ 44 \\ 00 \\ \hline 22 \\ \hline 22 \end{array} $	$X_{BS} = \mathbb{Z}_4  S$ $Cm_{(2)}^{010}$ $\frac{44}{22}$ $00$ $\overline{2}2$	$\begin{array}{c} \mathbf{I} = z_{4P}' \\ \underline{Cm_{(2)}^{100}} \\ \underline{44} \\ \underline{\bar{2}2} \\ \underline{\bar{2}2} \\ 00 \end{array}$		
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 3 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000)	$70.532$ $\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$ $0$ $1$ $71.533$ $2^{001}$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ \hline 0 \\ \hline \\ Immm \\ 2^{010} \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} 2_{\frac{1}{4}0\frac{1}{4}}^{010} \\ 0 \\ 0 \\ Classi \\ i \\ 0 \\ 0 \\ 0 \\ 1 \end{array} $	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} = 0 $ fication = $ \frac{2^{100}}{0} = 0 $ $0$ $0$ $0$ $0$	$ \begin{array}{c c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ \hline 0 \\ \hline Cm_{(2)}^{001} \\ 44 \\ 00 \\ \hline 22 \\ \hline 22 \\ \hline 11 \end{array} $		$\begin{array}{c} \mathbf{I} = z'_{4P} \\ Cm_{(2)}^{100} \\ \underline{44} \\ \overline{22} \\ \overline{22} \\ \overline{22} \\ 00 \\ 1\overline{1} \end{array}$		
$ \begin{array}{c c} 0 \\ 1 \\ \hline  & \\  & \\ 0 \\ 0 \\ 0 \\ 0 \\ 3 \\ 2 \end{array} $	weak   (000)	$70.532$ $\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$ $0$ $1$ $71.533$ $2^{001}$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 2^{010}_{\frac{1}{4}0\frac{1}{4}} \\ 0 \\ 0 \\ \end{array}$	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} = 0 $ fication = $ \frac{2^{100}}{0} = 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $	$ \begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ \hline 0 \\ Cm_{(2)}^{001} \\ 44 \\ 00 \\ \hline 22 \\ \hline 22 \\ \hline 1\overline{1} \\ 2\overline{2} \end{array} $	$     \begin{array}{c}                                     $	$\begin{array}{c} \overline{\mathbf{I}} = z'_{4P} \\ Cm_{(2)}^{100} \\ 4\overline{4} \\ \overline{22} \\ \overline{22} \\ \overline{22} \\ 00 \\ \overline{11} \\ \overline{22} \\ \end{array}$		
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 3 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ 70.532 $ $ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* $ $ 0 $ $ 1 $ $ 71.533 $ $ 2^{001} $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 2^{010}_{\frac{1}{4}0\frac{1}{4}} \\ 0 \\ 0 \\ \end{array}$	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} = 0 $ fication = $ \frac{2^{100}}{0} $ 0 0 0 0 0 0 0	$ \begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ \hline 0 \\ Cm_{(2)}^{001} \\ 44 \\ 00 \\ \hline 22 \\ \hline 22 \\ \hline 11 \\ 22 \\ 3\overline{3} \end{array} $		$\begin{array}{c} \overline{\mathbf{I}} = z_{4P}' \\ \underline{Cm_{(2)}^{100}} \\ \underline{44} \\ \overline{2}2 \\ \overline{2}2 \\ \underline{00} \\ 1\overline{1} \\ \underline{22} \\ \underline{33} \end{array}$		
$ \begin{array}{c c} 0 \\ \hline 1 \\ \hline 2_4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \end{array} $	weak (000) (	$     \begin{array}{c}       70.532 \\       \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\       0 \\       1 \\       \hline       71.533 \\       2^{001} \\       0 \\      $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 2^{010}_{\frac{1}{4}0\frac{1}{4}} \\ 0 \\ 0 \\ \end{array}$ Classi $i$ 0 0 0 0 0 0 1 0 1 ssification	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} = \frac{i_{\frac{1}{2}\frac{1}{2}}}{0} $ fication = $ \frac{2^{100}}{0} = \frac{0}{0} $ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$ \begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ \hline 0 \\ Cm_{(2)}^{001} \\ 44 \\ 00 \\ \hline 22 \\ \hline 22 \\ \hline 11 \\ 22 \\ \hline 3\overline{3} \\ \times \mathbb{Z}  X \end{array} $	$     \begin{array}{c}                                     $	$\begin{array}{c} \overline{\mathbf{I}} = z'_{4P} \\ Cm_{(2)}^{100} \\ 4\overline{4} \\ \overline{22} \\ \overline{22} \\ \overline{22} \\ 00 \\ \overline{11} \\ \overline{22} \\ \end{array}$	$z_{2P}^{\prime}$	
$egin{array}{c} 0 \\ 1 \\ \hline & \mathbb{Z}_4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline & \mathbb{Z}_{2,2} \\ \end{array}$	weak (000) (	$   \begin{array}{c}     70.532 \\     \hline                               $	$ \begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2^{010}_{\frac{1}{4}0\frac{1}{4}} \\ 0 \\ 0 \\ \hline 0 \\ Classi \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline \end{array}$	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}*}{0}}{0} $ 0 fication = $\frac{2^{100}}{0}$ 0 0 0 0 0 0 0 $\frac{0}{0}$ 2 $\frac{0}{0}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{0}{0}$ $\frac{1}{0}$ $\frac{1}{0}$ $\frac{1}{0}$ $\frac{1}{0}$	$\begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ \hline 0 \\ \hline Cm_{(2)}^{001} \\ \hline 44 \\ 00 \\ \hline 22 \\ \hline 22 \\ \hline 1\overline{1} \\ 2\overline{2} \\ \hline 3\overline{3} \\ \hline \times \mathbb{Z} \begin{array}{c} X \\ X \\ Cm_{(2)}^{001} \\ \hline \end{array}$	$     \begin{array}{c}                                     $	$\begin{array}{c} \overline{\mathbf{I}} = z_{4P}' \\ \underline{Cm_{(2)}^{100}} \\ \underline{44} \\ \overline{2}2 \\ \overline{2}2 \\ \underline{00} \\ 1\overline{1} \\ \underline{22} \\ \underline{33} \end{array}$	$z_{2P}^{\prime}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_4\\ 0\\ 0\\ 0\\ 0\\ 3\\ 2\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ \end{array} $	weak (000) (	$   \begin{array}{c}     70.532 \\     \hline                               $	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2^{10}_{\frac{1}{4}0\frac{1}{4}} \\ 0 \\ 0 \\ \hline 0 \\ Classi \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ ssification \\ i \\ 0 \\ \end{array}$	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} = 0 $ fication = $ \frac{2^{100}}{0} = 0 $ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$ \begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ \hline 0 \\ \hline C m_{(2)}^{001} \\ 44 \\ 00 \\ \hline 22 \\ \hline 21 \\ \hline 22 \\ \hline 33 \\ \hline X \\ C m_{(2)}^{001} \\ 22 \\ \hline 24 \\ \hline 25 \\ \hline 26 \\ \hline 27 \\ \hline 27 \\ \hline 27 \\ \hline 27 \\ \hline 28 \\ 28 \\ \hline 28 \\ \hline 28 \\ \hline 28 \\ 28 \\ \hline 28 \\  28 \\$	$     \begin{array}{c}                                     $	$\begin{array}{c} \overline{\mathbf{I}} = z_{4P}' \\ \underline{Cm_{(2)}^{100}} \\ \underline{44} \\ \overline{2}2 \\ \overline{2}2 \\ \underline{00} \\ 1\overline{1} \\ \underline{22} \\ \underline{33} \end{array}$	$z_{2P}^{\prime}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_4\\ 0\\ 0\\ 0\\ 0\\ 3\\ 2\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ \end{array} $	weak (000) (000)  weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (222) (000)	$   \begin{array}{c}     70.532 \\     \hline                               $	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2^{010}_{\frac{1}{4}0\frac{1}{4}} \\ 0 \\ 0 \\ \hline 0 \\ \hline Classi \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline ssification \\ i \\ 0 \\ 0 \\ 0 \\ \end{array}$	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}*}{0}}{0} $ 0 fication = $ \frac{2^{100}}{0} $ 0 0 0 0 0 0 $ \frac{0}{0} $ 2 $ \frac{0}{0} $ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ \hline 0 \\ \hline C M_{(2)}^{001} \\ 44 \\ 00 \\ \hline 22 \\ \hline 22 \\ \hline 33 \\ \hline X Z X \\ \hline C M_{(2)}^{001} \\ 22 \\ \hline 23 \\ \hline 24 \\ \hline 25 \\ \hline 26 \\ \hline 27 \\ \hline 27 \\ \hline 27 \\ \hline 28 \\ \hline 29 \\ \hline 29 \\ \hline 20 \\ 20 \\ \hline 20 \\  20 \\$	$     \begin{array}{c}                                     $	$\begin{array}{c} \overline{\mathbf{I}} = z_{4P}' \\ \underline{Cm_{(2)}^{100}} \\ \underline{44} \\ \overline{2}2 \\ \overline{2}2 \\ \underline{00} \\ 1\overline{1} \\ \underline{22} \\ \underline{33} \end{array}$	$z_{2P}^{\prime}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_4\\ 0\\ 0\\ 0\\ 0\\ 3\\ 2\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 00\\ 00 \end{array} $	weak (000) (000)  weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$   \begin{array}{c}     70.532 \\     \hline                               $	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2^{010}_{\frac{1}{4}0\frac{1}{4}} \\ 0 \\ 0 \\ \hline Classi \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ ssification \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} $ 0 fication = $ \frac{2^{100}}{0} $ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 2^{100}_{0\frac{1}{4}\frac{1}{4}} \\ 0 \\ 0 \\ \hline 0 \\ \hline Cm^{001}_{(2)} \\ 44 \\ 00 \\ \hline 22 \\ \hline 22 \\ \hline 1\overline{1} \\ 2\overline{2} \\ \hline 3\overline{3} \\ \hline \times \mathbb{Z} \begin{array}{c} X \\ X \\ Cm^{001}_{(2)} \\ \hline 22 \\ \hline 22 \\ \hline 2\overline{2} \\ \hline \end{array}$	$     \begin{array}{c}                                     $	$\begin{array}{c} \overline{\mathbf{I}} = z_{4P}' \\ \underline{Cm_{(2)}^{100}} \\ \underline{44} \\ \overline{2}2 \\ \overline{2}2 \\ \underline{00} \\ 1\overline{1} \\ \underline{22} \\ \underline{33} \end{array}$	$z_{2P}^{\prime}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_4\\ 0\\ 0\\ 0\\ 0\\ 3\\ 2\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 00\\ 01\\ \end{array} $	weak (000) (000)  weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$   \begin{array}{c}     70.532 \\     \hline                               $	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ 0 \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2^{010}_{\frac{1}{4}0\frac{1}{4}} \\ 0 \\ 0 \\ \hline \\ Classi \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \\ 0 \\ 0 \\ 0 \\ 1 \\ \end{array}$	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} = \frac{i_{\frac{1}{2}\frac{1}{2}}}{0} $ fication = $ \frac{2^{100}}{0} = \frac{0}{0} $ $ \frac{0}{0} = \frac{0}{0} $ on = $\frac{\mathbb{Z}_{M}}{2^{100}} = \frac{0}{0} $ on = 0 0 0 1	$\begin{array}{c} 2^{100}_{0\frac{1}{4}\frac{1}{4}} \\ 0 \\ 0 \\ \hline 0 \\ \hline Cm^{001}_{(2)} \\ 44 \\ \hline 00 \\ \hline 22 \\ \hline 22 \\ \hline 1\overline{1} \\ \hline 2\overline{2} \\ \hline 3\overline{3} \\ \hline \times \mathbb{Z}  X \\ \hline Cm^{001}_{(2)} \\ \hline 22 \\ \hline 22 \\ \hline 2\overline{2} \\ \hline 2\overline{2} \\ \hline 1\overline{1} \\ \hline \end{array}$	$     \begin{array}{c}                                     $	$\begin{array}{c} \overline{\mathbf{I}} = z_{4P}' \\ \underline{Cm_{(2)}^{100}} \\ \underline{44} \\ \overline{2}2 \\ \overline{2}2 \\ \underline{00} \\ 1\overline{1} \\ \underline{22} \\ \underline{33} \end{array}$	$z_{2P}^{\prime}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_4\\ 0\\ 0\\ 0\\ 0\\ 3\\ 2\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 00\\ 01\\ 10\\ \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (111)	$     \begin{array}{c}       70.532 \\       \hline       70.532 \\       \hline       1 & 1 & 1 & 1 \\       \hline       1 & 1 & 1 & 1 \\       \hline       71.533 \\       \hline       2001 \\       \hline       0 \\       0 \\       \hline       0 \\       0 \\       \hline       0 \\       0 \\       \hline       0 \\       \hline       0 \\       \hline       0 \\       0 \\       \hline       0 \\       \hline       0 \\       \hline       0 \\       0 \\       \hline       0 \\       0 \\       \hline       0 \\       0 \\       0 \\       \hline       0 \\       \hline       0 \\       0 \\       0 \\       \hline       0 \\       0 \\       0 \\       0 \\       \hline       0 \\   $	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ \hline \\ 0 \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2^{010}_{\frac{1}{4}0\frac{1}{4}} \\ 0 \\ 0 \\ \hline Classi \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ ssification \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} = \frac{i_{\frac{1}{2}\frac{1}{2}}}{0} $ fication = $ \frac{2^{100}}{0} = \frac{0}{0} $ $ \frac{0}{0} = \frac{0}{0} $ $ \frac{0}{0} = \frac{\mathbb{Z}_{M}}{2^{100}} = \frac{0}{0} $ $ \frac{0}{0} = \frac{0}{0} $ $ \frac{0}$	$\begin{array}{c} 2^{100}_{0\frac{1}{4}\frac{1}{4}} \\ 0 \\ 0 \\ \hline 0 \\ \hline C m^{001}_{(2)} \\ 44 \\ \hline 00 \\ \hline 22 \\ \hline 22 \\ \hline 1\overline{1} \\ 2\overline{2} \\ \hline 3\overline{3} \\ \hline \times \mathbb{Z}                                   $	$     \begin{array}{c}                                     $	$\begin{array}{c} \overline{\mathbf{I}} = z_{4P}' \\ \underline{Cm_{(2)}^{100}} \\ \underline{44} \\ \overline{2}2 \\ \overline{2}2 \\ \underline{00} \\ 1\overline{1} \\ \underline{22} \\ \underline{33} \end{array}$	$z_{2P}^{\prime}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_4\\ 0\\ 0\\ 0\\ 0\\ 3\\ 2\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 00\\ 01\\ \end{array} $	weak (000) (000)  weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$   \begin{array}{c}     70.532 \\     \hline     70.532 \\     \hline     1                          $	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ 0 \\ \hline \\ Immm \\ 2^{010} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2^{010}_{\frac{1}{4}0\frac{1}{4}} \\ 0 \\ 0 \\ \hline \text{Classi} \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} = \frac{i_{\frac{1}{2}\frac{1}{2}}}{0} $ fication = $ \frac{2^{100}}{0} = \frac{0}{0} $ $ \frac{0}{0} = \frac{0}{0} $ $ \frac{0}{0} = \frac{\mathbb{Z}_{M}}{2^{100}} = \frac{0}{0} $ $ \frac{0}{0} = \frac{1}{0} $	$\begin{array}{c} 2^{100}_{0\frac{1}{4}\frac{1}{4}} \\ 0 \\ 0 \\ \hline 0 \\ \hline C m^{001}_{(2)} \\ 44 \\ 00 \\ \hline 22 \\ \hline 22 \\ \hline 22 \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ \hline \times \mathbb{Z} X \\ \hline C m^{001}_{(2)} \\ 22 \\ \hline 22 \\ \hline 22 \\ \hline 11 \\ \hline 11 \\ 20 \\ \end{array}$	$     \begin{array}{c}                                     $	$egin{array}{c} I = z'_{4P} & Cm^{100}_{(2)} & 4\overline{4} & \overline{2}2 & \overline{2}2 & 00 & 1\overline{1} & \overline{2}\overline{2} & \overline{3}\overline{3} & \overline{SI} = z_{2P,2}, & \end{array}$	$z_{2P}^{\prime}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_4\\ 0\\ 0\\ 0\\ 0\\ 0\\ 3\\ 2\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 00\\ 01\\ 10\\ 11 \end{array} $	weak (000) (000)  weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (111) (111)	70.532	$ \begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2^{010}_{\frac{1}{4}0\frac{1}{4}} \\ 0 \\ 0 \\ \hline \text{Classi} \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline \text{Classi} \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \end{array}$	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} = \frac{i_{\frac{1}{2}\frac{1}{2}}}{0} $ fication = $ \frac{2^{100}}{0} = \frac{0}{0} $ $ \frac{0}{0} = \frac{0}{0} $ $ \frac{0}{0} = \frac{\mathbb{Z}_{M}}{2^{100}} = \frac{0}{0} $ $ \frac{1}{0} = \frac{0}{0} $ fication = $\frac{1}{0} = \frac{0}{0}$	$ \begin{array}{c} 2_{0\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ \hline 0 \\ C M_{(2)}^{001} \\ 44 \\ 00 \\ \hline 22 \\ \hline 22 \\ \hline 21 \\ \hline 22 \\ \hline 33 \\ \hline X M_{(2)}^{001} \\ X M_{(2)}^{001} \\ \hline 22 \\ 22 \\ \hline 22 \\ \hline 22 \\ \hline 21 \\ \hline 11 \\ 20 \\ \hline = \mathbb{Z}_{M}^{3} $	$     \begin{array}{c}                                     $	$egin{array}{c} I = z'_{4P} & Cm^{100}_{(2)} & 4\overline{4} & \overline{2}2 & \overline{2}2 & 00 & 1\overline{1} & \overline{2}\overline{2} & \overline{3}\overline{3} & \overline{SI} = z_{2P,2}, & \end{array}$		
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_4\\ 0\\ 0\\ 0\\ 0\\ 3\\ 2\\ 1\\ \hline \mathbb{Z}_{2,2}\\ 00\\ 00\\ 00\\ 01\\ 10\\ \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (111)	$   \begin{array}{c}     70.532 \\     \hline     70.532 \\     \hline     1                          $	$\begin{array}{c} 2^{001}_{\frac{1}{4}\frac{1}{4}0} \\ 0 \\ 0 \\ 0 \\ \hline \\ Immm \\ 2^{010} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2^{010}_{\frac{1}{4}0\frac{1}{4}} \\ 0 \\ 0 \\ \hline \text{Classi} \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} = \frac{i_{\frac{1}{2}\frac{1}{2}}}{0} $ fication = $ \frac{2^{100}}{0} = \frac{0}{0} $ $ \frac{0}{0} = \frac{0}{0} $ $ \frac{0}{0} = \frac{\mathbb{Z}_{M}}{2^{100}} = \frac{0}{0} $ $ \frac{0}{0} = \frac{1}{0} $	$\begin{array}{c} 2^{100}_{0\frac{1}{4}\frac{1}{4}} \\ 0 \\ 0 \\ \hline 0 \\ \hline C m^{001}_{(2)} \\ 44 \\ 00 \\ \hline 22 \\ \hline 22 \\ \hline 22 \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ \hline \times \mathbb{Z} X \\ \hline C m^{001}_{(2)} \\ 22 \\ \hline 22 \\ \hline 22 \\ \hline 11 \\ \hline 11 \\ 20 \\ \end{array}$	$     \begin{array}{c}                                     $	$\begin{array}{c} \overline{\mathbf{I}} = z_{4P}' \\ \underline{Cm_{(2)}^{100}} \\ \underline{44} \\ \overline{2}2 \\ \overline{2}2 \\ \underline{00} \\ 1\overline{1} \\ \underline{22} \\ \underline{33} \end{array}$	$z'_{2P}$ $Cm^{100}_{(2)}$ $44$	

	(000)									
0	(000)	0	0	0	0	0	00	22	<u>22</u>	
0	(000)	0	0	0	0	0	$\overline{2}2$	00	$\overline{2}2$	
0	(000)	0	0	0	0	0	$\overline{2}2$	$\overline{2}2$	00	
3	(000)	1	0	0	1	0	$1\overline{1}$	$1\overline{1}$	$1\overline{1}$	
2	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}$	$2\overline{2}$	
1	(000)	1	0	0	1	0	$3\overline{3}$	33	$3\overline{3}$	
	/	72.539	Ibam	Classifi	iention -	77 V	$=\mathbb{Z}_2$ SI =			
-77	1.	$\frac{12.539}{2^{001}}$	2010		0100 —	$\frac{\omega_M}{C_{\cdots}} \frac{\Lambda_{\rm BS}}{001}$	— <u>Z2</u> 51 -	- ∠2P		
$\mathbb{Z}_2$	weak		$2_{00\frac{1}{2}}^{010}$	i	$2^{100}_{00\frac{1}{2}}$	$Cm_{(2)}^{001}$				
0	(000)	0	0	0	0	$2\overline{2}$				
0	(000)	0	0	0	0	$2\overline{2}$				
1	(000)	0	0	1	0	$1\overline{1}$				
	72	2.543 <i>Ib'a</i>	m Clas	ssificatio	$n = \mathbb{Z}_M \times$	Z Xpc	$=\mathbb{Z}_{2,2}$ SI	= 22P2.2	/ 0.D	
$\overline{\mathbb{Z}_{2,2}}$	weak	2001	$2^{010}_{00\frac{1}{2}}*$	$\frac{i}{i}$	$\frac{1}{2_{00\frac{1}{2}}^{100}}*$	$Cm_{(2)}^{001}$	22,2 51	~21 ,2, ~	2P	
00	$(\overline{22}2)$	0	0	0	0	<u>22</u>				
00	(000)	0	0	0	0	22				
00	(000)	0	0	0	0	22				
01	(000)	0	1	1	1	$1\overline{1}$				
10	$(\overline{111}1)$	0	1	0	1	11				
11	$(\overline{111})$	0	0	1	0	20				
	7	2.544 Iba	m' Cla	ssificatio	$n = \mathbb{Z} \times \mathbb{Z}$	Zo X DC =	$=\mathbb{Z}_{2,2}$ SI =	= 29P9. 20	D D	
$\mathbb{Z}_{2,2}$	weak	$\frac{2.044 10a}{2^{001}*}$	$\frac{n^{t}}{2_{00\frac{1}{2}}^{010}}*$	$\frac{i}{i}$	$\frac{511 - 22 \times 2}{2_{00\frac{1}{2}}^{100}}$	-4 11B5	,2 DI-	~21,2,2,2	i F'	
00	$(2\overline{22})$	0	0	0	0					
00	(000)	0	0	0	0					
01	(000)	1	1	1	0					
10	$(1\overline{11})$	0	0	0	0					
11	$(1\overline{11})$	1	1	1	0					
		72.546	$I_cbam$	Classif	ication =	$\mathbb{Z}_M$ X <sub>BS</sub>	$S = \mathbb{Z}_2$ SI :	$=z_{2P}'$		
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}$	$2^{010}*$	i	2 <sup>100</sup> *	$Cm_{(2)}^{001}$	21		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$			
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$			
$\frac{0}{1}$	(000)	1	0	1	1	1	11			
	(000)			-						
		72.547	$I_bbam$				$S = \mathbb{Z}_2$ 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	$2^{001}$	$Cm_{(2)}^{001}$			
0	(000)	0	0	0	0	0	$2\overline{2}$			
0	(000)	0	0	0	0	0	$2\overline{2}$			
1	(000)	1	1	1	1	0	11			
	(000)		Q Ibaa		iention —			~′		
777		73.54	$\frac{8  Ibca}{2010}$			$\omega_2$ $\Lambda_{\rm BS}$	$=\mathbb{Z}_2$ SI $=$	~2P		
$\mathbb{Z}_2$	weak	$2_{0\frac{1}{2}0}^{001}$	$2^{010}_{\frac{1}{2}00}$	i	$2^{100}_{00\frac{1}{2}}$					
0	(000)	0	0	0	0					
1	(000)	0	0	1	0					
	7	$73.551  ext{ } Ib'$	c'a Clas	sificatio	$n = \mathbb{Z} \times \mathbb{Z}$	$Z_2$ $X_{BS} =$	$=\mathbb{Z}_{2,2}$ SI $=$	$z_{2P.2}, z_2'$	P	
$\overline{\mathbb{Z}_{2,2}}$	weak	$2^{001}_{0\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}*$	i	$2^{100}_{00\frac{1}{2}}*$		-,-	,= , 2.		
00	$(\overline{22}2)$	$\frac{-0\frac{1}{2}0}{0}$	$\frac{-\frac{1}{2}00}{0}$	0	$\frac{-00\frac{1}{2}}{0}$					
00	(000)	0	0	0	0					
01	(000)	0	1	1	1					
10	(111)	0	0	0	1					
11	$(\overline{111})$	0	1	1	0					
		73.553			ication =		$= \mathbb{Z}_2  SI =$	$z_{2P}'$		
$\mathbb{Z}_2$	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	$\frac{0}{2}$ 0	$\frac{0}{2}$ 0	0	0				
$\frac{0}{1}$	(000)	1	0	1	1	1				
	(000)						F77 CT			
		74.554	Imma		$\frac{\text{fication} =}{2^{100}}$	$\mathbb{Z}_{M}$ $X_{\text{BS}}$	$S = \mathbb{Z}_2$ SI =	$=z_{2P}'$		
$\mathbb{Z}_2$	weak	$2_{0\frac{1}{2}0}^{001}$	$2^{010}_{0\frac{1}{2}0}$	i	$2^{100}$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$			
0	(000)	0	0	0	0	$2\overline{2}$	$2\overline{2}$			
0	(000)	0	0	0	0	$2\overline{2}$	00			

0	(000)	0	0	0	0	00	$2\overline{2}$		
$\frac{0}{1}$	(000)	0	0	1	0	$\frac{00}{1\overline{1}}$	$\frac{22}{1\overline{1}}$		
	/							OT /	
		1.558 Im'	$\frac{m'a}{2010}$ C	lassificatio	$\frac{\text{on} = \mathbb{Z} \times}{2^{100} *}$	$\mathbb{Z}_2$ $X_{\mathrm{BS}}$	$=\mathbb{Z}_{2,2}$	$SI = z_{2P,2}, z'_{2P}$	
$\mathbb{Z}_{2,2}$	weak	$2^{001}_{0\frac{1}{2}0}$	$2^{010}_{0\frac{1}{2}0}*$	i	2100*				
00	$(22\overline{2})$	0	0	0	0				
00	(000)	0	0	0	0				
01	(000)	0	1	1	1				
10	$(11\overline{1})$	0	0	0	0				
11	$(11\overline{1})$	0	1	1	1				
	74	.559 <i>Imn</i>	n'a' Cl	assification	$n = \mathbb{Z}_M$	$\times \mathbb{Z} - X_{BS}$	$=\mathbb{Z}_{2 2}$	$SI = z_{2P,2}, z'_{2P}$	
$\overline{\mathbb{Z}_{2,2}}$	weak	$2_{0\frac{1}{2}0}^{001}*$	$2^{010}_{0\frac{1}{2}0}*$	i	$2^{100}$	$Cm_{(2)}^{100}$	2,2	21,2) 21	
00	$(2\overline{22})$	0 = 0	0 = 0	0	0	22			
00	(000)	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$			
						$\frac{22}{2\overline{2}}$			
00	(000)	0	0	0	0				
01	(000)	1	1	1	0	11			
10	(111)	0	0	0	0	11			
11	(111)	1	1	1	0	20			
		74.561	$I_cmm$	a Classifi	ication =	$\mathbb{Z}_M^2$ $X_{\mathrm{B}}$	$_{ m S}=\mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$2^{001}_{0\frac{1}{2}0}$	$2^{010}_{\frac{1}{2}00}*$	$i_{00\frac{1}{2}}*$	$\frac{2M}{2_{00\frac{1}{2}}^{100}}*$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	0	$\frac{\overline{22}}{2}$	$\frac{\overline{22}}{2}$	
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$	00	
0	(000)	0	0	0	0	0	00	$\frac{\overline{22}}{2}$	
$\frac{0}{1}$	(000)	1	0	1	0	1	$\frac{00}{11}$	$\frac{22}{1\overline{1}}$	
	(000)								
	1	74.562	$\frac{I_b m m_b}{2^{010} *}$	a Classifi	$\frac{\text{ication}}{\cdot} =$	$= \mathbb{Z}_M - X_B$	$S = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}0\frac{1}{2}\}*$	2***	$2^{100}_{0\frac{1}{2}0}*$	$i_{0\frac{1}{2}0}*$	$2_{0\frac{1}{2}0}^{001}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{010}$	
0	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}$	
0	(000)	0	0	0	0	0	$2\overline{2}$	00	
0	(000)	0	0	0	0	0	00	$2\overline{2}$	
1	(000)	1	1	1	0	0	$1\overline{1}$	$1\overline{1}$	
		75.	1 P4	Classifica	$tion = \mathbb{Z}$	$X_{BS} = 1$	Z4 SI =	$= z_{4C}$	
$\mathbb{Z}_4$	weak	4001		0100011100			4 01	~40	
0	$(00\overline{4})$	0							
$\frac{3}{3}$	(001)	0							
$\frac{3}{2}$	$(00\overline{2})$	0							
$\frac{2}{1}$	$(00\overline{3})$	0							
	(000)		D 4	C1 10 1	. 77	37	F7 OT	/2	
F77	1	75.5	$P_C4$	Classificat	$ion = \mathbb{Z}_2$	$X_{BS} =$	$\mathbb{Z}_2$ S1 =	$= z_{4C}/2$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	4001						
	(000)	1	0						
		77.13	$P4_2$	Classifica	$tion = \mathbb{Z}$	$X_{BS} = 0$	$\mathbb{Z}_2$ SI =	$= z_{4C}/2$	
$\mathbb{Z}_2$	weak	$4_{00\frac{1}{2}}^{001}$							
0	$(00\overline{4})$	$\frac{1}{2}$							
1	$(00\overline{2})$	<u>-</u> 1							
	1 (- = )	77.17	$P_C4_2$	Classifica	tion = 7	7. V	- 77° CT	$= z_{4C}/2$	
$-\mathbb{Z}_2$	nrool.			Ciassifica	1011 — Z	$I_2  \Lambda_{\rm BS} =$	- <u>2</u> 2 S1	- 24C/2	
	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{00\frac{1}{2}}^{001}$						
0	(000)	1	0	<u> </u>					
		79.2	5 I4	Classificat	$ion = \mathbb{Z}$	$X_{BS} = \mathbb{Z}$	$\mathbb{Z}_2$ $\overline{\mathrm{SI}} =$	$z_{4C}/2$	
$\mathbb{Z}_2$	weak	$4^{001}$							
0	$(22\overline{2})$	0							
1	$(11\overline{1})$	0							
	81.3	33 <i>P</i> 4 C	lassifica	$tion = \mathbb{Z}$	$\times \mathbb{Z}_2 = X$	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_{2,2,4}$	SI =	$z_{2,\text{Weyl}}, z_{2,S_4}, z_{4C}$	
$\overline{\mathbb{Z}_{2,2,4}}$	weak	$\frac{1}{4^{001}}$	$\frac{\bar{4}^{001}}{\bar{4}^{001}}$					=, **Cy17 -2,D47 ~4C	
$\frac{222,2,4}{000}$	(000)	0	0						
	(004)	0	0						
()()()		9	9						
000		0	0						
$\frac{000}{001}$	(001)	0	0						

000	(000)	0	0					
003	(003)	0	0					
$\frac{010}{011}$	(000)	1 1	1					
$\frac{011}{012}$	(001)	1	1					
$\frac{012}{013}$	(002)	1	1					
	(003)			Cl:C+	•	77 V 77	7 CT	
	,	81.36	$\frac{P_c\bar{4}}{\bar{4}^{001}}$	Classificat $\bar{4}^{001}$	10n =	$\mathbb{Z}_2$ $\Lambda_{\mathrm{BS}} = \mathbb{Z}$	$Z_2$ SI = $z_{2,S_4}$	
$\frac{\mathbb{Z}_2}{2}$	weak	$\{1 00\frac{1}{2}\}*$	-					
$\frac{0}{1}$	(000)	0 1	0	0				
	(000)				F71	77	GT /o	
			$\frac{24}{4^{001}}$	assification $\bar{4}^{001}$	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_{2,2}$	$SI = z_{2,S_4}, z_{4C}/2$	
$\mathbb{Z}_{2,2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$		-				
$\frac{00}{10}$	(000)	0	0	0				
====	(000)							
		81.38		Classificat	ion =	$\mathbb{Z}_2  X_{\mathrm{BS}} = \mathbb{Z}$	$z_2$ SI = $z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$\bar{4}^{001}$	$\bar{4}^{001}$				
0	(000)	0	0	0				
1	(000)	1	1	1				
	82.3		ssificat	$ion = \mathbb{Z} \times \mathbb{Z}$	$\mathbb{Z}_2$ X	$\mathbb{I}_{\mathrm{BS}} = \mathbb{Z}_{2,2,2}$ S	$\mathrm{SI} = z_{2,\mathrm{Weyl}}, z_{2,S_4}, z_{4C}/2$	2
$\mathbb{Z}_{2,2,2}$	weak	$\bar{4}^{001}$	$\bar{4}^{001}$					
000	(000)	0	0					
000	$(22\overline{2})$	0	0					
001	$(11\overline{1})$	0	0					
010	(000)	1	1					
011	(111)	1	1					
		82.42	$\frac{2 I_c \bar{4}}{\bar{4}^{001}}$	Classificati $\bar{4}^{001}$	ion =	$\mathbb{Z}_2  X_{\mathrm{BS}} = \mathbb{Z}$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$						
0	(000)	0	0	0				
1	(000)	1	1	1				
				9			~~ + - +	
	83.43			$\operatorname{cation} = \mathbb{Z}_M^2$	$_{r}$ $\times$ $\mathbb{Z}$	$X_{BS} = \mathbb{Z}_{4,4,4}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	$\iota,\pi$
$\mathbb{Z}_{4,4,4}$	weak	$4^{001}$	i	$\bar{4}^{001}$	$\bar{4}^{001}$	$Cm_{(4)}^{001}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	$\iota,\pi$
000	$\frac{\text{weak}}{(00\overline{12})}$	4 <sup>001</sup> 0	$\frac{i}{0}$	$\frac{\bar{4}^{001}}{0}$	$\bar{4}^{001}$	$\frac{Cm_{(4)}^{001}}{4,\overline{16},0,\overline{12}}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	$\iota,\pi$
000	weak (0012) (004)	4 <sup>001</sup> 0 0	<i>i</i> 0 0	$\frac{\bar{4}^{001}}{0}$	$\frac{\bar{4}^{001}}{0}$	$ \begin{array}{c} Cm_{(4)}^{001} \\ 4, \overline{16}, 0, \overline{12} \\ 0404 \end{array} $	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	$\iota,\pi$
000 000 000	weak (0012) (004) (000)	4 <sup>001</sup> 0 0 0	<i>i</i> 0 0 0 0	$\overline{4}^{001}$ 0 0 0		$ \begin{array}{r} Cm_{(4)}^{001} \\ 4, \overline{16}, 0, \overline{12} \\ 0404 \\ 004\overline{4} \end{array} $	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	$\iota,\pi$
000 000 000 000	weak (0012) (004) (000) (000)	4 <sup>001</sup> 0 0 0 0 0	i 0 0 0 0	\$\bar{4}^{001}\$  0 0 0 0 0 0	$ \bar{4}^{001} $ 0 0 0 0 0	$ \begin{array}{r} Cm_{(4)}^{001} \\ 4, \overline{16}, 0, \overline{12} \\ 0404 \\ 004\overline{4} \\ 00\overline{4}4 \end{array} $	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	$i,\pi$
000 000 000 000 000	weak (0012) (004) (000) (000) (000)	4 <sup>001</sup> 0 0 0 0 0 0	i 0 0 0 0	\$\bar{4}^{001}\$  0  0  0  0  1	$   \begin{array}{c}       \hline       4^{001} \\       0 \\       0 \\       0 \\       0 \\       1   \end{array} $	$\begin{array}{c} Cm_{(4)}^{001} \\ 4, \overline{16}, 0, \overline{12} \\ 0404 \\ \hline 004\overline{4} \\ 00\overline{4}4 \\ 001\overline{1} \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	ι,π
000 000 000 000 001 002	weak (0012) (004) (000) (000) (000) (000)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0	i 0 0 0 0 0 1 0 0	\$\overline{4}^{001}\$  0  0  0  0  1  0		$\begin{array}{c} Cm_{(4)}^{001} \\ \hline 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ \hline 004\overline{4} \\ \hline 00\overline{44} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	ι,π
000 000 000 000 001 002 003	weak (0012) (004) (000) (000) (000) (000) (000)	4 <sup>001</sup> 0 0 0 0 0 0	i 0 0 0 0	\$\bar{4}^{001}\$  0  0  0  0  1	$   \begin{array}{c}       \hline       4^{001} \\       0 \\       0 \\       0 \\       0 \\       1   \end{array} $	$\begin{array}{c} Cm_{(4)}^{001} \\ \hline 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ \hline 004\overline{4} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 003\overline{3} \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	υ,π
000 000 000 000 001 002	weak (0012) (004) (000) (000) (000) (000)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 0 0 1 0 1 1	\$\overline{4}^{001}\$  0  0  0  0  1  0  1		$\begin{array}{c} Cm_{(4)}^{001} \\ \hline 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ \hline 004\overline{4} \\ \hline 00\overline{44} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	$i,\pi$
000 000 000 000 001 002 003 010	weak (0012) (004) (000) (000) (000) (000) (000) (000) (001)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 0 0 1 0 1 1 1	\$\overline{4}^{901}\$  0  0  0  0  1  0  1	$ \begin{array}{c}     \hline     4^{001} \\     \hline     0 \\     0 \\     \hline     0 \\     \hline     0 \\     \hline     0 \\     \hline     1 \\     \hline     1 \\     \hline     1 $	$\begin{array}{c} Cm^{001}_{(4)} \\ 4,\overline{16},0,\overline{12} \\ 0404 \\ 004\overline{4} \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 0101 \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	ι,π
000 000 000 000 001 002 003 010 011 012 013	weak (0012) (004) (000) (000) (000) (000) (000) (001) (001) (001)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 0 0 1 0 1 1 0 0 0 0 0 0 0 0 0 0	\$\overline{4}^{901}\$  0  0  0  0  1  0  1  1  0  1	\$\overline{4}^{001}\$  0  0  0  0  1  0  1  0  1  0	$\begin{array}{c} Cm_{(4)}^{001} \\ 4, \overline{16}, 0, \overline{12} \\ 0404 \\ 004\overline{4} \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 0101 \\ 0110 \\ 012\overline{1} \\ 0132 \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	ι,π
000 000 000 000 001 002 003 010 011 012 013	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (001) (001)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 0 0 1 0 1 1 0 1 1 0 1	\$\overline{4}^{901}\$  0  0  0  0  1  0  1  1  0  1	\$\overline{4}^{001}\$  0  0  0  0  1  1  1  0  1	$\begin{array}{c} Cm_{(4)}^{001} \\ 4,\overline{16},0,\overline{12} \\ \hline 0404 \\ 00\overline{44} \\ \hline 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 0101 \\ 0110 \\ 012\overline{1} \\ 013\overline{2} \\ 0202 \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	ν,π
000 000 000 000 001 002 003 010 011 012 013 020 021	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (001) (001) (002)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1	\$\overline{4}^{001}\$  0  0  0  1  0  1  1  0  1  0  1  1  1	\$\frac{4^{001}}{0}\$  0  0  0  1  0  1  1  0  1  0  1  1  1	$\begin{array}{c} Cm_{(4)}^{001} \\ 4,\overline{16},0,\overline{12} \\ \hline 0404 \\ \hline 00\overline{44} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 003\overline{3} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 0132 \\ \hline 0202 \\ \hline 0211 \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	ν,π
000 000 000 000 001 002 003 010 011 012 013 020 021	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (001) (002) (002)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	\$\overline{4}^{001}\$  0  0  0  1  0  1  1  0  1  0  1  0  1  0  1  0  0	\$\begin{align*} \begin{align*} \begin{align*} \begin{align*} \begin{align*} \delta \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	$\begin{array}{c} Cm_{(4)}^{001} \\ 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ 004\overline{4} \\ 001\overline{1} \\ 002\overline{2} \\ \hline 003\overline{3} \\ 0101 \\ 012\overline{1} \\ 013\overline{2} \\ 0202 \\ 0211 \\ 0220 \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	υ,π
000 000 000 000 001 002 003 010 011 012 013 020 021 022	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (001) (002) (002)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 0 1 1 0 0 0 1 1 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	\$\bar{4}^{001}\$  0  0  0  1  0  1  1  0  1  0  1  0  1  1	\$\begin{align*} \begin{align*} \begin{align*} \delta \text{0} & 0 & \\ 0 & 1 & \\ 0 & 1 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\	$\begin{array}{c} Cm_{(4)}^{001} \\ 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ 004\overline{4} \\ 001\overline{1} \\ 002\overline{2} \\ \hline 003\overline{3} \\ 0101 \\ 0110 \\ 012\overline{1} \\ 013\overline{2} \\ 0202 \\ 0211 \\ 0220 \\ 023\overline{1} \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	υ,π
000 000 000 000 001 002 003 010 011 012 013 020 021 022 023 030	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (001) (002) (002) (002) (003)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 1 1 0 1 1 0 0 1 1 1 1 1 1	\$\bar{4}^{001}\$  0  0  0  1  0  1  1  0  1  0  1  1  1	\$\begin{align*} \begin{align*} \begin{align*} \begin{align*} \begin{align*} \delta \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	$\begin{array}{c} Cm_{(4)}^{001} \\ 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ 004\overline{4} \\ 00\overline{1}\overline{1} \\ 002\overline{2} \\ \hline 003\overline{3} \\ 0101 \\ 0110 \\ 012\overline{1} \\ 0132 \\ \hline 0202 \\ 0211 \\ 0220 \\ 023\overline{1} \\ 0303 \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	,,π
000 000 000 000 001 002 003 010 011 012 013 020 021 022 023 030 031	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (002) (002) (002) (003)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 1 1 0 1 1 0 0 1 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 0	\$\bar{4}^{901}\$  0  0  0  1  0  1  0  1  0  1  0  1  1	\$\begin{align*} \begin{align*} \begin{align*} \begin{align*} \begin{align*} \delta \delta \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	$\begin{array}{c} Cm_{(4)}^{001} \\ 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ 004\overline{4} \\ 00\overline{4}4 \\ 001\overline{1} \\ 0022 \\ \hline 003\overline{3} \\ 0101 \\ \hline 0110 \\ 012\overline{1} \\ 013\overline{2} \\ 0202 \\ \hline 0211 \\ 0220 \\ 023\overline{1} \\ 0303 \\ 0312 \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	ι,π
000 000 000 000 001 002 003 010 011 012 013 020 021 022 023 030 031 032	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (002) (002) (002) (003) (003)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 0 1	\$\bar{4}^{901}\$  0  0  0  1  0  1  0  1  0  1  0  1  0  1  0  1  1	4 <sup>001</sup> 0 0 0 1 0 1 1 0 0 1 1 0 1 1 0 1 1 0 1	$\begin{array}{c} Cm_{(4)}^{001} \\ 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ \hline 004\overline{4} \\ \hline 00\overline{4}4 \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 003\overline{3} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 023\overline{1} \\ \hline 0303 \\ \hline 0312 \\ \hline 0321 \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	ν,π
000 000 000 000 001 002 003 010 011 012 013 020 021 022 023 030 031 032 033	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (002) (002) (002) (003) (003) (003)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0	\$\bar{4}^{901}\$  0  0  0  1  0  1  0  1  0  1  0  1  0  1  0  1  0  1  0  1  0  1  0  1  0  1  0  0	\$\begin{align*} \begin{align*} \begin{align*} \begin{align*} \begin{align*} \delta \delta \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	$\begin{array}{c} Cm_{(4)}^{001} \\ 4,\overline{16},0,\overline{12} \\ 0404 \\ \hline 004\overline{4} \\ 00\overline{44} \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 0101 \\ 0110 \\ 012\overline{1} \\ 013\overline{2} \\ 0202 \\ 0211 \\ 0220 \\ 023\overline{1} \\ 0303 \\ 0312 \\ 0330 \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	ν,π
000 000 000 000 001 002 003 010 011 012 013 020 021 022 023 030 031 032	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (002) (002) (002) (003) (003) (003)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 0 1	\$\bar{4}^{901}\$  0  0  0  1  0  1  0  1  0  1  0  1  0  1  0  1  1	4 <sup>001</sup> 0 0 0 1 0 1 1 0 0 1 1 0 1 1 0 1 1 0 1	$\begin{array}{c} Cm_{(4)}^{001} \\ 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ \hline 004\overline{4} \\ \hline 00\overline{4}4 \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 003\overline{3} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 023\overline{1} \\ \hline 0303 \\ \hline 0312 \\ \hline 0321 \\ \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	ν, π
000 000 000 000 001 002 003 010 011 012 013 020 021 022 023 030 031 032 033 100	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (002) (002) (002) (003) (003) (003) (003)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 0 0	\$\bar{4}^{901}\$  0  0  0  1  0  1  0  1  0  1  0  1  0  1  0  1  0  1  0  1  0  0	\$\begin{align*} \begin{align*} \begin{align*} \begin{align*} \begin{align*} \delta \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	$\begin{array}{c} Cm_{(4)}^{001} \\ \hline 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ \hline 0044 \\ \hline 002\overline{4} \\ \hline 002\overline{2} \\ \hline 003\overline{3} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 013\overline{2} \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 023\overline{1} \\ \hline 0303 \\ \hline 0312 \\ \hline 0321 \\ \hline 0330 \\ \overline{1403} \\ \overline{1414} \\ \hline \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	ν,π
000 000 000 000 001 002 003 010 011 012 013 020 021 022 023 030 031 032 033 100	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (002) (002) (002) (003) (003) (003)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 0	\$\bar{4}^{901}\$  0  0  0  1  0  1  0  1  0  1  0  1  0  1  0  1  0  1  0  1  1	\$\begin{aligned} \begin{aligned} \begin{aligned} \begin{aligned} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 &	$\begin{array}{c} Cm_{(4)}^{001} \\ \hline 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ \hline 0044 \\ \hline 002\overline{4} \\ \hline 002\overline{2} \\ \hline 003\overline{3} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 013\overline{2} \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 023\overline{1} \\ \hline 0303 \\ \hline 0312 \\ \hline 0321 \\ \hline 0330 \\ \hline 140\overline{3} \\ \hline \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	υ, π
000 000 000 000 001 002 003 010 011 012 013 020 021 022 023 030 031 032 033 100 101 102	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (002) (002) (002) (003) (003) (003) (003) (003)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0	\$\bar{4}^{901}\$  0  0  0  1  0  1  1  0  1  0  1  0  1  0  1  0  1  0  1  1	\$\begin{aligned} \begin{aligned} \begin{aligned} \begin{aligned} 0 & 0 & 0 & \\ 0 & 1 & 0 & \\ 0 & 1 & 0 & \\ 0 & 1 & 0 & \\ 1 & 0 & \\ 0 & 1 & 0 & \\ 0 & 0 & 1 & \\ 0 & 0 & 1 & \\ 0 & 0 & \\ 1 & 0 & \\ 0 & 0 & \\ 1 & 0 & \\ 0 & \\ 0 & 0 & \\ 0 & 0 & \\ 0 &	$\begin{array}{c} Cm_{(4)}^{001} \\ \hline 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ \hline 0044 \\ \hline 002\overline{4} \\ \hline 002\overline{2} \\ \hline 003\overline{3} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 013\overline{2} \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 023\overline{1} \\ \hline 0303 \\ \hline 0312 \\ \hline 0321 \\ \hline 0330 \\ \overline{1403} \\ \overline{1414} \\ \overline{1425} \\ \hline \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	υ, π
000 000 000 000 001 002 003 010 011 012 013 020 021 022 023 030 031 032 033 100 101 102 103	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (002) (002) (002) (003) (003) (003) (003) (003) (003)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1	\$\bar{4}^{901}\$  0  0  0  1  0  1  1  0  1  0  1  0  1  0  1  0  1  0  1  1	\$\begin{aligned} \begin{aligned} aligne	$\begin{array}{c} Cm_{(4)}^{001} \\ \hline 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ \hline 004\overline{4} \\ \hline 00\overline{44} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 003\overline{3} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 013\overline{2} \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 023\overline{1} \\ \hline 0303 \\ \hline 0312 \\ \hline 0321 \\ \hline 0330 \\ \hline 140\overline{3} \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	ν, π
000 000 000 000 001 002 003 010 011 012 013 020 021 022 023 030 031 032 033 100 101 102 103 110	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (002) (002) (002) (003) (003) (003) (003) (003) (003) (003)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 1	\$\bar{4}^{901}\$  0  0  0  0  1  0  1  1  0  1  0  1  0  1  0  1  0  1  0  1  1	\$\begin{aligned} \begin{aligned} \begin{aligned} \delta^{001} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 &	$\begin{array}{c} Cm_{(4)}^{001} \\ \hline 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ \hline 004\overline{4} \\ \hline 0074 \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 003\overline{3} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 013\overline{2} \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 023\overline{1} \\ \hline 0303 \\ \hline 0312 \\ \hline 0321 \\ \hline 0330 \\ \hline 140\overline{3} \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 130\overline{2} \\ \hline \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4n}^+$	ν,π
000 000 000 000 001 002 003 010 011 012 013 020 021 022 023 030 031 032 033 100 101 102 103 110 111 112 113	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (002) (002) (002) (003) (003) (003) (003) (003) (003) (003) (003) (003) (002)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 1 1 0	\$\bar{4}^{901}\$  0  0  0  0  1  1  0  1  0  1  0  1  0  1  0  1  0  1  1	\$\begin{aligned} \begin{aligned} \begin{aligned} \begin{aligned} \begin{aligned} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 &	$\begin{array}{c} Cm_{(4)}^{001} \\ \hline 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ \hline 004\overline{4} \\ \hline 001\overline{4} \\ \hline 002\overline{2} \\ \hline 003\overline{3} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 013\overline{2} \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 023\overline{1} \\ \hline 0303 \\ \hline 0312 \\ \hline 0330 \\ \hline 1403 \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 130\overline{2} \\ \hline 131\overline{3} \\ \hline 132\overline{4} \\ \hline 133\overline{5} \\ \hline \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	ν, π
000 000 000 000 001 002 003 010 011 012 013 020 021 022 023 030 031 032 033 100 101 102 103 110 111 112	weak (0012) (004) (000) (000) (000) (000) (001) (001) (001) (002) (002) (003) (003) (003) (003) (003) (003) (003) (003) (003) (002) (002)	4 <sup>001</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0	\$\bar{4}^{901}\$  0  0  0  0  1  0  1  1  0  1  0  1  0  1  0  1  0  1  1	\$\begin{aligned} \begin{aligned} \begin{aligned} \delta^{001} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 &	$\begin{array}{c} Cm_{(4)}^{001} \\ \hline 4, \overline{16}, 0, \overline{12} \\ \hline 0404 \\ \hline 0044 \\ \hline 002\overline{4} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 003\overline{3} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 013\overline{2} \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 023\overline{1} \\ \hline 0303 \\ \hline 0303 \\ \hline 0312 \\ \hline 0321 \\ \hline 0330 \\ \hline 140\overline{3} \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 130\overline{2} \\ \hline 131\overline{3} \\ \hline 132\overline{4} \\ \hline \end{array}$	$SI = z_{4m,0}^+, z_{4m,0}^-, z_{4m}^+$	ν,π

121	$(00\overline{1})$	0	1	1	1	$1\overline{2}1\overline{2}$			
$\frac{121}{122}$	(001)	0	0	0	0	$\frac{1\overline{2}1\overline{2}}{1\overline{2}2\overline{3}}$			
$\frac{122}{123}$	(001)	0	1	1	1	$\frac{1223}{1\overline{2}3\overline{4}}$			
$\frac{123}{130}$	(0001)	0	1	1	1	$\frac{1234}{1\overline{1}00}$			_
131	(000)	0	0	0	0	$\frac{1100}{1111}$			
$\frac{131}{132}$	(000)	0	1	1	1	$\frac{1111}{1\overline{1}2\overline{2}}$			
$\frac{132}{133}$	(000)	0	0	0	0	$\frac{1122}{1\overline{1}3\overline{3}}$			
$\frac{133}{200}$	(000)	0	0	0	0	$\frac{1135}{2806}$			
$\frac{200}{201}$	$(00\overline{6})$	0	1	1	1	$\frac{2800}{2817}$			
$\frac{201}{202}$	$(00\overline{6})$	0	0	0	0	$\frac{2817}{2828}$			
$\frac{202}{203}$	$(00\overline{6})$	0	1	1	1	$\frac{2828}{2839}$			
$\frac{203}{210}$	$(00\overline{5})$	0	1	1	1	$\frac{2\overline{5}\overline{9}}{2\overline{7}0\overline{5}}$			
$\frac{210}{211}$	(005)	0	0	0	0	$\frac{2705}{2\overline{7}1\overline{6}}$			
$\frac{211}{212}$	(005)	0	1	1	1	$\frac{2710}{2727}$			
$\frac{212}{213}$	(005)	0	0	0	0	$\frac{2727}{2738}$			
$\frac{210}{220}$	$(00\overline{4})$	0	0	0	0	$\frac{2\overline{6}0\overline{4}}{2\overline{6}0\overline{4}}$			
$\frac{220}{221}$	(004)	0	1	1	1	$\frac{2\overline{6}1\overline{5}}{2\overline{6}1\overline{5}}$			
222	$(00\overline{4})$	0	0	0	0	$\frac{2616}{2626}$			
223	$(00\overline{4})$	0	1	1	1	$\frac{2625}{2637}$			
$\frac{220}{230}$	$(00\overline{3})$	0	1	1	1	$\frac{2507}{2503}$			
$\frac{230}{231}$	$(00\overline{3})$	0	0	0	0	$\frac{2505}{2\overline{5}1\overline{4}}$			
$\frac{231}{232}$	$(00\overline{3})$	0	1	1	1	$\frac{2\overline{5}2\overline{5}}{2\overline{5}}$			
233	$(00\overline{3})$	0	0	0	0	$\frac{2526}{2536}$			
300	$(00\overline{9})$	0	0	0	0	$3, \overline{12}, 0, \overline{9}$			
301	$(00\overline{9})$	0	1	1	1	$3, \overline{12}, 1, \overline{10}$			
302	$(00\overline{9})$	0	0	0	0	$3, \overline{12}, 2, \overline{11}$			
303	$(00\overline{9})$	0	1	1	1	$3, \overline{12}, 3, \overline{12}$			
310	$(00\overline{8})$	0	1	1	1	$3, \overline{11}, 0, \overline{8}$			
311	$(00\overline{8})$	0	0	0	0	$3, \overline{11}, 1, \overline{9}$			
312	$(00\overline{8})$	0	1	1	1	$3, \overline{11}, 2, \overline{10}$			
313	$(00\overline{8})$	0	0	0	0	$3, \overline{11}, 3, \overline{11}$			
320	(007)	0	0	0	0	$3, \overline{10}, 0, \overline{7}$			
321	$(00\overline{7})$	0	1	1	1	$3, \overline{10}, 1, \overline{8}$			
322	$(00\overline{7})$	0	0	0	0	$3, \overline{10}, 2, \overline{9}$			
323	(007)	0	1	1	1	$3, \overline{10}, 3, \overline{10}$	<u>)</u>		
330	$(00\overline{6})$	0	1	1	1	$3\overline{9}0\overline{6}$			
331	$(00\overline{6})$	0	0	0	0	$3\overline{9}1\overline{7}$			_
332	$(00\overline{6})$	0	1	1	1	$3\overline{9}2\overline{8}$			
333	$(00\overline{6})$	0	0	0	0	$3\overline{9}3\overline{9}$			
		83.45 P	4'/m C	assification	on $= \overline{\mathbb{Z}_{M}^{2}}$	$X_{BS} =$	$\mathbb{Z}_{2,4}$ SI =	$z_{2m,0}^+, z_{4P}'$	
$\overline{\mathbb{Z}_{2,4}}$	weak	$4^{001}*$	i	$\bar{4}^{001}*$	$\bar{4}^{001}*$	$Cm_{(2)}^{001}$	*	=,o. =1	
00	(000)	0	0	0	0	$\frac{\overline{2}222}{2}$			
00	(000)	0	0	0	0	$4\overline{400}$			
00	(000)	0	0	0	0	$\overline{2}2\overline{2}2$			
03	(000)	1	1	0	0	$1\overline{1}00$			
02	(000)	0	0	0	0	$2\overline{2}00$			
01	(000)	1	1	0	0	$3\bar{3}00$			
10	(000)	0	0	0	0	$\overline{1}11\overline{1}$			
13	(000)	1	1	0	0	$001\overline{1}$			_
12	(000)	0	0	0	0	$1\overline{1}1\overline{1}$			
11	(000)	1	1	0	0	$2\overline{2}1\overline{1}$			
		83.47	P4'/m'	Classifi	cation =	$\mathbb{Z}_2$ Xrs	$S = \mathbb{Z}_2$ SI =	$= z_{2.S_4}$	
$\mathbb{Z}_2$	weak	4 <sup>001</sup> *	<i>i</i> *	$\bar{4}^{001}$	$\bar{4}^{001}$	<u> </u>		2,04	
$\frac{22}{0}$	(000)	0	0	0	0				
$\frac{0}{1}$	(000)	1	0	1	1				_
		83.48	$P_c4/m$			7. v Y-	$S = \mathbb{Z}_4$ SI =	+	
77	**************************************		$\frac{F_c 4/m}{4^{001}}$	i	$\frac{\text{ation}}{\bar{4}^{001}}$	$\frac{ZM}{4^{001}}$	$\frac{Cm_{(4)}^{001}}{Cm_{(4)}^{001}}$	$- \sim_{4m,0}$	
$\frac{\mathbb{Z}_4}{0}$	weak	$\{1 00\frac{1}{2}\}*$		$\frac{\imath}{0}$					
0	(000)	0	0	U	0	0	$4\overline{4}00$		

0	(000)	0	0	0	0	0	0000		
1	(000)	1	0	1	1	1	1100		
2	(000)	0	0	0	0	0	$2\overline{2}00$		
3	(000)	1	0	1	1	1	3300		
	,	83.49 $P_{C^2}$	1/m Cls	ssification	$n = \mathbb{Z}_{2}^2$	X <sub>DC</sub> -	7.4.4 SI —	$z_{4m,0}^+, z_{4m,\pi}^+$	
7		$\frac{36.13}{\{1 \frac{1}{2}\frac{1}{2}0\}*}$	$\frac{1/m}{4^{001}}$	$\frac{i}{i}$	$\frac{11 - 2I_M}{4^{001}}$	$\frac{\bar{4}^{001}}{\bar{4}^{001}}$	$Cm_{(4)}^{001}$	$\sim$ 4 $m,0,\sim$ 4 $m,\pi$	
$\frac{\mathbb{Z}_{4,4}}{00}$				0			$\frac{Cm_{(4)}}{4\overline{4}00}$		
00	(000)	0	0		0	0	$\frac{4400}{004\overline{4}}$		
	(000)	0	0	0	0	0			
00	(000)	0	0	0	0	0	$00\overline{4}4$		
01	(000)	1	0	1	1	1	0011		
02	(000)	0	0	0	0	0	$002\overline{2}$		
03	(000)	1	0	1	1	1	0033		
10	(000)	1	0	1	1	1	$1\overline{100}$		
11	(000)	0	0	0	0	0	1111		
12	(000)	1	0	1	1	1	$1\overline{1}2\overline{2}$		
13	(000)	0	0	0	0	0	$1\overline{1}3\overline{3}$		
20	(000)	0	0	0	0	0	$\frac{2\overline{2}00}{2\overline{2}1\overline{1}}$		
21	(000)	1	0	1	1	1	$2\overline{2}1\overline{1}$		
	(000)	0	0	0	0	0	$2\overline{2}2\overline{2}$		
23	(000)	1	0	1	1	1	$2\overline{2}3\overline{3}$		
30	(000)	1	0	1	1	1	3300		
31	(000)	0	0	0	0	0	3311		
32	(000)	1	0	1	1	1	$3\overline{3}2\overline{2}$		
33	(000)	0	0	0	0	0	$3\overline{3}3\overline{3}$		
		83.50	$P_I4/m$		ation =	$\mathbb{Z}_M$ $X_{BS}$	$S = \mathbb{Z}_4$ SI	$=z_{4m,0}^{+}$	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4^{001}$	i	$\bar{4}^{001}$	$\bar{4}^{00\bar{1}}$	$Cm_{(4)}^{001}$		
0	(000)	0	0	0	0	0	$4\overline{4}00$		
0	(000)	0	0	0	0	0	0000		
1	(000)	1	0	1	1	1	$1\overline{1}00$		
2	(000)	0	0	0	0	0	$2\overline{2}00$		
3	(000)	1	0	1	1	1	$3\overline{3}00$		
	84	$.51 P4_2/r$	m Class	ification :		$\mathbb{Z}$ $X_{BS}$	$=\mathbb{Z}_{2,4}$ SI	$=z_{2m,\pi}^+, z_{4m,0}^+$	
$\mathbb{Z}_{2,4}$	weak	$4_{00\frac{1}{2}}^{001}$	i	$\bar{4}_{00\frac{1}{2}}^{001}$	$\bar{4}^{001}_{00\frac{1}{2}}$	$Cm_{(4)}^{001}$			
00	$(00\overline{4})$	$\frac{\frac{3}{2}}{2}$	0	0	0	0422			
00	(000)	0	0	0	0	$4\overline{4}00$			
00	(000)	0	0	0	0	0000			
01	(000)	0	1	1	1	$1\overline{1}00$			
02	(000)	0	0	0	0	$2\overline{2}00$			
03	(000)	0	1	1	1	3300			
10	$(00\overline{2})$	1	1	0	0	0211			
11	$(00\bar{2})$	1	0	1	1	1111			
12	$(00\bar{2})$	1	1	0	0	2011			
13	$(00\overline{2})$	1	0	1	1	3111			
		84.53	$P4_2'/m$	Classific	ation -		$S = \mathbb{Z}_2$ SI	= 2 <sup>+</sup>	
$\overline{\mathbb{Z}_2}$	weak	$4^{001}_{00\frac{1}{2}}*$	$\frac{i}{i}$	7001	$\frac{4001}{400\frac{1}{2}*}$	$\frac{Z_M}{Cm_{(2)}^{001}}$	5 — 22 DI	~2m,0	
				$\bar{4}_{00\frac{1}{2}}^{001} *$					
0	(000)	0	0	0	0	$2\overline{2}00$			
0									
1	(000)	0	0	0	0	$2\overline{2}00$			
	(000)	1	1	0	0	$1\overline{1}00$			
	· /	1 84.55		0 Classifi	0 cation =	$1\overline{1}00$	$S = \mathbb{Z}_2$ SI	$= z_{2,S_4}$	
$\mathbb{Z}_2$	· /	1 84.55	1	0 Classifi	0 cation =	$1\overline{1}00$	$S = \mathbb{Z}_2$ SI	$= z_{2,S_4}$	
$\frac{\mathbb{Z}_2}{0}$	(000)	1	$\frac{1}{P4_2'/m'}$	0	0	$1\overline{1}00$	$S = \mathbb{Z}_2$ SI	$=z_{2,S_4}$	
	(000) weak	$ \begin{array}{r} 1 \\ 84.55 \\ 4_{00\frac{1}{2}}^{001} * \end{array} $	$ \begin{array}{c} 1 \\ P4'_2/m' \\ i* \end{array} $	0 Classifi $\bar{4}_{00\frac{1}{2}}^{001}$	$ \frac{0}{\text{cation}} = \frac{1}{\bar{4}_{00\frac{1}{2}}^{001}} $	$1\overline{1}00$	$_{ m S}=\mathbb{Z}_2$ SI	$=z_{2,S_{4}}$	
0	(000) weak (000)	$ \begin{array}{r} 1 \\ 84.55 \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 1 \\ P4'_2/m' \\ i* \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ \hline Classifi \\ \overline{4}_{00\frac{1}{2}}^{001} \\ \hline 0 \\ 1 \\ \end{array}$	$ \begin{array}{c} 0 \\ \hline \text{cation} = \\ \hline 4_{00\frac{1}{2}}^{001} \\ 0 \\ 1 \end{array} $	$\frac{1\overline{1}00}{\mathbb{Z}_2  X_B}$			
0 1	(000) weak (000) (000)	$ \begin{array}{r} 1 \\ 84.55 \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 1 \\ 84.56 \end{array} $	$ \begin{array}{c} 1 \\ P4'_2/m' \\ i* \\ 0 \\ 0 \\ P_c4_2/m \end{array} $	$\begin{array}{c} 0 \\ \text{Classifi} \\ \overline{4}_{00\frac{1}{2}}^{001} \\ 0 \\ 1 \\ \text{Classifie} \end{array}$	$ \begin{array}{c} 0 \\ \hline \text{cation} = \\ \hline 4_{00\frac{1}{2}}^{001} \\ 0 \\ 1 \end{array} $	$\frac{1\overline{1}00}{\mathbb{Z}_2  X_B}$	$_{\mathrm{SS}}=\mathbb{Z}_{4}$ SI		
$ \begin{array}{c} 0 \\ 1 \\ \hline \mathbb{Z}_4 \end{array} $	(000) weak (000) (000) weak	$ \begin{array}{r} 1 \\ 84.55 \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 1 \\ 84.56 \\ \{1 00\frac{1}{2}\}* \end{array} $	$ \begin{array}{c} 1 \\ P4'_2/m' \\ i* \\ 0 \\ 0 \\ \hline P_c4_2/m \\ 4^{001}* \end{array} $	Classific $\overline{4}_{00\frac{1}{2}}^{001}$ 0 1 Classific $i$	$ \begin{array}{r} 0 \\ \hline \text{cation} = \\ \hline 4_{00\frac{1}{2}}^{001} \\ \hline 0 \\ 1 \\ \hline \text{eation} = \\ \hline 4^{001}* $	$ \frac{1\overline{1}00}{\overline{\mathbb{Z}}_{2}}  X_{B} $ $ \frac{\overline{\mathbb{Z}}_{M}}{\overline{4}^{001}}  X_{B} $	$Cm_{(4)}^{001}$		
0 1	(000) weak (000) (000)	$ \begin{array}{r} 1 \\ 84.55 \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 1 \\ 84.56 \end{array} $	$ \begin{array}{c} 1 \\ P4'_2/m' \\ i* \\ 0 \\ 0 \\ P_c4_2/m \end{array} $	$\begin{array}{c} 0 \\ \text{Classifi} \\ \overline{4}_{00\frac{1}{2}}^{001} \\ 0 \\ 1 \\ \text{Classifie} \end{array}$	$ \begin{array}{r} 0 \\ \hline \text{cation} &= \\ \hline 4^{001}_{00\frac{1}{2}} \\ 0 \\ \hline 1 \\ \text{cation} &= \\ \end{array} $	$\frac{1\overline{1}00}{\mathbb{Z}_{2}  X_{B}}$ $\mathbb{Z}_{M}  X_{B}$	$_{\mathrm{SS}}=\mathbb{Z}_{4}$ SI		

<del>1</del>	(000)	1	1	1	0	0	1100		
2	(000)	0	0	0	0	0	$2\overline{2}00$		
3	(000)	1	1	1	0	0	$3\overline{3}00$		
		84.57	$P_C 4_2/m$	Classifi	$cation = \mathbb{Z}$	$_{M}$ X <sub>BS</sub>	$=\mathbb{Z}_4$ SI	$=z_{4m,0}^{+}$	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{00\frac{1}{2}}^{001}$	i	$\bar{4}^{001}_{00\frac{1}{2}}$	$\bar{4}_{00\frac{1}{2}}^{00\bar{1}}$	$Cm_{(4)}^{001}$	•	
0	(000)	0	0	0	0	0	$4\overline{400}$		
0	(000)	0	0	0	0	0	0000		
1	(000)	1	0	1	1	1	$1\overline{1}00$		
2	(000)	0	0	0	0	0	$2\overline{2}00$		
3	(000)	1	0	1	1	1	$3\overline{3}00$		
			$P_I 4_2/m$	Classifie	$\operatorname{cation} = \mathbb{Z}_1$	$_{M}$ $X_{BS}$	$=\mathbb{Z}_4$ SI =	$=z_{4m,0}^{+}$	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4^{001}_{\frac{1}{2}\frac{1}{2}0}*$	i	$\bar{4}^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$\frac{4001}{4^{001}_{\frac{1}{2}^{\frac{1}{2}0}}}$ *	$Cm_{(4)}^{001}$		
0	(000)	0	0	0	0	0	$4\overline{4}00$		
0	(000)	0	0	0	0	0	0000		
1	(000)	1	1	1	0	0	1100		
2	(000)	0	0	0	0	0	$\frac{2\overline{2}00}{2\overline{2}00}$		
3	(000)	1	1	1	0	0	3 <del>3</del> 00		
	,	85.59 P4,				$X_{\rm BS} =$	$\mathbb{Z}_{2,4}$ SI =	$z_{2,S_4}, z_{4C}$	
$\mathbb{Z}_{2,4}$	weak	$4^{001}_{\frac{1}{2}00}$	i	$\bar{4}^{001}_{\frac{1}{2}00}$	$\bar{4}^{001}_{0\frac{1}{2}0}$				
00	(000)	0	0	0	0				
00	(004)	0	0	0	0				
$\frac{01}{02}$	(001)	0	0	0	0				
$\frac{-02}{03}$	(002)	0	0	0	0				
10	(000)	0	1	1	1				
11	(001)	0	1	1	1				
12	(002)	0	1	1	1				
13	(002)								
	(003)	0	1	1	1				
	(003)	85.61	$\frac{1}{P4'/n}$	Classifi	$cation = \mathbb{Z}$	$_{2}$ $X_{\mathrm{BS}}$	$=\mathbb{Z}_2$ SI =	= z' <sub>2P</sub>	
$\mathbb{Z}_2$	weak	85.61		Classifi	$cation = \mathbb{Z}$	$_{2}$ $X_{\mathrm{BS}}$	$=\mathbb{Z}_2$ SI =	= z' <sub>2P</sub>	
			P4'/n			$_{2}$ $X_{\mathrm{BS}}$	$=\mathbb{Z}_2$ SI =	$=z_{2P}^{\prime}$	
$\mathbb{Z}_2$	weak	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00} * \end{array}$	$\frac{P4'/n}{i}$	Classifi $\bar{4}^{001}_{\frac{1}{2}00} *$	$\frac{\text{cation} = \mathbb{Z}}{\bar{4}_{0\frac{1}{2}0}^{001}} *$	$_{2}$ $X_{\mathrm{BS}}$	$=\mathbb{Z}_2$ SI =	= z' <sub>2P</sub>	
$\frac{\mathbb{Z}_2}{0}$	weak (000)	$ 85.61 4_{\frac{1}{2}00}^{001}* 0 1 85.63$	P4'/n $i$ 0	Classifi $ \frac{\overline{4}_{\frac{1}{2}00}^{001} *}{0} $ Classifi	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \\ \text{cation} = \mathbb{Z} \end{array}$		$=\mathbb{Z}_2$ SI $=$ $=\mathbb{Z}_2$ SI $=$		
$\frac{\mathbb{Z}_2}{0}$	weak (000)	$ 85.61 4_{\frac{1}{2}00}^{001}* 0 1 85.63$	P4'/n $i$ $0$ $1$	Classifi $ \frac{\overline{4}_{\frac{1}{2}00}^{001} *}{0} $ Classifi	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \\ \text{cation} = \mathbb{Z} \end{array}$				
$ \begin{array}{c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	weak (000) (000)	$ \begin{array}{r} 85.61 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \end{array} $	P4'/n $i$ $0$ $1$ $P4'/n'$	Classifi $\bar{4}^{001}_{\frac{1}{2}00}*$ 0	$ \begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4_{0\frac{1}{2}0}^{001}} * \\ 0 \\ 0 \end{array} $				
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \mathbb{Z}_2$	weak   (000)   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00} * \\ 0 \\ 1 \\ 85.63 \\ 4^{001}_{\frac{1}{2}00} * \end{array}$	P4'/n $i$ $0$ $1$ $P4'/n'$ $i*$	Classifi $\frac{4^{001}}{2^{00}} *$ 0 0 Classifi $\frac{4^{001}}{2^{00}} *$ 0 0 1	$ \begin{array}{c} \cot ion = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \hline 0 \\ \cot ion = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \end{array} $	2 X <sub>BS</sub>			
$ \begin{array}{c c}  & \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ \hline 0 \end{array} $	weak   (000)   (000)   weak   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \end{array}$	$P4'/n$ $i$ $0$ $1$ $P4'/n'$ $i*$ $0$ $0$ $P_c4/n$	Classifi $\frac{4^{001}}{2^{00}} *$ 0 0 Classifi $\frac{4^{001}}{2^{00}} *$ 0 0 1	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \\ \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ \\ 1 \\ \\ \text{cation} = \mathbb{Z}_{2} \end{array}$	2 X <sub>BS</sub>	$=\mathbb{Z}_2$ SI $=$		
$ \begin{array}{c c}  & \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ \hline 0 \end{array} $	weak   (000)   (000)   weak   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00} * \\ 0 \\ 1 \\ \hline 85.63 \\ 4^{001}_{\frac{1}{2}00} * \\ 0 \\ 1 \\ \end{array}$	$P4'/n$ $i$ $0$ $1$ $P4'/n'$ $i*$ $0$ $0$ $P_c4/n$	Classifi $\frac{4^{001}}{2^{00}} *$ 0 0 Classifi $\frac{4^{001}}{2^{00}} *$ 0 0 1	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \\ \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ \\ 1 \\ \\ \text{cation} = \mathbb{Z}_{2} \end{array}$	2 X <sub>BS</sub>	$=\mathbb{Z}_2$ SI $=$	= Z <sub>2</sub> ,S <sub>4</sub>	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	weak   (000)   (000)   weak   (000)   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \end{array}$	P4'/n $i$ $0$ $1$ $P4'/n'$ $i*$ $0$ $0$	$ \begin{array}{c} \text{Classifi} \\ \overline{4}_{\frac{1}{2}00}^{001} * \\ 0 \\ 0 \\ \text{Classifi} \\ \overline{4}_{\frac{1}{2}00}^{001} \\ 0 \\ 1 \\ \text{Classified} \end{array} $	$ \begin{array}{c} \cot ion = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \hline 0 \\ \cot ion = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \end{array} $	2 X <sub>BS</sub>	$=\mathbb{Z}_2$ SI $=$	= Z <sub>2</sub> ,S <sub>4</sub>	
	weak   (000)   (000)   weak   (000)   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline 85.64 \\ \{1 00\frac{1}{2}\}* \end{array}$	$P4'/n$ $i$ $0$ $1$ $P4'/n'$ $i*$ $0$ $0$ $P_c4/n$ $4^{001}_{\frac{1}{2}00}$	Classific $\bar{4}^{001}_{\frac{1}{2}00}*$ 0 0 Classific $\bar{4}^{001}_{\frac{1}{2}00}$ 0 0 1 Classific $i$	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \hline 0 \\ \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ \hline 1 \\ \hline \text{cation} = \mathbb{Z}_2 \\ \overline{4}_{\frac{1}{2}00}^{001} \\ \end{array}$	$\frac{1}{2} \frac{X_{BS}}{X_{BS}} = \frac{1}{4} \frac{X_{BS}}{0.12} = \frac{1}{2} \frac{1}{0} \frac{1}{0$	$=\mathbb{Z}_2$ SI $=$	= Z <sub>2</sub> ,S <sub>4</sub>	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \end{array} $	weak   (000)   (000)   weak   (000)   weak   (000)   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.64 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 85.65 \\ \end{array}$	$P4'/n$ $i$ $0$ $1$ $P4'/n'$ $i*$ $0$ $0$ $P_c4/n$ $4^{001}_{\frac{1}{2}00}$ $0$ $0$ $P_C4/n$	Classific $\frac{\bar{4}_{\frac{1}{2}00}^{001}}{0}$ *  Classific $\frac{\bar{4}_{\frac{1}{2}00}^{001}}{0}$ Classific $i$ 0	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \hline 0 \\ \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{\frac{1}{2}00}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \end{array}$	$\frac{1}{2}$ $\frac{X_{BS}}{\overline{4}_{0\frac{1}{2}0}^{001}}$ $\frac{1}{2}$ $\frac{X_{BS}}{2}$	$=\mathbb{Z}_2$ SI $=$	$z_{2,S_4}$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \end{array} $	weak   (000)   (000)   weak   (000)   weak   (000)   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.64 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 85.65 \\ \end{array}$	$P4'/n$ $i$ $0$ $1$ $P4'/n'$ $i*$ $0$ $0$ $P_c4/n$ $4^{001}_{\frac{1}{2}00}$ $0$ $0$ $P_C4/n$	Classifi $\frac{\bar{4}_{\frac{1}{2}00}^{001}}{0}$ * 0 0 Classifi $\frac{\bar{4}_{\frac{1}{2}00}^{001}}{0}$ 0 1 Classifi $i$ 0 1 Classifi Classifi $i$ 0 1 Classifi Classifi $i$ 0 1 Classifi Class	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \hline 0 \\ \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{\frac{1}{2}00}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \end{array}$	$\frac{1}{2}$ $\frac{X_{BS}}{\overline{4}_{0\frac{1}{2}0}^{001}}$ $\frac{1}{2}$ $\frac{X_{BS}}{2}$	$=\mathbb{Z}_2$ $\operatorname{SI}=$	$z_{2,S_4}$	
$ \begin{array}{c c}  & \mathbb{Z}_2 \\ \hline  & 0 \\  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\  & 1 \\ \hline \end{array} $	weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (000)   (000)   (000)   (000)   (000)   (000)   (000)   (000)     weak   (000)   (0	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.64 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \end{array}$	$P4'/n$ $i$ $0$ $1$ $P4'/n'$ $i*$ $0$ $0$ $P_c4/n$ $4^{001}_{\frac{1}{2}00}$ $0$ $0$	Classific $\frac{\bar{4}_{\frac{1}{2}00}^{001}}{0}$ *  Classific $\frac{\bar{4}_{\frac{1}{2}00}^{001}}{0}$ Classific $i$ 0	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ \hline 0 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ \hline 0 \\ \hline 1 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{\frac{1}{2}00}^{001} \\ \hline 0 \\ 1 \\ \hline \end{array}$	$\frac{1}{2}$ $X_{BS}$ $\frac{1}{4}\frac{X_{BS}}{0\frac{1}{2}0}$ $\frac{1}{1}$	$=\mathbb{Z}_2$ $\operatorname{SI}=$	$z_{2,S_4}$	
	weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (000)   (000)     weak   weak   (000)   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline 85.64 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 85.65 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ \end{array}$	$P4'/n$ $i$ $0$ $1$ $P4'/n'$ $i*$ $0$ $0$ $P_c4/n$ $4^{001}_{\frac{1}{2}00}$ $0$ $0$ $P_C4/n$ $4^{001}_{\frac{1}{2}00}$	Classified $\frac{\bar{4}_{\frac{1}{2}00}^{001}}{0}^*$ $0$ $0$ Classified $\frac{\bar{4}_{\frac{1}{2}00}^{001}}{0}$ $0$ $1$ Classified $i$ $0$ $1$ Classified $i$ $\frac{1}{\frac{1}{2}\frac{1}{2}0}^*$	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{\frac{1}{2}00}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$=\mathbb{Z}_2$ $\operatorname{SI}=$	$z_{2,S_4}$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	weak   (000)   (000)   weak   (000)   (000)   weak   (000)   (000)   weak   (000)   (000)   weak   (000)   we	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ 85.64 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 85.65 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ \end{array}$	$P4'/n$ $i$ $0$ $1$ $P4'/n'$ $i*$ $0$ $0$ $\frac{P_c4/n}{4^{001}_{\frac{1}{2}00}}$ $0$ $0$ $\frac{P_C4/n}{4^{001}_{\frac{1}{2}00}}$ $0$ $0$	$\begin{array}{c} \text{Classifi} \\ \bar{4}^{001}_{\frac{1}{2}00}* \\ 0 \\ 0 \\ \\ \text{Classifi} \\ \bar{4}^{001}_{\frac{1}{2}00} \\ 0 \\ 1 \\ \\ \text{Classifi} \\ i \\ 0 \\ 1 \\ \\ \text{Classifi} \\ i \\ 0 \\ 1 \\ \\ \text{Classifi} \\ 0 \\ 1 \\ \\ \text{Classifi} \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{\frac{1}{2}00}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 4_{0\frac{1}{2}0}^{001} * \\ 0 \\ 0 \\ 0 \\ \end{array}$	${f X_{BS}}$ ${f X_{BS}}$ ${f 4_001 \atop 0\frac{1}{2}0}$ ${f 0}$ ${f 1}$ ${f 2_2}$ ${f X_{BS}}$ ${f 4_{\frac{1}{2}00}^{001}}*$ ${f 0}$ ${f 0}$ ${f 0}$	$=\mathbb{Z}_2$ $SI =$ $=\mathbb{Z}_2$ $SI =$ $=\mathbb{Z}_2$ $SI =$	$z_{2,S_4}$ $z_{2,S_4}$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $	weak   (000)   (000)   weak   (000)   (000)   weak   (000)   (000)   weak   (000)   (000)   weak   (000)   we	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.64 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 85.65 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline \\ \\ 85.66 \\ \end{array}$	$P4'/n$ $i$ $0$ $1$ $P4'/n'$ $i*$ $0$ $0$ $P_c4/n$ $4^{001}_{\frac{1}{2}00}$ $0$ $0$ $P_C4/n$ $4^{001}_{\frac{1}{2}00}$ $0$ $0$ $P_C4/n$	$ \begin{array}{c} \text{Classific} \\ \hline 4^{001}_{\frac{1}{2}00}* \\ \hline 0 \\ \hline 0 \\ \hline \text{Classific} \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 1 \\ \hline \text{Classific} \\ \hline i \\ \hline 0 \\ \hline 1 \\ \hline \text{Classific} \\ \hline i \\ \hline 0 \\ \hline 1 \\ \hline \text{Classific} \\ \hline 0 \\ \hline 0 \\ \hline \text{Classific} \\ \hline 0 \\ \hline \text{Classific} \\ \hline 0 \\ \hline 0 \\ \hline \end{array} $	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{\frac{1}{2}00}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	${f X_{BS}}$ ${f Z_{ABS}}$	$=\mathbb{Z}_2$ $SI =$ $=\mathbb{Z}_2$ $SI =$ $=\mathbb{Z}_2$ $SI =$	$z_{2,S_4}$	
	weak   (000)   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.64 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 85.65 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} P4'/n \\ i \\ 0 \\ 1 \\ \hline P4'/n' \\ i* \\ 0 \\ 0 \\ \hline P_c4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline P_C4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} \text{Classifi} \\ \bar{4}^{001}_{\frac{1}{2}00}* \\ 0 \\ 0 \\ \\ \text{Classifi} \\ \bar{4}^{001}_{\frac{1}{2}00} \\ 0 \\ 1 \\ \\ \text{Classifi} \\ i \\ 0 \\ 1 \\ \\ \text{Classifi} \\ i \\ 0 \\ 1 \\ \\ \text{Classifi} \\ 0 \\ 1 \\ \\ \text{Classifi} \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{\frac{1}{2}00}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	${f X_{BS}}$ ${f X_{BS}}$ ${f 4_001 \atop 0\frac{1}{2}0}$ ${f 0}$ ${f 1}$ ${f 2_2}$ ${f X_{BS}}$ ${f 4_{\frac{1}{2}00}^{001}}*$ ${f 0}$ ${f 0}$ ${f 0}$	$=\mathbb{Z}_2$ $SI =$ $=\mathbb{Z}_2$ $SI =$ $=\mathbb{Z}_2$ $SI =$	$z_{2,S_4}$ $z_{2,S_4}$	
	weak   (000)   (000)	$85.61$ $4^{001}_{\frac{1}{2}00}*$ $0$ $1$ $85.63$ $4^{001}_{\frac{1}{2}00}*$ $0$ $1$ $85.64$ $\{1 00\frac{1}{2}\}*$ $0$ $1$ $85.65$ $\{1 \frac{1}{2}\frac{1}{2}0\}*$ $0$ $1$ $85.66$ $\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$P4'/n$ $i$ $0$ $1$ $P4'/n'$ $i*$ $0$ $0$ $P_c4/n$ $4^{001}_{\frac{1}{2}00}$ $0$ $0$ $P_C4/n$ $4^{001}_{\frac{1}{2}00}$ $0$ $0$ $0$ $P_I4/n$ $4^{001}_{\frac{1}{2}00}$	$\begin{array}{c} \text{Classifi} \\ \bar{4}^{001}_{\frac{1}{2}00}* \\ 0 \\ 0 \\ \text{Classifi} \\ \bar{4}^{001}_{\frac{1}{2}00} \\ 0 \\ 1 \\ \text{Classifi} \\ i \\ 0 \\ 1 \\ \text{Classifi} \\ i \\ \frac{1}{2} \frac{1}{2} 0^* \\ 0 \\ \text{Classifi} \\ i \\ \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \\ \end{array}$	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}\frac{1}{2}}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$=\mathbb{Z}_2$ $SI =$ $=\mathbb{Z}_2$ $SI =$ $=\mathbb{Z}_2$ $SI =$	$z_{2,S_4}$ $z_{2,S_4}$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	weak   (000)   (000)     weak   (000)   (000)       weak   (000)   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.64 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 85.65 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline \\ 85.66 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c} P4'/n \\ i \\ 0 \\ 1 \\ \hline P4'/n' \\ i* \\ 0 \\ 0 \\ \hline P_c4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline P_C4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline O \\ \hline O \\ 0 \\ \hline O \\ O \\ \hline O \\ O \\ \hline O \\ O \\ O \\ \hline O \\ O \\$	$\begin{array}{c} \text{Classifi} \\ \bar{4}^{001}_{\frac{1}{2}00}* \\ 0 \\ 0 \\ \\ \text{Classifi} \\ \bar{4}^{001}_{\frac{1}{2}00} \\ 0 \\ 1 \\ \\ \text{Classifi} \\ i \\ 0 \\ 1 \\ \\ \text{Classifi} \\ i \\ 0 \\ 0 \\ \\ \text{Classifi} \\ i \\ \frac{1}{2} \frac{1}{2} 0* \\ 0 \\ \\ \text{Classifi} \\ 0 \\ 0 \\ 0 \\ \\ \text{Classifi} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}\frac{1}{2}}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ 0 \\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$	$z_{2,S_4}$ $z_{2,S_4}$ $z_{2,S_4}$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	weak   (000)   (000)     weak   (000)   (000)       weak   (000)   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.64 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 85.65 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline \\ 85.66 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 6.67  P4_2/ \end{array}$	$\begin{array}{c} P4'/n \\ i \\ 0 \\ 1 \\ \hline P4'/n' \\ i* \\ 0 \\ 0 \\ \hline P_c4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline P_C4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline O \\ \hline O \\ 0 \\ \hline O \\ O \\ \hline O \\ O \\ \hline O \\ O \\ O \\ \hline O \\ O \\$	$ \begin{array}{c} \text{Classifi} \\ \hline 4^{001}_{\frac{1}{2}00}* \\ \hline 0 \\ \hline 0 \\ \hline \text{Classifi} \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline i \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline i \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline i \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline i \\ \hline 0 \\ \hline 1 \\ \hline \\ \hline \text{Classifi} \\ \hline 0 \\ \hline 0 \\ \hline \\ \hline 0 \\ \hline \\ \hline 0 \\ \hline \\ \hline$	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$	$z_{2,S_4}$ $z_{2,S_4}$	
	weak   (000)   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.64 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 85.65 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline \\ 85.66 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 6.67  P4_2/ \\ 4^{001}_{0\frac{1}{2}\frac{1}{2}} \end{array}$	$\begin{array}{c} P4'/n \\ i \\ 0 \\ 1 \\ \hline P4'/n' \\ i* \\ 0 \\ 0 \\ \hline P_c4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline P_C4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline P_I4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ \hline O $	$ \begin{array}{c} \text{Classifi} \\ \hline 4^{001}_{\frac{1}{2}00}* \\ \hline 0 \\ \hline 0 \\ \hline \text{Classifi} \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \text{Classifi} \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \text{Classifi} \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array} $	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}\frac{1}{2}}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}\frac{1}{2}}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline{4}_{0\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline{4}_{0\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline{4}_{0\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline{4}_{0\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline{4}_{0\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline{4}_{0\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline{4}_{0\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline{4}_{0\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline{4}_{0\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \hline{4}_{0\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$	$z_{2,S_4}$ $z_{2,S_4}$ $z_{2,S_4}$	
	weak	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.64 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 85.65 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline \\ 85.66 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 6.67  P4_2/ \end{array}$	$\begin{array}{c} P4'/n \\ i \\ 0 \\ 1 \\ \hline P4'/n' \\ i* \\ 0 \\ 0 \\ \hline P_c4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline P_C4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ \hline 0 \\ \hline P_I4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ \hline \end{array}$	$ \begin{array}{c} \text{Classifi} \\ \hline 4^{001}_{\frac{1}{2}00}* \\ \hline 0 \\ \hline 0 \\ \hline \text{Classifi} \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline i \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline i \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline i \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline i \\ \hline 0 \\ \hline 1 \\ \hline \\ \hline \text{Classifi} \\ \hline 0 \\ \hline 0 \\ \hline \\ \hline 0 \\ \hline \\ \hline 0 \\ \hline \\ \hline$	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ 0 \\ \hline \text{cation} = \mathbb{Z}_{2} \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$	$z_{2,S_4}$ $z_{2,S_4}$ $z_{2,S_4}$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	weak   (000)   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline \\ 85.64 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 85.65 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline \\ 85.66 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline \\ 6.67  P4_2/ \\ 4^{001}_{0\frac{1}{2}\frac{1}{2}} \\ 0 \\ \end{array}$	$\begin{array}{c} P4'/n \\ i \\ 0 \\ 1 \\ \hline P4'/n' \\ i* \\ 0 \\ 0 \\ \hline P_c4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline P_C4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline P_I4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ \hline O \\ 0 \\ \hline O \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} \text{Classifi} \\ \hline 4^{001}_{\frac{1}{2}00}* \\ \hline 0 \\ \hline 0 \\ \hline \text{Classifi} \\ \hline 4^{001}_{\frac{1}{2}00}* \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline i \\ \hline 0 \\ \hline 1 \\ \hline \hline \text{Classifi} \\ \hline i \\ \hline \frac{1}{2^{\frac{1}{2}0}}* \\ \hline 0 \\ \hline 0 \\ \hline \hline \text{Classifi} \\ \hline i \\ \hline \frac{1}{2^{\frac{1}{2}1}}* \\ \hline 0 \\ \hline 0 \\ \hline \text{classifi} \\ \hline 0 \\ \hline \\ \hline \text{classifi} \\ \hline 0 \\ \hline 0 \\ \hline \\ \hline \text{classifi} \\ \hline 0 \\ \hline 0 \\ \hline \\ \hline \end{array}$	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}\frac{1}{2}}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}\frac{1}{2}}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0\frac{1}{2}}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ 0 \\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$	$z_{2,S_4}$ $z_{2,S_4}$ $z_{2,S_4}$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	weak   (000)   (000)       weak   (000)   (000)       weak   (000)   (000)	$\begin{array}{c} 85.61 \\ 4^{001}_{\frac{1}{2}00}* \\ \hline 0 \\ 1 \\ \hline 85.63 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline 85.64 \\ \{1 00\frac{1}{2}\}* \\ \hline 0 \\ 1 \\ \hline 85.65 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ \hline 0 \\ 1 \\ \hline 85.66 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ \hline 0 \\ 1 \\ \hline 6.67  P4_2/ \\ 4^{001}_{0\frac{1}{2}\frac{1}{2}} \\ \hline 0 \\ \hline 2 \\ \hline \end{array}$	$\begin{array}{c} P4'/n \\ i \\ 0 \\ 1 \\ \hline P4'/n' \\ i* \\ 0 \\ 0 \\ \hline P_c4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline P_C4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline P_I4/n \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline n  \text{Class} \\ i \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} \text{Classifi} \\ \hline 4^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \text{Classifi} \\ \hline 4^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifi} \\ \hline i \\ \hline 0 \\ \hline 1 \\ \hline \hline \text{Classifi} \\ \hline i \\ \hline i \\ \hline 2^{\frac{1}{2}00} * \\ \hline 0 \\ \hline \hline \text{Classifi} \\ \hline i \\ \hline i \\ \hline 2^{\frac{1}{2}\frac{1}{2}} * \\ \hline 0 \\ \hline 0 \\ \hline \hline \text{Classifi} \\ \hline 0 \\ \hline \hline 0 \\ \hline \\ \hline \text{Classifi} \\ \hline 0 \\ \hline 0 \\ \hline \\ \hline \end{array} $	$\begin{array}{c} \text{cation} = \mathbb{Z} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} \\ 0 \\ 1 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}0}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}\frac{1}{2}}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ \overline{4}_{0\frac{1}{2}\frac{1}{2}}^{001} * \\ 0 \\ \text{cation} = \mathbb{Z}_{2} \\ 0 \\ 0 \\ 0 \\ \text{cation} = \mathbb{Z}_{3} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$ $= \mathbb{Z}_2  \text{SI} =$	$z_{2,S_4}$ $z_{2,S_4}$ $z_{2,S_4}$	

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	(002)					77 V	F77	O.T.		
		86.69	$P4_2'/n$		ication =	$\mathbb{Z}_2$ $X_{\mathrm{BS}}$	$= \mathbb{Z}_2$	SI	$=z_{2P}'$	
$\mathbb{Z}_2$	weak	$4_{0\frac{1}{2}\frac{1}{2}}^{001}*$	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	$P4_2'/n'$	Classifi	ication =	$\mathbb{Z}_2$ $X_{BS}$	$=\mathbb{Z}_2$	SI :	$= z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4_{0\frac{1}{2}\frac{1}{2}}^{001}*$	i*	$\bar{4}^{001}_{0\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$				, <u>*</u>	
0	(000)	$\frac{0  \overline{2}  \overline{2}}{0}$	0	$0^{\frac{1}{2}\frac{1}{2}}$	$\frac{\overline{2}^{0}\overline{2}}{0}$					
$\frac{0}{1}$	(000)	1	0	1	1					
	(000)				ication =	77 V	777	CT		
	,	86.72	$\frac{P_c 4_2/n}{4001}$				$= \mathbb{Z}_2$	21 :	$= z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$4_{0\frac{1}{2}0}^{001}*$	i	$\bar{4}_{0\frac{1}{2}0}^{001}*$	$\bar{4}^{001}_{\frac{1}{2}00}*$				
0	(000)	0	0	0	0	0				
1	(000)	1	1	1	0	0				
		86.73	$P_C 4_2/n$	Classif	ication =		$=\mathbb{Z}_2$	SI	$= z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{0\frac{1}{2}\frac{1}{2}}^{001}$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$\bar{4}^{001}_{0\frac{1}{2}\frac{1}{2}}*$				
0	(000)	0	$\frac{0_{\overline{2}} \overline{2}}{0}$	0	$\frac{\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{0 \overline{2} \overline{2}}{0}$				
$\frac{0}{1}$	(000)	1	0	0	0	0				
	(550)						_ 77	CIT	— ~- ··	
	1	86.74	$P_I 4_2/n$		$\frac{\text{ication}}{7001}$	$\mathbb{Z}_2$ $\mathbb{X}_{\mathrm{BS}}$	<i>—</i> ∠∠2	21	$- z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4^{001}_{\frac{1}{2}00}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$\bar{4}^{001}_{0\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{001}_{rac{1}{2}0rac{1}{2}}$				
0	(000)	0	0	0	0	0				
1	(000)	1	1	0	1	1				
_	87	$.75  ext{ } I4/m$	Classifi	cation =	$\mathbb{Z}_M  imes \mathbb{Z}$	$X_{BS} = Z$	$\mathbb{Z}_{4,4}$	SI =	$z_{4m,87}^+, z_{4m,87}^-$	87
$\mathbb{Z}_{4,4}$	weak	$4^{001}$	i	$\bar{4}^{001}$	$\bar{4}^{001}$	$Cm_{(4)}^{001}$				
00	$(44\overline{4})$	0	0	0	0	44				
00	(000)	0	0	0	0	$4\overline{4}$				
00	(000)	0	0	0	0	00				
01	(000)	0	1	1	1	$1\overline{1}$				
02	(000)	0	0	0	0	$2\overline{2}$				
03	(000)	0	1	1	1	$3\overline{3}$				
10	$(11\overline{1})$	0	0	0	0	11				
11	$(11\overline{1})$	0	1	1	1	20				
12	$(11\overline{1})$	0	0	0	0	31				
13	$(11\overline{1})$	0	1	1	1	$4\overline{2}$				
20	$(22\overline{2})$	0	0	0	0	22				
21	$(22\overline{2})$	0	1	1	1	31				
22	$(22\overline{2})$	0	0	0	0	40				
23	$(22\overline{2})$	0	1	1	1	51				
30	$(33\overline{3})$	0	0	0	0	33				
31	$(33\overline{3})$	0	1	1	1	42				
32	$(33\overline{3})$	0	0	0	0	51				
33	$(33\overline{3})$	0	1	1	1	60				
		87.77	I4'/m	Classifi	cation =	$\mathbb{Z}_M$ $X_{BS}$	$=\mathbb{Z}_{\Lambda}$	SI	$=z'_{AP}$	
$\mathbb{Z}_4$	weak	4 <sup>001</sup> *	$\frac{i}{i}$	$\bar{4}^{001}*$	$\frac{\bar{4}^{001}*}{\bar{4}^{001}}$	$Cm_{(2)}^{001}$	4		41	
0	(000)	0	0	0	0	$\frac{6m_{(2)}}{44}$				
0	(000)	0	0	0	0	00				
3	(000)	1	1	0	0	11				
$\frac{3}{2}$	(000)	0	0	0	0	$\frac{11}{2\overline{2}}$				
$\frac{2}{1}$	(000)	1	1	0	0	$\frac{22}{3\overline{3}}$				
	(555)	87.79	I4'/m'		cation =		<u> </u>	ST -	$=z_{2,S_4}$	
	vvca 1-	4001*	<u> </u>	$\bar{4}^{001}$	$\frac{\text{cation}}{4^{001}}$	$\omega_2$ $\Lambda_{\rm BS}$	— <i>ш</i> 2	Ŋ1 =	$- \iota_{2,S_4}$	
$\frac{\mathbb{Z}_2}{0}$	weak		<i>i</i> *							
$\frac{0}{1}$	(000)	0	0	0	$\frac{0}{1}$					
	(000)							~-		
		87.80			ation = Z		$=\mathbb{Z}_4$	SI =	$=z_{4m,87}^{-}$	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{001}$	i	$\bar{4}^{001}$	$\bar{4}^{00\bar{1}}$	Cm	$\frac{001}{(4)}$		
0	(000)	0	0	0	0	0	$4^{2}$	1		

0	(000)	0	0	0	0	0	00	
$\frac{0}{1}$	(000)	1	0	1	1	1	<u>11</u>	
$\frac{1}{2}$	(000)	0	0	0	0	0	$\frac{11}{2\overline{2}}$	
$\frac{2}{3}$	(000)	1	0	1	1	1	$\frac{22}{3\overline{3}}$	
		88.81 I4 <sub>1</sub>	,		$\mathbb{Z} = \mathbb{Z} \times \mathbb{Z}_2$	$X_{BS} =$	$\mathbb{Z}_{2,2}$ $\mathrm{SI}=z_{2,S_4},z_{2P}'$	
$\mathbb{Z}_{2,2}$	weak	$4^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	i	$\bar{4}^{001}_{\bar{1}11}$	$\bar{4}^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}$			
00	(444)	$\frac{\overline{4}\overline{4}\overline{4}}{\overline{2}}$	0	$\frac{\overline{4} \overline{4} \overline{4}}{0}$	0			
00	$(44\overline{4})$	2	0	0	0			
01	$(22\overline{2})$	1	1	0	0			
10	$(\overline{22}2)$	1	0	1	1			
11	(000)	0	1	1	1			
	()	88.83	$I4'_1/a$	Classifi	$cation = \mathbb{Z}_2$	V	$=\mathbb{Z}_2$ SI $=z'_{2P}$	
77				7001 .		ABS	$- \mathbb{Z}_2$ Si $- \mathbb{Z}_2 P$	
$\mathbb{Z}_2$	weak	$4^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}*$	i	$\bar{4}^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}*$	$\bar{4}^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}*$			
0	(000)	0	0	0	0			
1	(000)	1	1	0	0			
		88.85	$I4_1'/a'$		cation = $\mathbb{Z}_2$	$X_{BS}$	$=\mathbb{Z}_2$ SI $=z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}*$	<i>i</i> *	$\bar{4}^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	$\bar{4}^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}$			
0	(000)	$\frac{\frac{1}{4}\frac{1}{4}\frac{1}{4}}{0}$	0	$\frac{\frac{1}{4}\frac{1}{4}\frac{1}{4}}{0}$	0			
$\frac{0}{1}$	(000)	1	0	1	1			
	1 (000)		-			v	77 CT	
	,	88.86	$I_c 4_1/a$		cation = $\mathbb{Z}_2$	$X_{\mathrm{BS}}$	$=\mathbb{Z}_2 \mathrm{SI}=z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	i	$ar{4}^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	$1_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{001}$		
0	(000)	0	0	0	0	0		
1	(000)	1	0	1	1	1		
		89.90	P42'2'	Classifica	$ation = \mathbb{Z} \times \mathbb{Z}$	$\mathbb{Z}_2$ X	$_{\mathrm{BS}} = \mathbb{Z}_4  \mathrm{SI} = z_{4C}$	
$\mathbb{Z}_4$	weak	$4^{001}$	$2^{100}*$	$2^{110}*$				
0	$(00\overline{4})$	0	0	0				
0	(000)	0	1	1				
3	$(00\overline{1})$	0	0	0				
2	$(00\overline{2})$	0	0	0				
1	$(00\overline{3})$	0	0	0				
		90.98	$P42_{1}'2'$	Classifica	$ation = \mathbb{Z} \times \mathbb{Z}$	ℤ2 X	$_{\mathrm{BS}} = \mathbb{Z}_4  \mathrm{SI} = z_{4C}$	
$\mathbb{Z}_4$	weak	$4^{001}_{\frac{1}{2}\frac{1}{2}0}$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$	2 <sup>110</sup> *			PD 1 11 11 11 11 11 11 11 11 11 11 11 1	
0	(004)	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	0				
0	(000)	0	1	1				
$\frac{0}{1}$	(000)	0	0	0				
$\frac{1}{2}$	(001)	0	0	0				
$\frac{2}{3}$	(003)	0	0	0				
	(000)				tion - 7 v	77 V	$S_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI} = z_{4C}/2$	
$\mathbb{Z}_2$	weak		$\frac{2^{100}*}{2^{100}}$		ыноп <i>— Ш</i> Х .	<i>ω</i> 2 Λ;	$_{\rm BS}-\mu_2$ $_{\rm BI}-z_{4C/2}$	
		$4_{00\frac{1}{2}}^{001}$		$2^{110}_{00\frac{1}{2}}*$				
0	(004)	2	0	0				
	(000)	0	1	1				
1	(002)	1	1	0				
			$94_{2}2_{1}^{\prime}2^{\prime}$		$ation = \mathbb{Z} \times \mathbb{Z}$	$\mathbb{Z}_2$ X	$_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{SI} = z_{4C}/2$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{110}*$				
0	(004)	2	0	0				
0	(000)	0	1	1				
1	(002)	1	0	1				
		97.154	I42'2' (	Classificat	$ion = \mathbb{Z} \times \mathbb{Z}$	$Z_2 = X_B$	$S = \mathbb{Z}_2$ $SI = z_{4C}/2$	
$\mathbb{Z}_2$	weak	$4^{001}$	$2^{100}*$	2 <sup>110</sup> *			/	
0	(222)	0	0	0				
0	(000)	0	1	1				
1	$\overline{(1111)}$	0	1	1				
		99.167	P4m'r	m' Class	sification = 2	7, X <sub>D</sub>	$S = \mathbb{Z}_4$ $SI = z_{4C}$	
$\mathbb{Z}_4$	weak	$\frac{33.107}{4^{001}}$	$\frac{1}{m_{100}}*$	$\frac{n}{m_{110}*}$		1.B	3	
0	$(00\overline{4})$	0	0	0				
	1 (001)							

	T (= = =							
3	$(00\overline{1})$	0	0	0				
2	$(00\overline{2})$	0	0	0				
	$(00\overline{3})$	0	0	0			~~	
		$\frac{100.17}{4^{001}}$	$\frac{75  P4b'n}{100}$		fication = 1	$\mathbb{Z}  X_{BS} = \mathbb{Z}$	$SI = z_{4C}$	
$\mathbb{Z}_4$	weak	4001	$g_{\frac{1}{2}\frac{1}{2}0}^{100}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$				
0	$(00\bar{4})$	0	0	0				
3	$(00\bar{1})$	0	0	0				
2	$(00\overline{2})$	0	0	0				
1	$(00\overline{3})$	0	0	0				
		101.183		' Classif	$ication = \mathbb{Z}$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{4C}/$	2
$\mathbb{Z}_2$	weak	$4_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{100}*$	$m_{110}*$				
0	$(00\overline{4})$	$\overline{2}$	$\overline{2}$	0				
1	$(00\bar{2})$	1	1	0				
		102.191	$P4_2n'm$	' Classi	fication = Z	$\mathbb{Z} = \mathbb{Z}_2$	$SI = z_{4C}/$	2
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$g^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$m_{110}*$				
0	$(00\overline{4})$	$\frac{2}{2}$	$\frac{2}{2}$	0				
1	$(00\overline{2})$	1	1	0				
		103.19	99 P4c'a	c' Classit	fication = Z	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4C}$	
$\mathbb{Z}_4$	weak	4001	$g_{00\frac{1}{2}}^{100}*$	$g_{00\frac{1}{2}}^{110}*$		~ -	40	
0	(008)	0	$\frac{300\frac{1}{2}}{4}$	$\frac{300\frac{1}{2}}{4}$				
$\frac{3}{3}$	(000)	0	$\frac{1}{1}$	$\frac{1}{1}$				
2	$(00\overline{4})$	0	$\frac{\overline{2}}{2}$	$\frac{1}{2}$				
1	$(00\overline{6})$	0	3	3				
		104.207	7 P4n'c'	Classifi	$cation = \mathbb{Z}$	$X_{PS} = \mathbb{Z}_2$	$SI = z_{4C}/2$	)
$\mathbb{Z}_2$	weak	4001	$g^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*$		11002	21 ~40/2	<u> </u>
0	$(00\overline{4})$	0	$\frac{3\frac{1}{2}\frac{1}{2}\frac{1}{2}}{2}$	$\frac{3\frac{1}{2}\frac{1}{2}\frac{1}{2}}{2}$				
$\frac{0}{1}$	$(00\overline{2})$	0	$\frac{2}{1}$	<u>-</u> 1				
				I .				
	(00-)				tion 7	V 7/	CT .	
7.		104.209	$P_CAnc$	Classifica	$tion = \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,104.2}$	209
$\mathbb{Z}_2$	weak	$\frac{104.209}{\{1 \frac{1}{2}\frac{1}{2}0\}*}$		Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$g_{00\frac{1}{2}}^{010}*$	$X_{\mathrm{BS}} = \mathbb{Z}_2$	$SI = z_{2,104.2}$	209
$\mathbb{Z}_2$		$   \begin{array}{c}     104.209 \\     \{1 \frac{1}{2}\frac{1}{2}0\}* \\     1   \end{array} $	$ \begin{array}{c} P_C 4nc \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 1 \end{array} $	Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ 1	$g_{00\frac{1}{2}}^{010} *$			
0	weak   (000)	$   \begin{array}{c}     104.209 \\     \{1 \frac{1}{2}\frac{1}{2}0\}* \\     1 \\     105.215   \end{array} $	$ \begin{array}{c} P_C 4nc \\ 4_{\frac{1}{2}\frac{1}{2}0}^{001} * \\ 1 \\ P 4_2 m'c \end{array} $	Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ 1 Classifica	$g_{00\frac{1}{2}}^{010}*$		$SI = z_{2,104.2}$ $SI = z_{4C}/$	
	weak (000)	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4_{00\frac{1}{2}}^{001} \end{array} $	$ \begin{array}{c} P_C 4nc \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 1 \end{array} $	Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ 1	$g_{00\frac{1}{2}}^{010} *$			
$ \begin{array}{c} 0 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	weak   (000)   weak   (004)	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4_{00\frac{1}{2}}^{001} \\ 2 \end{array} $	$ \begin{array}{c} P_C 4nc \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 1 \\ P 4_2 m' \epsilon \\ m_{100} * \\ 0 \end{array} $	Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ 1 Classif $g_{00\frac{1}{2}}^{110}*$ 2	$g_{00\frac{1}{2}}^{010} *$			
$\mathbb{Z}_2$	weak (000)	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4_{00\frac{1}{2}}^{001} \end{array} $	$P_{C}4nc \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 1 \\ P4_{2}m'c \\ m_{100} *$	Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ 1 Classifica $g_{00\frac{1}{2}}^{110}*$ 2 Classifica $g_{00\frac{1}{2}}^{110}*$ 2	$\frac{g_{00\frac{1}{2}}^{010} *}{0}$ fication = $\mathbb{Z}$	$Z - X_{ m BS} = \mathbb{Z}_2$	$SI = z_{4C}/$	2
$ \begin{array}{c} 0 \\ \hline \mathbb{Z}_2 \\ 0 \\ \hline 1 \end{array} $	weak (000) weak (004) (002)	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4_{00\frac{1}{2}}^{001} \\ 2 \\ 1 \\ 106.223 \end{array} $	$\begin{array}{c} P_{C}4nc \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 1 \\ \hline P4_{2}m'c \\ m_{100}* \\ 0 \\ \hline 0 \\ \hline P4_{2}b'c \end{array}$	$\begin{array}{c} \text{Classifica} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 1 \\ \text{Classifica} \\ g_{00\frac{1}{2}}^{110} * \\ 2 \\ 1 \\ \hline \text{Classifica} \\ \end{array}$	$g_{00\frac{1}{2}}^{010} *$	$Z - X_{ m BS} = \mathbb{Z}_2$		2
$ \begin{array}{c} 0 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	weak   (000)   weak   (004)	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4_{00\frac{1}{2}}^{001} \\ 2 \\ 1 \\ 106.223 \end{array} $	$\begin{array}{c} P_{C}4nc \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 1 \\ \hline P4_{2}m'c \\ m_{100}* \\ 0 \\ \hline 0 \\ \hline P4_{2}b'c \end{array}$	$\begin{array}{c} \text{Classifica} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 1 \\ \text{Classifica} \\ g_{00\frac{1}{2}}^{110} * \\ 2 \\ 1 \\ \hline \text{Classifica} \\ \end{array}$	$\frac{g_{00\frac{1}{2}}^{010} *}{0}$ fication = $\mathbb{Z}$	$Z - X_{ m BS} = \mathbb{Z}_2$	$SI = z_{4C}/$	2
$ \begin{array}{c} 0 \\ \hline \mathbb{Z}_2 \\ 0 \\ \hline 1 \end{array} $	weak   (000)   weak   (002)   weak   (004)   (004)	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4_{00\frac{1}{2}}^{001} \\ 2 \\ 1 \end{array} $	$P_{C}4nc$ $\frac{4^{001}}{\frac{1}{2}\frac{1}{2}0}*$ $1$ $P4_{2}m'c$ $m_{100}*$ $0$	Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ 1 Classifica $g_{00\frac{1}{2}}^{110}*$ 2 Classifica $g_{00\frac{1}{2}}^{110}*$ 2	$\frac{g_{00\frac{1}{2}}^{010} *}{0}$ fication = $\mathbb{Z}$	$Z - X_{ m BS} = \mathbb{Z}_2$	$SI = z_{4C}/$	2
$ \begin{array}{c c} \hline 0 \\ \hline \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_2 \end{array} $	weak   (000)   weak   (004)   (002)   weak   weak   weak   (004)   weak   wea	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4^{001}_{00\frac{1}{2}} \\ 2 \\ 1 \\ 106.223 \\ 4^{001}_{00\frac{1}{2}} \end{array} $	$\begin{array}{c} P_C 4nc \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 1 \\ \hline P4_2m'c \\ m_{100} * \\ 0 \\ \hline 0 \\ P4_2b'c \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ \end{array}$	Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ 1 Classifi $g_{00\frac{1}{2}}^{110}*$ 2 $g_{00\frac{1}{2}\frac{1}{2}}^{110}$ $g_{00\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\frac{g_{00\frac{1}{2}}^{010} *}{0}$ fication = $\mathbb{Z}$	$Z - X_{ m BS} = \mathbb{Z}_2$	$SI = z_{4C}/$	2
$ \begin{array}{c c} \hline  & & \\ \hline $	weak   (000)   weak   (002)   weak   (004)   (004)	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4_{00\frac{1}{2}}^{001} \\ 2 \\ 1 \\ 106.223 \\ 4_{00\frac{1}{2}}^{001} \\ \hline 2 \\ \hline 1 \\ 107.231 \end{array} $	$\begin{array}{c} P_{C}4nc \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 1 \\ \hline P4_{2}m'c \\ m_{100}* \\ 0 \\ \hline 0 \\ P4_{2}b'c \\ g^{100}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} \text{Classifica} \\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{g_{\frac{10}{2}\frac{1}{2}}^{110}} \\ \text{Classifica} \\ \frac{g_{00\frac{1}{2}}^{110}*}{2} \\ \text{Classifica} \\ \frac{g_{\frac{110}{2}\frac{1}{2}\frac{1}{2}}^{110}*}{2} \\ \\ \frac{g_{\frac{110}{2}\frac{1}{2}\frac{1}{2}}^{110}*}{2} \\ \end{array}$	$\frac{g_{00\frac{1}{2}}^{010} *}{0}$ fication = $\mathbb{Z}$	$X_{ m BS} = \mathbb{Z}_2$ $X_{ m BS} = \mathbb{Z}_2$	$SI = z_{4C}/$	2
$ \begin{array}{c c} \hline  & & \\ \hline $	weak   (000)   weak   (004)   (002)   weak   (004)   (002)   weak   (004)   (002)   weak   weak   (004)   weak   (004)   weak   (005)   weak   weak	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4_{00\frac{1}{2}}^{0001} \\ 2 \\ 1 \\ 106.223 \\ 4_{00\frac{1}{2}}^{001} \\ \hline 2 \\ \hline 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	$\begin{array}{c} P_{C}4nc \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 1 \\ \hline P4_{2}m'c \\ m_{100}* \\ 0 \\ \hline 0 \\ F4_{2}b'c \\ g^{100}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ \end{array}$	$\begin{array}{c} \text{Classifica} \\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{g_{\frac{10}{2}\frac{1}{2}}^{110}} \\ \text{Classifica} \\ \frac{g_{00\frac{1}{2}}^{110}*}{2} \\ \text{Classifica} \\ \frac{g_{\frac{110}{2}\frac{1}{2}\frac{1}{2}}^{110}*}{2} \\ \\ \frac{g_{\frac{110}{2}\frac{1}{2}\frac{1}{2}}^{110}*}{2} \\ \end{array}$	$g_{00\frac{1}{2}}^{010} *$ $0$ $fication = \mathbb{Z}$ $detaion = \mathbb{Z}$	$X_{ m BS} = \mathbb{Z}_2$ $X_{ m BS} = \mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c}                                     $	weak   (000)   weak   (004)   (002)   weak   (004)   (222)   weak   (222)   wea	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4_{00\frac{1}{2}}^{001} \\ 2 \\ 1 \\ 106.223 \\ 4_{00\frac{1}{2}}^{001} \\ \hline 2 \\ \hline 1 \\ 107.231 \end{array} $	$P_{C}4nc$ $4^{001}_{\frac{1}{2}\frac{1}{2}0}*$ $1$ $P_{4}2m'c$ $m_{100}*$ $0$ $F_{4}2b'c'$ $g^{100}_{\frac{1}{2}\frac{1}{2}0}*$ $0$ $0$ $0$	$\begin{array}{c} \text{Classifica} \\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{11}} \\ \text{Classifica} \\ \frac{g_{00\frac{1}{2}}^{110}*}{2} \\ \frac{1}{2} \\ \frac{g_{10}^{110}*}{2} \\ \frac{g_{10}^{110}*}{2} \\ \frac{g_{10}^{110}*}{2} \\ \frac{g_{10}^{110}*}{2} \\ \end{array}$	$g_{00\frac{1}{2}}^{010} *$ $0$ $fication = \mathbb{Z}$ $detaion = \mathbb{Z}$	$X_{ m BS} = \mathbb{Z}_2$ $X_{ m BS} = \mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c c} \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 $	weak   (000)   weak   (004)   (002)   weak   (004)   (002)   weak   (004)   (002)   weak   weak   (004)   weak   (004)   weak   (005)   weak   weak	$\begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4\frac{001}{00\frac{1}{2}} \\ 2 \\ 1 \\ 106.223 \\ 4\frac{001}{00\frac{1}{2}} \\ \overline{1} \\ 107.231 \\ 4^{001} \end{array}$	$P_{C}4nc$ $4^{001}_{\frac{1}{2}\frac{1}{2}0}*$ $1$ $P_{4}2m'c$ $m_{100}*$ $0$ $F_{4}2b'c'$ $g^{100}_{\frac{1}{2}\frac{1}{2}0}*$ $0$ $I_{4}m'm$ $m_{100}*$	$\begin{array}{c} \text{Classifica} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{1} \\ \end{array} \\ \begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} * \\ \hline g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} * \\ \hline g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} * \\ \hline g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} * \\ \hline g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ \hline g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ \hline g_{\frac{1}{2}\frac{1}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{$	$g_{00\frac{1}{2}}^{010} *$ $0$ $ication = \mathbb{Z}$ $ication = \mathbb{Z}$	$X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c c} \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ $	weak   (000)   weak   (004)   (002)   weak   (004)   (222)   weak   (222)   wea	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ \hline 105.215 \\ 4\frac{001}{00\frac{1}{2}} \\ 2 \\ \hline 1 \\ \hline 106.223 \\ 4\frac{001}{00\frac{1}{2}} \\ \hline \overline{1} \\ \hline 107.231 \\ 4^{001} \\ 0 \\ \hline 0 \\ \hline \end{array} $	$P_{C}4nc$ $4^{001}_{\frac{1}{2}\frac{1}{2}0}*$ $1$ $P_{C}4nc$ $4^{001}_{\frac{1}{2}\frac{1}{2}0}*$ $1$ $P_{C}4nc$ $m_{100}*$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ 1  Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ 1  Classifica $g_{00\frac{1}{2}}^{110}$ *  Classifica $g_{00\frac{1}{2}}^{110}$ *  Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ *  Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ *  Classifica $g_{00\frac{1}{2}}^{110}$ *  Classification $g_{00\frac{1}{2}}^{110}$ *  Classificatio	$g_{00\frac{1}{2}}^{010} *$ $0$ $ication = \mathbb{Z}$ $ication = \mathbb{Z}$	$X_{ m BS} = \mathbb{Z}_2$ $X_{ m BS} = \mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c c} \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ $	weak   (000)   weak   (004)   (002)   weak   (004)   (222)   weak   (222)   wea	$\begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ \hline 1 \\ 105.215 \\ 4\frac{001}{000\frac{1}{2}} \\ 2 \\ 1 \\ \hline 106.223 \\ 4\frac{001}{000\frac{1}{2}} \\ \hline \overline{2} \\ \hline \overline{1} \\ 107.231 \\ 4\frac{001}{000} \\ 0 \\ \hline \end{array}$	$P_{C}4nc$ $4^{001}_{\frac{1}{2}\frac{1}{2}0}*$ $1$ $P_{C}4nc$ $4^{001}_{\frac{1}{2}\frac{1}{2}0}*$ $1$ $P_{C}4nc$ $m_{100}*$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ 1  Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ 1  Classifica $g_{00\frac{1}{2}}^{110}$ *  Classifica $g_{00\frac{1}{2}}^{110}$ *  Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ *  Classifica $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ *  Classifica $g_{00\frac{1}{2}}^{110}$ *  Classification $g_{00\frac{1}{2}}^{110}$ *  Classificatio	$g_{00\frac{1}{2}}^{010} *$ $0$ $ication = \mathbb{Z}$ $ication = \mathbb{Z}$	$X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c c}  & 0 \\ \hline  \mathbb{Z}_2 \\ \hline  0 \\ \hline  1 \\ \hline  \mathbb{Z}_2 \\ \hline  0 \\ \hline  1 \\ \hline  \mathbb{Z}_2 \\ \hline  0 \\ \hline  1 \\ \hline  \mathbb{Z}_2 \\ \hline  0 \\ \hline  1 \\ \hline  \end{array} $	weak   (000)   weak   (004)   (002)   weak   (222)   (111)	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ \hline 105.215 \\ 4\frac{001}{00\frac{1}{2}} \\ 2 \\ \hline 1 \\ \hline 106.223 \\ 4\frac{001}{00\frac{1}{2}} \\ \hline \overline{1} \\ \hline 107.231 \\ 4^{001} \\ 0 \\ \hline 0 \\ \hline \end{array} $	$P_{C}4nc$ $4^{001}_{\frac{1}{2}\frac{1}{2}0}*$ $1$ $P_{4}2m'c$ $m_{100}*$ $0$ $0$ $P_{4}2b'c$ $g^{100}_{\frac{1}{2}\frac{1}{2}0}*$ $0$ $0$ $I_{4}m'm$ $m_{100}*$ $0$ $0$	$\begin{array}{c} \text{Classifica} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{1} \\ \end{array} \\ \begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} * \\ \hline g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} * \\ \hline g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} * \\ \hline g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} * \\ \hline g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ \hline g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ \hline g_{\frac{1}{2}\frac{1}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{$	$g_{00\frac{1}{2}}^{010} *$ $0$ $ication = \mathbb{Z}$ $ication = \mathbb{Z}$	$X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c c}  & 0 \\ \hline  & \mathbb{Z}_2 \\  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_4 \\ \end{array} $	weak   (000)   weak   (004)   (002)   weak   (222)   (111)   weak   weak   (222)   (222)   weak   (223)   (223)   weak   (233)   weak   (233)   weak   (233)   weak   (233)   weak   (233)   weak	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ \hline 1 \\ 105.215 \\ 4\frac{001}{00\frac{1}{2}} \\ \hline 2 \\ \hline 1 \\ 106.223 \\ 4\frac{001}{00\frac{1}{2}} \\ \hline \overline{1} \\ 107.231 \\ 4^{001} \\ \hline 0 \\ 0 \\ \hline \end{array} $	$\begin{array}{c} P_{C}4nc \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 1 \\ \hline P4_{2}m'c \\ m_{100}* \\ 0 \\ \hline 0 \\ \hline SP4_{2}b'c \\ g^{100}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ \hline 0 \\ \hline I4m'm \\ m_{100}* \\ 0 \\ \hline 0 \\ \hline 37 I4c'm \\ g^{100}_{00\frac{1}{2}}* \\ \end{array}$	$\begin{array}{c} \text{Classifica} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ \text{Classifi} \\ g_{00\frac{1}{2}}^{110} * \\ 2 \\ 1 \\ \hline \text{Classifi} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{12} * \\ 2 \\ 1 \\ \hline \text{Classifi} \\ m_{110} * \\ 0 \\ 0 \\ \\ \text{Classif} \\ g_{00\frac{1}{2}}^{110} * \\ 0 \\ \\ \text{Classifi} \\ g_{00\frac{1}{2}}^{110} * \\ \\ \text{Classifi} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$g_{00\frac{1}{2}}^{010} *$ $0$ $ication = \mathbb{Z}$ $ication = \mathbb{Z}$	$X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c c} \hline  & & \\  & & \\ \hline  & & \\  & & \\  & & \\ \hline  & & \\  & & \\  & & \\ \hline  & & \\  & & \\  & & \\ \hline  $	weak   (000)   weak   (004)   (002)   weak   (222)   (111)   weak   (444)	$\begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ \hline 1 \\ 105.215 \\ 4\frac{001}{00\frac{1}{2}} \\ 2 \\ \hline 1 \\ \hline 106.223 \\ 4\frac{001}{00\frac{1}{2}} \\ \hline \overline{1} \\ 107.231 \\ 4^{001} \\ 0 \\ \hline 0 \\ \hline 108.23 \\ 4^{001} \\ \hline 0 \\ \end{array}$	$\begin{array}{c} P_{C}4nc \\ \frac{4^{001}_{2}}{4^{1}_{2}}0^{*} \\ 1 \\ \hline P4_{2}m'c \\ m_{100}* \\ 0 \\ \hline 0 \\ \hline SP4_{2}b'c' \\ g^{100}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ \hline 0 \\ \hline I4m'm \\ m_{100}* \\ \hline 0 \\ \hline 0 \\ \hline 37I4c'm \\ g^{100}_{00\frac{1}{2}}* \\ 4 \\ \hline \end{array}$	$\begin{array}{c} \text{Classifica} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ \vdots \\ \text{Classifi} \\ g_{00\frac{1}{2}}^{110} * \\ 2 \\ 1 \\ \hline \text{Classifi} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{12} * \\ 2 \\ 1 \\ \hline \text{Classifi} \\ m_{110} * \\ 0 \\ 0 \\ \vdots \\ 0 \\ 0 \\ c$	$g_{00\frac{1}{2}}^{010} *$ $0$ $ication = \mathbb{Z}$ $ication = \mathbb{Z}$	$X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c c} \hline  & & & \\ \hline$	weak   (000)   weak   (004)   (002)   weak   (222)   (111)   weak   (444)   (111)	$\begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ \hline 1 \\ 105.215 \\ 4\frac{001}{00\frac{1}{2}} \\ 2 \\ \hline 1 \\ \hline 106.223 \\ 4\frac{001}{00\frac{1}{2}} \\ \hline \overline{1} \\ 107.231 \\ 4^{001} \\ 0 \\ 0 \\ \hline \end{array}$	$\begin{array}{c} P_{C}4nc \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 1 \\ \hline P4_{2}m'c \\ m_{100}* \\ 0 \\ \hline 0 \\ \hline SP4_{2}b'c \\ g^{100}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ \hline 0 \\ \hline I4m'm \\ m_{100}* \\ \hline 0 \\ \hline 0 \\ \hline 37I4c'm \\ g^{100}_{00\frac{1}{2}}* \\ 4 \\ 1 \\ \hline \end{array}$	$\begin{array}{c} \text{Classifica} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 1 \\ \hline \\ \text{Classifi} \\ g_{\frac{10}{2}\frac{1}{2}}^{110} * \\ 2 \\ 1 \\ \hline \\ \text{Classifi} \\ g_{\frac{11}{2}\frac{1}{2}}^{110} * \\ 2 \\ \hline \\ 1 \\ \hline \\ \text{Classifi} \\ m_{110} * \\ 0 \\ 0 \\ \hline \\ \text{Classif} \\ g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ 0 \\ 0 \\ \hline \\ \text{Classif} \\ g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \hline \\ \text{Classif} \\ 0 \\ 1 \\ \end{array}$	$g_{00\frac{1}{2}}^{010} *$ $0$ $ication = \mathbb{Z}$ $ication = \mathbb{Z}$	$X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c c} \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_4 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & 2 \\ \end{array} $	weak   (000)   weak   (004)   (002)   weak   (222)   (111)   weak   (444)   (111)   (222)	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4\frac{001}{00\frac{1}{2}} \\ 2 \\ 1 \\ 106.223 \\ 4\frac{001}{00\frac{1}{2}} \\ \overline{1} \\ 107.231 \\ 4^{001} \\ 0 \\ 0 \\ 108.23 \\ 4^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 110.249 \\ \end{array} $	$P_{C}4nc$ $4^{001}_{\frac{1}{2}\frac{1}{2}0}*$ $1$ $P_{4}2m'c$ $m_{100}*$ $0$ $0$ $F_{4}2b'c'$ $g^{100}_{\frac{1}{2}\frac{1}{2}0}*$ $0$ $0$ $F_{4}2b'c'$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \text{Classifica} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ \text{Classifi} \\ g_{00\frac{1}{2}}^{110} * \\ 2 \\ 1 \\ \hline \text{Classifi} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{12} * \\ 2 \\ \hline 1 \\ \text{Classifi} \\ m_{110} * \\ 0 \\ 0 \\ \text{Classif} \\ g_{00\frac{1}{2}}^{110} * \\ 4 \\ 1 \\ 2 \\ 3 \\ \hline \text{Classifica} \\ \end{array}$	$g_{00\frac{1}{2}}^{010} *$ $0$ $ication = \mathbb{Z}$ $ication = \mathbb{Z}$	$X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c c} \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_4 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & 2 \\ \end{array} $	weak   (000)   weak   (004)   (002)   weak   (222)   (111)   weak   (444)   (111)   (222)	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4\frac{001}{00\frac{1}{2}} \\ 2 \\ 1 \\ 106.223 \\ 4\frac{001}{00\frac{1}{2}} \\ \overline{1} \\ 107.231 \\ 4^{001} \\ 0 \\ 0 \\ 108.23 \\ 4^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 110.249 \\ \end{array} $	$P_{C}4nc$ $4^{001}_{\frac{1}{2}\frac{1}{2}0}*$ $1$ $P_{4}2m'c$ $m_{100}*$ $0$ $0$ $F_{4}2b'c'$ $g^{100}_{\frac{1}{2}\frac{1}{2}0}*$ $0$ $0$ $F_{4}2b'c'$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \text{Classifica} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ \text{Classifi} \\ g_{00\frac{1}{2}}^{110} * \\ 2 \\ 1 \\ \hline \text{Classifi} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{12} * \\ 2 \\ \hline 1 \\ \text{Classifi} \\ m_{110} * \\ 0 \\ 0 \\ \text{Classif} \\ g_{00\frac{1}{2}}^{110} * \\ 4 \\ 1 \\ 2 \\ 3 \\ \hline \text{Classifica} \\ \end{array}$	$g_{00\frac{1}{2}}^{001} *$ $0$ fication = $\mathbb{Z}$ $dication = \mathbb{Z}$ $dication = \mathbb{Z}$	$X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c c} \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_4 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & 2 \\ \hline  & 3 \\ \hline  & \mathbb{Z}_2 $	weak   (000)   weak   (004)   (002)   weak   (222)   (111)   weak   (444)   (111)   (222)   (333)   weak   weak	$\begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ \hline 1 \\ 105.215 \\ 4\frac{001}{000\frac{1}{2}} \\ 2 \\ \hline 1 \\ \hline 106.223 \\ 4\frac{001}{000\frac{1}{2}} \\ \hline \overline{1} \\ \hline 107.231 \\ 4^{001} \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline 108.23 \\ 4^{001} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline \end{array}$	$\begin{array}{c} P_{C}4nc \\ \frac{4^{001}_{2}}{4^{1}_{2}} \circ * \\ 1 \\ \hline P4_{2}m'c \\ m_{100} \ast \\ 0 \\ 0 \\ \hline GP4_{2}b'c \\ g^{100}_{\frac{1}{2}} \circ * \\ 0 \\ 0 \\ \hline GP4_{2}b'c \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} \text{Classifica} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ \vdots \\ \text{Classifica} \\ g_{00\frac{1}{2}}^{110} * \\ 2 \\ 1 \\ \hline \\ \text{Classifica} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{12} * \\ 2 \\ 1 \\ \hline \\ \text{Classifica} \\ g_{00\frac{1}{2}}^{110} * \\ 4 \\ 1 \\ 2 \\ 3 \\ \hline \\ \text{Classifica} \\ g_{\frac{1}{2}0\frac{1}{4}}^{110} * \\ 4 \\ 1 \\ 2 \\ 3 \\ \hline \end{array}$	$g_{00\frac{1}{2}}^{001} *$ $0$ fication = $\mathbb{Z}$ $dication = \mathbb{Z}$ $dication = \mathbb{Z}$	$X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c c}  & 0 \\ \hline  \mathbb{Z}_2 \\ \hline  0 \\ \hline  1 \\ \hline  \mathbb{Z}_2 \\ \hline  0 \\ \hline  1 \\ \hline  \mathbb{Z}_2 \\ \hline  0 \\ \hline  1 \\ \hline  \mathbb{Z}_4 \\ \hline  0 \\ \hline  1 \\ \hline  2 \\ \hline  3 \\ \hline \end{array} $	weak   (000)   weak   (004)   (002)   weak   (202)   (111)   weak   (444)   (111)   (222)   (333)	$ \begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4\frac{001}{00\frac{1}{2}} \\ 2 \\ 1 \\ 106.223 \\ 4\frac{001}{00\frac{1}{2}} \\ \overline{1} \\ 107.231 \\ 4^{001} \\ 0 \\ 0 \\ 108.23 \\ 4^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 110.249 \\ \end{array} $	$P_{C}4nc$ $4^{001}_{\frac{1}{2}\frac{1}{2}0}*$ $1$ $P_{4}2m'c$ $m_{100}*$ $0$ $0$ $F_{4}2b'c'$ $g^{100}_{\frac{1}{2}\frac{1}{2}0}*$ $0$ $0$ $F_{4}2b'c'$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \text{Classifica} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ \text{Classifi} \\ g_{00\frac{1}{2}}^{110} * \\ 2 \\ 1 \\ \hline \text{Classifi} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{12} * \\ 2 \\ \hline 1 \\ \text{Classifi} \\ m_{110} * \\ 0 \\ 0 \\ \text{Classif} \\ g_{00\frac{1}{2}}^{110} * \\ 4 \\ 1 \\ 2 \\ 3 \\ \hline \text{Classifica} \\ \end{array}$	$g_{00\frac{1}{2}}^{001} *$ $0$ fication = $\mathbb{Z}$ $dication = \mathbb{Z}$ $dication = \mathbb{Z}$	$X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$ $X_{ m BS}=\mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$	2
$ \begin{array}{c c} \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_4 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & 2 \\ \hline  & 3 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  &$	weak   (000)   weak   (004)   (002)   weak   (222)   (111)   weak   (444)   (111)   (222)   (333)   weak   (444)   (144)   (	$\begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ 105.215 \\ 4\frac{001}{00\frac{1}{2}} \\ 2 \\ 1 \\ 106.223 \\ 4\frac{001}{00\frac{1}{2}} \\ \overline{1} \\ 107.231 \\ 4^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 108.23 \\ 4^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 110.249 \\ 4\frac{001}{0\frac{1}{2}\frac{1}{4}} \\ 2 \\ 1 \\ \end{array}$	$\begin{array}{c} P_{C}4nc \\ \frac{4^{001}_{2}}{4^{2}_{2}^{10}} * \\ 1 \\ \hline P4_{2}m'c \\ m_{100} * \\ \hline 0 \\ \hline 0 \\ \hline 6 \\ P4_{2}b'c \\ \hline g^{100}_{\frac{1}{2}^{1}_{2}^{0}} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline I4m'm \\ m_{100} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 37 \\ I4c'm \\ g^{100}_{00\frac{1}{2}} * \\ \hline 4 \\ \hline 1 \\ 2 \\ \hline 3 \\ \hline I4_{1}c'd' \\ \hline g^{100}_{00\frac{1}{2}} * \\ \hline 4 \\ \hline 2 \\ \hline \end{array}$	$\begin{array}{c} \text{Classifica} \\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{1}} \\ 1 \\ \text{Classifi} \\ \frac{g_{00\frac{1}{2}}^{110}*}{g_{00\frac{1}{2}}^{110}*} \\ 2 \\ 1 \\ \hline \text{Classifi} \\ \frac{g_{\frac{11}{2}\frac{1}{2}}^{110}*}{2} \\ \hline 0 \\ 0 \\ \text{Classif} \\ \frac{g_{00\frac{1}{2}}^{110}*}{4} \\ 1 \\ 2 \\ \hline 3 \\ \hline \text{Classifica} \\ \frac{g_{\frac{10}{2}\frac{1}{4}}^{10}*}{2} \\ 1 \\ \hline \end{array}$	$\frac{g_{00\frac{1}{2}}^{010}*}{0}$ $\text{fication} = \mathbb{Z}$ $\text{fication} = \mathbb{Z}$ $\text{fication} = \mathbb{Z}$	$X_{ m BS} = \mathbb{Z}_2$	$SI = z_{4C}/2$	2
$ \begin{array}{c c} \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_4 \\ \hline  & 0 \\ \hline  & 1 \\ \hline  & 2 \\ \hline  & 3 \\ \hline  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  &$	weak   (000)   weak   (004)   (002)   weak   (222)   (111)   weak   (444)   (111)   (222)   (333)   weak   (444)   (144)   (	$\begin{array}{c} 104.209 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 1 \\ \hline 105.215 \\ 4\frac{001}{000\frac{1}{2}} \\ 2 \\ \hline 1 \\ \hline 106.223 \\ 4\frac{001}{000\frac{1}{2}} \\ \hline \overline{1} \\ \hline 107.231 \\ 4^{001} \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline 108.23 \\ 4^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 110.249 \\ 4\frac{001}{0\frac{1}{2}\frac{1}{4}} \\ 2 \\ \end{array}$	$\begin{array}{c} P_{C}4nc \\ \frac{4^{001}}{2} \times \frac{1}{2^{1}} \times \frac{1}{2^{1}$	$\begin{array}{c} \text{Classifica} \\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{1}} \\ 1 \\ \text{Classifi} \\ \frac{g_{00\frac{1}{2}}^{110}*}{g_{00\frac{1}{2}}^{110}*} \\ 2 \\ 1 \\ \hline \text{Classifi} \\ \frac{g_{\frac{11}{2}\frac{1}{2}}^{110}*}{2} \\ \hline 0 \\ 0 \\ \text{Classif} \\ \frac{g_{00\frac{1}{2}}^{110}*}{4} \\ 1 \\ 2 \\ \hline 3 \\ \hline \text{Classifica} \\ \frac{g_{\frac{10}{2}\frac{1}{4}}^{10}*}{2} \\ 1 \\ \hline \end{array}$	$g_{00\frac{1}{2}}^{001} *$ $0$ fication = $\mathbb{Z}$ $dication = \mathbb{Z}$ $dication = \mathbb{Z}$	$X_{ m BS} = \mathbb{Z}_2$	$SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$ $SI = z_{4C}/2$	2

0	(000)	0	0	$\overline{22}$								
$\frac{0}{0}$	(000)	0	0	$\frac{22}{2\overline{2}}$								
$\frac{0}{1}$	(000)	1	0	$\frac{22}{11}$								
	111.25				$=\mathbb{Z} imes\mathbb{Z}_2$	V	$\mathbb{Z}_{S}=\mathbb{Z}_{2,2,4}$	. 0	T — ~		Y ~	
$\overline{\mathbb{Z}_{2,2,4}}$	weak	$\frac{5 - 1.42  m}{4^{001}}$	2 <sup>100</sup> *	$m_{110}*$	- Z × Z2	ABS	S = 22,2,4	1 13	1 — 2	2,Weyl, 4	$z_{2,S_4}, z_{40}$	<i>;</i>
$\frac{222,2,4}{000}$	(000)	0	0	0								
000	(004)	0	0	0								
001	(001)	0	0	0								
002	(002)	0	0	0								
003	(003)	0	0	0								
010	(000)	1	1	0								
011	(001)	1	1	0								
012	(002)	1	1	0								
013	(003)	1	1	0								
		111.256	$P_c \overline{4}2m$		fication =	$\mathbb{Z}_M$	$X_{BS} =$	$\mathbb{Z}_2$	SI =	$z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$\bar{4}^{001}$	$2^{100}$	$Cm_{(0)}^{110}$							
0	(000)	0	0	0	$2\overline{2}$							
0	(000)	0	0	0	$2\overline{2}$							
1	(000)	1	1	0	$1\overline{1}$							
		111.257	$P_C \overline{4}2m$		fication =	$\mathbb{Z}_M$	$X_{BS} =$	$\mathbb{Z}_2$	SI =	$= z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$\bar{4}^{001}$	$2^{010}$	$Cm_{(0)}^{110}$							
0	(000)	0	0	0	$2\overline{2}$							
0	(000)	0	0	0	$2\overline{2}$							
1	(000)	1	1	0	$1\overline{1}$							
		111.258	$P_I \bar{4}2m$	Classi	fication =	$\mathbb{Z}_M$	$X_{BS} =$	$\mathbb{Z}_2$	SI =	$= z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$\bar{4}^{001}$	$2^{100}$	$Cm_{(0)}^{110}$							
0	(000)	0	0	0	$2\overline{2}$							
0	(000)	0	0	0	$2\overline{2}$							
1	(000)	1	1	0	$1\overline{1}$							
1	(000)	112.259			$1\overline{1}$ fication =	$\mathbb{Z}_2$	$X_{BS} = Z$	$\mathbb{Z}_2$	SI =	$z_{2,S_4}$		
$\frac{1}{\mathbb{Z}_2}$	(000) weak		$9  P\overline{4}2c$	Classif		$\mathbb{Z}_2$	$X_{BS} = Z$	$\mathbb{Z}_2$	SI =	$z_{2,S_4}$		
	weak	$\frac{112.259}{\bar{4}^{001}}$				$\mathbb{Z}_2$	$X_{BS} = Z$	$\mathbb{Z}_2$	SI =	$z_{2,S_4}$		
$\mathbb{Z}_2$	,	112.259	$ \begin{array}{c c} 9 & P\overline{4}2c \\ 2_{00\frac{1}{2}}^{100} \end{array} $	Classif $g_{00\frac{1}{2}}^{110}$		$\mathbb{Z}_2$	$X_{BS} = Z$	$\mathbb{Z}_2$	SI =	$z_{2,S_4}$		
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	weak (000) (000)	$ \begin{array}{r} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \end{array} $	$ \begin{array}{c c} 9 & P\overline{4}2c \\ \hline 2_{00\frac{1}{2}}^{100} \\ \hline 0 \\ \hline \end{array} $	Classif $g_{00\frac{1}{2}}^{110}$ 0	ication =						S ZAC/	2
$ \begin{array}{c c} \mathbb{Z}_2 \\ \hline 0 \\ 1 \end{array} $	weak (000) (000) 112.263	$ \begin{array}{r} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \end{array} $	$ \begin{array}{c c} 9 & P\overline{4}2c \\ \hline 2^{100}_{00\frac{1}{2}} \\ \hline 0 \\ \hline Classifica \end{array} $	Classif $\frac{g_{00\frac{1}{2}}^{110}}{0}$ $0$ $1$ $tion =$	ication =		$X_{\mathrm{BS}} = Z_{\mathrm{BS}}$				$S_4, z_{4C}/$	2
	weak (000) (000) 112.263 weak	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6 P42'c' \\ \hline 4^{001} \end{array} $	$ \begin{array}{c} 9  P\overline{4}2c \\ \hline 2_{00\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ Classifica \\ \hline 2_{00\frac{1}{2}}^{100} * \end{array} $	Classif $g_{00\frac{1}{2}}^{110}$ 0 1 tion = $g_{00\frac{1}{2}}^{110} *$	ication =						$S_4, z_{4C}/$	2
	weak (000) (000) 112.263 weak (000)	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6   P42'c' \\ \hline 4^{001} \\ 0 \end{array} $	$\begin{array}{c} 9 \ P\overline{4}2c \\ 2\frac{100}{000\frac{1}{2}} \\ 0 \\ 0 \\ \hline Classifica \\ 2\frac{100}{000\frac{1}{2}} * \\ 0 \\ \end{array}$	Classif $g_{00\frac{1}{2}}^{110}$ 0 1 .tion = $g_{00\frac{1}{2}}^{110} *$ 0	ication =						$S_4, z_{4C}/$	72
	weak (000) (000) 112.263 weak (000) (004)	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6 P42'c' \\ 4^{001} \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 9  P42c \\ 2_{00\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \hline 0 \\ \text{Classifica} \\ 2_{00\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ \end{array}$	Classif $g_{00\frac{1}{2}}^{110}$ 0 1 tion = $g_{00\frac{1}{2}}^{110} *$	ication =						$S_4, z_{4C}/$	2
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \end{array} $		$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6   P42'c' \\ \hline 4^{001} \\ 0 \end{array} $	$\begin{array}{c} 9 \ P\overline{4}2c \\ 2\frac{100}{000\frac{1}{2}} \\ 0 \\ 0 \\ \hline Classifica \\ 2\frac{100}{000\frac{1}{2}} * \\ 0 \\ \end{array}$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ \hline 1 \\ \hline \\ \text{tion} = \\ g_{00\frac{1}{2}}^{110} * \\ \hline \\ 0 \\ \hline \\ \hline 2 \\ \end{array}$	ication =						$S_4, Z_{4C}/$	2
	weak (000) (000) 112.263 weak (000) (004)	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6  P42'c' \\ \hline 4^{001} \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 9  P42c \\ 2_{00\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \hline Classifica \\ 2_{00\frac{1}{2}}^{100} * \\ 0 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ g_{00\frac{1}{2}}^{1} \\ 0 \\ \hline 1 \\ \text{tion} = \\ \hline g_{00\frac{1}{2}}^{110} * \\ \hline 0 \\ \hline \hline 2 \\ \hline \hline 1 \\ \end{array}$	ication =						$S_4, z_{4C}/$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \end{array} $		$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6 P42'c' \\ \hline 4^{001} \\ 0 \\ 0 \\ 1 \\ 1 \end{array} $	$\begin{array}{c} 9  P\overline{4}2c \\ \hline 2_{00\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 0 \\ \hline Classifica \\ \hline 2_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 1 \\ \hline \end{array}$	$\begin{array}{c} \text{Classiff} \\ g_{00\frac{1}{2}}^{110} \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ \hline 1 \\ \hline \\ \text{tion} = \\ g_{00\frac{1}{2}}^{110} * \\ \hline \\ 0 \\ \hline \\ \hline \\ \hline \\ 0 \\ \hline \\ \hline \\ \hline \\ 1 \\ \hline \end{array}$	$\mathbb{Z}  imes \mathbb{Z}_2$	X <sub>BS</sub> :	$=\mathbb{Z}_{2,2,2}$	SI	$=z_{2},$	Weyl, $z_2$ ,	$S_4, z_{4C}/$	2
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \\ 011 \end{array} $		$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6 P42'c' \\ \hline 4^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 112.264 \end{array} $	$\begin{array}{c} 9  P\overline{4}2c \\ 2\frac{100}{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline \text{Classifica} \\ 2\frac{100}{00\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \end{array}$	$\begin{array}{c} \text{Classiff} \\ g_{00\frac{1}{2}}^{110} \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ \hline 1 \\ \hline \\ \text{tion} = \\ g_{00\frac{1}{2}}^{110} * \\ \hline \\ 0 \\ \hline \\ \hline \\ \hline \\ 0 \\ \hline \\ \hline \\ \hline \\ 1 \\ \hline \end{array}$	$\mathbb{Z} \times \mathbb{Z}_2$	X <sub>BS</sub> :		SI		Weyl, $z_2$ ,	$S_4, z_{4C}/$	2
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \end{array} $	weak (000) (000) 112.263 weak (000) (004) (002) (000)	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6 P42'c' \\ \hline 4^{001} \\ 0 \\ 0 \\ 1 \\ 1 \end{array} $	$\begin{array}{c} 9  P\overline{4}2c \\ \hline 2^{100}_{00\frac{1}{2}} \\ \hline 0 \\ \hline 0 \\ \hline Classifica \\ \hline 2^{100}_{00\frac{1}{2}} * \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 1 \\ \hline 0 \\ \hline 4  P_c\overline{4}2c \\ \end{array}$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ \hline 1 \\ \hline \\ \text{tion} = \\ g_{00\frac{1}{2}}^{110} * \\ \hline \\ 0 \\ \hline \\ \hline 2 \\ \hline \\ \hline \\ \hline \\ \hline \\ Classi \\ \end{array}$	$\mathbb{Z}  imes \mathbb{Z}_2$	X <sub>BS</sub> :	$=\mathbb{Z}_{2,2,2}$	SI	$=z_{2},$	Weyl, $z_2$ ,	$S_4, z_{4C}/$	2
	weak (000) (000) 112.263 weak (000) (004) (002) (000) weak	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6   P42'c' \\ \hline 4^{001} \\ 0 \\ 0 \\ 1 \\ 112.264 \\ \hline \{1 00\frac{1}{2}\}* \end{array} $	$\begin{array}{c} 9  P\overline{4}2c \\ 2^{100}_{00\frac{1}{2}} \\ \hline 0 \\ \hline 0 \\ \hline Classifica \\ 2^{100}_{00\frac{1}{2}} * \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 1 \\ \hline 0 \\ \hline 4  P_c\overline{4}2c \\ \hline 4^{001} \\ \end{array}$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ \hline 0 \\ \hline 1 \\ \hline \\ \text{tion} = \\ g_{00\frac{1}{2}}^{110} * \\ \hline \\ \frac{0}{2} \\ \hline \\ \frac{1}{1} \\ \hline \\ \text{Classi} \\ 2^{100} * \\ \end{array}$	$\mathbb{Z} \times \mathbb{Z}_2$ fication = $m_{110}$ *	X <sub>BS</sub> :	$=\mathbb{Z}_{2,2,2}$	SI	$=z_{2},$	Weyl, $z_2$ ,	$S_4, z_{4C}/$	2
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \\ 011 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	weak (000) (000) 112.263 weak (000) (004) (000) (000) (000) (000) (000)	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6 P42'c' \\ \hline 4^{001} \\ 0 \\ 0 \\ 1 \\ 1 \\ \hline 112.264 \\ \hline \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \\ \text{tion} = \\ g_{00\frac{1}{2}}^{110} * \\ 0 \\ \hline 2 \\ \hline \hline 1 \\ \hline Classi \\ 2^{100} * \\ 0 \\ 1 \\ \end{array}$	$\mathbb{Z} \times \mathbb{Z}_2$ fication = $\frac{m_{110}*}{0}$	$X_{BS}$ :	$=\mathbb{Z}_{2,2,2}$	SI SI	$= z_{2,\gamma}$	Weyl, $z_2$ , $z_2$ , $z_2$ , $z_3$	$S_4, Z_4C/$	2
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \\ 011 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	weak (000) (000) 112.263 weak (000) (004) (000) (000) (000) (000) (000)	$ \begin{array}{r} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 8 P42'c' \\ 4^{001} \\ 0 \\ 0 \\ 1 \\ 112.264 \\ \hline \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 112.265 \end{array} $	$\begin{array}{c} 9  P\overline{4}2c \\ 2\frac{100}{000\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$ Classifica $\begin{array}{c} 2\frac{100}{000\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 1 \\ \end{array}$ 0 $\begin{array}{c} 1 \\ 1 \\ 0 \\ \end{array}$ $\begin{array}{c} 4  P_c 42c \\ \overline{4}^{001} \\ 0 \\ \end{array}$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \\ \text{tion} = \\ g_{00\frac{1}{2}}^{110} * \\ 0 \\ \hline 2 \\ \hline 1 \\ \hline Classi \\ 2^{100} * \\ 0 \\ 1 \\ \hline \\ \text{Classi} \\ \end{array}$	$\mathbb{Z} \times \mathbb{Z}_2$ fication = $m_{110} * 0$ fication = $0$ fication =	$X_{BS}$ :	$=\mathbb{Z}_{2,2,2}$	SI SI	$= z_{2,\gamma}$	Weyl, $z_2$ ,	$S_4, Z_{4C}/$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 011 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \end{array} $	weak (000) (112.263) weak (000) (004) (002) (000) weak (000) (000) weak	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6 P42'c' \\ \hline 4^{001} \\ 0 \\ 0 \\ 1 \\ 112.264 \\ \hline \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 112.265 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \end{array} $	$\begin{array}{c} 9  P\overline{4}2c \\ 2^{100}_{00\frac{1}{2}} \\ \hline 0 \\ \hline 0 \\ \hline Classifica \\ 2^{100}_{00\frac{1}{2}} * \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 1 \\ \hline 0 \\ \hline 4  P_c\overline{4}2c \\ \hline 4^{001}_{00000000000000000000000000000000000$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ \hline 0 \\ \hline 1 \\ \hline \\ \text{tion} = \\ \hline g_{00\frac{1}{2}}^{110} * \\ \hline 0 \\ \hline \hline 2 \\ \hline \hline 1 \\ \hline \\ \text{Classi} \\ \hline 2^{100} * \\ \hline 0 \\ \hline 1 \\ \hline \\ \text{Classi} \\ g_{00\frac{1}{2}}^{110} * \\ \hline \end{array}$	fication = $ \begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \hline m_{110}* \\ 0 \\ \hline fication = \\ 2_{00\frac{1}{2}}^{010} \end{array} $	$X_{BS}$ :	$=\mathbb{Z}_{2,2,2}$	SI SI	$= z_{2,\gamma}$	Weyl, $z_2$ , $z_2$ , $z_2$ , $z_3$	S <sub>4</sub> , Z <sub>4</sub> C/	2
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 011 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \end{array} $	weak (000) (000) 112.263 weak (000) (004) (000) (000) weak (000) (000)	$ \begin{array}{r} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6 P42'c' \\ \hline 4^{001} \\ 0 \\ 0 \\ 1 \\ 112.264 \\ \hline \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 112.265 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 $	$\begin{array}{c} 9  P\overline{4}2c \\ 2^{100}_{00\frac{1}{2}} \\ \hline 0 \\ \hline 0 \\ \hline Classifica \\ 2^{100}_{00\frac{1}{2}} * \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline 1 \\ \hline 0 \\ \hline 4  P_c\overline{4}2c \\ \hline 4^{001} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ \hline 0 \\ \hline 1 \\ \hline \\ \text{tion} = \\ \hline g_{00\frac{1}{2}}^{110} * \\ \hline \hline 0 \\ \hline \hline 1 \\ \hline \\ \hline Classi \\ 2^{100} * \\ \hline \\ \hline Classi \\ g_{00\frac{1}{2}}^{110} * \\ \hline \\ \hline \\ 0 \\ \hline \end{array}$	fication = $ \begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \hline \text{fication} = \\ \hline m_{110}* \\ 0 \\ \hline \text{fication} = \\ \hline 2_{00\frac{1}{2}}^{010} \\ 0 \end{array} $	$X_{BS}$ :	$=\mathbb{Z}_{2,2,2}$	SI SI	$= z_{2,\gamma}$	Weyl, $z_2$ , $z_2$ , $z_2$ , $z_3$	S <sub>4</sub> , Z <sub>4</sub> C/	2
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 011 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \end{array} $	weak (000) (112.263) weak (000) (004) (002) (000) weak (000) (000) weak	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6                                  $	$\begin{array}{c} 9  P\overline{4}2c \\ 2\frac{100}{000\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline \\ Classifica \\ 2\frac{100}{000\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline 1 \\ 0 \\ \hline 4  P_c\overline{4}2c \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6  P_C\overline{4}2c \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \hline \\ \text{tion} = \\ g_{00\frac{1}{2}}^{110} * \\ \hline \\ 0 \\ \hline \\ \hline \\ Classi \\ 2^{100} * \\ 0 \\ 1 \\ \hline \\ Classi \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ 1 \\ \hline \\ \end{array}$	fication = $ \frac{\mathbb{Z} \times \mathbb{Z}_2}{\mathbb{Z} \times \mathbb{Z}_2} $ fication = $ \frac{m_{110}*}{0} $ fication = $ \frac{2_{00\frac{1}{2}}^{010}}{0} $ 0	$X_{BS}$ : = $\mathbb{Z}_2$	$=\mathbb{Z}_{2,2,2}$ $X_{\mathrm{BS}}=X_{\mathrm{BS}$	$\mathbb{S}I$ $\mathbb{Z}_2$	$=z_{2,1}$ $SI =$ $SI =$	Weyl, $z_2$ , $z_2$ , $z_2$ , $z_4$	$S_4, z_{4C}/$	2
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \\ 011 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $	weak (000) (000)  112.263 weak (000) (004) (002) (000) (000)  weak (000) (000)  weak (000) (000)	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6                                  $	$\begin{array}{c} 9  P\overline{4}2c \\ 2\frac{100}{000\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline Classifica \\ 2\frac{100}{000\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline 4  P_c\overline{4}2c \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6  P_C\overline{4}2c \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ \hline 1 \\ \text{tion} = \\ g_{00\frac{1}{2}}^{110} * \\ \hline 0 \\ \hline \hline 1 \\ \hline \text{Classi} \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ \hline 1 \\ \hline \text{Classi} \\ g_{100\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 1 \\ \hline \end{array}$	fication = $ \frac{\mathbb{Z} \times \mathbb{Z}_2}{\mathbb{Z} \times \mathbb{Z}_2} $ fication = $ \frac{m_{110}*}{0} $ fication = $ \frac{2_{00\frac{1}{2}}^{010}}{0} $ fication =	$X_{BS}$ : = $\mathbb{Z}_2$	$=\mathbb{Z}_{2,2,2}$	$\mathbb{S}I$ $\mathbb{Z}_2$	$=z_{2,1}$ $SI =$ $SI =$	Weyl, $z_2$ , $z_2$ , $z_2$ , $z_4$	$S_4, z_{4C}/$	2
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \\ 011 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $	weak (000) (12.263 weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 8^{2} & 4^{2} \\ \hline 4^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 112.264 \\ \hline \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 112.265 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 112.266 \\ \hline \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ \end{array} $	$\begin{array}{c} 9  P42c \\ \hline 2_{000\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 0 \\ \hline Classifica \\ \hline 2_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 1 \\ \hline 0 \\ \hline 4  Pc42c \\ \hline 4^{001} \\ \hline 0 \\ \hline 1 \\ \hline 6  Pc42c \\ \hline 4^{001} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ g_{00\frac{1}{2}}^{110} \\ \hline 0 \\ 1 \\ \text{Ition} = \\ g_{00\frac{1}{2}}^{110} * \\ \hline 0 \\ \hline 1 \\ \hline Classi \\ g_{00\frac{1}{2}}^{110} * \\ \hline 0 \\ 1 \\ \hline Classi \\ g_{00\frac{1}{2}}^{110} \\ \hline Classi \\ g_{00\frac{1}{2}}^{110} \\ \hline Classi \\ g_{00\frac{1}{2}}^{110} \\ \hline \end{array}$	fication =	$X_{BS}$ : = $\mathbb{Z}_2$	$=\mathbb{Z}_{2,2,2}$ $X_{\mathrm{BS}}=X_{\mathrm{BS}$	$\mathbb{S}I$ $\mathbb{Z}_2$	$=z_{2,1}$ $SI =$ $SI =$	Weyl, $z_2$ , $z_2$ , $z_2$ , $z_4$	$S_4, z_{4C}/$	72
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 011 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $	weak (000) (112.263 weak (000) (004) (002) (002) weak (000) (000) weak (000) (000)	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6 P42'c' \\ \hline 4^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 112.264 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 112.265 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 9  P42c \\ \hline 2_{000\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 0 \\ \hline Classifica \\ \hline 2_{000\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 4  P_c 42c \\ \hline 4_{001}^{100} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ g_{00\frac{1}{2}}^{110} \\ \hline 0 \\ 1 \\ \text{tion} = \\ g_{00\frac{1}{2}}^{10} * \\ \hline 0 \\ \hline 1 \\ \hline \text{Classi} \\ 2^{100} * \\ 0 \\ 1 \\ \hline \text{Classi} \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \hline \text{Classi} \\ 2^{100} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	fication =	$X_{BS}$ : = $\mathbb{Z}_2$	$=\mathbb{Z}_{2,2,2}$ $X_{\mathrm{BS}}=X_{\mathrm{BS}$	$\mathbb{S}I$ $\mathbb{Z}_2$	$=z_{2,1}$ $SI =$ $SI =$	Weyl, $z_2$ , $z_2$ , $z_2$ , $z_4$	$S_4, z_{4C}/$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \\ 011 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $	weak (000) (12.263 weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6 P42'c' \\ \hline 4^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 112.264 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 112.265 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 112.266 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 112.266 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c} 9  P42c \\ \hline 2_{000\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 0 \\ \hline \\ Classifica \\ \hline 2_{000\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 4  P_c \overline{42c} \\ \hline 4_{001}^{001} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 4_{1001}^{001} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 4_{1001}^{001} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ g_{00\frac{1}{2}}^{110} \\ \hline 0 \\ 1 \\ \text{tion} = \\ g_{00\frac{1}{2}}^{10} * \\ \hline 0 \\ \hline \overline{1} \\ \hline \text{Classi} \\ 2^{100} * \\ \hline 0 \\ 1 \\ \hline \text{Classi} \\ 2^{100} * \\ \hline 0 \\ 1 \\ \hline \text{Classi} \\ 2^{100} * \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	fication =	$X_{BS}$ : $= \mathbb{Z}_2$ $= \mathbb{Z}_2$	$X_{ m BS} = X_{ $	$\mathbb{Z}_2$ $\mathbb{Z}_2$	$= z_{2,1}$ $SI =$ $SI =$	$z_{2,S_4}$	$S_4, z_{4C}/$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 011 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \end{array} $	weak (000) (000) 112.263 weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)	$\begin{array}{c} 112.259 \\ \hline 4^{001} \\ \hline 0 \\ 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ \hline 112.264 \\ \hline \{1 00\frac{1}{2}\}* \\ 0 \\ \hline 1 \\ \hline 112.265 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ \hline 1 \\ \hline 112.266 \\ \hline 1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ \hline 1 \\ \hline 113.267 \\ \end{array}$	$\begin{array}{c} 9  P42c \\ \hline 2_{000\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 0 \\ \hline \\ Classifica \\ \hline 2_{000\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 4  P_c 42c \\ \hline 4^{001} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} \text{Classif} \\ g_{000\frac{1}{2}}^{110} \\ g_{000\frac{1}{2}}^{110} \\ \hline 0 \\ 1 \\ \text{tion} = \\ g_{000\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 1 \\ \hline \text{Classi} \\ 2^{100} * \\ 0 \\ \hline 1 \\ \hline \text{Classi} \\ 2^{100} * \\ 0 \\ \hline 1 \\ \hline \text{Classi} \\ 2^{100} * \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	fication =	$X_{BS}$ : $= \mathbb{Z}_2$ $= \mathbb{Z}_2$	$=\mathbb{Z}_{2,2,2}$ $X_{\mathrm{BS}}=X_{\mathrm{BS}$	$\mathbb{Z}_2$ $\mathbb{Z}_2$	$= z_{2,1}$ $SI =$ $SI =$	Weyl, $z_2$ , $z_2$ , $z_2$ , $z_4$	S <sub>4</sub> , Z <sub>4</sub> C/	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 011 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $	weak (000) (000) 112.263 weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)  weak (000) weak	$ \begin{array}{c} 112.259 \\ \hline 4^{001} \\ 0 \\ 1 \\ \hline 6 P42'c' \\ \hline 4^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 112.264 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 112.265 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 112.266 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 112.266 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c} 9  P42c \\ \hline 2_{000\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 0 \\ \hline \\ Classifica \\ \hline 2_{000\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 4  P_c \overline{42c} \\ \hline 4_{001}^{001} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 4_{1001}^{001} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 4_{1001}^{001} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} \text{Classif} \\ g_{00\frac{1}{2}}^{110} \\ g_{00\frac{1}{2}}^{110} \\ \hline 0 \\ 1 \\ \text{Ition} = \\ g_{00\frac{1}{2}}^{110} \\ \hline 0 \\ \hline 2 \\ \hline 1 \\ \hline Classi \\ 2^{100} * \\ 0 \\ \hline 1 \\ \hline Classi \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ \hline 1 \\ \hline Classi \\ 2^{100} \\ 0 \\ \hline 0 \\ \hline Classi \\ Cm_{(0)}^{110} \\ \hline 0 \\ \hline Classi \\ Cm_{(0)}^{110} \\ \hline 0 \\ \hline \end{array}$	fication =	$X_{BS}$ : $= \mathbb{Z}_2$ $= \mathbb{Z}_2$	$X_{ m BS} = X_{ $	$\mathbb{Z}_2$ $\mathbb{Z}_2$	$= z_{2,1}$ $SI =$ $SI =$	$z_{2,S_4}$	S <sub>4</sub> , Z <sub>4</sub> C/	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 011 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \end{array} $	weak (000) (000) 112.263 weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)	$\begin{array}{c} 112.259 \\ \hline 4^{001} \\ \hline 0 \\ 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ \hline 112.264 \\ \hline \{1 00\frac{1}{2}\}* \\ 0 \\ \hline 1 \\ \hline 112.265 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ \hline 1 \\ \hline 112.266 \\ \hline 1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ \hline 1 \\ \hline 113.267 \\ \end{array}$	$\begin{array}{c} 9  P42c \\ \hline 2_{000\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 0 \\ \hline \\ Classifica \\ \hline 2_{000\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 4  P_c 42c \\ \hline 4^{001} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} \text{Classif} \\ g_{000\frac{1}{2}}^{110} \\ g_{000\frac{1}{2}}^{110} \\ \hline 0 \\ 1 \\ \text{tion} = \\ g_{000\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 1 \\ \hline \text{Classi} \\ 2^{100} * \\ 0 \\ \hline 1 \\ \hline \text{Classi} \\ 2^{100} * \\ 0 \\ \hline 1 \\ \hline \text{Classi} \\ 2^{100} * \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	fication =	$X_{BS}$ : $= \mathbb{Z}_2$ $= \mathbb{Z}_2$	$X_{ m BS} = X_{ $	$\mathbb{Z}_2$ $\mathbb{Z}_2$	$= z_{2,1}$ $SI =$ $SI =$	$z_{2,S_4}$	$S_4, z_{4C}/$	/2

1	(000)	1	0	11							
	113.271	$P\overline{4}2'_1m'$	Classific	cation =	$=\mathbb{Z} imes\mathbb{Z}_2$	XBS	$=\mathbb{Z}_{2,2,4}$	SI	[ = 2	$z_{2,\text{Weyl}}, z_{2,S_4}, z_{4C}$	
$\overline{\mathbb{Z}_{2,2,4}}$	weak	$\frac{1}{4}^{001}$	$\frac{2^{100}}{2^{\frac{1}{2}\frac{1}{2}0}}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	<u> </u>	1100	2,2,4	~-	~	2, Wey1, ~2,54, ~4C	
000	(000)	0	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{0}{2}\frac{1}{2}0$							
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							
$\frac{012}{013}$	(002)	1 1	1	0							
	(003)				·C + :	777	v	777	CT		
	1.	113.272	$\frac{P_c \bar{4} 2_1 m}{\bar{4}^{001}}$		ification =	$= \mathbb{Z}_M$	$X_{BS} =$	$\mathbb{Z}_2$	21 :	$= z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$		$2^{100}_{\frac{1}{2}\frac{1}{2}0}$	$Cm_{(0)}^{110}$						
0	(000)	0	0	0	$\frac{22}{2}$						
	(000)	0	0	0	22						
	(000)	1	1	0	11	FT	37	F77	CT		
	1 1	113.273	$\frac{P_C \bar{4} 2_1 m}{\bar{4}^{001}}$		ification =	$=\mathbb{Z}_{M}$	$X_{\rm BS} =$	$\mathbb{Z}_2$	SI	$= z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	2 2	2010	$Cm_{(0)}^{110}$						
0	(000)	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$						
0	(000)	0	0	0	22						
1	(000)	1	0	1	11						
		113.274	$P_{I}\bar{4}2_{1}m$	Classi	ification =	$=\mathbb{Z}_{M}$	$X_{BS} =$	$\mathbb{Z}_2$	SI :	$=z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}*$	$2^{100}_{00\frac{1}{2}}*$	$Cm_{(0)}^{110}$						
0	(000)	0	0	0	<u>22</u>						
0	(000)	0	0	0	22						
1	(000)	1	0	1	11						
		114.275	$P\overline{4}2_1c$	( llassi	figation -					70 0	
F77	1				fication =	= $\mathbb{Z}_2$	$X_{BS} = Z$	$\mathcal{L}_2$	SI =	$z_2, s_4$	
$\mathbb{Z}_2$	weak	$\bar{4}^{001}$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$g_{rac{1}{2}rac{1}{2}rac{1}{2}}^{110}$	ncation –	=	$X_{BS} = Z$	42	S1 =	22,84	
0	(000)	$\frac{\bar{4}^{001}}{0}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \end{array}$	$\begin{array}{c}g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\0\end{array}$	neation =	=	$X_{BS} = Z$	Z <sub>2</sub>	S1 =	22,84	
0	(000)		$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \end{array}$	$\begin{array}{c} g^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 1 \end{array}$							
0 1	(000) (000) 114.279		$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ Classifica \end{array} $	$ \begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ \hline 1 \\ \hline \text{ation} = \\ \end{array} $						$z_{2,S_4}$ Weyl, $z_{2,S_4}, z_{4C}/2$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2} \end{array} $	(000) (000) 114.279 weak		$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \\ \text{Classifica} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} = g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} = g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} *$							
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \end{array} $	(000) (000) 114.279 weak (000)		$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline \text{Classifica} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ ation = \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ $							
$ \begin{array}{c c} \hline 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \end{array} $	(000) (000) 114.279 weak (000) (004)		$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline \text{Classifica} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ tion = \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 2$							
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ \end{array} $	(000) (000) 114.279 weak (000) (004) (002)		$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \text{Classifica} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}\frac{1}{2}} \\ 0 \\ 1 \\ tion = \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} \\ 0 \\ 2 \\ 1$							
$ \begin{array}{c c} \hline 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ \hline 000\\ 000\\ 001\\ 010\\ \end{array} $	(000) (000) 114.279 weak (000) (004) (002) (000)		$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline \text{Classifica} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ tion = \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 2$							
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ \end{array} $	(000) (000) 114.279 weak (000) (004) (002)	$ \begin{array}{c c} \hline 4^{001} \\ \hline 0 \\ 1 \\ \hline P42'_1c' \\ \hline 4^{001} \\ \hline 0 \\ 0 \\ 0 \\ 1 \\ 1 \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \end{array} $ Classifica $ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ 0 \\ 0 \\ 1 \\ 0 $	$\begin{array}{c}g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\0\\1\\ \text{tition}=\\g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\0\\2\\1\\\end{array}$	$\mathbb{Z}  imes \mathbb{Z}_2$	X <sub>BS</sub> =	$=\mathbb{Z}_{2,2,2}$	SI =	$= z_{2,}$	$_{ m Weyl},z_{2,S_4},z_{4C}/2$	
$ \begin{array}{c c} 0\\ \hline 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \end{array} $	(000) (000) 114.279 weak (000) (004) (002) (000)		$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \end{array} $ Classifica $ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ 0 \\ 0 \\ 1 \\ 0 $	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \hline \\ tion = \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 2 \\ 1 \\ \hline \\ Classi \end{array}$	$\mathbb{Z} \times \mathbb{Z}_2$	X <sub>BS</sub> =		SI =	$= z_{2,}$		
$ \begin{array}{c c} 0\\ \hline 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2} \end{array} $	(000) (000) 114.279 weak (000) (004) (002) (000) (002) weak	$ \begin{array}{c}                                     $	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \text{Classifica} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline 4^{001}_{00\frac{1}{2}} * \\ \hline \end{array}$	$\begin{array}{c}g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\0\\1\\\text{tion}=\\g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\0\\2\\1\\Classi\\2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}\\\\2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}\end{array}$	$\mathbb{Z} \times \mathbb{Z}_2$ $\overline{\mathbb{Z}} \times \mathbb{Z}_2$ ification = $g_{\frac{1}{2}\frac{1}{2}0}^{110}$	X <sub>BS</sub> =	$=\mathbb{Z}_{2,2,2}$	SI =	$= z_{2,}$	$_{ m Weyl},z_{2,S_4},z_{4C}/2$	
$ \begin{array}{c c} 0\\ \hline 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \end{array} $	(000) (000) 114.279 weak (000) (004) (002) (000) (002)		$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \end{array} $ Classifica $ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ 0 \\ 0 \\ 1 \\ 0 $	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \hline \\ tion = \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 2 \\ 1 \\ \hline \\ Classi \end{array}$	$\mathbb{Z} \times \mathbb{Z}_2$	X <sub>BS</sub> =	$=\mathbb{Z}_{2,2,2}$	SI =	$= z_{2,}$	$_{ m Weyl},z_{2,S_4},z_{4C}/2$	
$ \begin{array}{c c} 0\\ \hline 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0 \end{array} $	(000) (000) 114.279 weak (000) (004) (002) (000) (002) weak (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline P42_1'c' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 1 \\ 1 \\ 114.280 \\ \overline{\{1 00\frac{1}{2}\}*} \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \\ Classifica \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline P_c 42_1 c \\ 4^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c}g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\0\\1\\\text{tion}=\\g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\0\\2\\1\\Classi\\2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10}\\0\\1\\Classi\\0\\0\\0\\\end{array}$	$\begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \hline \text{affication} = \\ g_{\frac{1}{2}\frac{1}{2}0}^{110} * \\ 0 \\ \hline \end{array}$	$X_{BS}$ = = $\mathbb{Z}_2$	$\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{3,2,2}$	SI =	$= z_2,$	Weyl, $z_{2,S_4}, z_{4C}/2$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1 \end{array} $	(000) (000) 114.279 weak (000) (004) (002) (000) (002) weak (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline P42_1'c' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 1 \\ 1 \\ 114.280 \\ \overline{\{1 00\frac{1}{2}\}*} \\ 0 \\ 1 \\ 114.281 \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \text{Classifica} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline P_c \overline{4}2_1 c \\ \hline 0 \\ 0 \\ \hline P_C \overline{4}2_1 c \\ \end{array}$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \text{tion} = \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ \hline \text{Class} \\ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \text{Class} \\ \end{array}$	$\begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \hline \text{affication} = \\ g_{\frac{1}{2}\frac{1}{2}0}^{110} * \\ 0 \\ \hline \text{o} \\ \hline \text{ification} = \\ \end{array}$	$X_{BS}$ = = $\mathbb{Z}_2$	$=\mathbb{Z}_{2,2,2}$	SI =	$= z_2,$	$_{ m Weyl},z_{2,S_4},z_{4C}/2$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2} $	(000) (000) (114.279) weak (000) (004) (002) (000) (002) weak (000) (000)	$ \begin{array}{c}                                     $	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \text{Classifica} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline 0 \\ \hline -P_{c}42_{1}c \\ \hline 4^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ \hline -P_{c}42_{1}c \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ \end{array}$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ 1 \\ \text{ition} = \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 2 \\ 1 \\ 0 \\ 1 \\ \text{Classi} \\ \frac{2^{100}}{2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}} \\ 0 \\ 0 \\ \text{Class} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \end{array}$	$\begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \\ \overline{\mathbb{Z}} \times \mathbb{Z}_2 \\ \\ g_{\frac{1}{2}\frac{1}{2}0}^{110} * \\ 0 \\ 0 \\ \\ \overline{\text{ification}} = \\ 2_{00\frac{1}{2}}^{010} * \\ \end{array}$	$X_{BS}$ = = $\mathbb{Z}_2$	$\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{3,2,2}$	SI =	$= z_2,$	Weyl, $z_{2,S_4}, z_{4C}/2$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1 \end{array} $	(000) (000) (114.279) weak (000) (004) (002) (000) (002) weak (000) (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline P42_1'c' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 1 \\ 1 \\ 114.280 \\ \overline{\{1 00\frac{1}{2}\}*} \\ 0 \\ 1 \\ 114.281 \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \text{Classifica} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline P_c \overline{4}2_1 c \\ \hline 0 \\ 0 \\ \hline P_C \overline{4}2_1 c \\ \end{array}$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \text{tion} = \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ \hline \text{Class} \\ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \text{Class} \\ \end{array}$	$\begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \hline \text{affication} = \\ g_{\frac{1}{2}\frac{1}{2}0}^{110} * \\ 0 \\ \hline \text{o} \\ \hline \text{ification} = \\ \end{array}$	$X_{BS}$ = = $\mathbb{Z}_2$	$\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{3,2,2}$	SI =	$= z_2,$	Weyl, $z_{2,S_4}, z_{4C}/2$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 0 \end{array} $	(000) (000) (114.279) weak (000) (004) (002) (000) (002) weak (000) (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline P42_1'c' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 1 \\ 1 \\ 114.280 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 114.281 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \end{array}$ Classifica $2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline 0 \\ \hline 1 \\ 0 \\ \hline 0 \\ \hline - \frac{4^{001}_{00\frac{1}{2}} *}{0} \\ 0 \\ 0 \\ \hline - \frac{4^{001}_{00\frac{1}{2}} *}{0} \\ 0 \\ 0 \\ \hline - \frac{4^{001}_{00\frac{1}{2}} *}{0} \\ 0 \\ 0 \\ \hline - 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ 1\\ 1\\ \text{tion} =\\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ 2\\ 1\\ 0\\ 1\\ \hline \text{Classi}\\ \frac{2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0}\\ 0\\ 0\\ \hline \text{Class}\\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}\\ 0\\ \hline \\ \text{Class}\\ \end{array}$	$\mathbb{Z} \times \mathbb{Z}_2$ ification = $g_{\frac{1}{2}\frac{1}{2}0}^{110} * 0$ $0$ ification = $2_{00\frac{1}{2}}^{010} * 0$ $0$	$X_{BS}$ = $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = X_{\mathrm{SS}}$	SI =	$= z_2,$ $SI =$ $SI =$	Weyl, $z_{2,S_{4}}$ , $z_{4C}/2$ $= z_{2,S_{4}}$	
$\begin{array}{c} 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 001 \\ \hline 010 \\ \hline 011 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \end{array}$	(000) (000) (114.279) weak (000) (004) (002) (000) (002) weak (000) (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline P42_1'c' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 114.280 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 114.281 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 114.282 \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \end{array}$ Classifica $2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline 0 \\ \hline 1 \\ 0 \\ \hline 0 \\ \hline - \frac{4^{001}_{00\frac{1}{2}} *}{0} \\ 0 \\ 0 \\ \hline - \frac{4^{001}_{00\frac{1}{2}} *}{0} \\ 0 \\ 0 \\ \hline - \frac{4^{001}_{00\frac{1}{2}} *}{0} \\ 0 \\ 0 \\ \hline - 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ 1\\ 1\\ \text{tion} =\\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ 2\\ 1\\ 0\\ 1\\ \hline \text{Classi}\\ \frac{2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0}\\ 0\\ 0\\ \hline \text{Class}\\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}\\ 0\\ \hline \\ \text{Class}\\ \end{array}$	$\mathbb{Z} \times \mathbb{Z}_2$ ification = $g_{\frac{1}{2}\frac{1}{2}0}^{110} * 0$ $0$ ification = $2_{00\frac{1}{2}}^{010} * 0$ $1$ ification =	$X_{BS}$ = $=\mathbb{Z}_2$	$\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{3,2,2}$	SI =	$= z_2,$ $SI =$ $SI =$	Weyl, $z_{2,S_4}, z_{4C}/2$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 0 \end{array} $	(000) (000) (14.279) weak (000) (004) (002) (000) (002) weak (000) (000) weak (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline P42_1'c' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 114.280 \\ \overline{\{1 00\frac{1}{2}\}*} \\ 0 \\ 1 \\ 114.281 \\ \overline{\{1 \frac{1}{2}\frac{1}{2}0\}*} \\ 0 \\ 1 \\ 1 \\ 14.282 \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \end{array}$ Classifica $2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \end{array}$ 0 $0 \\ \frac{P_{C}42_{1}c}{4^{001}_{00\frac{1}{2}} *} \\ 0 \\ 0 \\ \frac{P_{C}42_{1}c}{4^{\frac{1}{2}}_{\frac{1}{2}0} *} \\ 0 \\ 0 \\ \frac{P_{C}42_{1}c}{4^{\frac{1}{2}}_{12}} * \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ 1 \\ \text{ition} = \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ \text{Classi} \\ \frac{2^{100}}{2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}} \\ 0 \\ 0 \\ \text{Class} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \text{Class} \\ \end{array}$	$\mathbb{Z} \times \mathbb{Z}_2$ ification = $g_{\frac{1}{2}\frac{1}{2}0}^{110} * 0$ $0$ ification = $2_{00\frac{1}{2}}^{010} * 0$ $0$	$X_{BS}$ = $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = X_{\mathrm{SS}}$	SI =	$= z_2,$ $SI =$ $SI =$	Weyl, $z_{2,S_{4}}$ , $z_{4C}/2$ $= z_{2,S_{4}}$	
$\begin{array}{c} 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \\ 011 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \end{array}$	(000) (000) (14.279) weak (000) (004) (002) (000) (002) weak (000) (000) weak (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline P42_1'c' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 114.280 \\ \overline{\{1 00\frac{1}{2}\}*} \\ 0 \\ 1 \\ 114.281 \\ \overline{\{1 \frac{1}{2}\frac{1}{2}0\}*} \\ 0 \\ 1 \\ 114.282 \\ \overline{\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*} \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \text{Classifica} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ 0 \\ \frac{P_{c}42_{1}c}{4^{001}_{00\frac{1}{2}}} \\ 0 \\ 0 \\ \frac{P_{c}42_{1}c}{4^{001}_{00\frac{1}{2}}} \\ 0 \\ 0 \\ 0 \\ \frac{P_{c}42_{1}c}{4^{001}_{00\frac{1}{2}}} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ 1\\ \text{tion} =\\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ 2\\ 1\\ 0\\ 1\\ \text{Classi}\\ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}\\ 0\\ 0\\ \text{Class}\\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}\\ 0\\ 1\\ \text{Classi}\\ 2_{\frac{1}{2}\frac{1}{2}}^{100}\\ 0\\ 1\\ \text{Classi}\\ 2^{100}*\\ \end{array}$	$\begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \hline \\ g_{\frac{1}{2}\frac{1}{2}0}^{110} * \\ 0 \\ 0 \\ \hline \\ g_{\frac{1}{2}\frac{1}{2}0}^{10} * \\ 0 \\ \hline \\ g_{\frac{1}{2}0}^{100} * \\ 0 \\ 1 \\ \hline \\ g_{\frac{1}{2}0}^{100} * \\ \vdots \\ g_{\frac{1}{2}0}^{1$	$X_{BS}$ = $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = X_{\mathrm{SS}}$	SI =	$= z_2,$ $SI =$ $SI =$	Weyl, $z_{2,S_{4}}$ , $z_{4C}/2$ $= z_{2,S_{4}}$	
$\begin{array}{c} 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ \hline 010 \\ \hline 011 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline \end{array}$	(000) (000) (14.279) weak (000) (004) (002) (000) (002) weak (000) (000) weak (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline P42_1'c' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 14.280 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 114.281 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 114.282 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 115.283 \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \\ Classifica \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline \\ P_c 42_1 c \\ \hline 4^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ \hline \\ P_C 42_1 c \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ \hline \\ P_I 42_1 c \\ \hline 4^{001}_{001} \\ \hline \\ 0 \\ 1 \\ \hline \\ P_I 42_1 c \\ \hline \\ 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \text{tion} = \\ \frac{1}{2}\frac{1}{2}\frac{1}{2} \\ 0 \\ 2 \\ 1 \\ 0 \\ 2 \\ 1 \\ 0 \\ Classi \\ \frac{2}{1}\frac{1}{2}\frac{1}{2} \\ 0 \\ 0 \\ Class \\ \frac{2}{1}\frac{1}{2}\frac{1}{2}\frac{1}{2} \\ 0 \\ 1 \\ Classi \\ 2^{100}* \\ 0 \\ 1 \\ Classif \\ \end{array}$	$\begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \hline \\ g_{\frac{1}{2}\frac{1}{2}0}^{110} * \\ 0 \\ \hline \\ 0 \\ \hline \\ 1 \\ \hline \\ ification = \\ m_{110}* \\ 0 \\ \hline \\ \end{array}$	$X_{BS}$ = $\mathbb{Z}_2$ = $\mathbb{Z}_2$	$X_{\mathrm{BS}} = X_{\mathrm{SS}}$	$SI =$ $\mathbb{Z}_2$ $\mathbb{Z}_2$	SI =	$w_{\text{eyl}}, z_{2,S_4}, z_{4C}/2$ $z_{2,S_4}$ $z_{2,S_4}$ $z_{2,S_4}$	
$\begin{array}{c} 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ \hline 010 \\ \hline 011 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline \end{array}$	(000) (000) (14.279) weak (000) (004) (002) (000) (002) weak (000) (000) weak (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline P42_1'c' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 114.280 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 114.281 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 114.282 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \\ Classifica \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline \\ P_c 42_1 c \\ \hline 4^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ \hline \\ P_C 42_1 c \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ \hline \\ P_I 42_1 c \\ \hline 4^{001}_{001} \\ \hline \\ 0 \\ 1 \\ \hline \\ P_I 42_1 c \\ \hline \\ 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \text{tion} = \\ \frac{1}{2}\frac{1}{2}\frac{1}{2} \\ 0 \\ 2 \\ 1 \\ 0 \\ 2 \\ 1 \\ 0 \\ Classi \\ \frac{2}{1}\frac{1}{2}\frac{1}{2} \\ 0 \\ 0 \\ Class \\ \frac{2}{1}\frac{1}{2}\frac{1}{2}\frac{1}{2} \\ 0 \\ 1 \\ Classi \\ 2^{100}* \\ 0 \\ 1 \\ Classif \\ \end{array}$		$X_{BS}$ = $\mathbb{Z}_2$ = $\mathbb{Z}_2$	$X_{BS} = X_{BS} = X_{BS}$	$SI =$ $\mathbb{Z}_2$ $\mathbb{Z}_2$	SI =	Weyl, $z_{2,S_{4}}$ , $z_{4C}/2$ $= z_{2,S_{4}}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \end{array} $	(000) (000) (114.279) weak (000) (004) (002) (000) (002) weak (000) (000) weak (000) (000) weak (000) (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline P42_1'c' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 14.280 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 114.281 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 114.282 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 115.283 \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \\ Classifica \\ 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline \\ P_c 42_1 c \\ \hline 4^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ \hline \\ P_C 42_1 c \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ \hline \\ P_I 42_1 c \\ \hline 4^{001}_{001} \\ \hline \\ 0 \\ 1 \\ \hline \\ P_I 42_1 c \\ \hline \\ 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ 1 \\ \text{tion} = \\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{2} \\ 0 \\ 2 \\ 1 \\ 0 \\ 2 \\ 1 \\ 0 \\ \text{Class} \\ \frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}}{2} \\ 0 \\ 0 \\ \text{Class} \\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1}}{2} \\ 0 \\ 0 \\ \text{Class} \\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1}}{2} \\ 0 \\ 1 \\ \hline \\ \text{Class} \\ 0 \\ 1 \\ \end{array}$		$X_{BS}$ = $\mathbb{Z}_2$ = $\mathbb{Z}_2$	$X_{BS} = X_{BS} = X_{BS}$	$SI =$ $\mathbb{Z}_2$ $\mathbb{Z}_2$	SI =	$w_{\text{eyl}}, z_{2,S_4}, z_{4C}/2$ $z_{2,S_4}$ $z_{2,S_4}$ $z_{2,S_4}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 0\\ 0\\ \end{array} $	(000) (000) (114.279) weak (000) (004) (002) (000) weak (000) (000)  weak (000) (000)  weak (000) (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline P42_1'c' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 114.280 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 114.281 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline 114.282 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 115.283 \\ \overline{4}^{001} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$		$X_{BS}$ = $\mathbb{Z}_2$ = $\mathbb{Z}_2$	$X_{BS} = X_{BS} = X_{BS}$	$SI =$ $\mathbb{Z}_2$ $\mathbb{Z}_2$	SI =	$w_{\text{eyl}}, z_{2,S_4}, z_{4C}/2$ $z_{2,S_4}$ $z_{2,S_4}$ $z_{2,S_4}$	
$ \begin{array}{c} 0 \\ 1 \\ \hline \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \\ 011 \\ \hline \mathbb{Z}_{2} \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2} \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2} \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	(000) (000) (114.279) weak (000) (004) (002) (000) (002) weak (000) (000) weak (000) (000) weak (000) (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline P42_1'c' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 114.280 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 114.281 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline 114.282 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 115.283 \\ \overline{4}^{001} \\ 0 \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 2 \\ 1 \\ 0 \\ 2 \\ 1 \\ 0 \\ 0 \\ 1 \\ Classif \\ \frac{2^{100}}{1^{10}} \\ \frac{1}{2^{\frac{1}{2}\frac{1}{2}}} \\ 0 \\ 0 \\ 0 \\ Class \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \\ Class \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \\ Class \\ 0 \\ 1 \\ Classif \\ Cm_{(0)}^{100} \\ 2\overline{2}00 \\ \end{array}$		$X_{BS}$ = $\mathbb{Z}_2$ = $\mathbb{Z}_2$	$X_{BS} = X_{BS} = X_{BS}$	$SI =$ $\mathbb{Z}_2$ $\mathbb{Z}_2$	SI =	$w_{\text{eyl}}, z_{2,S_4}, z_{4C}/2$ $z_{2,S_4}$ $z_{2,S_4}$ $z_{2,S_4}$	

1	(000)	1	0	$1\overline{1}00$									
	115.28	$7 P\overline{4}m'2'$	Classifi	cation =	$=\mathbb{Z} imes\mathbb{Z}_2$	XBS	$\mathbb{Z}=\mathbb{Z}_{2,2,4}$	SI	I = z	2,Weyl	$z_{2} z_{4}$	$z_{4C}$	
$\overline{\mathbb{Z}_{2,2,4}}$	weak	$\bar{4}^{001}$	$m_{100}*$	2110*			2,2,4			2, **cy1	2,54)		
000	(000)	0	0	0									
000	(004)	0	0	0									
001	(001)	0	0	0									
002	(002)	0	0	0									
003	(003)	0	0	0									
010	(000)	1	0	1									
011	(001)	1	0	1									
012	(002)	1	0	1									
013	(003)	1	0	1									
		115.288	$P_c\bar{4}m2$	Classi	fication =	$\mathbb{Z}^2$	$X_{BS} = Z$	7,0	SI :	= 20 0			
$\overline{\mathbb{Z}_2}$	weak	$\{1 00\frac{1}{2}\}*$	$\frac{\bar{4}^{001}}{\bar{4}^{001}}$	2 <sup>110</sup>	$Cm_{(0)}^{100}$	III M	1100 -		~-	~2,54	ŧ		
0	(000)	0	0	0	$\frac{2\overline{200}}{200}$								
0	(000)	0	0	0	$\frac{2200}{1\overline{1}1\overline{1}}$								
0	(000)	0	0	0	1111								
$\frac{0}{1}$	(000)	1	1	0	$\frac{1111}{1\overline{1}00}$								
	[ (000)	115.289			ification =	77	V '	77	CIT				
$\overline{\mathbb{Z}_2}$	1770e l-		$\frac{P_C \bar{4}m2}{\bar{4}^{001}}$	2 <sup>110</sup>	1000000000000000000000000000000000000	<i>∠M</i>	$X_{BS} = Z$	<b>∠</b> 2	21	$=z_{2,S}$	4		
	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$											
0	(000)	0	0	0	2200								
0	(000)	0	0	0	$2\overline{2}00$								
1	(000)	1	1	0	$1\overline{1}00$								
		115.290	$P_I \bar{4} m2$	Classi	fication =	$\mathbb{Z}_M$	$X_{BS} = Z$	$\mathbb{Z}_2$	SI =	$= z_{2,S_4}$	l .		
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$\bar{4}^{001}$	$2^{110}$	$Cm_{(0)}^{010}$								
0	(000)	0	0	0	$2\overline{2}00$								
0	(000)	0	0	0	$2\overline{2}00$								
1	(000)	1	1	0	$1\overline{1}00$								
		116.29	$1 P\overline{4}c2$	Classi	fication =	77	$X_{BS} = \mathbb{Z}_2$		SI =	$z_{2,S_4}$			
		110.20			ncation —	$\omega_2$	$\Lambda_{\rm BS} = \mathbb{Z}_2$	2 1					
$\mathbb{Z}_2$	weak	$\bar{4}^{001}$			iication —	<u>∠</u> 2	$\Lambda_{\rm BS} = \mathbb{Z}_2$	2 1		2,54			
		$\bar{4}^{001}$	$g_{00\frac{1}{2}}^{100}$	$2^{110}_{00\frac{1}{2}}$	ilication =	<i>∠</i> 12	$\Lambda_{\rm BS} = \mathbb{Z}_2$	2 1		2,04			
$ \begin{array}{c c} \mathbb{Z}_2 \\ \hline 0 \\ 1 \end{array} $	(000)		$g_{00\frac{1}{2}}^{100}$			<u> </u>	ABS — Z2	2 1		2,04			
0	(000)		$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ 0 \\ 1 \end{array}$	$\begin{array}{c} 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \end{array}$			-				(o.g. 7	4G/2	
0 1	(000) (000) 116.295		$ \begin{array}{c} g_{00\frac{1}{2}}^{100} \\ 0 \\ 1 \end{array} $ Classifica	$ \begin{array}{c} 2_{00\frac{1}{2}}^{110} \\ 0 \\ \hline 0 \\ ation = \end{array} $			-			Weyl, 2	$(z_{2}, z_{4}, z_{4})$	$_{4C}/2$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2} \end{array} $	(000) (000) 116.295 weak	$   \begin{array}{c c}       \hline                              $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ 0 \\ 1 \\ \hline \text{Classifica} \\ g_{00\frac{1}{2}}^{100} * \end{array}$	$ \begin{array}{c} 2_{00\frac{1}{2}}^{110} \\ 0 \\ \hline 0 \\ ation = \\ 2_{00\frac{1}{2}}^{110} * \end{array} $			-				$\widetilde{z}_{2,S_4}, z_2$	$_{4C}/2$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ \end{array} $	(000) (000) 116.295 weak (000)	$ \begin{array}{c}       \hline       4^{001} \\       0 \\       \hline       1 \\       \hline       6                      $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ 0 \\ 1 \\ \hline \text{Classifica} \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ \end{array}$	$ \begin{array}{c} 2_{00\frac{1}{2}}^{110} \\ 0 \\ \hline 0 \\ ation = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \end{array} $			-				$\langle z, s_4, z_4 \rangle$	$_{4C}/2$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ \end{array} $	(000) (000) 116.295 weak (000) (004)		$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ 0 \\ 1 \\ \hline \text{Classifica} \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ 2 \\ \end{array}$	$ \begin{array}{c} 2_{00\frac{1}{2}}^{110} \\ 0 \\ \hline 0 \\ ation = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \end{array} $			-				$z_{2,S_4}, z_4$	$_{4C}/2$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ \end{array} $	(000) (000) 116.295 weak (000) (004) (002)	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ 0 \\ 1 \\ \hline \text{Classifica} \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ 2 \\ 1 \\ \end{array}$	$ \begin{array}{c} 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \text{ation} = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \end{array} $			-				$z_{2,S_{4}}, z_{4}$	$_{4C}/2$	
$ \begin{array}{c c} \hline 0\\ \hline 1\\ \hline \mathbb{Z}_{2,2,2}\\ \hline 000\\ 000\\ \hline 001\\ 010\\ \end{array} $	(000) (000) 116.295 weak (000) (004) (002) (000)	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ 0 \\ 1 \\ \hline \text{Classifica} \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ 2 \\ 1 \\ 0 \\ \end{array}$	$ \begin{array}{c} 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} \text{ation} = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \end{array} $			-				$\langle 2, S_4, Z_2 \rangle$	4C/2	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ \end{array} $	(000) (000) 116.295 weak (000) (004) (002)	$ \begin{array}{c c} \hline 4^{001} \\ \hline 0 \\ \hline 1 \\ \hline 6 & P4c'2' \\ \hline 4^{001} \\ \hline 0 \\ 0 \\ \hline 0 \\ 1 \\ 1 \end{array} $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ \hline 0 \\ 1 \\ \hline \text{Classifica} \\ g_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ 2 \\ \hline 1 \\ \hline 0 \\ 1 \\ \end{array}$	$ \begin{array}{c} 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \end{array} $ ation = $ \frac{2_{00\frac{1}{2}}^{110} *}{0} $ 0 $ \frac{1}{1} $	$\mathbb{Z}  imes \mathbb{Z}_2$	X <sub>BS</sub> :	$=\mathbb{Z}_{2,2,2}$	SI =	$=z_2$	Weyl, 2	$z_{2,S_4},z_4$	4C/2	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \end{array} $	(000) (000) 116.295 weak (000) (004) (002) (000) (002)	$ \begin{array}{c c} \hline 4^{001} \\ \hline 0 \\ \hline 1 \\ \hline 6 & P4c'2' \\ \hline 4^{001} \\ \hline 0 \\ 0 \\ 0 \\ \hline 1 \\ \hline 116.296 \end{array} $	$ \begin{array}{c} g_{00\frac{1}{2}}^{100} \\ 0 \\ 1 \\ \hline Classifica \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \text{ation} = \\ 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline \end{array}$	$\mathbb{Z} \times \mathbb{Z}_2$ fication =	X <sub>BS</sub> :	-	SI =	$=z_2$	Weyl, 2	$(2, S_4, Z_4)$	<sub>4C</sub> /2	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2} \end{array} $	(000) (000) 116.295 weak (000) (004) (002) (000) (002)	$ \begin{array}{r}       \hline       4^{001} \\       0 \\       1 \\       \hline       0 \\       \hline       4^{001} \\       \hline       0 \\       0 \\       0 \\       \hline       1 \\       \hline       116.296 \\       \hline       \{1 00\frac{1}{2}\}* $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ g_{00\frac{1}{2}}^{1} \\ \hline 0 \\ 1 \\ \hline \text{Classifica} \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ \hline 2 \\ 1 \\ 0 \\ \hline 1 \\ \hline 6 \begin{array}{c} P_c \overline{4}c2 \\ \overline{4}_{00\frac{1}{2}}^{001} * \\ \end{array}$	$ \begin{array}{c} 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} \text{tion} = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $ $ \begin{array}{c} \text{Classi} \\ m_{100}* $	$\mathbb{Z} \times \mathbb{Z}_2$ $\overline{\mathbb{Z}} \times \mathbb{Z}_2$ $\overline{\text{fication}} = 2_{00\frac{1}{2}}^{110}$	X <sub>BS</sub> :	$=\mathbb{Z}_{2,2,2}$	SI =	$=z_2$	Weyl, 2	$z_{2,S_4}, z_4$	4C/2	
$\begin{array}{c c} 0\\ \hline 1\\ \hline \\ \mathbb{Z}_{2,2,2}\\ \hline 000\\ 000\\ \hline 001\\ 010\\ \hline 011\\ \hline \\ \mathbb{Z}_2\\ \hline 0\\ \end{array}$	(000) (000) (116.295 weak (000) (004) (002) (000) (002) weak (000)	$ \begin{array}{r}       \hline       4^{001} \\       0 \\       1 \\       \hline       0 \\       \hline       4^{001} \\       \hline       0 \\       0 \\       0 \\       \hline       1 \\       \hline       116.296 \\       \hline       \{1 00\frac{1}{2}\}* \\       0 $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ g_{00\frac{1}{2}}^{1} \\ \hline 0 \\ 1 \\ \hline Classifica \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ \hline 2 \\ 1 \\ 0 \\ \hline 1 \\ \hline 6 \begin{array}{c} P_c \overline{4}c2 \\ \overline{4}_{00\frac{1}{2}}^{001} * \\ 0 \\ \hline \end{array}$	$ \begin{array}{c} 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} \text{ation} = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} \text{Classi} \\ m_{100} * \\ 0 \end{array} $	$\mathbb{Z} \times \mathbb{Z}_2$ $\mathbb{Z} \times \mathbb{Z}_$	X <sub>BS</sub> :	$=\mathbb{Z}_{2,2,2}$	SI =	$=z_2$	Weyl, 2	$z_{2,S_4},z_4$	4C/2	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2} \end{array} $	(000) (000) 116.295 weak (000) (004) (002) (000) (002) weak	$ \begin{array}{r}       \hline       4^{001} \\       0 \\       1 \\       \hline       0 \\       \hline       4^{001} \\       \hline       0 \\       0 \\       0 \\       \hline       1 \\       \hline       116.296 \\       \hline       \{1 00\frac{1}{2}\}* $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ g_{00\frac{1}{2}}^{1} \\ \hline 0 \\ 1 \\ \hline \text{Classifica} \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ \hline 2 \\ 1 \\ 0 \\ \hline 1 \\ \hline 6 \begin{array}{c} P_c \overline{4}c2 \\ \overline{4}_{00\frac{1}{2}}^{001} * \\ \end{array}$	$ \begin{array}{c} 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} \text{tion} = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $ $ \begin{array}{c} \text{Classi} \\ m_{100}* $	$\mathbb{Z} \times \mathbb{Z}_2$ $\overline{\mathbb{Z}} \times \mathbb{Z}_2$ $\overline{\text{fication}} = 2_{00\frac{1}{2}}^{110}$	X <sub>BS</sub> :	$=\mathbb{Z}_{2,2,2}$	SI =	$=z_2$	Weyl, 2	$z_{2,S_4}, z_{2,S_4}$	4C/2	
$\begin{array}{c c} 0\\ \hline 1\\ \hline \\ \mathbb{Z}_{2,2,2}\\ \hline 000\\ 000\\ \hline 001\\ 010\\ \hline 011\\ \hline \\ \mathbb{Z}_2\\ \hline 0\\ \end{array}$	(000) (000) (116.295 weak (000) (004) (002) (000) (002) weak (000)	$ \begin{array}{r} \overline{4}^{001} \\ 0 \\ 1 \\ 5 \overline{P4c'2'} \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 116.296 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 116.297 \end{array} $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifica} \\ g_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 2 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 6 \\ P_c \overline{4} c 2 \\ \hline 4_{00\frac{1}{2}}^{001} * \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	$\begin{array}{c} 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \text{ation} = \\ 2^{110}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ \hline 1 \\ 1 \\ 0 \\ \hline \text{Classi} \\ m_{100} * \\ 0 \\ \hline \text{Class}: \\ \end{array}$	$ \begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \hline \text{Signature} \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \hline \text{offication} =  \end{array} $	$X_{ m BS}$ :	$=\mathbb{Z}_{2,2,2}$	SI =	$=z_2$	Weyl, 2	$z_{2,S_4}, z_{2,S_4}$	4C/2	
$ \begin{array}{c c} 0\\ \hline 1\\ \hline \mathbb{Z}_{2,2,2}\\ \hline 000\\ 000\\ 001\\ 010\\ \hline 011\\ \hline \mathbb{Z}_{2}\\ 0 \end{array} $	(000) (000) (116.295 weak (000) (004) (002) (000) (002) weak (000)	$ \begin{array}{r} \overline{4}^{001} \\ 0 \\ 1 \\ 5 \overline{P4c'2'} \\ \overline{4}^{001} \\ 0 \\ 0 \\ 1 \\ 116.296 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \end{array} $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifica} \\ g_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 2 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 6 & P_c \overline{4} c 2 \\ \hline 4_{00\frac{1}{2}}^{001} * \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	$\begin{array}{c} 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \text{ation} = \\ 2^{110}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ \hline 1 \\ 1 \\ 0 \\ \hline \text{Classi} \\ m_{100} * \\ 0 \\ \hline \text{Class}: \\ \end{array}$	$ \begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \hline \text{Signature} \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \hline \text{offication} =  \end{array} $	$X_{ m BS}$ :	$=\mathbb{Z}_{2,2,2}$ $X_{\mathrm{BS}}=\mathbb{Z}_{2}$	SI =	$=z_2$	Weyl, 2	$\langle z_2, s_4, z_4 \rangle$	4C/2	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1 \end{array} $	(000) (000) (16.295) weak (000) (004) (002) (000) (002) weak (000) (000)	$ \begin{array}{r} \overline{4}^{001} \\ 0 \\ 1 \\ 5 \overline{P4c'2'} \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 116.296 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 116.297 \end{array} $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifica} \\ g_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 2 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 6 \\ P_c \overline{4} c 2 \\ \hline 4_{00\frac{1}{2}}^{001} * \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	$ \begin{array}{c} 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ \text{ation} = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \hline \text{fication} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \end{array} $	$X_{ m BS}$ :	$=\mathbb{Z}_{2,2,2}$ $X_{\mathrm{BS}}=\mathbb{Z}_{2}$	SI =	$=z_2$	Weyl, 2	$z_{2,S_4}, z_{2,S_4}$	4C/2	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2} \end{array} $	(000) (000) (16.295) weak (000) (004) (002) (000) (002) weak (000) (000)	$ \begin{array}{c c} \hline 4^{001} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ \hline 116.296 \\ \{1 00\frac{1}{2}\}* \\ \hline 0 \\ 1 \\ \hline 116.297 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ \end{array} $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 1 \\ \hline \text{Classifica} \\ g_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 2 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 4 \\ \hline 0 \\ \hline \end{array}$	$\begin{array}{c} 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \text{ation} = \\ \hline 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline 1 \\ 0 \\ \hline Classi \\ m_{100} * \\ \hline 0 \\ \hline Classi \\ 2^{110}_{00\frac{1}{2}} \\ \end{array}$	$\begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \mathbb{Z}_{00\frac{1}{2}} \\ 0 \\ \mathbb{Z}_{00\frac{1}{2}} \\ $	$X_{ m BS}$ :	$=\mathbb{Z}_{2,2,2}$ $X_{\mathrm{BS}}=\mathbb{Z}_{2}$	SI =	$=z_2$	Weyl, 2	$z_{2,S_4}, z_{3,S_4}$	4C/2	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 0 \end{array} $	(000) (000) (16.295) weak (000) (004) (002) (000) (002) weak (000) (000)	$ \begin{array}{r} \overline{4}^{001} \\ 0 \\ 1 \\ \hline 0 \\ 74^{001} \end{array} $ $ \begin{array}{r} 0 \\ 0 \\ 0 \\ 1 \\ \hline 116.296 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 116.297 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \end{array} $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ g_{00\frac{1}{2}}^{1} \\ \hline 0 \\ 1 \\ \hline Classifica \\ g_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ 2 \\ \hline 1 \\ 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 2^{110}_{001\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \text{ation} = \\ 2^{110}_{001\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ \hline \text{Class}; \\ 2^{110}_{001\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$		$X_{\mathrm{BS}}$ :	$\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2,2}$ $\mathbb{Z}_{2,2,2,2}$ $\mathbb{Z}_{2,2,2,2}$	SI =	$= z_2$ $= SI =$	Weyl, z	$(2,S_4,Z_2)$	4C/2	
$\begin{array}{c c} 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ 011 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \end{array}$	(000) (000) (16.295) weak (000) (004) (002) (000) (002) weak (000) (000) weak (000)	$ \begin{array}{r} \overline{4}^{001} \\ 0 \\ 1 \\ \hline 6 P4c'2' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 116.296 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 116.297 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline 116.298 \\ \end{array} $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ g_{00\frac{1}{2}}^{1} \\ \hline 0 \\ 1 \\ \hline Classifica \\ g_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ 2 \\ \hline 1 \\ 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \text{ation} = \\ 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ 0 \\ \hline \text{Classi} \\ 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline \text{Classi} \\ \end{array}$		$X_{\mathrm{BS}}$ :	$=\mathbb{Z}_{2,2,2}$ $X_{\mathrm{BS}}=\mathbb{Z}_{2}$	SI =	$= z_2$ $= SI =$	Weyl, z	(2,S4, Z	4C/2	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2} \end{array} $	(000) (000) (16.295) weak (000) (004) (002) (000) (002) weak (000) (000)  weak (000) (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 116.296 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 116.297 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline 116.298 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \end{array}$	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ g_{00\frac{1}{2}}^{1} \\ \hline 0 \\ 1 \\ \hline Classifica \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ 2 \\ \hline 1 \\ 0 \\ \hline 1 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ \text{tion} = \\ 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z} \times \mathbb{Z}_2 \\ $	$X_{\mathrm{BS}}$ :	$\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2,2}$ $\mathbb{Z}_{2,2,2,2}$ $\mathbb{Z}_{2,2,2,2}$	SI =	$= z_2$ $= SI =$	Weyl, z	(2,S4,Z	4C/2	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 0\\ \end{array} $	(000) (000) (16.295) weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ 0 \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 16.296 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 1 \\ 16.297 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ g_{00\frac{1}{2}}^{1} \\ \hline 0 \\ 1 \\ \hline Classifica \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ \hline 2 \\ 1 \\ 0 \\ \hline 1 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \text{ation} = \\ 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$		$X_{\mathrm{BS}}$ :	$\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2,2}$ $\mathbb{Z}_{2,2,2,2}$ $\mathbb{Z}_{2,2,2,2}$	SI =	$= z_2$ $= SI =$	Weyl, z	$z_{2,S_4}, z_{3,S_4}$	4C/2	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2} \end{array} $	(000) (000) (16.295) weak (000) (004) (002) (000) (002) weak (000) (000)  weak (000) (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ 0 \\ \overline{1} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 116.296 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 116.297 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 116.298 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ g_{00\frac{1}{2}}^{1} \\ \hline 0 \\ 1 \\ \hline Classifica \\ g_{00\frac{1}{2}}^{100} * \\ 0 \\ 2 \\ \hline 1 \\ 0 \\ \hline 1 \\ \hline 0 \\ 4 \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ 7 \\ \hline P_C 4c2 \\ \hline 4^{001} \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline 8 \\ P_I 4c2 \\ \hline 4^{001} \\ \hline 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c} 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \text{ation} = \\ \hline 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ \hline m_{100} * \\ 0 \\ \hline 0 \\ \hline \text{Classi} \\ 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline \text{Classi} \\ g_{00\frac{1}{2}}^{100} \\ 0 \\ \hline 1 \\ \end{array}$	$\begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z}^{110} \\ 000\frac{1}{2} \\ 0 \\ 0 \\ \mathbb{Z}^{110} \\ 0 \\ \mathbb{Z}^{110} \\ 0 \\ \mathbb{Z}^{110} \\ \mathbb{Z}^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\mathbb{Z}_2$ $\mathbb{Z}_2$	$X_{ m BS} = \mathbb{Z}_2$ $X_{ m BS} = \mathbb{Z}_2$ $X_{ m BS} = \mathbb{Z}_2$	SI = 2	SI =	Weyl, $z$ $= z_{2,S_{4}}$ $= z_{2,S_{4}}$	$z_{2,S_4}, z_{2,S_4}$	4C/2	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \end{array} $	(000) (000) (116.295) weak (000) (004) (002) (002) weak (000) (000) weak (000) (000)	$ \begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 116.296 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 116.297 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 116.298 \\ 1 \\ 117.298 \\ 0 \\ 1 \\ 117.298 \end{array} $	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ \hline 0 \\ \hline 1 \\ \hline Classifica \\ g_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ \hline 2 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 4 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 2^{110}_{001}\\ 2^{01}_{001}\\ 0\\ 0\\ \end{array}$		$\mathbb{Z}_2$ $\mathbb{Z}_2$	$\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2}$ $\mathbb{Z}_{2,2,2,2}$ $\mathbb{Z}_{2,2,2,2}$ $\mathbb{Z}_{2,2,2,2}$	SI = 2	SI =	Weyl, z	$z_{2,S_4}, z_{2,S_4}$	4C/2	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{2,2,2}\\ 000\\ 000\\ 001\\ 010\\ 011\\ \hline \mathbb{Z}_{2}\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 0\\ 1\\ \hline \mathbb{Z}_{2}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	(000) (000) (16.295) weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 116.296 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 116.297 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline 116.298 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 117.298 \\ \hline 4^{001} \\ \end{array}$	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ g_{00\frac{1}{2}}^{1} \\ \hline 0 \\ 1 \\ \hline Classifica \\ g_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ 2 \\ \hline 1 \\ 0 \\ \hline 1 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 2^{110}_{00 \frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \text{ation} = \\ 2^{110}_{00 \frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z}^{110} \\ 000\frac{1}{2} \\ 0 \\ 0 \\ \mathbb{Z}^{110} \\ 0 \\ \mathbb{Z}^{110} \\ 0 \\ \mathbb{Z}^{110} \\ \mathbb{Z}^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\mathbb{Z}_2$ $\mathbb{Z}_2$	$X_{ m BS} = \mathbb{Z}_2$ $X_{ m BS} = \mathbb{Z}_2$ $X_{ m BS} = \mathbb{Z}_2$	SI = 2	SI =	Weyl, $z$ $= z_{2,S_{4}}$ $= z_{2,S_{4}}$	$(z_2, s_4, z_4, z_4, z_4, z_4, z_4, z_4, z_4, z$	4C/2	
$\begin{array}{c} 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \\ \hline 011 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \\ \end{array}$	(000) (000) (16.295) weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)  weak (000) (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 6 & P4c'2' \\ \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 116.296 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 116.297 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline 116.298 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 117.299 \\ \overline{4}^{001} \\ 0 \\ \end{array}$	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ g_{00\frac{1}{2}}^{1} \\ \hline 0 \\ 1 \\ \hline Classifica \\ g_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ 2 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 2^{110}_{00 \frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \text{ation} = \\ 2^{110}_{00 \frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z}^{110} \\ 000\frac{1}{2} \\ 0 \\ 0 \\ \mathbb{Z}^{110} \\ 0 \\ \mathbb{Z}^{110} \\ 0 \\ \mathbb{Z}^{110} \\ \mathbb{Z}^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\mathbb{Z}_2$ $\mathbb{Z}_2$	$X_{ m BS} = \mathbb{Z}_2$ $X_{ m BS} = \mathbb{Z}_2$ $X_{ m BS} = \mathbb{Z}_2$	SI = 2	SI =	Weyl, $z$ $= z_{2,S_{4}}$ $= z_{2,S_{4}}$	$\langle z_2, s_4, z_4 \rangle$	4C/2	
$\begin{array}{c} 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \\ 011 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \end{array}$	(000) (000) (16.295) weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 116.296 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 116.297 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ \hline 116.298 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ \hline 117.298 \\ \hline 4^{001} \\ \end{array}$	$\begin{array}{c} g_{00\frac{1}{2}}^{100} \\ g_{00\frac{1}{2}}^{1} \\ \hline 0 \\ 1 \\ \hline Classifica \\ g_{00\frac{1}{2}}^{100} * \\ \hline 0 \\ 2 \\ \hline 1 \\ 0 \\ \hline 1 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 2^{110}_{00 \frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \text{ation} = \\ 2^{110}_{00 \frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z} \times \mathbb{Z}_2 \\ \mathbb{Z}^{110} \\ 000\frac{1}{2} \\ 0 \\ 0 \\ \mathbb{Z}^{110} \\ 0 \\ \mathbb{Z}^{110} \\ 0 \\ \mathbb{Z}^{110} \\ \mathbb{Z}^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\mathbb{Z}_2$ $\mathbb{Z}_2$	$X_{ m BS} = \mathbb{Z}_2$ $X_{ m BS} = \mathbb{Z}_2$ $X_{ m BS} = \mathbb{Z}_2$	SI = 2	SI =	Weyl, $z$ $= z_{2,S_{4}}$ $= z_{2,S_{4}}$	$z_{2,S_4}, z_{3,S_4}$	4C/2	

	117.30	$\overline{)3}$ $P\overline{4}b'2'$	Classific	cation =	$\mathbb{Z} \times \mathbb{Z}_2$	XBS	= 7/2 2 4 5	$SI = z_2 w_{ex}$	$y_1, z_{2,S_4}, z_{4C}$
$\overline{\mathbb{Z}_{2,2,4}}$	weak	$\frac{7001}{4^{001}}$	$g_{\frac{1}{2}\frac{1}{2}0}^{100}*$	$\frac{2^{110}_{\frac{1}{2}\frac{1}{2}0}*}{2^{110}_{\frac{1}{2}\frac{1}{2}0}}$	<u> </u>	2100	22,2,4	2, wey	y1, ~2,5 <sub>4</sub> , ~4C
000	(000)	0	$\frac{3\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$					
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			ication =	$\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S}$	$S_4$
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{100}$	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$				
0	(000)	0	0	0	0				
1	(000)	1	1	1	0				
		117.305	$P_C \overline{4}b2$	Classi	fication =	$\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,\beta}$	S4
$\mathbb{Z}_2$	weak		$\bar{4}^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$m_{010}*$		B5 2		54
0	(000)	0	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	0				
$\frac{0}{1}$	(000)	1	0	0	0				
	(500)	117.306	-			- 77 -	$X_{BS} = \mathbb{Z}_2$	ST —	~
$\mathbb{Z}_2$	weak	$\frac{117.300}{\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*}$	$\frac{5 P_I 402}{4^{001}}$	$g_{00\frac{1}{2}}^{100}*$	$\frac{\text{fication} =}{2_{00\frac{1}{2}}^{110}} *$	- #2	$\Lambda_{\rm BS} = \mathbb{Z}_2$	$S1 = z_{2,S}$	54
0	(000)	0	0	0	0				
	(000)	1	1	0	1			~~	
		118.30′			ication =	$\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S}$	54
$\mathbb{Z}_2$	weak	$\bar{4}^{001}$	$g^{100}_{rac{1}{2}rac{1}{2}rac{1}{2}}$	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$					
0	(000)	0	0	0					
1	(000)	1	1	0					
	118.311	$P\overline{4}n'2'$	C1:C					Г	/ე
	110.011	P4HZ	Classinca	ation =	$\mathbb{Z}  imes \mathbb{Z}_2$	$X_{BS}$	$=\mathbb{Z}_{2,2,2}$ S	$1=z_{2, m Weyl}$	$1, z_{2,S_4}, z_{4C}/2$
$\overline{\mathbb{Z}_{2,2,2}}$	weak	$\frac{P4n 2}{\bar{4}^{001}}$	$g_{\frac{1}{2},\frac{1}{2},\frac{1}{2}}^{100}*$	$\frac{\text{ation} = }{2^{110}_{\frac{1}{2},\frac{1}{2},\frac{1}{2}}} *$	$\mathbb{Z}  imes \mathbb{Z}_2$	$X_{BS}$	$=\mathbb{Z}_{2,2,2}$ Si	$z = z_{2, \text{Weyl}}$	$, z_{2,S_4}, z_{4C/2}$
		$\frac{74n2}{4^{001}}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}*$	$\frac{2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} *$	$\mathbb{Z}  imes \mathbb{Z}_2$	X <sub>BS</sub>	$=\mathbb{Z}_{2,2,2}$ Si	$1=z_{2,\mathrm{Weyl}}$	$1, z_{2,S_4}, z_{4C/2}$
$\mathbb{Z}_{2,2,2}$	weak	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}*$	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$\mathbb{Z}  imes \mathbb{Z}_2$	X <sub>BS</sub>	$=\mathbb{Z}_{2,2,2}$ Si	$1=z_{2, m Weyl}$	, \$ z_2, s_4,  z_4C \setminus 2
$ \begin{array}{ c c } \hline \mathbb{Z}_{2,2,2} \\ \hline 000 \end{array} $	weak (000)	$\frac{\bar{4}^{001}}{0}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} *$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \end{array}$	$\mathbb{Z}  imes \mathbb{Z}_2$	X <sub>BS</sub>	$=\mathbb{Z}_{2,2,2}$ S	$l=z_{2,\mathrm{Weyl}}$	, \$z_2,S_4, \$z_4C \setminus 2
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ 010 \end{array} $	weak (000) (004) (002) (000)	$\frac{\bar{4}^{001}}{0}$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 2 \end{array}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \end{array}$	$\mathbb{Z}  imes \mathbb{Z}_2$	X <sub>BS</sub>	$=\mathbb{Z}_{2,2,2}$ SI	$1=z_{2,\mathrm{Weyl}}$	, \$^22,S_4,^24C/^2
$   \begin{array}{r}     \mathbb{Z}_{2,2,2} \\     \hline     000 \\     \hline     000 \\     \hline     001   \end{array} $	weak (000) (004) (002)	$ \bar{4}^{001} $ 0 0 0	$ \begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 2 \\ 1 \end{array} $	$ \begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \end{array} $	$\mathbb{Z}  imes \mathbb{Z}_2$	X <sub>BS</sub>	$=\mathbb{Z}_{2,2,2}$ Si	$1=z_{2,\mathrm{Weyl}}$	, \$^22,S_4,^24C/^2
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ 010 \end{array} $	weak (000) (004) (002) (000)		$ \begin{array}{c} g_{1\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} * \\ g_{1\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ 2 \\ P_c \overline{4} n 2 \end{array} $	$ \begin{array}{c} 2_{\frac{110}{2}\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \end{array} $ Classi	fication =				
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ 010 \end{array} $	weak (000) (004) (002) (000)	0 0 0 0 1 1 118.312	$ \begin{array}{c} g_{1\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} * \\ g_{1\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ 2 \\ P_c \overline{4} n 2 \end{array} $	$ \begin{array}{c} 2_{\frac{110}{2}\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \end{array} $ Classi	fication =				
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ 010 \\ \hline 011 \end{array} $	weak (000) (004) (002) (000) (002) weak	$4^{001}$ 0 0 0 1 1	$ \begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \end{array} $					
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ 001 \\ 010 \\ \hline 011 \end{array} $	weak (000) (004) (002) (000) (002)	$ \begin{array}{c}       \hline       4^{001} \\       0 \\       0 \\       0 \\       \hline       1 \\       \hline       118.312 \\       \{1 00\frac{1}{2}\}* $	$\begin{matrix} g^{10}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ \hline 2 & P_c 4n2 \\ \hline 4^{001}_{00\frac{1}{2}} * \end{matrix}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline Classi \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \end{array}$	$\begin{array}{c} { m fication} = \ & 2^{110}_{rac{1}{2}rac{1}{2}rac{1}{2}} \end{array}$				
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ 001 \\ \hline 010 \\ 011 \end{array} $	weak (000) (004) (002) (000) (002) weak (000)	$ \begin{array}{c}     \hline     4^{001} \\     0 \\     0 \\     \hline     1 \\     \hline     118.312 \\     \{1 00\frac{1}{2}\}* \\     0 \end{array} $	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ \hline 2 \\ \hline 1 \\ 0 \\ \hline 1 \\ \hline 2 \frac{P_{c}4n2}{4_{00\frac{1}{2}}} * \\ \hline 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ \end{array}$	fication = $2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\frac{1}{2}$ 0	= Z <sub>2</sub>	$X_{BS} = \mathbb{Z}_2$	$\mathrm{SI}=z_{2,8}$	S4
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ 001 \\ 010 \\ 011 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	weak   (000)   (004)   (002)   (000)	$ \begin{array}{c}       \hline       4^{001} \\       0 \\       0 \\       1 \\       \hline       118.312 \\       \{1 00\frac{1}{2}\}* \\       0 \\       \hline       1 \\       \hline       118.313 \end{array} $	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} * \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 2 \\ \hline 1 \\ 0 \\ 1 \\ \hline 2 & P_{c}4n2 \\ \hline 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ \hline 0 \\ B & P_{C}4n2 \end{array}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ \text{Classi} \\ \end{array}$	$\begin{array}{c} \text{fication} = \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \text{fication} = \end{array}$	= Z <sub>2</sub>		$\mathrm{SI}=z_{2,8}$	S4
	weak (000) (004) (002) (000) (002)  weak (000) (000)	$ \begin{array}{c}                                     $	$\begin{matrix} g^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 2\\ 1\\ 0\\ 1\\ \hline 2 & P_c \overline{4}n2\\ \overline{4}^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ \hline 0\\ \hline 3 & P_C \overline{4}n2\\ \overline{4}^{001}_{\frac{1}{2}\frac{1}{2}0}*\\ \end{matrix}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \hline Classi \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ \hline Classi \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \end{array}$	fication = $\frac{2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0}$ 0 0 fication = $g^{010}_{00\frac{1}{2}}*$	= Z <sub>2</sub>	$X_{BS} = \mathbb{Z}_2$	$\mathrm{SI}=z_{2,8}$	S4
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \\ 011 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $	weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000)	$ \begin{array}{c}                                     $	$\begin{array}{c}g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{100}\\ \\gray \\ 0\\ \\gray \\ 2\\ \\gray \\ $	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ \text{Classi} \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ \end{array}$	fication = $\frac{2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0}$ 0 fication = $\frac{g^{010}_{00\frac{1}{2}}*}{0}$	= Z <sub>2</sub>	$X_{BS} = \mathbb{Z}_2$	$\mathrm{SI}=z_{2,8}$	S4
	weak (000) (004) (002) (000) (002)  weak (000) (000)	$ \begin{array}{c}                                     $	$\begin{array}{c}g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{10}*\\0\\2\\1\\0\\1\\2P_{c}4n2\\\hline 4_{00\frac{1}{2}}^{001}*\\0\\0\\3P_{C}4n2\\\hline 4_{\frac{10}{2}\frac{1}{2}0}^{01}*\\0\\0\\0\\0\\0\\\end{array}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ \text{Classi} \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$	fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication = $\frac{g_{00\frac{1}{2}}^{010}*}{0}$ 0	$=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$SI = z_{2,s}$ $SI = z_{2,s}$	S <sub>4</sub>
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ 001 \\ 010 \\ 011 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \end{array} $	weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)		$ \frac{g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{100}}{0} * \\ \frac{1}{2} \\ \frac{1}{4001} \\ \frac{2}{4001} \\ \frac{7}{4001} \\ \frac$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ \text{Classi} \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ \text{Classi} \\ 0 \\ \text{Classi} \\ \end{array}$	fication = $ \frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ 0 \\ fication = \\ \frac{g_{00\frac{1}{2}}^{010} *}{0} \\ 0 \\ fication =  $	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,s}$ $SI = z_{2,s}$	S <sub>4</sub>
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ 010 \\ 011 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 $	weak   (000)   (004)   (002)   weak   (000)   (000	$ \begin{array}{c}     \hline 4^{001} \\     \hline 0 \\     \hline 0 \\     \hline 0 \\     \hline 1 \\     \hline 118.312 \\     \hline \{1 00\frac{1}{2}\}* \\     \hline 0 \\     \hline 1 \\     \hline 118.313 \\     \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\     \hline 0 \\     \hline 1 \\     \hline 118.314 \\     \hline \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ \end{array} $	$\begin{array}{c} g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ g_{\frac{1}2\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ g_{\frac{1}2\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ g_{\frac{1}2\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ g_{\frac{1}2\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ g_{\frac{1}2\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ g_{\frac{1}2\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ g_{\frac{1}2\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ g_{\frac{1}2\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ g_{\frac{1}2\frac{1}{2}\frac{1}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ \text{Classi} \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ \text{Classi} \\ 0 \\ \text{Classi} \\ m_{100} * \\ \end{array}$	fication = $\frac{2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0}$ 0 fication = $\frac{g^{010}_{00\frac{1}{2}}*}{0}$ 0 fication = $2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$SI = z_{2,s}$ $SI = z_{2,s}$	S <sub>4</sub>
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ 010 \\ \hline 011 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \end{array} $	weak   (000)   (004)   (002)   weak   (000)   (000)   (000)   weak   (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 118.312 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 118.313 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 118.314 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ \end{array}$	$\begin{array}{c} g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ 2 & P_c 4n2 \\ 4_{\frac{001}{2}}^{1} \\ 4_{\frac{001}{2}}^{1} \\ 0 \\ 0 \\ 3 & P_C \overline{4}n2 \\ \overline{4}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001} \\ 0 \\ 0 \\ 4 & P_I \overline{4}n2 \\ \overline{4}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{*} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ \text{Classi} \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ \end{array}$	fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication = $\frac{g_{00\frac{1}{2}}^{010}*}{0}$ fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$	$=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$SI = z_{2,s}$ $SI = z_{2,s}$	S <sub>4</sub>
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ 010 \\ 011 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 $	weak   (000)   (004)   (002)   weak   (000)   (000	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 118.312 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 118.313 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 118.314 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} g^{10}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{*} \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ 2 \\ P_{c}4n2 \\ \hline 4^{001}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 3 \\ P_{C}4n2 \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ 4 \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{Classi} \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ 0 \\ \end{array}$	fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication = $\frac{g_{00\frac{1}{2}}^{010}*}{0}$ fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$	$=\mathbb{Z}_2$ $=\mathbb{Z}_2$ $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$\mathrm{SI}=z_{2,8}$ $\mathrm{SI}=z_{2,8}$ $\mathrm{SI}=z_{2,8}$	$S_4$
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ 000 \\ 000 \\ 001 \\ 010 \\ 011 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $	weak   (000)   (004)   (002)     weak   (000)   (000)       weak   (000)   (000)		$\begin{array}{c} g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ 2 \\ \hline Q_{00\frac{1}{2}}^{1} \\ 4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{Classi} \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ \text{Classiff} \end{array}$	fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication = $\frac{g_{00\frac{1}{2}}^{010}*}{0}$ fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$	$=\mathbb{Z}_2$ $=\mathbb{Z}_2$ $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$\mathrm{SI}=z_{2,8}$ $\mathrm{SI}=z_{2,8}$ $\mathrm{SI}=z_{2,8}$	$S_4$
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ 001 \\ 011 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $	weak   (000)   (004)   (002)   weak   (000)   (000)   (000)   weak   (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 0 \\ 1 \\ 1 \\ 118.312 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 118.313 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 118.314 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 119.315 \\ \overline{4}^{001} \\ \end{array}$	$\begin{array}{c} g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 2 \\ \hline 1 \\ 0 \\ \hline 1 \\ 2 \\ \hline P_{c}\overline{4}n2 \\ \hline 4_{00\frac{1}{2}}^{001} * \\ 0 \\ \hline 0 \\ \hline 3 \\ \hline P_{C}\overline{4}n2 \\ \hline 4_{\frac{10}{2}\frac{1}{2}0}^{01} * \\ \hline 0 \\ \hline 0 \\ \hline 4 \\ \hline P_{I}\overline{4}n2 \\ \hline 4_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ \text{Classi} \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ \text{Classiff} \\ Cm^{010}_{(0)} \\ \end{array}$	fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication = $\frac{g_{00\frac{1}{2}}^{010}*}{0}$ fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$	$=\mathbb{Z}_2$ $=\mathbb{Z}_2$ $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$\mathrm{SI}=z_{2,8}$ $\mathrm{SI}=z_{2,8}$ $\mathrm{SI}=z_{2,8}$	$S_4$
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ 001 \\ 010 \\ 011 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $	weak   (000)   (004)   (002)   weak   (000)   (000)   weak   (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 0 \\ 1 \\ 1 \\ 118.312 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 118.313 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 118.314 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 119.315 \\ \overline{4}^{001} \\ 0 \\ \end{array}$	$\begin{array}{c} g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ 2  P_{c}\overline{4}n2 \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 3  P_{C}\overline{4}n2 \\ \overline{4}_{\frac{101}{2}\frac{1}{2}}^{1} * \\ 0 \\ 0 \\ 4  P_{I}\overline{4}n2 \\ \overline{4}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 0 \\ 6  I\overline{4}m2 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ \text{Classi} \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ \text{Classiff} \\ Cm^{010}_{(0)} \\ 22 \\ \end{array}$	fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication = $\frac{g_{00\frac{1}{2}}^{010}*}{0}$ fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$	$=\mathbb{Z}_2$ $=\mathbb{Z}_2$ $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$\mathrm{SI}=z_{2,8}$ $\mathrm{SI}=z_{2,8}$ $\mathrm{SI}=z_{2,8}$	$S_4$
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ 001 \\ 010 \\ 011 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	weak   (000)   (002)   weak   (000)   (000)   (000)   weak   (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 118.312 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 118.313 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 118.314 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 119.315 \\ \overline{4}^{001} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ 2 \\ P_{c}\overline{4}n2 \\ 4_{00\frac{1}{2}}^{101} * \\ 0 \\ 0 \\ 3 \\ P_{C}\overline{4}n2 \\ 4_{\frac{101}{2}\frac{1}{2}0}^{1} * \\ 0 \\ 0 \\ 4 \\ P_{I}\overline{4}n2 \\ 4_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 0 \\ 5 \\ I\overline{4}m2 \\ 2^{110} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ \text{Classi} \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ \text{Classiff} \\ Cm^{010}_{(0)} \\ 22 \\ 2\overline{2} \\ \end{array}$	fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication = $\frac{g_{00\frac{1}{2}}^{010}*}{0}$ fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$	$=\mathbb{Z}_2$ $=\mathbb{Z}_2$ $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$\mathrm{SI}=z_{2,8}$ $\mathrm{SI}=z_{2,8}$ $\mathrm{SI}=z_{2,8}$	$S_4$
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ 010 \\ 011 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_1 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \boxed{\mathbb{Z}_2} \\ 0 \\ 0 \\ 0 \\ 1 \\ \boxed{\mathbb{Z}_2} \\ 0 \\ 0 \\ 0 \\ 1 \\ \boxed{\mathbb{Z}_2} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	weak   (000)   (002)   weak   (000)   (000)   weak   (000)   (000)   weak   (000)   (000)   weak   (000)   (	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 118.312 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 118.313 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 118.314 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 119.315 \\ \hline 4^{001} \\ 0 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ 2 \\ Q_{\frac{1}{2}}^{1} \\ Q_{\frac{1}{2}}^{1} \\ Q_{\frac{1}{2}\frac{1}{2}}^{1} * \\ Q_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ Q_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ Q_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ Q_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ Q_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ Q_{\frac{1}{2}\frac{1}{$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ \text{Classi} \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ 0 \\ \text{Classiff} \\ Cm^{010}_{(0)} \\ 2\overline{2} \\ 2\overline{2} \\ 1\overline{1} \\ \end{array}$	fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication = $\frac{g_{00\frac{1}{2}}^{010}*}{0}$ fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication =	$=\mathbb{Z}_2$ $=\mathbb{Z}_2$ $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$SI = z_{2,s}$ $SI = z_{2,s}$ $SI = z_{2,s}$ $SI = z_{2,s}$	$S_4$ $S_4$ $S_4$
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ 010 \\ \hline 011 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_1 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \boxed{\mathbb{Z}_2 } $	weak   (000)   (002)   weak   (000)   (000)   (000)   weak   (000)		$\begin{array}{c} g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ 2 \\ \hline Q_{\frac{1}{2}\frac{1}{2}}^{1} \\ 0 \\ 1 \\ 2 \\ \hline Q_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ Classi \\ g^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ Classi \\ 2^{110}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ Classi \\ m_{100} * \\ 0 \\ \hline Classi \\ m_{100} * \\ 0 \\ \hline Classi \\ m_{100} * \\ 0 \\ \hline 2^{2}_{\frac{1}{2}} \\ 2^{2}_{\frac{1}{2}} \\ 1^{1}_{\frac{1}{2}} \\ ation = \\ \end{array}$	fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication = $\frac{g_{00\frac{1}{2}}^{010}*}{0}$ fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication =	$=\mathbb{Z}_2$ $=\mathbb{Z}_2$ $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$SI = z_{2,s}$ $SI = z_{2,s}$ $SI = z_{2,s}$ $SI = z_{2,s}$	$S_4$
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ 010 \\ \hline 011 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)  weak (000) (000)  weak (1000) (119.319 weak	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 118.312 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 118.313 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 118.314 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 119.315 \\ \overline{4}^{001} \\ 0 \\ 0 \\ 1 \\ \overline{4}^{001} \\ \end{array}$	$\begin{array}{c} g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ 2 \\ \hline Q_{\frac{1}{2}\frac{1}{2}}^{1} \\ 0 \\ 1 \\ 2 \\ \hline Q_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{Classi} \\ 2^{\frac{1}{10}}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ \hline \text{Classiff} \\ Cm^{010}_{(0)} \\ 22 \\ 22 \\ \hline 11 \\ \hline \text{ation} = \\ 2^{110} * \\ \end{array}$	fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication = $\frac{g_{00\frac{1}{2}}^{010}*}{0}$ fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication =	$=\mathbb{Z}_2$ $=\mathbb{Z}_2$ $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$SI = z_{2,s}$ $SI = z_{2,s}$ $SI = z_{2,s}$ $SI = z_{2,s}$	$S_4$ $S_4$ $S_4$
$\begin{array}{c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ \hline 001 \\ \hline 010 \\ \hline 011 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{bmatrix}$	weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)  weak (000) (000)  119.319 weak (000)	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 118.312 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 118.313 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 118.314 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 119.315 \\ \overline{4}^{001} \\ 0 \\ 1 \\ \overline{4}^{001} \\ 0 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ g_{\frac{11}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 2 \\ \hline 1 \\ 0 \\ \hline 1 \\ 2 \\ \hline P_c 4n2 \\ \hline 4_{\frac{001}{2}}^{1} * \\ 0 \\ 0 \\ \hline 3 \\ \hline P_C 4n2 \\ \hline 4_{\frac{100}{2}\frac{1}{2}0}^{1} * \\ 0 \\ 0 \\ \hline 4_{\frac{1}{2}\frac{1}{2}0}^{10} * \\ 0 \\ \hline 0 \\ \hline 4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 0 \\ \hline 0 \\ \hline Classification * \\ 0 \\ \end{array}$	$\begin{array}{c} 2^{110}_{111} * \\ 2^{110}_{111} * \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \\ Classi \\ g^{100}_{11}_{212} * \\ 0 \\ 0 \\ Classi \\ 2^{110}_{112}_{212} \\ 0 \\ 0 \\ \\ Classi \\ m_{100} * \\ 0 \\ \hline Classi \\ m_{100} * \\ 0 \\ \hline Classi \\ 0 \\ \hline 2^{1}_{211} \\ 0 \\ 0 \\ \hline Classi \\ 0 \\ 0 \\ \hline 0 \\ Classi \\ 0 \\ 0 \\ \hline 0 \\ Classi \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication = $\frac{g_{00\frac{1}{2}}^{010}*}{0}$ fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication =	$=\mathbb{Z}_2$ $=\mathbb{Z}_2$ $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$SI = z_{2,s}$ $SI = z_{2,s}$ $SI = z_{2,s}$ $SI = z_{2,s}$	$S_4$ $S_4$ $S_4$
$ \begin{array}{c c} \mathbb{Z}_{2,2,2} \\ \hline 000 \\ 000 \\ 001 \\ 010 \\ 011 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	weak (000) (004) (002) (000) (002)  weak (000) (000)  weak (000) (000)  weak (000) (000)  weak (1000) (119.319 weak	$\begin{array}{c} \overline{4}^{001} \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 118.312 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 1 \\ 118.313 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 1 \\ 118.314 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 1 \\ 119.315 \\ \overline{4}^{001} \\ 0 \\ 0 \\ 1 \\ \overline{4}^{001} \\ \end{array}$	$\begin{array}{c} g_{\frac{10}{2}\frac{1}{2}\frac{1}{2}}^{10} * \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 2 \\ 1 \\ 0 \\ 1 \\ 2 \\ \hline Q_{\frac{1}{2}\frac{1}{2}}^{1} \\ 0 \\ 1 \\ 2 \\ \hline Q_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ \text{Classi} \\ g^{100}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{Classi} \\ 2^{\frac{1}{10}}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \text{Classi} \\ m_{100} * \\ 0 \\ \hline \text{Classiff} \\ Cm^{010}_{(0)} \\ 22 \\ 22 \\ \hline 11 \\ \hline \text{ation} = \\ 2^{110} * \\ \end{array}$	fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication = $\frac{g_{00\frac{1}{2}}^{010}*}{0}$ fication = $\frac{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ 0 fication =	$=\mathbb{Z}_2$ $=\mathbb{Z}_2$ $=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$	$SI = z_{2,s}$ $SI = z_{2,s}$ $SI = z_{2,s}$ $SI = z_{2,s}$	$S_4$ $S_4$ $S_4$

010	(000)	1	0	1						
		119.320	$I_c \overline{4} m2$		fication =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$	SI =	$= z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$\bar{4}^{001}$	$2^{110}$	$Cm_{(0)}^{010}$					
0	(000)	0	0	0	$2\overline{2}$					
0	(000)	0	0	0	$2\overline{2}$					
1	(000)	1	1	0	$1\overline{1}$					
		120.32		Classif	ication =	$\mathbb{Z}_2$	$X_{BS}=\mathbb{Z}_2$	SI =	$z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\frac{120.92}{4^{001}}$	$g_{00\frac{1}{2}}^{100}$	$2_{00\frac{1}{2}}^{110}$						
0	(000)	0	0	0						
1	(000)	1	1	0						
	120.325	$I\bar{4}c'2'$	Classifica	tion = 1	$\mathbb{Z}  imes \mathbb{Z}_2$	$X_{BS}$ =	$=\mathbb{Z}_{2,2,2}$ SI	$= z_{2,1}$	$_{\mathrm{Weyl}},z_{2,S}$	$z_4, z_{4C}/2$
$\mathbb{Z}_{2,2,2}$	weak	$\bar{4}^{001}$	$g_{00\frac{1}{2}}^{100}*$	$2^{110}_{00\frac{1}{2}}*$						
000	(000)	0	0	0						
000	$(\overline{111})$	0	1	1						
010	(000)	1	0	1						
		120.326			fication =	$\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	SI =	$z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$\bar{4}^{001}_{00\frac{1}{2}}*$	$2_{00\frac{1}{2}}^{110}$	$m_{010}*$					
0	(000)	0	0	0	0					
1	(000)	1	0	0	0					
		121.327			ication =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$	SI =	$z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\bar{4}^{001}$	$2^{100}$	$Cm_{(0)}^{110}$						
0	(000)	0	0	22						
0	(000)	0	0	22						
1	(000)	1	0	11						
	121.331	$I\bar{4}2'm'$			$\mathbb{Z} \times \mathbb{Z}_2$	$X_{BS}$	$=\mathbb{Z}_{2,2,2}$ Si	$1 = z_2$	$x_{\mathrm{eyl}}, z_{2,s}$	$z_4, z_{4C}/2$
$\mathbb{Z}_{2,2,2}$	weak	$\bar{4}^{001}$	2 <sup>100</sup> *	$m_{110}*$						
$\frac{000}{000}$	$(000)$ $(11\overline{1})$	0	0	0						
$\frac{000}{010}$	(000)	1	1	0						
	(000)	121.332			fication =	7,,	$X_{BS} = \mathbb{Z}_2$	ST -	$= z_{2,S_4}$	
$\overline{\mathbb{Z}_2}$	weak	$\frac{121.332}{\{1 \frac{1}{2}\frac{1}{2}0\}*}$	$\frac{1_{c}4211}{\bar{4}^{001}}$	$2^{010}$	$Cm_{(0)}^{110}$	- 22M	$\Lambda_{\rm BS} = \mathbb{Z}_2$		$- 22,S_4$	
$\frac{2}{0}$	(000)	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$					
0	(000)	0	0	0	$2\overline{2}$					
1	(000)	1	1	0	11					
		122.33	$3 I \overline{4} 2d$	Classif	fication =	$\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	SI =	Z2 S4	
$\mathbb{Z}_2$	weak	$\bar{4}^{001}$	$2^{100}_{0\frac{1}{2}\frac{1}{4}}$	$g_{0\frac{1}{2}\frac{1}{4}}^{110}$					2,04	
	(000)	0	$\frac{0 \overline{2} \overline{4}}{0}$	$\frac{-0\frac{1}{2}\frac{1}{4}}{0}$						
1	(000)	1	0	1						
	122	$2.337 I \bar{4}2'$	d' Class	sification	$\overline{n} = \mathbb{Z} \times \mathbb{Z}$	$\mathbb{Z}_2$ $\Sigma$	$X_{\mathrm{BS}} = \mathbb{Z}_{2,2}$	SI =	Z <sub>2.Weyl. 2</sub>	$\langle 2.S_A \rangle$
$\overline{\mathbb{Z}_{2,2}}$	weak	$\frac{4^{001}}{4^{001}}$	$\frac{2^{100}_{0\frac{1}{2}\frac{1}{4}}}{2^{100}_{0\frac{1}{2}\frac{1}{4}}}$	$g_{0\frac{1}{2}\frac{1}{4}}^{110}*$			20 -2,2		2, vvcy1, ~	-,~4
00	(000)	0	$\frac{0\frac{1}{2}\frac{1}{4}}{0}$	$0^{\frac{30\frac{1}{2}\frac{1}{4}}{2}}$						
00	$(22\overline{2})$	0	1	1						
01	(000)	1	1	0						
		122.338	$8 I_c \overline{4}2d$	Classi	fication =	$\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	SI =	$z_{2.S_4}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$\bar{4}^{001}$	$g_{0\frac{1}{2}\frac{1}{4}}^{110}$	$2_{0\frac{1}{2}\frac{1}{4}}^{010}$		4		-,~4	
0	(000)	0	0	$\frac{00_{\bar{2}}_{\bar{4}}}{0}$	$0^{\frac{1}{2}}$					
1	(000)	1	1	1	0					
	123.3	$\frac{1}{39} P4/m$	mm Cla	assificat	$ion = \mathbb{Z}_M^5$	Xı	$_{ m BS} = \mathbb{Z}_{2,4,8}$	SI =	$z'_{2P,1}, z^+_{4r}$	, z <sub>8</sub>
$\mathbb{Z}_{2,4,8}$	weak	$\frac{4^{001}}{4^{001}}$	$2^{100}$	$\frac{i}{i}$	$\frac{2^{110}}{2^{110}}$	$\frac{\bar{4}^{0}}{\bar{4}^{0}}$		100	$\frac{c_{2P,1},c_{4r}}{Cm_{(4)}^{001}}$	$Cm_{(2)}^{110}$
000	(000)	0	0	0	0	(			$\frac{8800}{8}$	88
000	(000)	0	0	0	0		$\frac{880}{8}$		$\overline{4444}$	88
000	(000)	0	0	0	0	(	880		8800	88
000	(000)	0	0	0	0	(	$\overline{442}$	22	$\overline{4}400$	$\overline{4}4$
000	(000)	0	0	0	0	(	$\overline{2}20$	10	$\overline{4}4\overline{4}4$	$\overline{2}2$
	(000)									
000	(000)	0	0	0	0		$\frac{7}{440}$		$\frac{1111}{4400}$	$\frac{\overline{22}}{\overline{2}2}$

003	(000)	0	0	1	0	1	$1\overline{1}00$	$1\overline{1}00$	$1\overline{1}$
006	(000)	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}00$	$2\overline{2}$
001	(000)	0	0	1	0	1	3300	3300	$3\overline{3}$
004	(000)	0	0	0	0	0	$4\overline{4}00$	$4\overline{4}00$	$4\overline{4}$
007	(000)	0	0	1	0	1	5500	5500	55
002	(000)	0	0	0	0	0	6600	6600	$\frac{6\overline{6}}{6}$
005	(000)	0	0	1	0	1	$\frac{7700}{7700}$	$\frac{7700}{}$	$\frac{3}{77}$
$\frac{-000}{010}$	(000)	0	0	0	0	0	$\frac{7700}{2200}$	$\frac{7700}{1111}$	$\frac{7}{2}$
	/							$\frac{1111}{001\overline{1}}$	$\frac{22}{11}$
013	(000)	0	0	1	0	1	1100		
016	(000)	0	0	0	0	0	0000	1111	00
011	(000)	0	0	1	0	1	1100	$2\overline{2}1\overline{1}$	11
014	(000)	0	0	0	0	0	$2\overline{2}00$	$3\overline{3}1\overline{1}$	$2\overline{2}$
017	(000)	0	0	1	0	1	$3\overline{3}00$	$4\overline{4}1\overline{1}$	33
012	(000)	0	0	0	0	0	$4\overline{4}00$	$5\overline{5}1\overline{1}$	$4\overline{4}$
015	(000)	0	0	1	0	1	$5\overline{5}00$	$6\overline{6}1\overline{1}$	$5\overline{5}$
020	(000)	0	0	0	0	0	$\overline{4}400$	$\overline{2}22\overline{2}$	$\overline{4}4$
023	(000)	0	0	1	0	1	3300	$\overline{1}12\overline{2}$	33
026	(000)	0	0	0	0	0	2200	$002\overline{2}$	$\overline{2}2$
021	(000)	0	0	1	0	1	<u>1</u> 100	$1\overline{1}2\overline{2}$	<u>1</u> 1
024	(000)	0	0	0	0	0	0000	$2\overline{2}2\overline{2}$	00
027	(000)	0	0	1	0	1	$\frac{1100}{1}$	$\frac{3\overline{3}2\overline{2}}{3\overline{3}}$	$\frac{00}{1\overline{1}}$
022	(000)	0	0	0	0	0	$\frac{1100}{2\overline{2}00}$	$\frac{3522}{4\overline{4}2\overline{2}}$	$\frac{11}{2\overline{2}}$
025	(000)	0	0	1	0	1	$\frac{2200}{3\overline{3}00}$	$\frac{5\overline{5}2\overline{2}}{5}$	$\frac{22}{3\overline{3}}$
$\frac{020}{030}$	(000)	0	0	0	0	0	<u>6</u> 600	$\frac{\overline{3333}}{\overline{3}}$	<del></del>
$\frac{-030}{033}$	(000)	0	0	1	0	1	5500	$\frac{3333}{2233}$	<u>5</u> 5
	/	0	0	0		0		$\frac{2233}{1133}$	$\frac{55}{44}$
036	(000)				0		$\frac{4400}{2000}$		
031	(000)	0	0	1	0	1	3300	0033	33
034	(000)	0	0	0	0	0	2200	$1\overline{1}3\overline{3}$	22
037	(000)	0	0	1	0	1	1100	$2\overline{2}3\overline{3}$	11
032	(000)	0	0	0	0	0	0000	3333	00
035	(000)	0	0	1	0	1	1100	$4\overline{4}3\overline{3}$	<u>1</u> 1
100	(000)	0	0	0	0	0	$\overline{3}31\overline{1}$	<u>4400</u>	<u>4</u> 4
103	(000)	0	0	1	0	1	$\overline{2}21\overline{1}$	$\bar{3}300$	33
106	(000)	0	0	0	0	0	$\overline{1}11\overline{1}$	$\overline{2}200$	$\overline{2}2$
101	(000)	0	0	1	0	1	$001\overline{1}$	$\overline{1}100$	$\overline{1}1$
104	(000)	0	0	0	0	0	$1\overline{1}1\overline{1}$	0000	00
107	(000)	0	0	1	0	1	$2\overline{2}1\overline{1}$	$1\overline{1}00$	11
102	(000)	0	0	0	0	0	$3\overline{3}1\overline{1}$	$2\overline{2}00$	$2\overline{2}$
105	(000)	0	0	1	0	1	$4\overline{4}1\overline{1}$	3300	33
110	(000)	0	0	0	0	0	$\overline{5}51\overline{1}$	$\overline{5}51\overline{1}$	<del>6</del> 6
113	(000)	0	0	1	0	1	4411	$\frac{4411}{4}$	55
116	(000)	0	0	0	0	0	3311	3311	$\frac{3}{4}$
111	(000)	0	0	1	0	1	$\overline{2211}$	$\frac{2211}{2}$	33
114	(000)	0	0	0	0	0	1111	$\frac{2211}{1111}$	$\frac{35}{22}$
$\frac{114}{117}$	(000)	0	0	1	0	1	$001\overline{1}$	$001\overline{1}$	$\frac{22}{11}$
$\frac{117}{112}$	(000)	0		0	0	0	1111	1111	00
			0						
115	(000)	0	0	1	0	1	$\frac{2\overline{2}1\overline{1}}{\overline{7}71\overline{1}}$	$\frac{2\overline{2}1\overline{1}}{\overline{6}62\overline{2}}$	$\frac{1\overline{1}}{\overline{5}0}$
120	(000)	0	0	0	0	0	7711	$\frac{\overline{6}62\overline{2}}{\overline{5}52\overline{3}}$	<u>8</u> 8
123	(000)	0	0	1	0	1	<u>6</u> 61 <u>1</u>	$\overline{5}52\overline{2}$	77
126	(000)	0	0	0	0	0	$\overline{5}51\overline{1}$	$\overline{4}42\overline{2}$	<u>6</u> 6
121	(000)	0	0	1	0	1	$\overline{441}\overline{1}$	$\overline{3}32\overline{2}$	<u>5</u> 5
124	(000)	0	0	0	0	0	$\overline{3}31\overline{1}$	$\overline{2}22\overline{2}$	$\overline{4}4$
127	(000)	0	0	1	0	1	$\overline{2}21\overline{1}$	$\overline{1}12\overline{2}$	$\overline{3}3$
122	(000)	0	0	0	0	0	$\overline{1}11\overline{1}$	$002\overline{2}$	$\overline{2}2$
125	(000)	0	0	1	0	1	$001\overline{1}$	$1\overline{1}2\overline{2}$	11
130	(000)	0	0	0	0	0	$\overline{9}91\overline{1}$	$\overline{7}73\overline{3}$	$\overline{10}, 10$
133	(000)	0	0	1	0	1	8811	$\overline{6}63\overline{3}$	99
136	(000)	0	0	0	0	0	$\overline{7}71\overline{1}$	$\overline{5}53\overline{3}$	88
131	(000)	0	0	1	0	1	6611	$\overline{443\overline{3}}$	77
-	1 \ -/		•		•				

134	(000)	0	0	0	0	0	5511	3333	<del></del>
137	(000)	0	0	1	0	1	$\overline{4}41\overline{1}$	$\overline{2}23\overline{3}$	$\overline{5}5$
132	(000)	0	0	0	0	0	$\overline{3}31\overline{1}$	$\overline{1}13\overline{3}$	$\overline{4}4$
135	(000)	0	0	1	0	1	$\overline{2}21\overline{1}$	$003\overline{3}$	$\overline{3}3$
	12	3.342 P4		Classifi	$cation = \mathbb{Z}$	$Z_M^3 X_1$	$_{\mathrm{BS}}=\mathbb{Z}_{2,4}$ S	$\mathrm{SI}=z_{2P,3}^{\prime},z_{2P,3}^{\prime}$	$z'_{4P}$
$\mathbb{Z}_{2,4}$	weak	$4^{001}*$	2 <sup>100</sup> *	i	$2^{110}$	$\bar{4}^{001}*$	$E_{\rm BS} = \mathbb{Z}_{2,4}$ $S_{\rm C} = \mathbb{Z}_{2,4}$ $Cm_{(2)}^{001}$	$Cm_{(2)}^{1\bar{1}0}$	
00	(000)	0	0	0	0	0	$\overline{2}2\overline{2}$	44	
00	(000)	0	0	0	0	0	$4\overline{4}00$	$4\overline{4}$	
00	(000)	0	0	0	0	0	$\overline{2}2\overline{2}2$	$\overline{2}2$	
00	(000)	0	0	0	0	0	0000	$2\overline{2}$	
03	(000)	1	1	1	0	0	$1\overline{1}00$	$1\overline{1}$	
02	(000)	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}$	
01	(000)	1	1	1	0	0	3300	<u>33</u>	
10	(000)	0	0	0	0	0	<u> 1111</u>	$\overline{\underline{2}}2$	
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	$2\overline{2}1\overline{1}$	$1\overline{1}$	
	123.34	13 P4'/m	nmm' Cl		on $= \mathbb{Z}_M^4$	X <sub>BS</sub> =	$= \mathbb{Z}_{2,2,4}  \text{SI}$ $m_{1\bar{1}0} *$	$=z_{2P,1}',z_{2P}'$	$z_{,3}, z_{4P}'$
$\mathbb{Z}_{2,2,4}$	weak	$4^{001}*$	$2^{100}$	i	$2^{110}*$	$\bar{4}^{001}*$	$m_{1\bar{1}0}*$	$Cm_{(\underline{2})}^{100}$	$Cm_{(2)}^{001}$
000	(000)	0	0	0	0	0	0	2222	0000
000	(000)	0	0	0	0	0	0	4400	$\overline{2}22\overline{2}$
000	(000)	0	0	0	0	0	0	$4\overline{400}$	4400
000	(000)	0	0	0	0	0	0	$\frac{00\overline{2}2}{\overline{2}200}$	$\frac{0000}{\overline{2}2\overline{2}2}$
000	(000)	0	0	0	0	0	0	<u>2</u> 200	
$\frac{003}{002}$	(000)	0	0	0	0	0	0	$\frac{1\overline{1}00}{2\overline{2}00}$	$\frac{1\overline{1}00}{2\overline{2}00}$
002	(000)	1	0	1	1	0	0	$\frac{2200}{3\overline{3}00}$	$\frac{2200}{3\overline{3}00}$
010	(000)	0	0	0	0	0	0	$\frac{3300}{2200}$	111 <u>1</u>
013	(000)	1	0	1	1	0	0	$\frac{2200}{1100}$	$\frac{1111}{001\overline{1}}$
012	(000)	0	0	0	0	0	0	0000	$\frac{\overline{1111}}{1\overline{1}}$
011	(000)	1	0	1	1	0	0	$\frac{1100}{1}$	$\frac{2\overline{2}1\overline{1}}{2}$
100	(000)	0	0	0	0	0	0	1111	0000
103	(000)	1	0	1	1	0	0	$2\overline{2}1\overline{1}$	$1\overline{1}00$
102	(000)	0	0	0	0	0	0	$3\overline{3}1\overline{1}$	$2\overline{2}00$
101	(000)	1	0	1	1	0	0	$4\overline{4}1\overline{1}$	$3\overline{3}00$
110	(000)	0	0	0	0	0	0	$\overline{1}11\overline{1}$	<u>1</u> 1111
113	(000)	1	0	1	1	0	0	$001\overline{1}$	$001\overline{1}$
112	(000)	0	0	0	0	0	0	$1\overline{1}1\overline{1}$	$1\overline{1}1\overline{1}$
111	(000)	1	0	1	1	0	0	$2\overline{2}1\overline{1}$	$2\overline{2}1\overline{1}$
				m Clas	ssification	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}*$	$2^{100}$	i*	$2^{110}*$	$\bar{4}^{001}$	$Cm_{(0)}^{110}$		
0	(000)	0	0	0	0	0	$2\overline{2}$		
0	(000)	0	0	0	0	0	$2\overline{2}$		
1	(000)	1	0	0	1	1	$1\overline{1}$		
12	3.345	P4/mm'n	n' Classi	fication =	$=\mathbb{Z}_M^2 imes\mathbb{Z}$	X <sub>BS</sub>	$= \mathbb{Z}_{4,4,4}  \text{SI}$ $m_{1\bar{1}0} *$	$=z_{4m.0}^+,z_2^-$	$z_{4m,0}^+, z_{4m,\pi}^+$
$\mathbb{Z}_{4,4,4}$	weak	$4^{001}$	$2^{100}*$	i	2110*	$\bar{4}^{001}$	$m_{1\bar{1}0}*$	$Cm_{(4)}^{001}$	,,
000	(0012)	0	0	0	0	0	0	$4, \overline{16}, 0, \overline{12}$	
000	$(00\bar{4})$	0	0	0	0	0	0	0404	
000	(000)	0	0	0	0	0	0	$004\overline{4}$	
000	(000)	0	0	0	0	0	0	$00\overline{4}4$	
001	(000)	0	1	1	1	1	0	$001\overline{1}$	
002	(000)	0	0	0	0	0	0	$002\overline{2}$	
003	(000)	0	1	1	1	1	0	$003\overline{3}$	
010	$(00\overline{1})$	0	1	1	1	1	0	0101	
011	$(00\overline{1})$	0	0	0	0	0	0	0110	
012	$(00\overline{1})$	0	1	1	1	1	0	$012\overline{1}$	
013	$(00\overline{1})$	0	0	0	0	0	0	$013\overline{2}$	

020	$(00\bar{2})$	0	0	0	0	0	0	0202
$\frac{020}{021}$	(002)	0	1	1	1	1	0	0202
$\frac{021}{022}$	$(002)$ $(00\overline{2})$	0				0	0	0211
			0	0	0			
023	$(00\overline{2})$	0	1	1	1	1	0	$023\overline{1} \\ 0303$
030	$(00\overline{3})$		1	1	1	1		
031	$(00\overline{3})$	0	0	0	0	0	0	0312
032	$(00\overline{3})$	0	1	1	1	1	0	0321
033	$(00\overline{3})$	0	0	0	0	0	0	0330
100	(003)	0	0	0	0	0	0	$1\overline{4}0\overline{3}$
101	(003)	0	1	1	1	1	0	$1\overline{4}1\overline{4}$
102	(003)	0	0	0	0	0	0	$1\overline{4}2\overline{5}$
103	(003)	0	1	1	1	1	0	$1\overline{4}3\overline{6}$
110	(002)	0	1	1	1	1	0	$1\overline{3}0\overline{2}$
111	(002)	0	0	0	0	0	0	$1\overline{3}1\overline{3}$
112	(002)	0	1	1	1	1	0	$1\overline{3}2\overline{4}$
113	(002)	0	0	0	0	0	0	$1\overline{3}3\overline{5}$
120	(001)	0	0	0	0	0	0	$1\overline{2}0\overline{1}$
121	(001)	0	1	1	1	1	0	$1\overline{2}1\overline{2}$
122	(001)	0	0	0	0	0	0	$1\overline{2}2\overline{3}$
123	(001)	0	1	1	1	1	0	$1\overline{2}3\overline{4}$
130	(000)	0	1	1	1	1	0	$1\overline{1}00$
131	(000)	0	0	0	0	0	0	1111
132	(000)	0	1	1	1	1	0	$1\overline{1}2\overline{2}$
133	(000)	0	0	0	0	0	0	$1\overline{1}3\overline{3}$
200	(006)	0	0	0	0	0	0	$\frac{280\overline{6}}{280\overline{6}}$
$\frac{200}{201}$	(006)	0	1	1	1	1	0	$\frac{2800}{2817}$
$\frac{201}{202}$	(006)	0	0	0	0	0	0	$\frac{2\overline{8}2\overline{8}}{2\overline{8}2\overline{8}}$
$\frac{202}{203}$	(006)	0	1	1	1	1	0	$\frac{2839}{2839}$
$\frac{203}{210}$	(005)	0	1	1	1	1	0	$\frac{2039}{2705}$
$\frac{210}{211}$	(005)	0	0	0	0	0	0	$\frac{2705}{271\overline{6}}$
$\frac{211}{212}$	(005)	0	1	1	1	1	0	$\frac{2710}{2727}$
$\frac{212}{213}$	(005)	0	0	0	0	0	0	$\frac{2727}{2738}$
$\frac{213}{220}$	(004)	0	0	0	0	0	0	$\frac{2\overline{136}}{2\overline{6}0\overline{4}}$
$\frac{220}{221}$	(004)	0	1	1	1	1	0	$\frac{2004}{2\overline{6}1\overline{5}}$
$\frac{221}{222}$	(004)	0	0	0	0	0	0	$\frac{2615}{2\overline{6}2\overline{6}}$
								$\frac{2626}{2637}$
223	(004)	0	1	1	1	1	0	
230	(003)	0	1	1	1	1	0	2503
231	(003)	0	0	0	0	0	0	2 <del>5</del> 1 <del>4</del>
232	(003)	0	1	1	1	1	0	$2\overline{5}2\overline{5}$
233	(003)	0	0	0	0	0	0	2536
300	(009)	0	0	0	0	0	0	$3, \overline{12}, 0, \overline{9}$
301	(009)	0	1	1	1	1	0	$3,\overline{12},1,\overline{10}$
302	(009)	0	0	0	0	0	0	$3, \overline{12}, 2, \overline{11}$
303	(009)	0	1	1	1	1	0	$3, \overline{12}, 3, \overline{12}$
310	(008)	0	1	1	1	1	0	$3, \overline{11}, 0, \overline{8}$
311	(008)	0	0	0	0	0	0	$3, \overline{11}, 1, \overline{9}$
312	(008)	0	1	1	1	1	0	$3, \overline{11}, 2, \overline{10}$
313	(008)	0	0	0	0	0	0	$3,\overline{11},3,\overline{11}$
320	(007)	0	0	0	0	0	0	$3, \overline{10}, 0, \overline{7}$
321	(007)	0	1	1	1	1	0	$3, \overline{10}, 1, \overline{8}$
322	(007)	0	0	0	0	0	0	$3, \overline{10}, 2, \overline{9}$
323	(007)	0	1	1	1	1	0	$3, \overline{10}, 3, \overline{10}$
330	(006)	0	1	1	1	1	0	$3\overline{9}0\overline{6}$
331	(006)	0	0	0	0	0	0	$3\overline{9}1\overline{7}$
332	(006)	0	1	1	1	1	0	$3\overline{9}2\overline{8}$
333	(006)	0	0	0	0	0	0	$3\overline{9}3\overline{9}$
	1 \ /	123.346	P4'/m'mm	' C1	assification =	= 7/2 -	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$
$\overline{\mathbb{Z}_2}$	weak	$4^{001}*$	14/11111111111111111111111111111111111	i*	$\frac{2^{110}}{2^{110}}$	$\frac{-2 M}{4^{001}}$		$\frac{S1 - z_{2,S_{4}}}{Cm_{(0)}^{100}}$
2	wear	T *	<i>△</i> ↑	<i>0</i> ↑	4	7	$m_{1\bar{1}0}*$	<i>○111</i> (0)

	(000)	0	0	0	0		0	2000		
0	(000)	0	0	0	0	0	0	$\frac{2\overline{2}00}{1\overline{1}1\overline{1}}$		
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		
	1:	$23.348 P_c$	4/mmm	Classif	ication = 1	$\mathbb{Z}_M^4$ X <sub>I</sub>	$_{\mathrm{BS}}=\mathbb{Z}_{2,8}$	$SI = z'_{2P,1},$ $Cm^{100}_{(2)}$	$z_8$	
$\mathbb{Z}_{2,8}$	weak	$\{1 00\frac{1}{2}\}*$	$4^{001}$	$2^{100}$	i	$2^{110}$	$\bar{4}^{001}$	$Cm_{(2)}^{100}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{1\bar{1}0}$
$\frac{-2,6}{00}$	(000)	0	0	0	0	0	0	$\frac{662\overline{2}}{662\overline{2}}$	8800	88
00	(000)	0	0	0	0	0	0	8800	8800	88
00				0		0	0	$\frac{3300}{44\overline{2}2}$	$\frac{3300}{4400}$	$\frac{36}{44}$
	(000)	0	0		0					
00	(000)	0	0	0	0	0	0	<u>2</u> 200	0000	$\overline{2}2$
00	(000)	0	0	0	0	0	0	4400	<u>4400</u>	$\overline{2}2$
03	(000)	1	0	0	1	0	1	$1\overline{1}00$	$1\overline{1}00$	$1\overline{1}$
06	(000)	0	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}00$	$2\overline{2}$
01	(000)	1	0	0	1	0	1	$3\overline{3}00$	$3\overline{3}00$	$3\overline{3}$
04	(000)	0	0	0	0	0	0	$4\overline{4}00$	$4\overline{4}00$	$4\overline{4}$
07	(000)	1	0	0	1	0	1	$5\overline{5}00$	$5\overline{5}00$	$5\overline{5}$
02	(000)	0	0	0	0	0	0	$6\overline{6}00$	$6\overline{6}00$	$\overline{66}$
05	(000)	1	0	0	1	0	1	$7\overline{7}00$	$7\overline{7}00$	$7\overline{7}$
10	(000)	0	0	0	0	0	0	$\overline{3}31\overline{1}$	$\overline{4}400$	$\overline{44}$
13	(000)	1	0	0	1	0	1	$\overline{2}21\overline{1}$	3300	33
16	(000)	0	0	0	0	0	0	1111	$\frac{2200}{2}$	$\frac{\overline{2}}{2}$
11	(000)	1	0	0	1	0	1	$001\overline{1}$	$\frac{2200}{1100}$	$\frac{22}{11}$
$\frac{11}{14}$	(000)	0	0	0	0	0	0	$\frac{0011}{1\overline{1}1\overline{1}}$	0000	00
$\frac{14}{17}$	(000)	1			1	0	1			$\frac{00}{1\overline{1}}$
	/ /		0	0				$\frac{2211}{3\overline{3}1\overline{1}}$	1100	$\frac{11}{2\overline{2}}$
12	(000)	0	0	0	0	0	0		$\frac{2\overline{2}00}{2\overline{2}00}$	
15	(000)	1	0	0	1	0	1	$4\overline{4}1\overline{1}$	3300	$3\overline{3}$
	12	$23.349 \ P_{C}$	4/mmm	Classif	ication = 1	$\mathbb{Z}_M^4$ X <sub>I</sub>	$_{\mathrm{BS}}=\mathbb{Z}_{4,8}$	$\mathrm{SI}=z_{4m,\pi}^+$	$, z_8$	
		(41110)	001	$2^{110}$		-010	-001	~ 110	$\alpha = 001$	$\alpha = 100$
$\mathbb{Z}_{4,8}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{001}$	2110	i	$2^{010}$	$\bar{4}^{001}$	$Cm_{(2)}^{110}$	$Cm_{(4)}^{\circ\circ}$	$Cm_{(2)}$
$\frac{\mathbb{Z}_{4,8}}{00}$	(000)	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	0	0	$\frac{\imath}{0}$	0	$\frac{4^{001}}{0}$	$\frac{Cm_{(2)}^{110}}{\bar{8}8}$	$\frac{Cm_{(4)}^{001}}{\overline{4}44\overline{4}}$	$\frac{Cm_{(2)}^{100}}{8800}$
	(000)							88	$\overline{4444}$	8800
00	(000)	0	0	0	0	0	0	88 $88$	$\frac{\overline{4}44\overline{4}}{8\overline{8}00}$	8800 8800
00 00 00	(000) (000) (000)	0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0	$ \begin{array}{r}     \overline{88} \\     8\overline{8} \\     \overline{22} \end{array} $	$   \begin{array}{r}     \overline{4444} \\     8\overline{8}00 \\     \overline{4400}   \end{array} $	
00 00 00 00	(000) (000) (000) (000)	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	$ \begin{array}{r}     \overline{88} \\     8\overline{8} \\     \overline{22} \\     \overline{66} \end{array} $	$     \begin{array}{r}             \hline             444\overline{4} \\             8800 \\             \hline             4400 \\             \hline             \hline          $	
00 00 00 00 00	(000) (000) (000) (000) (000)	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	$ \begin{array}{r}     \overline{88} \\     \underline{88} \\     \overline{22} \\     \overline{66} \\     \overline{44} \end{array} $	$     \begin{array}{r}       \hline       444\overline{4} \\       8800 \\       \hline       4400 \\       \hline       66\overline{2}2 \\       \hline       4400     \end{array} $	$   \begin{array}{r}                                     $
00 00 00 00 00 00 03	(000) (000) (000) (000) (000)	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	$ \begin{array}{r}                                     $	$     \begin{array}{r}       \hline       444\overline{4} \\       8800 \\       \hline       4400 \\       \hline       66\overline{2}2 \\       \hline       4400 \\       \hline       1\overline{1}00 \\     \end{array} $	$   \begin{array}{r}                                     $
00 00 00 00 00 00 03 06	(000) (000) (000) (000) (000) (000)	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 1	0 0 0 0 0 0	0 0 0 0 0 0 1	$ \begin{array}{r}                                     $	$     \begin{array}{r}       \hline       444\overline{4} \\       8800 \\       \hline       4400 \\       \hline       66\overline{2}2 \\       \hline       4400 \\       \hline       1\overline{1}00 \\       \hline       2\overline{2}00 \\     \end{array} $	$     \begin{array}{r}                                     $
00 00 00 00 00 00 03 06 01	(000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 1 0	0 0 0 0 0 0 0	0 0 0 0 0 0 1 0	$ \begin{array}{r}                                     $	$\begin{array}{c} \overline{4444} \\ 8\overline{8}00 \\ \overline{4}400 \\ \overline{6}6\overline{2}2 \\ \overline{4}400 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \end{array}$	$\begin{array}{c} \overline{8}800 \\ 8\overline{8}00 \\ \hline 4400 \\ \hline \overline{6}600 \\ \hline 2200 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \end{array}$
00 00 00 00 00 00 03 06 01 04	(000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 1	$ \begin{array}{r}                                     $	$\begin{array}{r} \overline{4444} \\ 8\overline{8}00 \\ \overline{4}400 \\ \overline{6}6\overline{2}2 \\ \overline{4}400 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ 4\overline{4}00 \end{array}$	$\begin{array}{c} \overline{8}800 \\ 8\overline{8}00 \\ \hline 4400 \\ \hline 6600 \\ \hline 2200 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \end{array}$
00 00 00 00 00 03 06 01 04	(000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 1 0	$ \begin{array}{r}                                     $	$\begin{array}{c} \overline{4444} \\ 8800 \\ \overline{4400} \\ \overline{6622} \\ \overline{4400} \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ 4\overline{400} \\ 5\overline{500} \end{array}$	$\begin{array}{c} \overline{8}800 \\ \underline{8}800 \\ \hline 4400 \\ \overline{6}600 \\ \hline 2200 \\ 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \end{array}$
00 00 00 00 00 03 06 01 04 07	(000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1	$ \begin{array}{r}                                     $	$\begin{array}{r} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 6622 \\ \hline 4400 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \end{array}$	$\begin{array}{c} \overline{8}800 \\ \underline{8}800 \\ \hline 4400 \\ \overline{6}600 \\ \hline 2200 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ 4\overline{4}00 \\ 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \end{array}$
00 00 00 00 00 03 06 01 04 07 02	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0	$ \begin{array}{r}                                     $	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 6622 \\ \hline 4400 \\ \hline 1\overline{1}00 \\ \hline 2200 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \end{array}$	$\begin{array}{c} \overline{8}800 \\ \hline 8800 \\ \hline 8800 \\ \hline 4400 \\ \hline 6600 \\ \hline 2200 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1	$ \begin{array}{r}                                     $	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 6622 \\ \hline 4400 \\ \hline 1\overline{1}00 \\ \hline 2200 \\ \hline 3300 \\ \hline 4400 \\ \hline 5500 \\ \hline 6600 \\ \hline 7700 \\ \hline \hline 111\overline{1} \\ \end{array}$	$\begin{array}{c} \overline{8}800 \\ 8\overline{8}00 \\ \hline 4400 \\ \overline{6}600 \\ \hline 2200 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ 4\overline{4}00 \\ \overline{5}\overline{5}00 \\ \overline{6}\overline{6}00 \\ \hline 7\overline{7}00 \\ \overline{2}200 \\ \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05 10	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0	$ \begin{array}{r}                                     $	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 66\overline{622} \\ \hline 4400 \\ \hline 1\overline{100} \\ 2\overline{200} \\ \hline 3\overline{300} \\ \hline 4\overline{400} \\ \hline 5\overline{500} \\ \hline 6\overline{600} \\ \hline 7\overline{700} \\ \hline \overline{1111} \\ \hline 001\overline{1} \\ \end{array}$	$\begin{array}{c} \overline{8}800 \\ 8\overline{8}00 \\ \hline 4400 \\ \hline 6600 \\ \hline 2200 \\ \hline 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \hline \overline{2}200 \\ \hline \overline{1}100 \\ \hline \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05 10 13	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0	$ \begin{array}{r}                                     $	$\begin{array}{c} \overline{4444} \\ 8800 \\ \overline{4400} \\ \overline{6622} \\ \overline{4400} \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \overline{4400} \\ 5\overline{500} \\ \overline{6600} \\ 7\overline{700} \\ \overline{1111} \\ 001\overline{1} \\ \overline{1111} \\ \end{array}$	$\begin{array}{c} \overline{8}800 \\ 8\overline{8}00 \\ \hline 8\overline{8}00 \\ \hline 4400 \\ \hline 6600 \\ \hline 2200 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \hline 2200 \\ \hline \overline{1}100 \\ \hline 0000 \\ \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05 10	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0	$ \begin{array}{r}                                     $	$\begin{array}{c} \overline{4444} \\ 8800 \\ \overline{4400} \\ \overline{6622} \\ \overline{4400} \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ 4\overline{400} \\ \overline{5500} \\ \overline{6600} \\ \overline{7700} \\ \overline{1111} \\ 001\overline{1} \\ 1\overline{111} \\ 2\overline{211} \\ \end{array}$	$\begin{array}{c} \overline{8}800 \\ \hline 8800 \\ \hline 8800 \\ \hline 4400 \\ \hline 6600 \\ \hline 2200 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \hline 2200 \\ \hline 1\overline{1}00 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0	$\begin{array}{c c} \hline 88 \\ \hline \hline 88 \\ \hline \hline 22 \\ \hline 66 \\ \hline 44 \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ \hline 44 \\ \hline 55 \\ \hline 66 \\ \hline 77 \\ \hline 22 \\ \hline 11 \\ \hline 00 \\ \hline 11 \\ \hline 22 \\ \hline \end{array}$	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 66\overline{22} \\ \hline 4400 \\ \hline 1\overline{100} \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ \hline 1\overline{1}1\overline{1} \\ \hline 2\overline{2}1\overline{1} \\ \hline 3\overline{3}1\overline{1} \\ \end{array}$	$\begin{array}{c} \overline{8}800 \\ \hline 8800 \\ \hline 8800 \\ \hline 4400 \\ \hline 6600 \\ \hline 2200 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4400 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \hline 2200 \\ \hline 1\overline{1}00 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05 10 13 16	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0	$ \begin{array}{r}                                     $	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 66\overline{2}2 \\ \hline 4400 \\ \hline 1\overline{100} \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ \hline 1\overline{1}1\overline{1} \\ \hline 2\overline{2}1\overline{1} \\ \hline 3\overline{3}1\overline{1} \\ \hline 4\overline{4}1\overline{1} \\ \end{array}$	$\begin{array}{c} 8800 \\ \hline 8800 \\ \hline 8800 \\ \hline 4400 \\ \hline 6600 \\ \hline 2200 \\ \hline 1\overline{100} \\ \hline 2\overline{200} \\ \hline 3\overline{300} \\ \hline 4\overline{400} \\ \hline 5\overline{500} \\ \hline 6\overline{600} \\ \hline 7\overline{700} \\ \hline 2200 \\ \hline 1\overline{100} \\ \hline 0000 \\ \hline 1\overline{100} \\ \hline \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c c} \hline 88 \\ \hline \hline 88 \\ \hline \hline 22 \\ \hline 66 \\ \hline 44 \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ \hline 44 \\ \hline 55 \\ \hline 66 \\ \hline 77 \\ \hline 22 \\ \hline 11 \\ \hline 00 \\ \hline 11 \\ \hline 22 \\ \hline \end{array}$	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 66\overline{22} \\ \hline 4400 \\ \hline 1\overline{100} \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ \hline 1\overline{1}1\overline{1} \\ \hline 2\overline{2}1\overline{1} \\ \hline 3\overline{3}1\overline{1} \\ \end{array}$	$\begin{array}{c} \overline{8}800 \\ \hline 8800 \\ \hline 8800 \\ \hline 4400 \\ \hline 6600 \\ \hline 2200 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4400 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \hline 2200 \\ \hline 1\overline{1}00 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c c} \hline 88 \\ \hline 88 \\ \hline \hline 22 \\ \hline 66 \\ \hline 44 \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ \hline 44 \\ \hline 55 \\ \hline 66 \\ \hline 77 \\ \hline 22 \\ \hline 11 \\ \hline 00 \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ \hline \end{array}$	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 66\overline{2}2 \\ \hline 4400 \\ \hline 1\overline{100} \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ \hline 1\overline{1}1\overline{1} \\ \hline 2\overline{2}1\overline{1} \\ \hline 3\overline{3}1\overline{1} \\ \hline 4\overline{4}1\overline{1} \\ \end{array}$	$\begin{array}{c} \overline{8}800 \\ \hline 8800 \\ \hline 8800 \\ \hline 4400 \\ \hline 6600 \\ \hline 2200 \\ \hline 1\overline{100} \\ \hline 2\overline{200} \\ \hline 3\overline{3}00 \\ \hline 4400 \\ \hline 5\overline{5}00 \\ \hline 6600 \\ \hline 7\overline{7}00 \\ \hline 2200 \\ \hline 1\overline{100} \\ \hline 0000 \\ \hline 1\overline{100} \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11 14	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c c} \hline 88 \\ \hline 88 \\ \hline \hline 22 \\ \hline 66 \\ \hline 44 \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ \hline 44 \\ \hline 55 \\ \hline 66 \\ \hline 77 \\ \hline 22 \\ \hline 11 \\ \hline 00 \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ \hline 44 \\ \hline \end{array}$	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 66\overline{22} \\ \hline 4400 \\ \hline 1\overline{100} \\ \hline 2\overline{200} \\ \hline 3\overline{3}00 \\ \hline 4400 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ \hline 1\overline{1}1\overline{1} \\ \hline 2\overline{2}1\overline{1} \\ \hline 3\overline{3}1\overline{1} \\ \hline 4\overline{4}1\overline{1} \\ \hline 5\overline{5}1\overline{1} \\ \end{array}$	$\begin{array}{c} \overline{8}800 \\ \hline 8800 \\ \hline 8800 \\ \hline 4400 \\ \hline 6600 \\ \hline 2200 \\ \hline 1\overline{100} \\ \hline 2\overline{200} \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{100} \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11 14 17	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$ \begin{array}{r}                                     $	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 66\overline{22} \\ \hline 4400 \\ \hline 1\overline{100} \\ \hline 2\overline{200} \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ \hline 1\overline{1}11 \\ \hline 2\overline{2}1\overline{1} \\ \hline 3\overline{3}1\overline{1} \\ \hline 4\overline{4}1\overline{1} \\ \hline 5\overline{5}1\overline{1} \\ \hline 661\overline{1} \\ \end{array}$	$\begin{array}{c} \overline{8}800 \\ \hline 8800 \\ \hline 8800 \\ \hline \hline 4400 \\ \hline \hline 6600 \\ \hline 2200 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6600 \\ \hline 7\overline{7}00 \\ \hline 2\overline{2}00 \\ \hline 1100 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11 14 17 12 15 20 23	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$ \begin{array}{r}                                     $	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 6622 \\ \hline 4400 \\ \hline 1\overline{100} \\ 2\overline{200} \\ \hline 3\overline{300} \\ 4\overline{400} \\ 5\overline{500} \\ \hline 6\overline{600} \\ 7\overline{700} \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ 1\overline{11} \\ \hline 2\overline{211} \\ \hline 3\overline{311} \\ \hline 4\overline{411} \\ \hline 5\overline{511} \\ \hline 6\overline{611} \\ \hline 222\overline{2} \\ \hline 112\overline{2} \\ \hline \end{array}$	$\begin{array}{c} \overline{8}800 \\ \hline 8800 \\ \hline 8800 \\ \hline \hline 8800 \\ \hline \hline 4400 \\ \hline \hline 6600 \\ \hline \hline 2200 \\ \hline \hline 1100 \\ \hline 2200 \\ \hline \hline 3300 \\ \hline 4400 \\ \hline \hline 5500 \\ \hline \hline 6600 \\ \hline 7700 \\ \hline \hline 2200 \\ \hline \hline 1100 \\ \hline 0000 \\ \hline 1100 \\ \hline 2200 \\ \hline \hline 3300 \\ \hline 4400 \\ \hline 5500 \\ \hline 4400 \\ \hline \hline 3300 \\ \hline \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11 14 17 12 15 20 23 26	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c c} 88 \\ \hline 88 \\ \hline \\ 88 \\ \hline \\ 22 \\ \hline \\ 66 \\ \hline \\ 44 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 33 \\ \hline \\ 44 \\ \hline \\ 55 \\ \hline \\ 66 \\ \hline \\ 77 \\ \hline \\ 22 \\ \hline \\ 11 \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 33 \\ \hline \\ 44 \\ \hline \\ 55 \\ \hline \\ 44 \\ \hline \\ 33 \\ \hline \\ 22 \\ \\ \end{array}$	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 6622 \\ \hline 4400 \\ \hline 1\overline{100} \\ 2\overline{200} \\ \hline 3\overline{300} \\ 4\overline{400} \\ 5\overline{500} \\ \hline 6\overline{600} \\ \hline 7\overline{700} \\ \hline 111\overline{1} \\ \hline 201\overline{1} \\ \hline 111\overline{1} \\ \hline 221\overline{1} \\ \hline 3\overline{3}1\overline{1} \\ \hline 4\overline{4}1\overline{1} \\ \hline 5\overline{5}1\overline{1} \\ \hline 6\overline{6}1\overline{1} \\ \hline 222\overline{2} \\ \hline 112\overline{2} \\ \hline 002\overline{2} \\ \hline \end{array}$	$\begin{array}{c} \overline{8}800 \\ \hline 8800 \\ \hline 8800 \\ \hline \hline 8800 \\ \hline \hline 4400 \\ \hline \hline 6600 \\ \hline \hline 2200 \\ \hline \hline 1100 \\ \hline 2200 \\ \hline \hline 3300 \\ \hline 4400 \\ \hline \hline 5500 \\ \hline \hline 6600 \\ \hline 7700 \\ \hline \hline 2200 \\ \hline \hline 1100 \\ \hline 0000 \\ \hline 1100 \\ \hline 2200 \\ \hline 3300 \\ \hline 4400 \\ \hline \hline 5500 \\ \hline 4400 \\ \hline \hline 3300 \\ \hline 2200 \\ \hline \end{array}$
00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11 14 17 12 15 20 23 26 21	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c c} 88 \\ \hline 88 \\ \hline \\ 22 \\ \hline \\ 66 \\ \hline \\ 44 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 3\overline{3} \\ \hline \\ 44 \\ \hline \\ 5\overline{5} \\ \hline \\ 6\overline{6} \\ \hline \\ 7\overline{7} \\ \hline \\ 22 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 3\overline{3} \\ \hline \\ 44 \\ \hline \\ 5\overline{5} \\ \hline \\ 44 \\ \hline \\ 33 \\ \hline \\ 22 \\ \hline \\ \overline{1}1 \\ \\ \end{array}$	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 6622 \\ \hline 4400 \\ \hline 1\overline{100} \\ 2\overline{200} \\ \hline 3\overline{300} \\ 4\overline{400} \\ 5\overline{500} \\ \hline 6\overline{600} \\ \hline 7\overline{700} \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ \hline 1\overline{111} \\ \hline 2\overline{211} \\ \hline 3\overline{3}1\overline{1} \\ \hline 4\overline{4}1\overline{1} \\ \hline 5\overline{5}1\overline{1} \\ \hline 6\overline{6}1\overline{1} \\ \hline 222\overline{2} \\ \hline 112\overline{2} \\ \hline 002\overline{2} \\ \hline 1\overline{1}2\overline{2} \\ \hline \end{array}$	$\begin{array}{c} \overline{8}800 \\ \hline 8800 \\ \hline 8800 \\ \hline 4400 \\ \hline 6600 \\ \hline 2200 \\ \hline 1\overline{100} \\ \hline 2\overline{200} \\ \hline 3\overline{300} \\ \hline 4\overline{400} \\ \hline 5\overline{500} \\ \hline 6\overline{600} \\ \hline 7\overline{700} \\ \hline 2\overline{200} \\ \hline 1\overline{100} \\ \hline 0000 \\ \hline 1\overline{100} \\ \hline 2\overline{200} \\ \hline 3\overline{300} \\ \hline 4\overline{400} \\ \hline 5\overline{500} \\ \hline 4\overline{400} \\ \hline 3\overline{300} \\ \hline 2\overline{200} \\ \hline \overline{1100} \\ \hline \end{array}$
00 00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11 14 17 12 20 23 26 21 24	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c c} 88 \\ \hline 88 \\ \hline \\ 88 \\ \hline \\ 22 \\ \hline \\ 66 \\ \hline \\ 44 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 33 \\ \hline \\ 44 \\ \hline \\ 55 \\ \hline \\ 66 \\ \hline \\ 77 \\ \hline \\ 22 \\ \hline \\ 11 \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 33 \\ \hline \\ 44 \\ \hline \\ 55 \\ \hline \\ 44 \\ \hline \\ 33 \\ \hline \\ 22 \\ \hline \\ \hline \\ 11 \\ 00 \\ \hline \end{array}$	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 6622 \\ \hline 4400 \\ \hline 1\overline{100} \\ 2\overline{200} \\ \hline 3\overline{300} \\ 4\overline{400} \\ \hline 5\overline{500} \\ \hline 6\overline{600} \\ \hline 7\overline{700} \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ \hline 1\overline{111} \\ \hline 2\overline{211} \\ \hline 3\overline{3}1\overline{1} \\ \hline 4\overline{4}1\overline{1} \\ \hline 5\overline{5}1\overline{1} \\ \hline 6\overline{6}1\overline{1} \\ \hline 222\overline{2} \\ \hline 112\overline{2} \\ \hline 002\overline{2} \\ \hline 1\overline{122} \\ \hline 2\overline{222} \\ \hline \end{array}$	\$800 \$800 \$800 \$4400 \$6600 \$2200 \$1100 \$2200 \$3300 \$4400 \$5500 \$6600 \$7700 \$2200 \$1100 \$0000 \$1100 \$2200 \$4400 \$5500 \$65000 \$65000
00 00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11 14 17 12 21 20 23 26 21 24	(000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c c} 88 \\ \hline 88 \\ \hline \\ 22 \\ \hline \\ 66 \\ \hline \\ 44 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 3\overline{3} \\ \hline \\ 44 \\ \hline \\ 5\overline{5} \\ \hline \\ 6\overline{6} \\ \hline \\ 7\overline{7} \\ \hline \\ \overline{2}2 \\ \hline \\ \overline{1}1 \\ \hline \\ 00 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 3\overline{3} \\ \hline \\ 44 \\ \hline \\ 5\overline{5} \\ \hline \\ 44 \\ \hline \\ 33 \\ \hline \\ \overline{2}2 \\ \hline \\ \overline{1}1 \\ \hline \\ 00 \\ \hline \\ 1\overline{1} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 1\overline{1} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 1\overline{1} \\ 1\overline{1} \\ \hline \\ 1\overline{1} $	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 6622 \\ \hline 4400 \\ \hline 1\overline{100} \\ \hline 2200 \\ \hline 3300 \\ \hline 4400 \\ \hline 5500 \\ \hline 6600 \\ \hline 7700 \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ \hline 1\overline{1}1\overline{1} \\ \hline 221\overline{1} \\ \hline 3\overline{3}1\overline{1} \\ \hline 441\overline{1} \\ \hline 551\overline{1} \\ \hline 661\overline{1} \\ \hline 222\overline{2} \\ \hline 112\overline{2} \\ \hline 002\overline{2} \\ \hline 1\overline{2}2 \\ \hline 2\overline{2}2\overline{2} \\ \hline 3\overline{3}2\overline{2} \\ \hline \end{array}$	8800           8800           4400           6600           2200           1100           2200           3300           4400           5500           6600           7700           2200           1100           0000           1100           2500           3300           4400           3300           2200           1100           0000           1100
00 00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11 14 17 12 20 23 26 21 24 27	(000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c c} 88 \\ \hline 88 \\ \hline \\ 22 \\ \hline \\ 66 \\ \hline \\ 44 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 3\overline{3} \\ \hline \\ 44 \\ \hline \\ 5\overline{5} \\ \hline \\ 6\overline{6} \\ \hline \\ 7\overline{7} \\ \hline \\ \overline{2}2 \\ \hline \\ 11 \\ 00 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 3\overline{3} \\ \hline \\ 4\overline{4} \\ \hline \\ 5\overline{5} \\ \hline \\ 44 \\ \hline \\ 33 \\ \hline \\ 22 \\ \hline \\ 11 \\ 00 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{1} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ \overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ \overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ \overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ \overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ \overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ \overline{2} \\ \overline{2} \\ \hline \\ \overline{2} \\ \overline{2} \\ \hline \\ \overline{2} \\ \overline$	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 6622 \\ \hline 4400 \\ \hline 1\overline{100} \\ \hline 2200 \\ \hline 3300 \\ \hline 4400 \\ \hline 5500 \\ \hline 6600 \\ \hline 7700 \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ \hline 111\overline{1} \\ \hline 221\overline{1} \\ \hline 3\overline{3}1\overline{1} \\ \hline 441\overline{1} \\ \hline 551\overline{1} \\ \hline 661\overline{1} \\ \hline 222\overline{2} \\ \hline 112\overline{2} \\ \hline 002\overline{2} \\ \hline 1\overline{2}2 \\ \hline 2\overline{2}2\overline{2} \\ \hline 3\overline{3}2\overline{2} \\ \hline 4\overline{4}22 \\ \hline \end{array}$	8800           8800           4400           6600           2200           1100           2200           3300           4400           5500           6600           7700           2200           1100           0000           1100           2200           4400           3300           2200           1100           0000           1100           2200           1100           2200
00 00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11 14 17 12 23 26 21 24 27 22 25	(000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c c} 88 \\ \hline 88 \\ \hline \\ 88 \\ \hline \\ 22 \\ \hline \\ 66 \\ \hline \\ 44 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 33 \\ \hline \\ 44 \\ \hline \\ 5\overline{5} \\ \hline \\ 66 \\ \hline \\ 7\overline{7} \\ \hline \\ \overline{2}2 \\ \hline \\ \overline{1}1 \\ \hline \\ 00 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 33 \\ \hline \\ 44 \\ \hline \\ 5\overline{5} \\ \hline \\ 44 \\ \hline \\ 33 \\ \hline \\ \overline{2}2 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 3\overline{3} \\ \hline \\ 33 \\ \hline \\ 22 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 3\overline{3} \\ \hline \\ 3\overline{3} \\ \hline \\ 3\overline{3} \\ \hline \\ 2\overline{2} \\ \hline \\ 3\overline{3} \\ \hline \\ \\ \\ 3\overline{3} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 66622 \\ \hline 4400 \\ \hline 1\overline{100} \\ \hline 2200 \\ \hline 3300 \\ \hline 4400 \\ \hline 5500 \\ \hline 6600 \\ \hline 7700 \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ \hline 1\overline{1}\overline{1} \\ \hline 221\overline{1} \\ \hline 331\overline{1} \\ \hline 441\overline{1} \\ \hline 551\overline{1} \\ \hline 661\overline{1} \\ \hline 222\overline{2} \\ \hline 122 \\ \hline 002\overline{2} \\ \hline 1\overline{122} \\ \hline 222\overline{2} \\ \hline 332\overline{2} \\ \hline 442\overline{2} \\ \hline 552\overline{2} \\ \end{array}$	\$800 \$800 \$800 \$4400 \$6600 \$2200 \$1100 \$2200 \$3300 \$4400 \$5500 \$6600 \$7700 \$2200 \$1100 \$0000 \$1100 \$2200 \$4400 \$5500 \$4500 \$4500 \$5500 \$4500 \$5500 \$4500 \$5500 \$4500 \$55000 \$55000 \$55000 \$55000 \$55000 \$55000 \$55000 \$55000 \$55000 \$55000 \$5
00 00 00 00 00 00 03 06 01 04 07 02 05 10 13 16 11 14 17 12 20 23 26 21 24 27	(000) (000)	0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c c} 88 \\ \hline 88 \\ \hline \\ 22 \\ \hline \\ 66 \\ \hline \\ 44 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 3\overline{3} \\ \hline \\ 44 \\ \hline \\ 5\overline{5} \\ \hline \\ 6\overline{6} \\ \hline \\ 7\overline{7} \\ \hline \\ \overline{2}2 \\ \hline \\ 11 \\ 00 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 3\overline{3} \\ \hline \\ 4\overline{4} \\ \hline \\ 5\overline{5} \\ \hline \\ 44 \\ \hline \\ 33 \\ \hline \\ 22 \\ \hline \\ 11 \\ 00 \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{1} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ \overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ \overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ \overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ \overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ \overline{1} \\ \hline \\ 2\overline{2} \\ \hline \\ \overline{2} \\ \overline{2} \\ \hline \\ \overline{2} \\ \overline{2} \\ \hline \\ \overline{2} \\ \overline$	$\begin{array}{c} \overline{4444} \\ 8800 \\ \hline 4400 \\ \hline 6622 \\ \hline 4400 \\ \hline 1\overline{100} \\ \hline 2200 \\ \hline 3300 \\ \hline 4400 \\ \hline 5500 \\ \hline 6600 \\ \hline 7700 \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ \hline 111\overline{1} \\ \hline 221\overline{1} \\ \hline 3\overline{3}1\overline{1} \\ \hline 441\overline{1} \\ \hline 551\overline{1} \\ \hline 661\overline{1} \\ \hline 222\overline{2} \\ \hline 112\overline{2} \\ \hline 002\overline{2} \\ \hline 1\overline{2}2 \\ \hline 2\overline{2}2\overline{2} \\ \hline 3\overline{3}2\overline{2} \\ \hline 4\overline{4}22 \\ \hline \end{array}$	8800           8800           4400           6600           2200           1100           2200           3300           4400           5500           6600           7700           2200           1100           0000           1100           2200           4400           3300           2200           1100           0000           1100           2200           1100           2200

36	(000)	0	0	0	0	0	0	$\overline{4}4$	1133	4400
31	(000)	1	0	0	1	0	1	33	$003\bar{3}$	3300
34	(000)	0	0	0	0	0	0	$\overline{2}2$	$1\overline{1}3\overline{3}$	$\overline{2}200$
37	(000)	1	0	0	1	0	1	$\overline{1}1$	$2\overline{2}3\overline{3}$	$\overline{1}100$
32	(000)	0	0	0	0	0	0	00	$3\overline{3}3\overline{3}$	0000
35	(000)	1	0	0	1	0	1	$1\overline{1}$	$4\overline{4}3\overline{3}$	$1\overline{1}00$
		123.350	$P_I4/mmr$	n C	assification	$=\mathbb{Z}_{M}^{3}$	$X_{BS} = \mathbb{Z}_8$			
$\mathbb{Z}_8$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	4 <sup>001</sup>	$2^{100}$	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	$\overline{2}200$	$\overline{4}400$	$\overline{4}4$
0	(000)	0	0	0	0	0	0	2200	0000	$\overline{2}2$
0	(000)	0	0	0	0	0	0	4400	4400	$\frac{\overline{2}2}{\overline{1}}$
3	(000)	1	0	0	1	0	1	$\frac{1\overline{100}}{2\overline{200}}$	1100	$\frac{1\overline{1}}{2\overline{2}}$
6	(000)	0	0	0	0	0	0	$\frac{2\overline{2}00}{2\overline{2}00}$	$\frac{2\overline{2}00}{2\overline{2}00}$	$\frac{2\overline{2}}{2\overline{2}}$
$\frac{1}{4}$	(000)	0	0	0	0	0	1 0	$\frac{3\overline{3}00}{4\overline{4}00}$	$\frac{3\overline{3}00}{4\overline{4}00}$	$\frac{3\overline{3}}{4\overline{4}}$
$\frac{4}{7}$	(000)	1	0	0	1	0	1	$\frac{4400}{5500}$	$\frac{4400}{5\overline{5}00}$	$\frac{44}{55}$
$\frac{7}{2}$	(000)	0	0	0	0	0	0	6 <del>6</del> 00	6 <del>6</del> 00	$\frac{\overline{66}}{66}$
$\frac{2}{5}$	(000)	1	0	0	1	0	1	$\frac{6600}{7700}$	$\frac{6600}{7700}$	$\frac{66}{77}$
	(300)	124.351	P4/mcc		sification = 1				1100	
	1	$\frac{124.351}{4^{001}}$				$\frac{\mathbb{Z}M}{\overline{4}^{001}}$	110	$SI = z_{4m,0}^+$		
$\mathbb{Z}_4$	weak		$2_{00\frac{1}{2}}^{100}$	i	$2_{00\frac{1}{2}}^{110}$		$g_{00\frac{1}{2}}$	$Cm_{(4)}^{001}$		
0	(000)	0	0	0	0	0	0	$4\overline{4}00$		
0	(000)	0	0	0	0	0	0	0000		
$\frac{1}{2}$	(000)	0	0	$\frac{1}{0}$	0	0	1 0	$\frac{1100}{2\overline{2}00}$		
$\frac{2}{3}$	(000)	0	0	1	0	1	1	$\frac{2200}{3\overline{3}00}$		
	(000)									
	1	$124.354$ $4^{001}*$	P4'/mc'c		ssification = $2^{110}_{221}$	$\frac{\mathbb{Z}_M}{\bar{4}^{001}*}$	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$		
$\mathbb{Z}_4$	weak	4001*	$2^{100}_{00\frac{1}{2}}*$	i	$2_{00\frac{1}{2}}^{110}$	4001*	$g_{00\frac{1}{2}}^{110}$	$Cm_{(2)}^{001}$		
							- 2			
0	(000)	0	0	0	0	0	0	$4\overline{4}00$		
0	(000)	0	0	0	0	0	0	$\frac{4\overline{4}00}{0000}$		
0 3	(000)	0	0 0 1	0	0	0	0 0 1	$     \begin{array}{r}       4\overline{4}00 \\       0000 \\       1\overline{1}00     \end{array} $		
$ \begin{array}{c c} 0\\ \hline 3\\ \hline 2 \end{array} $	(000) (000) (000)	0 1 0	0 0 1 0	0 1 0	0 0 0	0 0	0 0 1 0	$   \begin{array}{r}     4\overline{400} \\     0000 \\     1\overline{100} \\     2\overline{200}   \end{array} $		
0 3	(000)	0 1 0 1	0 0 1 0 1	0 1 0 1	0 0 0	0 0 0 0	0 0 1 0	$ \begin{array}{r} 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \end{array} $		
$ \begin{array}{c c} \hline 0 \\ \hline 3 \\ \hline 2 \\ \hline 1 \end{array} $	(000) (000) (000) (000)	0 1 0 1 124.355	$0 \\ 0 \\ 1 \\ 0 \\ 1$ $P4'/mcc'$	0 1 0 1 Cla	0 0 0 0 ssification =	$0 \\ 0 \\ 0 \\ 0 \\ = \mathbb{Z}_M$	$0$ $0$ $1$ $0$ $1$ $X_{BS} = \mathbb{Z}_4$	$   \begin{array}{r}     4\overline{400} \\     0000 \\     1\overline{100} \\     2\overline{200} \\     3\overline{300} \\     SI = z'_{4P}   \end{array} $		
$ \begin{array}{c c} 0\\ 3\\ 2\\ 1\\ \hline \mathbb{Z}_4 \end{array} $	(000) (000) (000) (000) (000)	$ \begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c} 124.355 \\ 4^{001}* \end{array} $	$0 \\ 0 \\ 1 \\ 0 \\ 1$ $0 \\ 1$ $P4'/mcc' \\ 2^{100}_{00\frac{1}{2}}$	0 1 0 1 Cla	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} $ ssification = $\frac{2^{110}}{00\frac{1}{2}} *$	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \hline 4^{001}* \end{array} $	$0 \\ 0 \\ 1 \\ 0 \\ 1$ $0 \\ 1$ $X_{BS} = \mathbb{Z}_4$ $g_{00\frac{1}{2}}^{110} *$	$ \begin{array}{r} 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ SI = z'_{4P} \\ Cm^{001}_{(2)} \end{array} $		
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline  & \\ \hline  & \\ 0 \end{array} $	(000) (000) (000) (000) (000) weak (000)	$ \begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c} 124.355 \\ 4^{001}* \\ 0 \end{array} $	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{matrix} \\ P4'/mcc' \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ \end{matrix}$	0 1 0 1 Cla i	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ ssification = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \end{array} $	$ \begin{array}{c} 0\\0\\0\\0\\\hline 0\\\hline 4^{001}*\\ \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $ $ X_{BS} = \mathbb{Z}_4 $ $ g_{00\frac{1}{2}}^{110} * \\ 0 $	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \overline{SI} = z'_{4P} \\ Cm^{001}_{(2)} \\ 4\overline{400} \end{array}$		
$ \begin{array}{c c} \hline 0 \\ 3 \\ 2 \\ \hline 1 \\ \hline                              $	(000) (000) (000) (000) (000) weak (000) (000)	$ \begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ 124.355 \\ 4^{001}* \\ 0 \\ 0 \end{array} $	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{matrix} \\ P4'/mcc' \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \end{matrix}$	0 1 0 1 Cla i 0	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ ssification = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \hline       0 \end{array} $ $ = \mathbb{Z}_{M} \\ \overline{4}^{001} * \\ 0 \\ 0 $	$0 \\ 0 \\ 1 \\ 0 \\ 1$ $X_{BS} = \mathbb{Z}_4$ $g_{00\frac{1}{2}}^{110} *$ $0$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \overline{SI} = z'_{4P} \\ Cm^{001}_{(2)} \\ 4\overline{400} \\ 0000 \end{array}$		
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline                                $	(000) (000) (000) (000) (000) weak (000) (000)	$ \begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c} 124.355 \\ 4^{001}* \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{matrix}$ $\begin{matrix} 1 \\ P4'/mcc' \\ 2_{00\frac{1}{2}}^{100} \\ 0 \\ 0 \end{matrix}$	0 1 0 1 Cla i 0 0	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ ssification = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ \overline{4}^{001} * \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_4$ $g_{00\frac{1}{2}}^{110} *$ $0$	$\begin{array}{c} 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \text{SI} = z'_{4P} \\ Cm^{001}_{(2)} \\ 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ \end{array}$		
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline                                $	(000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ \hline 124.355 \\ 4^{001}* \\ 0 \\ 0 \\ 1 \\ 0 \\ \end{array}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{matrix}$ $\begin{matrix} 1 \\ P4'/mcc' \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \end{matrix}$	0 1 0 1 Cla i 0 0	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array}$ ssification = $\begin{array}{c} 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \\ 0 \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} = \mathbb{Z}_M \\ \overline{4}^{001} * \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$ $X_{\text{BS}} = \mathbb{Z}_4$ $g_{00\frac{1}{2}}^{110} *$ $0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \hline SI = z'_{4P} \\ Cm^{001}_{(2)} \\ 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ \end{array}$		
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline                                $	(000) (000) (000) (000) (000) weak (000) (000)	$\begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ 124.355 \\ 4^{001}* \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline P4'/mcc' \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	0 1 0 1 Cla i 0 0 1 0	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} $ ssification = $ \begin{array}{c} 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $= \frac{\mathbb{Z}_M}{4^{001} *}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_4$ $g_{00\frac{1}{2}}^{110} * \\ 0\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ \overline{33}00 \\ \overline{SI} = z'_{4P} \\ Cm^{001}_{(2)} \\ 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ \overline{33}00 \\ \end{array}$		
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline                                $	(000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ 124.355 \\ 4^{001}* \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 124.356 \\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline P4'/mcc' \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \hline P4'/m'c'c \\ \end{array}$	0 1 0 1 Cla i 0 0 1 0 1	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} $ ssification = $ \frac{2_{00\frac{1}{2}}^{110} *}{0} *$ 0 0 1 0 1 ssification =	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ \hline 4^{001} * \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \hline \\ X_{\rm BS} = \mathbb{Z}_4\\ g_{00\frac{1}{2}}^{110} *\\ 0\\ 0\\ 0\\ 0\\ \hline \\ X_{\rm BS} = \mathbb{Z}_2 \end{array}$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \hline SI = z'_{4P} \\ Cm^{001}_{(2)} \\ 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ \end{array}$		
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline                                $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ 124.355 \\ 4^{001}* \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{matrix}$ $\begin{matrix} 1 \\ P4'/mcc' \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{matrix}$ $\begin{matrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{matrix}$	0 1 0 1 Cla i 0 0 1 0 1 0 1	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ ssification = $\begin{array}{c} 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \\ \end{array}$ ssification = $\begin{array}{c} 1 \\ 0 \\ 0 \\ 0 \\ \frac{1}{2} * \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} = \mathbb{Z}_{M} \\ \overline{4^{001}} * \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_4$ $g_{00\frac{1}{2}}^{110} *$ $0\\ 0\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110}$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ \overline{33}00 \\ \overline{SI} = z'_{4P} \\ Cm^{001}_{(2)} \\ 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ \overline{33}00 \\ \end{array}$		
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline                                $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{matrix} 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 24.355 \\ 4^{001}* \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 124.356 \\ 4^{001}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{matrix}$ $\begin{matrix} 1 \\ P4'/mcc' \\ 2^{100}_{00\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{matrix}$ $\begin{matrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	0 1 0 1 Cla i 0 0 1 0 1 Cla i 0 0	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ ssification = $\begin{array}{c} 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \\ \end{array}$ ssification = $\begin{array}{c} 1 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \end{array}$ $\begin{array}{c} = \mathbb{Z}_{M} \\ \overline{4^{001}} * \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_4$ $g_{00\frac{1}{2}}^{110} * \\ 0\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110}\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ \overline{33}00 \\ \overline{SI} = z'_{4P} \\ Cm^{001}_{(2)} \\ 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ \overline{33}00 \\ \end{array}$		
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline                                $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 24.355 \\ 4^{001}* \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 24.356 \\ 4^{001}* \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ P4'/mcc'\\ 2^{100}_{00\frac{1}{2}}\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$	0 1 0 1 Cla i 0 0 1 0 1 0 1 :	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ ssification = $\begin{array}{c} 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \\ \end{array}$ ssification = $\begin{array}{c} 1 \\ 0 \\ 1 \\ \end{array}$ ssification = $\begin{array}{c} 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \hline 4^{001} * \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \hline 4^{001} \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \hline \\ X_{\rm BS} = \mathbb{Z}_4\\ g_{00\frac{1}{2}}^{110} *\\ 0\\ 0\\ 0\\ 0\\ \hline \\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ \end{array}$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \hline SI = z'_{4P} \\ Cm^{001}_{(2)} \\ 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \hline SI = z_{2,S_4} \\ \end{array}$		
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 1\\ 24.355\\ 4^{001}*\\ \\ 0\\ 0\\ 1\\ 1\\ 24.356\\ 4^{001}*\\ \\ 0\\ 1\\ 357  P4/m \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \hline 0\\ 1\\ \hline P4'/mcc'\\ 2^{100}_{00\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline 0\\ 0\\ \hline P4'/m'c'c\\ 2^{100}_{00\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline 0\\ c'c' \end{array}$	0 1 0 1 Cla i 0 0 1 0 1 0 1 :	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ ssification = $\frac{2^{110}_{00\frac{1}{2}}*}{0}$ 0 1 0 1 ssification = $\frac{2^{110}_{00\frac{1}{2}}*}{0}$ 0 1 ion = $\mathbb{Z}_{M} \times$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \hline 4^{001}* \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ \hline 4^{001}* \\ \end{array}$ $\begin{array}{c} 0 \\ \hline 0 \\ \end{array}$ $\begin{array}{c} 0 \\ \hline \end{array}$ $\begin{array}{c} 0 \\ \hline \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \hline \\ X_{\rm BS} = \mathbb{Z}_4\\ g_{00\frac{1}{2}}^{110} *\\ 0\\ 0\\ 0\\ 0\\ \hline \\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ \\ \end{array}$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline SI = z'_{4P} \\ Cm'^{001}_{(2)} \\ 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \overline{SI} = z_{2,S_4} \\ \hline \\ SI = z^+_{4m,0}, \end{array}$	$z_{4m,\pi}^+$	
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline                                $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 24.355 \\ 4^{001}* \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 24.356 \\ 4^{001}* \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \hline 0\\ 1\\ \hline P4'/mcc'\\ 2^{100}_{00\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline 0\\ 0\\ \hline P4'/m'c'c\\ 2^{100}_{00\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline 0\\ c'c' \end{array}$	0 1 0 1 Cla i 0 0 1 0 1 0 1 :	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ ssification = $\frac{2^{110}_{00\frac{1}{2}}*}{0}$ 0 1 0 1 ssification = $\frac{2^{110}_{00\frac{1}{2}}*}{0}$ 0 1 ion = $\mathbb{Z}_{M} \times$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \hline 4^{001} * \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \hline 4^{001} \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \hline \\ X_{\rm BS} = \mathbb{Z}_4\\ g_{00\frac{1}{2}}^{110} *\\ 0\\ 0\\ 0\\ 0\\ \hline \\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ \\ \end{array}$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline SI = z'_{4P} \\ Cm'^{001}_{(2)} \\ 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \overline{SI} = z_{2,S_4} \\ \hline \\ SI = z^+_{4m,0}, \end{array}$	$z_{4m,\pi}^+$	
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (124.3	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 1\\ 24.355\\ 4^{001}*\\ \\ 0\\ 0\\ 1\\ 1\\ 24.356\\ 4^{001}*\\ \\ 0\\ 1\\ 357  P4/m \end{array}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ P4'/mcc'\\ 2^{100}_{00\frac{1}{2}}\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$	0 1 0 1 Cla i 0 0 1 0 1 1 0 1 i* 0 0 sificat	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ ssification = $\begin{array}{c} 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \\ \end{array}$ ssification = $\begin{array}{c} 1 \\ 0 \\ 1 \\ \end{array}$ ssification = $\begin{array}{c} 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \hline 4^{001}* \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ \hline 4^{001}* \\ \end{array}$ $\begin{array}{c} 0 \\ \hline 0 \\ \end{array}$ $\begin{array}{c} 0 \\ \hline \end{array}$ $\begin{array}{c} 0 \\ \hline \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \hline \\ X_{\rm BS} = \mathbb{Z}_4\\ g_{00\frac{1}{2}}^{110} *\\ 0\\ 0\\ 0\\ 0\\ \hline \\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ \end{array}$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \hline SI = z'_{4P} \\ Cm^{001}_{(2)} \\ 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \hline SI = z_{2,S_4} \\ \end{array}$	$z_{4m,\pi}^+$	
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline                                $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (24.5)	$ \begin{array}{c} 0\\ 1\\ 0\\ 1\\ 124.355\\ 4^{001}*\\ 0\\ 0\\ 1\\ 124.356\\ 4^{001}*\\ 0\\ 1\\ 357 P4/m\\ 4^{001} \end{array} $	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \hline 0\\ 1\\ \hline P4'/mcc'\\ 2^{100}_{00\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline 0\\ \hline P4'/m'c'c\\ 2^{100}_{00\frac{1}{2}}\\ 0\\ 0\\ \hline 0\\ cc'c' & \text{Class}\\ 2^{100}_{00\frac{1}{2}}*\\ \end{array}$	0 1 0 1 Cla i 0 0 1 0 1 Cla i 0 0 1 0 1 0 1 0 1 i** 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \\ \hline 0 \\ \\ \hline 0 \\ \\ \hline 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ \hline 1 \\ \\ \hline 0 \\ \\ \hline 1 \\ \\ \hline ssification = \\ \hline 2_{00\frac{1}{2}}^{110} * \\ 0 \\ \hline 1 \\ \\ \hline \\ \hline 0 \\ \\ \hline 1 \\ \\ \hline \\ \hline 0 \\ \\ \hline \end{bmatrix}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \end{array}$ $\begin{array}{c} = \mathbb{Z}_M \\ \overline{4^{001}} * \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ \hline 0 \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4^{001}} \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4^{001}} \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4^{001}} \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ X_{\rm BS} = \mathbb{Z}_4\\ g_{00\frac{1}{2}}^{110}*\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ \end{array}$ $\begin{array}{c} 1\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 1\\ 0\\ \end{array}$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \hline SI = z_{4P}' \\ Cm_{(2)}^{001} \\ 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \hline SI = z_{2,S_4} \\ \hline \\ SI = z_{4m,0}' \\ Cm_{(4)}^{001} \\ \end{array}$	$z_{4m,\pi}^+$	
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{4,4} \\ 00 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) 124.3 weak (000)	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 1\\ 24.355\\ 4^{001}*\\ 0\\ 0\\ 1\\ 124.356\\ 4^{001}*\\ 0\\ 1\\ 357 \begin{array}{c} P4/m\\ 4^{001}\\ 0\\ 0\\ 1\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \hline 0\\ 1\\ \hline P4'/mcc'\\ 2^{100}_{00\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline 0\\ \hline P4'/m'c'c\\ 2^{100}_{00\frac{1}{2}}\\ 0\\ 0\\ 0\\ cc'c' & \text{Class}\\ 2^{100}_{00\frac{1}{2}}*\\ 0\\ \end{array}$	0 1 0 1 Cla i 0 0 1 0 1 : Cla i* 0 0 1 : O 0 1 : i 0 0 : i 0 0 : i 0 0 0 : i 0 0 0 : i 0 0 0 : i 0 i 0 i 0 i 0 i 0 i 0 i 0 i 0 i 0 i 0	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ ssification = $\begin{array}{c} 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 0 \\ 1 \\ \end{array}$ ssification = $\begin{array}{c} 0 \\ 1 \\ 0_{00\frac{1}{2}} * \\ 0 \\ 1 \\ \end{array}$ ion = $\begin{array}{c} \mathbb{Z}_{M} \times \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \end{array}$ $\begin{array}{c} \mathbb{Z}_{M} \\ \overline{4^{001}} * \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4^{001}} \\ 0 \\ 1 \\ \end{array}$ $\begin{array}{c} \mathbb{Z}_{X} \\ \overline{4^{001}} \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} X_{\rm BS} = \mathbb{Z}_4\\ g_{00\frac{1}{2}}^{110} *\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} 1\\ 0\\ \end{array}$ $\begin{array}{c} 1\\ 0\\ \end{array}$ $\begin{array}{c} 1\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \hline SI = z_{4P}' \\ Cm_{(2)}^{001} \\ 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \hline SI = z_{2,S_4}' \\ \hline SI = z_{4m,0}' \\ Cm_{(4)}^{001} \\ 4\overline{400} \\ \end{array}$	$z_{4m,\pi}^+$	
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{4,4} \\ 00 \\ 00 \\ 00 \\ 01 \end{array} $	(000) (000)	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 124.355\\ 4^{001}*\\ 0\\ 0\\ 1\\ 124.356\\ 4^{001}*\\ 0\\ 1\\ 357 \begin{array}{c} P4/m\\ 4^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \hline 0\\ 0\\ 1\\ \hline 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	0 1 0 1 Cla i 0 0 1 0 1 0 0 1 i* 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ ssification = $\begin{array}{c} 2_{00\frac{1}{2}}^{110}*\\ 0\\ 0\\ 1\\ \end{array}$ o $\begin{array}{c} 1\\ ssification =\\ 2_{00\frac{1}{2}}^{110}*\\ 0\\ 1\\ \end{array}$ ion = $\mathbb{Z}_{M} \times$ $\begin{array}{c} 2_{00\frac{1}{2}}^{110}*\\ 0\\ 0\\ \end{array}$ o $\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \overline{4}^{001} * \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \overline{4}^{001} \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4}^{001} \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4}^{001} \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4}^{001} \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \hline SI = z'_{4P} \\ Cm_{(2)}^{001} \\ 4\overline{400} \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \\ \hline SI = z_{2,S_4} \\ \hline \\ SI = z_{4m,0}, \\ Cm_{(4)}^{001} \\ 4\overline{400} \\ 0844 \\ 0000 \\ 0211 \\ \hline \end{array}$	$z_{4m,\pi}^+$	
$ \begin{array}{c c} 0\\ 3\\ 2\\ 1\\ \hline \\ \mathbb{Z}_4\\ 0\\ 0\\ 0\\ 1\\ \hline \\ \mathbb{Z}_2\\ 0\\ 1\\ \hline \\ \mathbb{Z}_4,4\\ 00\\ 00\\ 00\\ 00\\ 01\\ 02\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (008) (000) (002) (004)	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 124.355\\ 4^{001}*\\ \\ 0\\ \\ 1\\ \\ 124.356\\ 4^{001}*\\ \\ 0\\ \\ 1\\ \\ 357 \begin{array}{c} P4/m\\ 4^{001}\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 1 0 1 Cla i 0 0 1 0 1 0 0 1 i** 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ ssification = $\begin{array}{c} 2_{00\frac{1}{2}}^{110}*\\ 0\\ 0\\ 1\\ 0\\ \end{array}$ ssification = $\begin{array}{c} 2_{00\frac{1}{2}}^{110}*\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 1\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 1\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \overline{4}^{001} * \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \overline{4}^{001} \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4}^{001} \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4}^{001} \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4}^{001} \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ \\ 0\\ 1\\ \\ X_{BS} = \mathbb{Z}_4\\ \\ g_{00\frac{1}{2}}^{110}*\\ 0\\ 0\\ 0\\ 0\\ \\ X_{BS} = \mathbb{Z}_2\\ \\ g_{00\frac{1}{2}}^{110}*\\ 0\\ 1\\ \\ BS = \mathbb{Z}_{4,4}\\ \\ g_{00\frac{1}{2}}^{110}*\\ \\ 0\\ \\ 1\\ \\ 0\\ \\ 1\\ \\ 2\\ \end{array}$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline SI = z_{4P}' \\ Cm_{(2)}^{001} \\ 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline SI = z_{2,S_4}' \\ \hline \\ SI = z_{4m,0}' \\ Cm_{(4)}^{001} \\ 4\overline{4}00 \\ 0844 \\ 0000 \\ 0211 \\ 0422 \\ \end{array}$	$z_{4m,\pi}^+$	
$ \begin{array}{c c} 0\\ 3\\ 2\\ 1\\ \hline \\ \mathbb{Z}_4\\ 0\\ 0\\ 3\\ 2\\ 1\\ \hline \\ \mathbb{Z}_2\\ 0\\ 1\\ \hline \\ \mathbb{Z}_4\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	(000) (000)	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 124.355\\ 4^{001}*\\ \\ 0\\ \\ 1\\ \\ 0\\ 1\\ 124.356\\ 4^{001}*\\ \\ 0\\ \\ 1\\ \\ 357 \begin{array}{c} P4/m\\ 4^{001}\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 1 0 1 0 0 0 1 0 1 0 1 i* 0 0 0 i* 0 0 0 1 i* 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ ssification = $\begin{array}{c} 2_{00\frac{1}{2}}^{110} *\\ 0\\ 0\\ 1\\ 0\\ \end{array}$ $\begin{array}{c} 1\\ \text{ssification} =\\ 2_{00\frac{1}{2}}^{110} *\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ \text{soin} = \mathbb{Z}_{M} \times\\ 2_{00\frac{1}{2}}^{110} *\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \overline{4}^{001}* \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \overline{4}^{001}* \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4}^{001} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4}^{001} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \hline \\ X_{\rm BS} = \mathbb{Z}_4\\ \hline g_{00\frac{1}{2}}^{110} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 4\overline{400} \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline SI = z'_{4P} \\ Cm'^{001}_{(2)} \\ 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline SI = z_{2,S_4} \\ \hline \\ SI = z_{4m,0}, \\ Cm'^{001}_{(4)} \\ 4\overline{4}00 \\ 0844 \\ 0000 \\ 0211 \\ 0422 \\ 0633 \\ \end{array}$	$z_{4m,\pi}^+$	
$ \begin{array}{c c} 0\\ 3\\ 2\\ 1\\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (008) (000) (002) (004) (006) (000)	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 124.355\\ 4^{001}*\\ \\ 0\\ \\ 1\\ \\ 0\\ \\ 1\\ \\ 124.356\\ 4^{001}*\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \\$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 1 0 1 0 0 0 1 0 1 0 1 0 0 1 i* 0 0 0 1 i* 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ X_{\rm BS} = \mathbb{Z}_4\\ g_{00\frac{1}{2}}^{110} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline SI = z_{4P}' \\ Cm_{(2)}^{001} \\ 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline SI = z_{2,S_4}' \\ \hline \\ SI = z_{4m,0}, \\ Cm_{(4)}^{001} \\ 4\overline{4}00 \\ 0844 \\ 0000 \\ 0211 \\ 0422 \\ 0633 \\ 1\overline{1}00 \\ \end{array}$	$z_{4m,\pi}^+$	
$\begin{array}{c} 0 \\ 3 \\ 2 \\ 1 \\ \hline \\ \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_4, 4 \\ 00 \\ 00 \\ 00 \\ 00 \\ 01 \\ 02 \\ 03 \\ 10 \\ 11 \\ \end{array}$	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (008) (000) (008) (000) (002) (006) (000) (000)	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 124.355\\ 4^{001}*\\ \\ 0\\ \\ 1\\ \\ 0\\ \\ 1\\ \\ 124.356\\ 4^{001}*\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \\$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 1 0 1 0 0 0 1 0 1 0 1 0 0 1 0 0 1 0 0 0 1 0	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} = \mathbb{Z}_M \\ \overline{4}^{001} * \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \overline{4}^{001} * \\ \end{array}$ $\begin{array}{c} 0 \\ \overline{4}^{001} \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 1 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 1 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 1 \\ 0 \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \\ X_{\mathrm{BS}} = \mathbb{Z}_{4}\\ \frac{g_{00\frac{1}{2}}^{110} *}{g_{00\frac{1}{2}}^{110} *}\\ 0\\ 0\\ 0\\ 0\\ \\ X_{\mathrm{BS}} = \mathbb{Z}_{2}\\ \frac{g_{000\frac{1}{2}}^{110}}{g_{00\frac{1}{2}}^{10} *}\\ 0\\ 1\\ \\ B_{\mathrm{BS}} = \mathbb{Z}_{4,4}\\ \frac{g_{00\frac{1}{2}}^{110} *}{g_{00\frac{1}{2}}^{1} *}\\ 0\\ 1\\ \\ 2\\ \hline 3\\ 0\\ \hline 1\\ \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline SI = z_{4P}' \\ Cm_{(2)}^{001} \\ 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline SI = z_{2,S_4}' \\ \hline \\ SI = z_{2,S_4}' \\$	$z_{4m,\pi}^+$	
$ \begin{array}{c c} 0\\ 3\\ 2\\ 1\\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (008) (000) (002) (004) (006) (000)	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 124.355\\ 4^{001}*\\ \\ 0\\ \\ 1\\ \\ 0\\ \\ 1\\ \\ 124.356\\ 4^{001}*\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \\ 0\\ \\$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 1 0 1 0 0 0 1 0 1 0 1 0 0 1 i* 0 0 0 1 i* 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ X_{\rm BS} = \mathbb{Z}_4\\ g_{00\frac{1}{2}}^{110} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline SI = z_{4P}' \\ Cm_{(2)}^{001} \\ 4\overline{4}00 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \hline SI = z_{2,S_4}' \\ \hline \\ SI = z_{4m,0}, \\ Cm_{(4)}^{001} \\ 4\overline{4}00 \\ 0844 \\ 0000 \\ 0211 \\ 0422 \\ 0633 \\ 1\overline{1}00 \\ \end{array}$	$z_{4m,\pi}^+$	

20	(000)	0	0	0	0	0	0	$2\overline{2}00$	
21	$(00\overline{2})$	0	0	1	0	1	1	2011	
22	$(00\overline{4})$	0	0	0	0	0	$\overline{2}$	2222	
23	$(00\overline{6})$	0	0	1	0	1	3	2433	
30	(000)	0	1	1	1	1	0	$3\overline{3}00$	
31	$(00\overline{2})$	0	1	0	1	0	<u>1</u>	3111	
32	$(00\overline{4})$	0	1	1	1	1	2	3122	
33	$(00\overline{6})$	0	1	0	1	0	3	3333	
		124.358	P4'/m'cc'		ssification			$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	4 <sup>001</sup> *	$2^{100}_{00\frac{1}{2}}*$	i*	$2^{110}_{00\frac{1}{2}}$	$\bar{4}^{001}$	$g_{00\frac{1}{2}}^{110}*$		
0	(000)	0	0	0	0	0	0		
	(000)	1	1	0	0	1	0	ar ±	
		124.360	$\frac{P_c 4/mcc}{4^{001}}$	$\frac{\text{Class}}{2^{100}}*$	$\frac{\text{sification}}{\cdot} =$	$\frac{\mathbb{Z}_M}{2^{110}*}$	$\frac{X_{BS} = \mathbb{Z}_4}{\bar{4}^{001}}$	$SI = z_{4m,0}^+$	Q 001
$\frac{\mathbb{Z}_4}{0}$	weak	$\{1 00\frac{1}{2}\}*$			$\frac{i}{2}$			$m_{1\bar{1}0}*$	$Cm_{(4)}^{001}$
$\frac{0}{0}$	(000)	0	0	$\frac{0}{0}$	0	0	0	0	4400 0000
$\frac{0}{1}$	(000)	1	0	1	1	1	1	0	$1\overline{1}00$
$\frac{1}{2}$	(000)	0	0	0	0	0	0	0	$\frac{1100}{2\overline{2}00}$
$\frac{2}{3}$	(000)	1	0	1	1	1	1	0	$\frac{2200}{3\overline{3}00}$
		124.361	$P_C4/mcc$	Clas	sification =	: Zм	$X_{BS} = \mathbb{Z}_4$	$SI = z_{4m,0}^+$	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	4001	$2^{110}_{00\frac{1}{2}}$	i	$\frac{2010}{2_{00\frac{1}{2}}^{010}}$	$\frac{1165}{4001}$	$g_{00\frac{1}{2}}^{100}$	$Cm_{(4)}^{001}$
0	(000)	0	0	$\frac{-00\frac{1}{2}}{0}$	0	$\frac{-00\frac{1}{2}}{0}$	0	$\frac{300\frac{1}{2}}{0}$	$\frac{4\overline{4}00}{4\overline{4}00}$
0	(000)	0	0	0	0	0	0	0	0000
1	(000)	1	0	0	1	0	1	1	1100
2	(000)	0	0	0	0	0	0	0	$2\overline{2}00$
3	(000)	1	0	0	1	0	1	1	$3\overline{3}00$
		124.362	$P_I4/mcc$		sification =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_4$	$SI = z_{4m,0}^+$	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4^{001}$	$2^{100}_{00\frac{1}{2}}$	i	$2^{110}_{00\frac{1}{2}}$	$\bar{4}^{001}$	$g_{00\frac{1}{2}}^{110}$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	0	$4\overline{400}$
0	(000)	0	0	0	0	0	0	0	0000
1	(000)	1	0	0	1	0	1	1	$1\overline{1}00$
2	(000)	0	0	0	0	0	0	0	$2\overline{2}00$
3	(000)	1	0	0	1	0	1	<u> </u>	3300
		125.363	P4/nbm		$\frac{\text{ssification}}{2^{110}} =$	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$4^{001}_{rac{1}{2}00}$	$2_{0\frac{1}{2}0}^{100}$	i		$\bar{4}^{001}_{rac{1}{2}00}$	$Cm_{(2)}^{110}$		
0	(000)	0	0	0	0	0	22		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{1\overline{1}}$		
1	(000)	0	0	1	0	1	11 X	OT /	
$-\mathbb{Z}_2$	weak	125.366	$\frac{P4'/nb'm}{2^{100}}$	i Cla	ssification = $2^{110}$	$=\mathbb{Z}_M$ $\overline{A}^{001}$	$X_{\rm BS} = \mathbb{Z}_2$ $Cm_{(2)}^{110}$	$SI = z'_{2P}$	
		$4^{001}_{\frac{1}{2}00}*$	$2_{0\frac{1}{2}0}^{100}*$			$\frac{-M}{4^{001}_{\frac{1}{2}00}}*$	0711(2)		
$\frac{0}{0}$	(000)	0	0	$\frac{0}{0}$	0	0	$\frac{2\overline{2}}{2\overline{2}}$		
$\frac{0}{1}$	(000)	1	1	1	0	0	$\frac{22}{1\overline{1}}$		
	1 (300)	125.367	P4'/nbm		assification		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}00}*$	$\frac{14/1000}{2_{0\frac{1}{2}0}^{100}}$	$\frac{i}{i}$	2 <sup>110</sup> *	$\frac{-22}{\bar{4}_{\frac{1}{2}00}^{001}*}$		<i>S</i> 1 − <i>≈</i> 2 <i>P</i>	
$\frac{2}{0}$	(000)	$\frac{1}{2}00^{\pi}$	$\frac{2_{0\frac{1}{2}0}}{0}$	0	0	$\frac{\frac{1}{2}00^{\pi}}{0}$	$\frac{g_{\frac{1}{2}\frac{1}{2}0}}{0}$		
$\frac{0}{1}$	(000)	1	0	1	1	0	0		
	1 (200)		P4'/n'b'm		ssification =		$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\overline{\mathbb{Z}_2}$	weak	$4^{001}_{\frac{1}{2}00}*$	$\frac{2^{100}_{0\frac{1}{2}0}}{2^{100}_{0\frac{1}{2}0}}$	<i>i</i> *	$\frac{2^{110}*}{}$	$\frac{-2M}{\bar{4}_{\frac{1}{2}00}^{001}}$	$\frac{R_{\rm BS} = 2 L_2}{Cm_{(0)}^{110}}$	~2,54	
0	(000)	$\frac{-\frac{1}{2}00}{0}$	$\frac{-0\frac{1}{2}0}{0}$	0	0	$\frac{-\frac{1}{2}00}{0}$	$\frac{2\overline{2}}{2\overline{2}}$		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$		
1	(000)	1	0	0	1	1	11		
	125	.369 P4/	nb'm' Cla	assific	$ation = \mathbb{Z} \times$	$\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_{2,4}$	$SI = z_{2,S_4},$	$z_{4C}$
$\mathbb{Z}_{2,4}$	weak	$4^{001}_{\frac{1}{2}00}$	$2^{100}_{0\frac{1}{2}0}*$	i	$2^{110}*$	$\bar{4}^{001}_{\frac{1}{2}00}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	-,~4/	
		200	0 2 0			200	- 2 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			
		125.370	P4'/n'bn		sification:		$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{0\frac{1}{2}0}*$	i*	$2^{110}$	$\bar{4}^{001}_{\frac{1}{2}00}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$			
0	(000)	0	0	0	0	0	0			
1	(000)	1	1	0	0	1	0			
		125.372	$P_c4/nbn$	ı Clas	sification =	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$		
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$4^{001}_{\frac{1}{2}00}$	$2^{100}_{0\frac{1}{2}0}$	i	2110	$\bar{4}^{001}_{rac{1}{2}00}$	$Cm_{(2)}^{110}$		
0	(000)	0	0	$\frac{0}{0}$	0	0	0	$\frac{1}{2\overline{2}}$		
0	(000)	0	0	0	0	0	0	$2\overline{2}$		
1	(000)	1	0	0	1	0	1	11		
	/	125.373	$P_C4/nbn$	n Clas	sification =	= Z <sub>M</sub>	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$		
$\overline{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$\frac{4_{0\frac{1}{2}0}^{001}*}{4_{0\frac{1}{2}0}^{001}}$	$\frac{1}{2^{110}_{\frac{1}{2}\frac{1}{2}0}}*$	$\frac{i_{\frac{1}{2}\frac{1}{2}0}*}{}$	$\frac{2010}{2\frac{1}{2}00}$	$\frac{768 - 22}{4_{\frac{1}{2}00}^{001}}$	$\frac{g_{\frac{1}{2}00}}{g_{\frac{1}{2}00}^{100}}*$	$Cm_{(2)}^{110}$	
0	(000)	0	$\frac{10\frac{1}{2}0}{0}$	$\frac{2\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{2\frac{1}{2}00}{0}$	$\frac{\frac{1}{2}00}{0}$	$\frac{g_{\frac{1}{2}00}}{0}$	$\frac{2\overline{2}}{2\overline{2}}$	
$\frac{0}{0}$	(000)	0	0	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$	
$\frac{0}{1}$	(000)	1	1	1	0	0	1	0	$\frac{22}{1\overline{1}}$	
	(000)	125.374	$P_I4/nbn$		sification =		$X_{BS} = \mathbb{Z}_2$		11	_
$\overline{\mathbb{Z}_2}$	weak	$\frac{125.574}{\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*}$	$\frac{P_I 4/non}{4_{\frac{1}{2}00}^{001}}$	$\frac{t \text{ Class}}{2_{0\frac{1}{2}0}^{100}}$		$\frac{= Z_M}{2^{110}}$	$\Lambda_{\rm BS} = \mathbb{Z}_2$ $\overline{4_{0\frac{1}{2}\frac{1}{2}}^{001}} *$	$SI = z'_{2P}$ $Cm^{110}_{(2)}$		
					$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$					
0	(000)	0	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$		
0	(000)	0	0	0	0	0	0	22		
1	(000)	1	0	0	0	0	0	11		
1	(000)	1	0	0	0	0	0	11 /		_
		126.375	P4/nne	c Class	sification =	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$\frac{1\overline{1}}{\text{SI} = z'_{2P}}$		
$\mathbb{Z}_2$	weak	$126.375$ $4_{\frac{1}{2}00}^{001}$	$2^{100}_{0\frac{1}{2}\frac{1}{2}}$	c Class	sification = $2_{00\frac{1}{2}}^{110}$	$=\mathbb{Z}_2$ $\bar{4}^{001}_{\frac{1}{2}00}$	$X_{\rm BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$			
	weak (000)	$ \begin{array}{r} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \end{array} $	$\begin{array}{c} 6 & P4/nne \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 & \end{array}$	c Class	$\begin{array}{c} \text{sification} = \\ 2^{110}_{00\frac{1}{2}} \\ 0 \end{array}$	$ \begin{array}{c}                                     $	$X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ $0$			
$\mathbb{Z}_2$	weak	$ \begin{array}{c} 126.375 \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \end{array} $	$\begin{array}{ccc} & P4/nne \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ & 0 \\ & & 0 \end{array}$	c Class  i  0 1	sification =	$ \begin{array}{c}                                     $	$X_{\text{BS}} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ $0$ $1$	$SI = z'_{2P}$		
$ \begin{array}{c c}  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \end{array} $	weak (000) (000)	$ \begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 126.378 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	c Class $i$ 0 1 $c$ Class $c$ Cla	sification = $ \frac{2_{00\frac{1}{2}}^{110}}{0} $ 0 sification =	$ \begin{array}{c}                                     $	$X_{\rm BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ $0$ $1$ $X_{\rm BS} = \mathbb{Z}_2$			
	weak (000)	$ \begin{array}{c} 126.375 \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	c Class  i  0 1	sification =	$ \begin{array}{c}                                     $	$X_{\rm BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ $0$ $1$ $X_{\rm BS} = \mathbb{Z}_2$	$SI = z'_{2P}$		
$ \begin{array}{c c}  & \mathbb{Z}_2 \\ \hline  & 0 \\ \hline  & 1 \end{array} $	weak   (000)   (000)   weak   (000)	$ \begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 126.378 \end{array} $	$\begin{array}{ccc} & P4/nne \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ & 0 \\ & & 0 \end{array}$	c Class $i$ 0 1 $c$ Class $c$ Cla	sification = $ \frac{2_{00\frac{1}{2}}^{110}}{0} $ 0 sification =	$ \begin{array}{c}                                     $	$X_{\text{BS}} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ $0$ $1$	$SI = z'_{2P}$		
	weak   (000)   (000)	$ \begin{array}{c} 126.375 \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 126.378 \\ 4^{001}_{\frac{1}{2}00} * \end{array} $	$\begin{array}{c} 5  P4/nna \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ \hline 1 \\ \end{array}$	c Class  i  0  1  c Class  i  0  1  1  1  1  1  1  1  1  1  1  1  1	$\begin{array}{c} \text{sification} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \\ \text{sification} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ \\ \end{array}$	$ \begin{array}{c}                                     $	$X_{\text{BS}} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ $0$ $1$ $X_{\text{BS}} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$SI = z'_{2P}$		
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \end{array} $	weak   (000)   (000)   weak   (000)	$ \begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 126.378 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 126.379 \end{array} $	$\begin{array}{c} 5 & P4/nne \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 1 \\ \end{array}$	c Class  i  0  1  c Class  i  0  1  1  1  1  1  1  1  1  1  1  1  1	sification = $\frac{2_{00\frac{1}{2}}^{110}}{0}$ 0 sification = $\frac{2_{00\frac{1}{2}}^{110}}{0}$ 0 sification = $\frac{2_{00\frac{1}{2}}^{110}}{0}$ 0 sification =	$ \begin{array}{c}                                     $	$X_{\text{BS}} = \mathbb{Z}_2$ $\frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ $1$ $X_{\text{BS}} = \mathbb{Z}_2$ $\frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ $1$ $X_{\text{BS}} = \mathbb{Z}_2$	$SI = z'_{2P}$		
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \end{array} $	weak   (000)   (000)   weak   (000)	$ \begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 126.378 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 126.379 \end{array} $	$\begin{array}{c} 5 & P4/nne \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ 1 \\ \end{array}$	c Class  i  0  1  c Class  i  0  1  1  1  1  1  1  1  1  1  1  1  1	sification = $\frac{2_{00\frac{1}{2}}^{110}}{0}$ 0 sification = $\frac{2_{00\frac{1}{2}}^{110}}{0}$ 0 sification = $\frac{2_{00\frac{1}{2}}^{110}}{0}$ 0 sification =	$ \begin{array}{c}                                     $	$X_{\text{BS}} = \mathbb{Z}_2$ $\frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ $1$ $X_{\text{BS}} = \mathbb{Z}_2$ $\frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ $0$ $1$	$SI = z'_{2P}$ $SI = z'_{2P}$		
	weak   (000)   (000)     weak   (000)   (000)	$\begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 126.378 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \end{array}$	$\begin{array}{c} 5  P4/nna \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ 0 \\ \hline 1 \\ \end{array}$	c Class  i 0 1 c Class i 0 1 c Class c c Class	$\begin{array}{c} \text{sification} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \\ \text{sification} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ \\ \end{array}$	$ \begin{array}{c}                                     $	$X_{\text{BS}} = \mathbb{Z}_2$ $\frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ $1$ $X_{\text{BS}} = \mathbb{Z}_2$ $\frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0}$ $1$ $X_{\text{BS}} = \mathbb{Z}_2$	$SI = z'_{2P}$ $SI = z'_{2P}$		
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $ $ \mathbb{Z}_2$	weak   (000)   (000)   weak   (000)   (000)	$\begin{array}{c} 126.375 \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 126.378 \\ 4^{001}_{\frac{1}{2}00} * \\ 0 \\ 1 \\ 126.379 \\ 4^{001}_{\frac{1}{2}00} * \\ \end{array}$	$\begin{array}{c} 5  P4/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 2_{0\frac{1}{2}\frac{1}{2}}^{100} * \\ \hline 0 \\ 1 \\ \hline P4'/nno \\ \hline 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ \hline 2_{0\frac{1}{2}\frac{1}{2}}^{100} \end{array}$	C   Class	$\begin{array}{c} \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ \text{o} \\ \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{2} * \\ \end{array}$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \hline 4_{\frac{1}{2}00}^{001} \\ \hline 0 \\ 1 \\ = \mathbb{Z}_2 \\ \hline 4_{\frac{1}{2}00}^{001} * \\ \hline 0 \\ 0 \\ = \mathbb{Z}_2 \\ \hline 4_{\frac{1}{2}00}^{001} * \\ \hline \end{array} $	$\begin{split} \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{2} \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{2} \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{2} \end{split}$	$SI = z'_{2P}$ $SI = z'_{2P}$		
	weak   (000)   (000)   weak   (000)   weak   (000)   (000)	$\begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 126.378 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 126.379 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 5  P4/nna \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 1 \\ \hline P4'/nna \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \end{array}$	C   Class	$\begin{array}{c} \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ \text{o} \\ \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{2} * \\ \end{array}$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \overline{4}_{\frac{1}{2}00}^{001} \\ 0 \\ \hline 1 \\ = \mathbb{Z}_2 \\ \overline{4}_{\frac{1}{2}00}^{001} * \\ 0 \\ \hline 0 \\ = \mathbb{Z}_2 \\ \overline{4}_{\frac{1}{2}00}^{01} * \\ \hline 0 \\ 0 \\ \end{array} $	$\begin{array}{c} X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \end{array}$	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$		
	weak   (000)   (000)   weak   (000)   weak   (000)   (000)	$\begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 126.378 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 126.379 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 126.380 \\ \end{array}$	$\begin{array}{c} 5  P4/nna \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 1 \\ \hline P4'/nna \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/n'n' \end{array}$	C   Class	$\begin{array}{c} \text{sification} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \\ \text{sification} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ \\ \text{sification} = \\ 2_{00\frac{1}{2}}^{101} * \\ 0 \\ \\ \text{sification} = \\ \end{array}$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \bar{4}^{001}_{\frac{1}{2}00} \\ 0 \\ 1 \\ = \mathbb{Z}_2 \\ \bar{4}^{001}_{\frac{1}{2}00} * \\ 0 \\ 0 \\ = \mathbb{Z}_2 \\ \bar{4}^{001}_{\frac{1}{2}00} * \\ 0 \\ = \mathbb{Z}_2 \\ 0 \\ 0 \\ = \mathbb{Z}_2 \end{array} $	$\begin{split} \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \end{split}$	$SI = z'_{2P}$ $SI = z'_{2P}$		
	weak   (000)   (000)   weak   (000)   (000)   weak   (000)   (000)   (000)   weak   weak   (000)   (000)   weak   weak   (000)   (000)   weak   weak   weak   (000)   (000)   weak   w	$\begin{array}{c} 126.375 \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 126.378 \\ 4^{001}_{\frac{1}{2}00} * \\ 0 \\ 1 \\ 126.379 \\ 4^{001}_{\frac{1}{2}00} * \\ 0 \\ 1 \\ 126.380 \\ 4^{001}_{\frac{1}{2}00} * \\ \end{array}$	$\begin{array}{c} 5  P4/nna \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 1 \\ \hline P4'/nna \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/n'n' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \end{array}$	C Class  i  0  1  C Class  i  0  1  C Class  i  0  1  C Class  i  c Class  i  c Class  i  c Class  i  c Class  i*	$\begin{array}{c} \text{sification} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \text{sification} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ \text{sification} = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 1 \\ \text{sification} = \\ 2_{00\frac{1}{2}}^{110} * \\ 0 \\ 1 \\ \end{array}$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \bar{4}_{\frac{1}{2}00}^{001} \\ 0 \\ 1 \\ = \mathbb{Z}_2 \\ \bar{4}_{\frac{1}{2}00}^{001} \\ 0 \\ = \mathbb{Z}_2 \\ \bar{4}_{\frac{1}{2}00}^{001} \\ 0 \\ = \mathbb{Z}_2 \\ \bar{4}_{\frac{1}{2}00}^{001} \\ 0 \\ = \mathbb{Z}_2 \end{array} $	$\begin{split} \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 0 \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 0 \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 0 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \end{split}$	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$		
	weak   (000)   (000)   weak   (000)   (000)   weak   (000)   (000)   weak   (000)   (000)   weak   (000)   (000)   weak   (0	$\begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 126.378 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 126.379 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 126.380 \\ \end{array}$	$\begin{array}{c} 5  P4/nna \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 1 \\ \hline P4'/nna \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/n'n' \end{array}$	c Class  i 0 1 c Class  i 0 1 c Class  i 0 1 c Class  c Class  c Class  c Class  c Class  c Class	$\begin{array}{c} \text{sification} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \\ \text{sification} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ \\ \text{sification} = \\ 2_{00\frac{1}{2}}^{101} * \\ 0 \\ \\ \text{sification} = \\ \end{array}$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \bar{4}^{001}_{\frac{1}{2}00} \\ 0 \\ 1 \\ = \mathbb{Z}_2 \\ \bar{4}^{001}_{\frac{1}{2}00} * \\ 0 \\ 0 \\ = \mathbb{Z}_2 \\ \bar{4}^{001}_{\frac{1}{2}00} * \\ 0 \\ = \mathbb{Z}_2 \\ 0 \\ 0 \\ = \mathbb{Z}_2 \end{array} $	$\begin{split} \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \end{split}$	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$		
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \end{array} $	weak   (000)   (000)     weak   (000)   (000)       weak   (000)   (000)	$\begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 5  P4/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline \\ P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ 1 \\ \hline \\ P4'/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ 0 \\ \hline \\ P4'/n'n' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ O \\ \end{array}$	C   Class	$\begin{array}{c} \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} * \\ 0 \\ 1 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} * \\ 0 \\ 1 \\ \end{array}$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \bar{4}_{\frac{1}{2}00}^{001} \\ 0 \\ 1 \\ = \mathbb{Z}_2 \\ \bar{4}_{\frac{1}{2}00}^{001} * \\ 0 \\ 0 \\ = \mathbb{Z}_2 \\ \bar{4}_{\frac{1}{2}00}^{001} * \\ 0 \\ 0 \\ = \mathbb{Z}_2 \\ \bar{4}_{\frac{1}{2}00}^{001} * \\ 0 \\ 0 \\ = \mathbb{Z}_1 \\ \bar{4}_{\frac{1}{2}00}^{001} \\ 0 \\ 1 \\ \end{array} $	$\begin{split} \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 0 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 0 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 1 \\ \end{split}$	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z_{2,S_4}$	240/2	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (000)   (126.	$ \begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 126.378 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 126.379 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 126.380 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 381  P4/n \\  \end{array} $	$\begin{array}{c} P4/nna \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 1 \\ \hline P4'/nna \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/n'n' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline an'c'  \text{Cla} \\ \end{array}$	C   Class	$\begin{array}{c} \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} * \\ 0 \\ 1 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} * \\ 0 \\ 1 \\ \text{son} = \mathbb{Z} \times \mathbb{Z} \end{array}$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 1 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \end{array} $	$\begin{split} \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 0 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 1 \\ &$	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z_{2,S_4}$	z <sub>4C</sub> /2	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	weak   (000)   (000)   weak   (000)   (000)   weak   (000)	$\begin{array}{c} 126.375 \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 126.378 \\ 4^{001}_{\frac{1}{2}00} * \\ 0 \\ 1 \\ \hline 126.379 \\ 4^{001}_{\frac{1}{2}00} * \\ 0 \\ 1 \\ \hline 126.380 \\ 4^{001}_{\frac{1}{2}00} * \\ 0 \\ 1 \\ \hline 381  P4/r \\ 4^{001}_{\frac{1}{2}00} \end{array}$	$\begin{array}{c} 5  P4/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 1 \\ \hline P4'/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/n'n' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline an'c'  \text{Cla} \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ \end{array}$	c Class $i$ 0 1 $c$ Class $i$ 0 1 $c$ Class $i$ 0 1 $c$ Class $i$ 0 $c$ Class $i$ 0 $c$ Class $i$ $i$ $c$ Class $i$	$\begin{array}{c} \text{sification} = \\ 2_{000\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \text{sification} = \\ 2_{000\frac{1}{2}}^{110} \\ 0 \\ \text{sification} = \\ 2_{000\frac{1}{2}}^{110} * \\ 0 \\ 1 \\ \text{sification} = \\ 2_{000\frac{1}{2}}^{110} * \\ 0 \\ 1 \\ \text{on} = \mathbb{Z} \times 2_{000\frac{1}{2}}^{110} * \\ 2_{000\frac{1}{2}}^{110} * \\ \end{array}$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 1 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 1 \\ \hline \mathbb{Z}_2  X_1 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \end{array} $	$\begin{split} \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 0 \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 0 \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 0 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 0 \\ & 1 \\ & 3_{\mathrm{S}} &= \mathbb{Z}_{2,2} \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 3_{\mathrm{S}} &= \mathbb{Z}_{2,2} \\ & 3_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 3_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}} \end{split}$	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z_{2,S_4}$	z <sub>4C</sub> /2	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (000)   (000)     weak   (000)   (000)	$\begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ \hline 0 \\ 126.378 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ \hline 126.379 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ \hline 126.380 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ \hline 381 \begin{array}{c} P4/r_0 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ \hline \end{array}$	$\begin{array}{c} 5  P4/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 1 \\ \hline P4'/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/n'n' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ cn'c'  \text{Cla} \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \end{array}$	C Class  i  0  1  c Class  i  c Class  i  o  1  c Class  i*  o  o  o  ssificati  i  o	$\begin{array}{c} \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} * \\ 0 \\ 1 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} * \\ 0 \\ 1 \\ \text{son} = \mathbb{Z} \times 2 \\ \frac{2^{110}_{00\frac{1}{2}}}{0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ 1 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ 0 \\ \end{array} $	$\begin{split} \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 0 \\ & 1 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 0 \\ & 1 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & 0 \\ & 0 \\ \\ \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ \\ \mathbf{X}_{BS$	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z_{2,S_4}$	z <sub>4C</sub> /2	
$\begin{array}{c c} \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 0 \\ 0 \\ \hline \end{array}$	weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (000)	$\begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ \hline 0 \\ 126.378 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ \hline 126.379 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ \hline 126.380 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ \hline 381 \begin{array}{c} P4/n \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 5  P4/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 1 \\ \hline P4'/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/n'n' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline 0 \\ an'c'  \text{Cla} \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ 0 \\ \end{array}$	C   Class	$\begin{array}{c} \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} * \\ 0 \\ 1 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} * \\ 0 \\ 1 \\ \text{son} = \mathbb{Z} \times 2 \\ \frac{2^{110}_{00\frac{1}{2}}}{0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ 1 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_2  X_1 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \end{array} $	$\begin{split} \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 0 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 0 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & 3_{\mathrm{S}} &= \mathbb{Z}_{2,2} \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1}}{0} \\ & 0 \\ & $	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z_{2,S_4}$	z <sub>4C</sub> /2	
$\begin{array}{c c} \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline \end{array}$	weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (000)	$\begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 126.378 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ \hline 126.379 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ \hline 126.380 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ \hline 381  P4/r \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 5  P4/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 1 \\ \hline P4'/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/n'n' \\ 0 \\ \hline 0 \\ \hline 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \end{array}$	C   Class	$\begin{array}{c} \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 1 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 1 \\ \text{son} = \mathbb{Z} \times 2 \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 1 \\ \end{array}$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ \hline 1 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ \hline 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ \hline 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ \hline 1 \\ \hline \mathbb{Z}_2  X_1 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline 0 \\ \end{array} $	$\begin{split} \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 0 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}$	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z_{2,S_4}$	z <sub>4C</sub> /2	
$\begin{array}{c c} \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \end{array}$	weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (000)       weak   (000)   (000)	$\begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 0 \\ 126.378 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 126.379 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 126.380 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \\ 381  P4/n \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 5  P4/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 1 \\ \hline P4'/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/n'n' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ 1 \\ \end{array}$	C   Class	$\begin{array}{c} \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 1 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 1 \\ \text{on} = \mathbb{Z} \times \mathbb{Z} \\ 0 \\ 0 \\ 1 \\ 1 \\ \end{array}$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ \hline 1 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} * \\ 0 \\ \hline 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} * \\ 0 \\ \hline 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} * \\ 0 \\ \hline 1 \\ \hline \mathbb{Z}_2  X_I \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ 1 \\ \end{array} $	$\begin{split} \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 0 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 0 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & 3_{\mathrm{S}} &= \mathbb{Z}_{2,2} \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1}}{0} \\ & 0 \\ & $	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z_{2,S_4}$	z <sub>4C</sub> /2	
$\begin{array}{c c} \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline \end{array}$	weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (000)	$\begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} P4/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ P4'/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ P4'/n'n' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ 0 \\ \hline \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ 0 \\ \hline \\ 1 \\ 0 \\ \end{array}$	C   Class	$\begin{array}{c} \text{sification} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 1 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ \hline 0 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ \hline 0 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_2  X_1 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 1 \\ \hline \end{array} $	$\begin{array}{c} X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ 0 \\ 1 \\ \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ \hline 1 \\ 0 \\ \hline 1 \\ \end{array}$	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z_{2,S_4}$	z <sub>4C</sub> /2	
$\begin{array}{c c} \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ \hline 1 \\ \hline \\ \mathbb{Z}_{2,2} \\ \hline 00 \\ \hline 00 \\ \hline 01 \\ \hline 10 \\ \hline 11 \\ \hline \end{array}$	weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (004)   (002)   (000)   (002)     weak   (000)   (002)   (000)   (002)     weak   (000)   (002)     weak   (000)   (0002)     weak   (000)   (0002)     weak   (0000)   (0000)     weak   (0000)   (0000)     weak   (0000)   (0000)     weak   (0000)   (0000)     weak   (0000)     weak   (0000)     weak   (0000)     weak   (0000)     weak   (0000)   (0000)     weak   (0000)   (0000)     weak     weak   (0000)     weak   weak   (0000)     weak     weak   (0000)     weak     weak   w	$\begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} P4/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 1 \\ \hline P4'/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline P4'/n'n' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline 0 \\ 0 \\$	C   Class	$\begin{array}{c} \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 1 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 1 \\ \text{son} = \mathbb{Z} \times 2 \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 1 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 1 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 1 \\ 0 \\ \text{sification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0} \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 1 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ \hline 0 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ \hline 0 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_2  X_1 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 1 \\ \hline = \mathbb{Z}_2 \\ \hline \end{array} $	$\begin{split} \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & 1 \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2, 2 \\ & \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}}{0} \\ & \frac{1}{2} \\ & 0 \\ & \overline{1} \\ & \mathbf{X}_{\mathrm{BS}} &= \mathbb{Z}_2 \\ \end{split}$	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z_{2,S_4}$	z <sub>4C</sub> /2	
$\begin{array}{c c} \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \end{array}$	weak   (000)   (000)     weak   (000)   (000)     weak   (000)   (000)       weak   (000)   (000)	$\begin{array}{c} 126.375 \\ 4_{\frac{1}{2}00}^{001} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} P4/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ P4'/nn' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ P4'/nno \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ P4'/n'n' \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ 0 \\ \hline \\ 2_{0\frac{1}{2}\frac{1}{2}}^{100} \\ 0 \\ \hline \\ 0 \\ \hline \\ 1 \\ 0 \\ \end{array}$	C   Class	$\begin{array}{c} \text{sification} = \\ 2_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 1 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ \hline 0 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ \hline 0 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} * \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_2  X_1 \\ \hline 4^{001}_{\frac{1}{2}00} \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 1 \\ \hline \end{array} $	$\begin{array}{c} X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10} \\ 0 \\ 1 \\ \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 1 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ \hline 1 \\ 0 \\ \hline 1 \\ 0 \\ \hline \end{array}$	$SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z'_{2P}$ $SI = z_{2,S_4}$	z <sub>4C</sub> /2	

1	(000)	1	1	0	0	1	0		
		126.384		nc Class	ification =	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$4^{001}_{\frac{1}{2}00}$	$2^{100}_{0\frac{1}{2}0}*$	i	$2^{110}_{000}*$	$\bar{4}^{001}_{rac{1}{2}00}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	
0	(000)	0	0	0	0	0	0	0	
1	(000)	1	0	1	1	1	1	0	
		126.385		nc Class		$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{0\frac{1}{2}0}^{001}*$	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}$	$\bar{4}^{001}_{rac{1}{2}00}$	$g_{\frac{1}{2}0\frac{1}{2}}^{100}*$	
0	(000)	0	0	0	0	0	0	0	
1	(000)	1	1	1	0	0	1	0	
777		126.386	$\frac{P_I 4/n}{4001}$	nc Class		o110	$X_{BS} = \mathbb{Z}_2$ $\overline{_4001}$	$SI = z'_{2P}$	
$\mathbb{Z}_2$		$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4^{001}_{\frac{1}{2}00}$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$00\overline{2}$	$\bar{4}^{001}_{0\frac{1}{2}\frac{1}{2}}*$	$m_{1\bar{1}0}*$	
$\frac{0}{1}$	(000)	0 1	0	0	0	0	0	0	
	/			Classificat					-
$\mathbb{Z}_{4,4}$	weak	$\frac{1.361 - F4}{4^{001}}$	2100		$\frac{1011 - Z_M}{2^{110}}$	$\frac{\Lambda_{\rm BS}}{\bar{4}^{001}}$	$=\mathbb{Z}_{4,4}$ SI $Cm_{(2)}^{110}$	$\frac{-z_{4m,0}, z_4}{Cm_{(4)}^{001}}$	$m,\pi$
			$2^{100}_{\frac{1}{2}\frac{1}{2}0}$		$2^{110}_{\frac{1}{2}\frac{1}{2}0}$				
$\frac{00}{00}$	(000)	0	0	0	0	0	$\frac{44}{\overline{4}4}$	$\frac{4\overline{4}00}{004\overline{4}}$	
00	(000)	0	0	0	0	0	$\frac{44}{2\overline{2}}$	0000	
00	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$	$00\overline{4}4$	
01	(000)	0	0	1	0	1	<u>1</u> 1	$001\overline{1}$	
02	(000)	0	0	0	0	0	$\overline{2}2$	$002\overline{2}$	
03	(000)	0	0	1	0	1	33	0033	
$\frac{10}{11}$	(000)	0	0	0	0	0	$\frac{1\overline{1}}{00}$	$\frac{1\overline{1}00}{1\overline{1}1\overline{1}}$	
$\frac{11}{12}$	(000)	0	0	1	0	1	$\frac{\overline{11}}{11}$	$\frac{1111}{1\overline{1}2\overline{2}}$	
13	(000)	0	0	0	0	0	$\frac{\overline{2}2}{2}$	1133	
20	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}00$	
21	(000)	0	0	1	0	1	$1\overline{1}$	$2\overline{2}1\overline{1}$	
22	(000)	0	0	0	0	0	00	$2\overline{2}2\overline{2}$	
23	(000)	0	0	1	0	1	<u>11</u>	$2\overline{2}3\overline{3}$	
$\frac{30}{31}$	(000)	0	0	0	0	1 0	$\frac{3\overline{3}}{2\overline{2}}$	$\frac{3\overline{3}00}{3\overline{3}1\overline{1}}$	
$\frac{31}{32}$	(000)	0	0	1	0	1	$\frac{22}{1\overline{1}}$	$\frac{3\overline{3}1\overline{1}}{3\overline{3}2\overline{2}}$	
33	(000)	0	0	0	0	0	00	3333	
	12	27.390 P4'	/mb'm	Classific	$ation = \mathbb{Z}$	3 X	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_{2,4}$	$SI = z'_{2P,3}, z$	Z'A D
$\overline{\mathbb{Z}_{2,4}}$	weak		$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$	$\frac{i}{i}$	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$\frac{4^{001}}{4^{001}}$	$Cm_{(2)}^{110}$	$\frac{c_{2P,3}}{Cm_{(2)}^{001}}$	74 <i>P</i>
00	(000)	0	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	0	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	0	$\frac{\overline{44}}{44}$	$\frac{\overline{2}22\overline{2}}{\overline{2}}$	
00	(000)	0	0	0	0	0	$\frac{11}{4\overline{4}}$	$\frac{2222}{4\overline{4}00}$	
00	(000)	0	0	0	0	0	$2\overline{2}$	0000	
00	(000)	0	0	0	0	0	$\overline{2}2$	$\overline{2}2\overline{2}2$	
03	(000)	1	1	1	0	0	$1\overline{1}$	1100	
02	(000)	0	0	0	0	0	$\frac{2\overline{2}}{3\overline{3}}$	$\frac{2\overline{2}00}{2\overline{2}00}$	
$\frac{01}{10}$	(000)	$\frac{1}{0}$	0	0	0	0	$\frac{33}{22}$	$\frac{3\overline{3}00}{\overline{1}11\overline{1}}$	
$\frac{10}{13}$	(000)	1	1	1	0	0	$\frac{22}{11}$	$\frac{1111}{001\overline{1}}$	
12	(000)	0	0	0	0	0	00	1111	
11	(000)	1	1	1	0	0	$1\overline{1}$	$2\overline{2}1\overline{1}$	
	12		/mbm'	Classifica	$ation = \mathbb{Z}$	$_{M}^{2}$ X <sub>I</sub>	$\mathbb{Z}_{\mathrm{SS}}=\mathbb{Z}_{2,4}$ S	$SI = z_{2m,\pi}^+, z_{2m,\pi}^-, z_{2m,\pi}^-,$	$z_{4P}^{\prime}$
$\mathbb{Z}_{2,4}$	weak	$4^{001}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	$Cm_{(2)}^{001}$	
00	(000)	0	$\frac{22^{0}}{0}$	0	0	0	0	$\overline{2}22\overline{2}$	
00	(000)	0	0	0	0	0	0	$4\overline{4}00$	
00	(000)	0	0	0	0	0	0	$\overline{2}2\overline{2}2$	
03	(000)	1	0	1	1	0	0	$\frac{1\bar{1}00}{2\bar{2}00}$	
$\frac{02}{01}$	(000)	0 1	0	0	0	0	0	$\frac{2\overline{2}00}{3\overline{3}00}$	
$\frac{-01}{10}$	(000)	0	0	0	0	0	0	$\frac{3000}{1111}$	
-	( /	-	-	-	-	-	~		

13	(000)	1	0	1	1	0	0	$001\overline{1}$	
12	(000)	0	0	0	0	0	0	1111	
11	(000)	1	0	1	1	0	0	$2\overline{2}1\overline{1}$	
		127.392	P4'/m'b'm	Cla	ssification =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\overline{\mathbb{Z}_2}$	weak	4001*	$2^{100}_{\frac{1}{2}\frac{1}{2}0}$	i*	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}$	$Cm_{(0)}^{110}$	2,54	
0	(000)	0	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	0	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	0	$\frac{2\overline{2}}{2\overline{2}}$		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$		
$\frac{3}{1}$	(000)	1	0	0	1	1	11		
1	27.393	P4/mb'n	n' Classific	ation	$=\mathbb{Z}_M^2 \times \mathbb{Z}$	Yna :		$=z_{4m,0}^+, z_{4m,0}^-, z_{4m,\pi}^+$	
$\mathbb{Z}_{4,4,4}$	weak	$\frac{14/10011}{4^{001}}$	$\frac{1}{2^{100}_{\frac{1}{2}\frac{1}{2}0}}*$	$\frac{a}{i}$	$\frac{- 2M \times 2}{2^{110}_{\frac{1}{2}\frac{1}{2}0}}*$	$\frac{A_{\rm BS}}{4^{001}}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	$\frac{-z_{4m,0},z_{4m,0},z_{4m,\pi}}{Cm_{(4)}^{001}}$	
			4 4						
$\frac{000}{000}$	(0012)	0	0	0	0	0	0	$4, \overline{16}, 0, \overline{12}$ $0404$	
000	(004) (000)	0	0	0	0	0	0	$\frac{0404}{004\overline{4}}$	
000	(000)	0	0	0	0	0	0	$00\overline{44}$ $00\overline{44}$	
001	(000)	0	1	1	1	1	0	$001\overline{1}$	
002	(000)	0	0	0	0	0	0	$\frac{001\overline{2}}{002\overline{2}}$	
003	(000)	0	1	1	1	1	0	0033	
010	$(00\overline{1})$	0	1	1	1	1	0	0101	
011	$(00\overline{1})$	0	0	0	0	0	0	0110	
012	$(00\overline{1})$	0	1	1	1	1	0	$012\overline{1}$	
013	$(00\overline{1})$	0	0	0	0	0	0	$013\overline{2}$	
020	$(00\overline{2})$	0	0	0	0	0	0	0202	
021	$(00\overline{2})$	0	1	1	1	1	0	0211	
022	$(00\overline{2})$	0	0	0	0	0	0	0220	
023	$(00\overline{2})$	0	1	1	1	1	0	$023\overline{1}$	
030	$(00\bar{3})$	0	1	1	1	1	0	0303	
031	$(00\overline{3})$	0	0	0	0	0	0	0312	
032	$(00\overline{3})$	0	1	1	1	1	0	0321	
033	$(00\overline{3})$	0	0	0	0	0	0	0330	
100	(003)	0	0	0	0	0	0	$1\overline{4}0\overline{3}$	
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	$\frac{1\overline{4}3\overline{6}}{\overline{6}}$	
110	(002)	0	1	1	1	1	0	$1\overline{3}0\overline{2}$	
111	(002)	0	0	0	0	0	0	$1\overline{3}1\overline{3}$	
112	(002)	0	1	1	1	1	0	$1\overline{3}2\overline{4}$	
113	(002)	0	0	0	0	0	0	$1\overline{3}3\overline{5}$	
120	(001)	0	0	0	0	0	0	$\frac{1\overline{2}0\overline{1}}{1\overline{2}1\overline{2}}$	
121	(001)	0	0	1	$\frac{1}{0}$	1	0	$ \begin{array}{r} 1\overline{2}1\overline{2}\\ 1\overline{2}2\overline{3} \end{array} $	
$\frac{122}{123}$	(001)	0	1	$\frac{0}{1}$	1	0	0	$\frac{1225}{1\overline{2}3\overline{4}}$	
$\frac{123}{130}$	(0001)	0	1	1	1	1	0	$\frac{1234}{1\overline{1}00}$	
$\frac{130}{131}$	(000)	0	0	0	0	0	0	1111	
$\frac{131}{132}$	(000)	0	1	1	1	1	0	$1111 \over 112\overline{2}$	
$\frac{132}{133}$	(000)	0	0	0	0	0	0	$\frac{1122}{1\overline{1}3\overline{3}}$	
$\frac{133}{200}$	(006)	0	0	0	0	0	0	$\frac{1135}{2806}$	
$\frac{200}{201}$	(006)	0	1	1	1	1	0	$\frac{2800}{2817}$	
$\frac{201}{202}$	(006)	0	0	0	0	0	0	$\frac{2817}{2828}$	
$\frac{202}{203}$	(006)	0	1	1	1	1	0	$\frac{2\overline{839}}{2\overline{839}}$	
$\frac{200}{210}$	(005)	0	1	1	1	1	0	$\frac{2\overline{5}0\overline{5}}{2\overline{7}0\overline{5}}$	
211	(005)	0	0	0	0	0	0	$\frac{2705}{271\overline{6}}$	
212	(005)	0	1	1	1	1	0	$2\overline{7}2\overline{7}$	
213	(005)	0	0	0	0	0	0	$2\overline{7}3\overline{8}$	
220	(004)	0	0	0	0	0	0	$2\overline{6}0\overline{4}$	
221	(004)	0	1	1	1	1	0	$2\overline{6}1\overline{5}$	
222	(004)	0	0	0	0	0	0	$2\overline{6}2\overline{6}$	
223	(004)	0	1	1	1	1	0	$2\overline{6}3\overline{7}$	
230	(003)	0	1	1	1	1	0	$2\overline{5}0\overline{3}$	

	1 ()									
231	(003)	0	0	0	0	0	0	$2\overline{5}1\overline{4}$		
232	(003)	0	1	1	1	1	0	$2\overline{5}2\overline{5}$		
233	(003)	0	0	0	0	0	0	$2\overline{5}3\overline{6}$		
300	(009)	0	0	0	0	0	0			
								3, 12, 0, 9		
301	(009)	0	1	1	1	1	0	$3, \overline{12}, 1, \overline{10}$		
302	(009)	0	0	0	0	0	0	$3, \overline{12}, 2, \overline{11}$		
303	(009)	0	1	1	1	1	0	$3, \overline{12}, 3, \overline{12}$		
310	(008)	0	1	1	1	1	0			
								$3, \overline{11}, 0, \overline{8}$		
311	(008)	0	0	0	0	0	0	$3, \overline{11}, 1, \overline{9}$		
312	(008)	0	1	1	1	1	0	$3, \overline{11}, 2, \overline{10}$		
313	(008)	0	0	0	0	0	0	$3, \overline{11}, 3, \overline{11}$		
320	(007)	0	0	0	0	0	0	$3, \overline{10}, 0, \overline{7}$		
321	(007)	0	1	1	1	1	0	$3, \overline{10}, 1, \overline{8}$		
322	(007)	0	0	0	0	0	0	$3, \overline{10}, 2, \overline{9}$		
323	(007)	0	1	1	1	1	0	$3, \overline{10}, 3, \overline{10}$		
330	(006)	0	1	1	1	1	0	3906		
331	(006)	0	0	0	0	0	0	$3\overline{9}1\overline{7}$		
332	(006)	0	1	1	1	1	0	$3\overline{9}2\overline{8}$		
333	(006)	0	0	0	0	0	0	$3\overline{9}3\overline{9}$		
	(000)									
		127.394	P4'/m'b	bm' Class	sification		$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$4^{001}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$	i*	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	· •		
							- 4 4			
0	(000)	0	0	0	0	0	0			
1	(000)	1	1	0	0	1	0			
		107 200	D 4 / 1	<i>C</i> 1 :	c .:	rn2	V 77	ат ±		
		127.396	$P_c4/mb$			$\mathbb{Z}_{M}^{-}$	$X_{\mathrm{BS}} = \mathbb{Z}_4$	$SI = z_{4m,0}^+$		
$\mathbb{Z}_4$	weak	$\{1 00\frac{1}{2}\}*$	$4^{001}$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$\bar{4}^{001}$	$Cm_{(2)}^{1\bar{1}0}$	$Cm_{(4)}^{001}$	
	(000)		0		0		0			
0	(000)	0	0	0	0	0	0	44	$4\overline{4}00$	
0	(000)	0	0	0	0	0	0	$2\overline{2}$	0000	
0	(000)	0	0	0	0	0	0	$\overline{2}2$	0000	
	\									
1	(000)	1	Ω	Ω	1	Ω	1	11	1100	
1	(000)	1	0	0	1	0	1	$\frac{1\overline{1}}{2\overline{2}}$	$1\overline{1}00$	
2	(000)	0	0	0	0	0	0	$2\overline{2}$	$2\overline{2}00$	
	/									
2	(000)	0 1	0	0	0	0	0 1	$\frac{2\overline{2}}{3\overline{3}}$	$\frac{2\overline{2}00}{3\overline{3}00}$	
3	(000) (000) 127	$ \begin{array}{c c} 0 \\ \hline 1 \\ \hline 7.397 & P_C 4 \end{array} $	$0 \\ 0 \\ 1/mbm$	0 0 Classificat	$0$ $1$ $tion = \mathbb{Z}_{M}^{3}$	0 0 1 X <sub>BS</sub>	0 1	$\frac{2\overline{2}}{3\overline{3}}$ $I = z_{4m,0}^+, z_4^+$	$\frac{2\overline{2}00}{3\overline{3}00}$	G 001
2	(000)	0 1	$0 \\ 0 \\ 1/mbm$	0 0 Classificat	0	0	0 1	$\frac{2\overline{2}}{3\overline{3}}$	$\frac{2\overline{2}00}{3\overline{3}00}$	$Cm_{(4)}^{001}$
$ \begin{array}{c} 2\\ 3\\ \hline \mathbb{Z}_{4,4} \end{array} $	(000) (000) 127 weak	$ \begin{array}{c} 0 \\ \hline 1 \\ 7.397  P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 4/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \end{array} $	$0 \\ \text{Classificat} \\ 2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$ \begin{array}{c} 0\\ 1\\ \hline tion = \mathbb{Z}_N^3\\ i \end{array} $	0 0 1 X <sub>BS</sub> 2 <sup>010</sup> *	$ \begin{array}{c} 0\\ 1\\ S = \mathbb{Z}_{4,4} & S \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \end{array} $	$   \begin{array}{r}     2\overline{2} \\     3\overline{3} \\ \hline     1 = z_{4m,0}^+, z_4^- \\     m_{100}* \end{array} $	$ \frac{2\overline{2}00}{3\overline{3}00} $ $ \frac{1}{Cm_{(2)}^{110}} $	
$ \begin{array}{c c} 2 \\ 3 \\ \hline  & \\ \hline  & \\  & \\ \hline  & \\  & \\  & \\  $	(000) (000) 127 weak (000)	$ \begin{array}{c c} 0 \\ \hline 1 \\ 7.397 & P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 4/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \end{array} $	$\begin{array}{c} 0\\ 0\\ \hline \text{Classificat}\\ 2\frac{1}{2}\frac{1}{2}\frac{1}{2}0\\ 0\\ \end{array}$	$ \begin{array}{c} 0 \\ \hline 1 \\ \hline tion = \mathbb{Z}_{\lambda}^{3} \\ i \\ 0 \end{array} $	$0 \ 0 \ X_{BS} \ 2^{010} * \ 0$	$ \begin{array}{c} 0 \\ \hline 1 \\ S = \mathbb{Z}_{4,4} & S \\ \hline 4 \frac{1001}{\frac{1}{2} \frac{1}{2} 0} * \\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \overline{1} = z_{4m,0}^+, z_4^- \\ \underline{m_{100}} * \\ 0 \end{array} $	$   \begin{array}{c c}     \hline     2\overline{2}00 \\     \hline     3\overline{3}00 \\     \hline     \hline     Cm_{(2)}^{110} \\     \hline     4\overline{4}   \end{array} $	$4\overline{4}00$
$ \begin{array}{c c} 2 \\ 3 \\ \hline  & \\ \hline  & \\  & \\ \hline  & \\  & \\  & \\  $	(000) (000) (000) 127 weak (000) (000)	$ \begin{array}{c} 0 \\ \hline 1 \\ 7.397  P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 4/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \text{Classificat} \\ \frac{2\frac{1}{1}\frac{1}{2}}{2}0 \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} 0 \\ 1 \\ tion = \mathbb{Z}_N^3 \\ i \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ X_{BS} \\ \hline 2^{010} * \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0\\ 1\\ S = \mathbb{Z}_{4,4} & S \\ \hline 4\frac{101}{\frac{1}{2}\frac{1}{2}0} * \\ 0\\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline I = z_{4m,0}^+, z_4^+ \\ \underline{m_{100}} * \\ 0 \\ 0 \end{array} $	$   \begin{array}{r}     2\overline{200} \\     3\overline{300} \\     \hline     m,\pi \\     Cm_{(2)}^{110} \\     \hline     4\overline{4} \\     \overline{44}   \end{array} $	$\frac{4\overline{4}00}{004\overline{4}}$
$ \begin{array}{c c} \hline 2 \\ \hline 3 \\ \hline  & \\ \hline  & \\ \hline  & \\  & \\ \hline  & \\  & \\$	(000) (000) 127 weak (000) (000) (000)	$ \begin{array}{c} 0 \\ 1 \\ 7.397  P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 4/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline \text{Classificat} \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} 0 \\ 1 \\ \hline tion = \mathbb{Z}_N^3 \\ 0 \\ 0 \\ 0 \end{array} $	$0 \ 0 \ X_{BS} \ 2^{010} * \ 0$	$ \begin{array}{c} 0 \\ \hline 1 \\ S = \mathbb{Z}_{4,4} & S \\ \hline 4 \frac{1001}{\frac{1}{2} \frac{1}{2} 0} * \\ 0 \end{array} $	$   \begin{array}{r}     2\overline{2} \\     3\overline{3} \\ \hline     1 = z_{4m,0}^+, z_4^- \\     m_{100}^+ \\     0 \end{array} $	$ \begin{array}{r}     2\overline{200} \\     3\overline{300} \\     \hline     m,\pi \\     Cm_{(2)}^{110} \\     \hline     4\overline{4} \\     \overline{44} \\     2\overline{2} $	$     \begin{array}{r}       4\overline{400} \\       004\overline{4} \\       \hline       0000     \end{array} $
$ \begin{array}{c c} 2 \\ 3 \\ \hline  & \\ \hline  & \\  & \\ \hline  & \\  & \\  & \\  $	(000) (000) (000) 127 weak (000) (000)	$ \begin{array}{c} 0 \\ \hline 1 \\ 7.397  P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 4/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \text{Classificat} \\ \frac{2\frac{1}{1}\frac{1}{2}}{2}0 \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} 0 \\ 1 \\ tion = \mathbb{Z}_N^3 \\ i \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ X_{BS} \\ \hline 2^{010} * \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0\\ 1\\ S = \mathbb{Z}_{4,4} & S \\ \hline 4\frac{101}{\frac{1}{2}\frac{1}{2}0} * \\ 0\\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline I = z_{4m,0}^+, z_4^+ \\ \underline{m_{100}} * \\ 0 \\ 0 \end{array} $	$   \begin{array}{r}     2\overline{200} \\     3\overline{300} \\     \hline     m,\pi \\     Cm_{(2)}^{110} \\     \hline     4\overline{4} \\     \overline{44}   \end{array} $	$\frac{4\overline{4}00}{004\overline{4}}$
$ \begin{array}{c c} \hline 2 \\ \hline 3 \\ \hline                              $	(000) (000) 127 weak (000) (000) (000) (000)	$ \begin{array}{c} 0 \\ 1 \\ 7.397  P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 4/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \text{Classificat} \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ \end{array} $	0 $1$ $0$ $i$ $0$ $0$ $0$ $0$ $0$	$ \begin{array}{c c} 0 \\ \hline 0 \\ \hline 1 & X_{BS} \\ \hline 2^{010} * \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \frac{001}{\frac{1}{2} \frac{1}{2} 0} * \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \overline{1} = z_{4m,0}^+, z_4^+ \\ \underline{m_{100}}^* \\ 0 \\ 0 \\ 0 \end{array} $	$   \begin{array}{r}     2\overline{200} \\     3\overline{300} \\     \hline     & Cm_{(2)}^{110} \\     \hline     & 4\overline{4} \\     \hline     & 2\overline{2} \\     \hline     & 2\overline{2}   \end{array} $	$   \begin{array}{r}     4\overline{400} \\     004\overline{4} \\     0000 \\     00\overline{44}   \end{array} $
$ \begin{array}{c c} \hline 2\\ \hline 3\\ \hline \hline Z_{4,4}\\ \hline 00\\ 00\\ \hline 00\\ 00\\ \hline 01\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ \hline 1 \\ 7.397  P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 4/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline Classificat \\ \frac{2\frac{110}{\frac{1}{2}\frac{1}{2}0}}{0} \\ 0 \\ 0 \\ 0 \\ \end{array}$	0 $1$ $0$ $i$ $0$ $0$ $0$ $0$ $1$	$ \begin{array}{c c} 0 \\ 0 \\ \hline 0 \\ 2^{010}* \\ 0 \\ 0 \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 0 \\ 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \frac{001}{\frac{1}{2} \frac{1}{2} 0} * \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ I = z_{4m,0}^+, z_4^+ \\ \hline  m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \end{array} $ $ \begin{array}{c} m,\pi \\ Cm_{(2)}^{110} \end{array} $ $ \begin{array}{c} 4\overline{4} \\ 2\overline{2} \\ 2\overline{2} \end{array} $ $ \begin{array}{c} 11 \end{array} $	$   \begin{array}{r}     4\overline{400} \\     004\overline{4} \\     0000 \\     00\overline{44} \\     001\overline{1}   \end{array} $
$ \begin{array}{c c} \hline 2\\ \hline 3\\ \hline \hline Z_{4,4}\\ \hline 00\\ 00\\ \hline 00\\ \hline 00\\ 01\\ \hline 02\\ \end{array} $	(000) (000) (000) 127 weak (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ \hline 1 \\ 7.397  P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 4/mbm \\ 4\frac{101}{2\frac{1}{2}0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \end{array}$	0 $1$ $0$ $i$ $0$ $0$ $0$ $0$ $1$ $0$	0 0 7 X <sub>BS</sub> 2 <sup>010</sup> * 0 0 0 0 0	$ \begin{array}{c} 0 \\ 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \frac{001}{\frac{1}{2} \frac{1}{2} 0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ I = z_{4m,0}^+, z_4^+ \\ \hline  m_{100}^+ * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \end{array} $ $ \begin{array}{c} m,\pi \\ Cm^{(110)} \\ 4\overline{4} \\ 4\underline{4} \\ 2\overline{2} \\ 2\overline{2} \\ 11 \\ \overline{2}2 \end{array} $	$   \begin{array}{r}     4\overline{400} \\     004\overline{4} \\     0000 \\     00\overline{44} \\     001\overline{1} \\     002\overline{2}   \end{array} $
$ \begin{array}{c c} \hline 2\\ \hline 3\\ \hline \hline Z_{4,4}\\ 00\\ 00\\ 00\\ \hline 00\\ 01\\ 02\\ 03\\ \end{array} $	(000) (000) 127 weak (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ \hline 1 \\ 7.397  P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ \hline 4/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline Classificat \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} 0\\ 1\\ \hline 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1 \end{array} $	0 0 7 X <sub>BS</sub> 2 <sup>010</sup> * 0 0 0 0 1 0	$ \begin{array}{c} 0 \\ 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline I = z_{4m,0}^+, z_4^- \\ \hline m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \end{array} $ $ \begin{array}{c} m,\pi \\ Cm^{(110)} \\ 4\overline{4} \\ 4\underline{4} \\ 2\overline{2} \\ 2\overline{2} \\ 11 \\ \overline{2}2 \\ \overline{3}3 \end{array} $	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \end{array}$
$ \begin{array}{c c} \hline 2\\ \hline 3\\ \hline \hline Z_{4,4}\\ \hline 00\\ 00\\ \hline 00\\ \hline 00\\ 01\\ \hline 02\\ \end{array} $	(000) (000) (000) 127 weak (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ \hline 1 \\ 7.397  P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 4/mbm \\ 4\frac{101}{2\frac{1}{2}0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} 0\\ 1\\ \hline 1\\ \hline 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 1 \end{array} $	0 0 7 X <sub>BS</sub> 2 <sup>010</sup> * 0 0 0 0 0	$ \begin{array}{c} 0 \\ 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \frac{001}{\frac{1}{2} \frac{1}{2} 0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ I = z_{4m,0}^+, z_4^+ \\ \hline  m_{100}^+ * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \end{array} $ $ \begin{array}{c} m,\pi \\ Cm^{(110)} \\ 4\overline{4} \\ 4\underline{4} \\ 2\overline{2} \\ 2\overline{2} \\ 11 \\ \overline{2}2 \end{array} $	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ \end{array}$
$ \begin{array}{c c} \hline 2\\ \hline 3\\ \hline \hline Z_{4,4}\\ 00\\ 00\\ 00\\ \hline 00\\ 01\\ 02\\ 03\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ \hline 1 \\ 7.397  P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 4/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline Classificat \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} 0\\ 1\\ \hline 1\\ \hline 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 1 \end{array} $	0 0 7 X <sub>BS</sub> 2 <sup>010</sup> * 0 0 0 0 1 0	$ \begin{array}{c} 0 \\ 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline I = z_{4m,0}^+, z_4^- \\ \hline m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \end{array} $ $ \begin{array}{c} m,\pi \\ Cm^{(110)} \\ 4\overline{4} \\ 4\underline{4} \\ 2\overline{2} \\ 2\overline{2} \\ 11 \\ \overline{2}2 \\ \overline{3}3 \end{array} $	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ \end{array}$
$ \begin{array}{c c} \hline 2\\ \hline 3\\ \hline \hline \mathbb{Z}_{4,4}\\ \hline 00\\ 00\\ \hline 00\\ \hline 00\\ \hline 01\\ \hline 02\\ \hline 03\\ \hline 10\\ \hline 11\\ \hline \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ 1 \\ 7.397  P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 4/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline \\ Classificat \\ 2\frac{110}{2\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c} 0 \\ 1 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \end{array} $	$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 2^{010}* \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ \hline m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} \hline 2\overline{2}00 \\ 3\overline{3}00 \end{array} $ $ \begin{array}{c c} \hline m_{,\pi} \\ \hline Cm_{(2)}^{110} \end{array} $ $ \begin{array}{c c} \hline 44 \\ 22 \\ \hline 22 \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ \hline 1\overline{1} \\ 00 \end{array} $	$\begin{array}{c} 4\overline{4}00 \\ 0044 \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ 1\overline{1}1\overline{1} \end{array}$
$ \begin{array}{c c} \hline 2\\ \hline 3\\ \hline \hline Z_{4,4}\\ \hline 00\\ 00\\ \hline 00\\ \hline 01\\ \hline 02\\ \hline 03\\ \hline 10\\ \hline 11\\ \hline 12\\ \hline \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ 1 \\ 7.397  P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 1/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ 2\frac{110}{2\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	$ \begin{array}{c} 0 \\ 1 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	0 0 0 2010* 0 0 0 0 1 0 1 1 0	$\begin{array}{c} 0\\ 1\\ S = \mathbb{Z}_{4,4} & S \\ \hline 4_{\frac{1}{2},\frac{1}{2},0}^{001} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ m,\pi \\ Cm_{(2)}^{110} \\ \hline 44 \\ 2\overline{2} \\ 2\overline{2} \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ 1\overline{1} \\ 00 \\ \hline 11 \\ \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ \overline{1}\overline{1}00 \\ \overline{1}\overline{1}\overline{1} \\ \overline{1}\overline{1}\overline{2}\overline{2} \\ \end{array}$
$ \begin{array}{c c} \hline 2\\ \hline 3\\ \hline \hline \mathbb{Z}_{4,4}\\ \hline 00\\ 00\\ 00\\ \hline 01\\ 02\\ \hline 03\\ \hline 10\\ \hline 11\\ 12\\ \hline 13\\ \hline \end{array} $	(000) (000) 127 weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ 1 \\ \hline 7.397 & P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c} 0 \\ 0 \\ 1/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ 2\frac{110}{2\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\$	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \end{array} $	0 0 0 2010* 0 0 0 0 1 0 1 1 0 1	$\begin{array}{c} 0\\ 1\\ S = \mathbb{Z}_{4,4} & S\\ \hline 4_{\frac{1}{2}\frac{1}{2}0}^{001} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ \hline m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ m,\pi \\ Cm^{(110)}_{(2)} \\ \hline 44 \\ 2\overline{2} \\ 2\overline{2} \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ 1\overline{1} \\ 00 \\ \hline 11 \\ \hline 22 \\ \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ \hline 004\overline{4} \\ 0000 \\ \hline 00\overline{4}4 \\ \hline 001\overline{1} \\ 002\overline{2} \\ \hline 003\overline{3} \\ 1\overline{1}00 \\ \hline 1\overline{1}1 \\ \hline 1\overline{1}2\overline{2} \\ 1\overline{1}3\overline{3} \\ \end{array}$
$ \begin{array}{c c} \hline 2\\ \hline 3\\ \hline \hline Z_{4,4}\\ \hline 00\\ 00\\ \hline 00\\ \hline 01\\ \hline 02\\ \hline 03\\ \hline 10\\ \hline 11\\ \hline 12\\ \hline \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ 1 \\ 7.397  P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 1/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ 2\frac{110}{2\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	$ \begin{array}{c} 0 \\ 1 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	0 0 0 2010* 0 0 0 0 1 0 1 1 0	$\begin{array}{c} 0\\ 1\\ S = \mathbb{Z}_{4,4} & S \\ \hline 4_{\frac{1}{2},\frac{1}{2},0}^{001} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ m,\pi \\ Cm_{(2)}^{110} \\ \hline 44 \\ 2\overline{2} \\ 2\overline{2} \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ 1\overline{1} \\ 00 \\ \hline 11 \\ \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ 1\overline{1}11 \\ 1\overline{1}2\overline{2} \\ 1\overline{1}3\overline{3} \\ 2\overline{2}00 \\ \end{array}$
$ \begin{array}{c c} \hline 2\\ \hline 3\\ \hline \hline \mathbb{Z}_{4,4}\\ \hline 00\\ 00\\ 00\\ \hline 01\\ 02\\ \hline 03\\ \hline 10\\ \hline 11\\ 12\\ \hline 13\\ \hline \end{array} $	(000) (000) 127 weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ 1 \\ \hline 7.397 & P_C 4 \\ \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c} 0 \\ 0 \\ 1/mbm \\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ 2\frac{110}{2\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\$	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \end{array} $	0 0 0 2010* 0 0 0 0 1 0 1 1 0 1	$\begin{array}{c} 0\\ 1\\ S = \mathbb{Z}_{4,4} & S\\ \hline 4_{\frac{1}{2}\frac{1}{2}0}^{001} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ \hline m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ m,\pi \\ Cm^{(110)}_{(2)} \\ \hline 44 \\ 2\overline{2} \\ 2\overline{2} \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ 1\overline{1} \\ 00 \\ \hline 11 \\ \hline 22 \\ \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ \hline 004\overline{4} \\ 0000 \\ \hline 00\overline{4}4 \\ \hline 001\overline{1} \\ 002\overline{2} \\ \hline 003\overline{3} \\ 1\overline{1}00 \\ \hline 1\overline{1}1 \\ \hline 1\overline{1}2\overline{2} \\ 1\overline{1}3\overline{3} \\ \end{array}$
$ \begin{array}{c c} \hline 2\\ \hline 3\\ \hline \hline Z_{4,4}\\ \hline 00\\ 00\\ 00\\ \hline 00\\ 01\\ \hline 02\\ \hline 03\\ \hline 10\\ \hline 11\\ \hline 12\\ \hline 13\\ \hline 20\\ \hline 21\\ \hline \end{array} $	(000) (000) (000)  127 weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ 1 \\ \hline 1.397 & P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}*\\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 4 \\ \frac{1}{2} \frac{1}{2} 0 * \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$\begin{array}{c} 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	0 0 7 XBS 2010** 0 0 0 1 0 1 1 0 0 1 0 0	$\begin{array}{c} 0 \\ 1 \\ \hline 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \frac{001}{\frac{1}{2} \frac{1}{2} 0} * \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ \hline m_{100}^+, z_4^- \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \\ R_{0},\pi \\ \hline Cm_{(2)}^{110} \\ \hline 4\overline{4} \\ \hline 2\overline{2} \\ \hline 2\overline{2} \\ \hline \overline{1}1 \\ \hline 2\overline{2} \\ \hline 3\overline{3} \\ \hline 1\overline{1} \\ \hline 00 \\ \hline 11 \\ \hline 2\overline{2} \\ \hline 2\overline{2} \\ \hline 1\overline{1} \\ \hline \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ 1\overline{1}1\overline{1} \\ 1\overline{1}2\overline{2} \\ 1\overline{1}3\overline{3} \\ 2\overline{2}00 \\ 2\overline{2}1\overline{1} \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline \\ \hline \\ \hline \\ 24,4\\ \hline \\ 00\\ \hline \\ 01\\ \hline \\ 02\\ \hline \\ 03\\ \hline \\ 10\\ \hline \\ 11\\ \hline \\ 12\\ \hline \\ 13\\ \hline \\ 20\\ \hline \\ 21\\ \hline \\ 22\\ \\ \end{array}$	(000) (000) (000)  127 weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ 1 \\ \hline 1.397  P_{C} 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 4 \frac{1001}{2 \frac{1}{2}0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline \\ Classificat \\ \frac{2\frac{110}{\frac{1}{2}\frac{1}{2}0}}{0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \end{array} $	0 0 7 XBS 2010* 0 0 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0\\ 1\\ \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \\ \frac{1}{2} \\ \frac{1}{2} \\ 0 \\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \\ Cm^{,\pi} \\ Cm^{(2)} \\ \hline 4\overline{4} \\ \hline 4\underline{4} \\ \hline 2\overline{2} \\ \hline 2\overline{2} \\ \hline 11 \\ \hline 2\underline{2} \\ \hline 3\overline{3} \\ \hline 1\overline{1} \\ \hline 00 \\ \hline 11 \\ \hline 2\underline{2} \\ \hline 2\overline{2} \\ \hline 1\overline{1} \\ \hline 00 \\ \hline 00 \\ \hline \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ \overline{1}\overline{1}00 \\ \overline{1}\overline{1}\overline{1} \\ \overline{1}\overline{1}22 \\ \overline{1}\overline{1}3\overline{3} \\ \overline{2}\overline{2}00 \\ \overline{2}\overline{2}\overline{1}\overline{1} \\ \overline{2}\overline{2}\overline{2}\overline{2} \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline \\ \hline \\ \hline \\ 24,4\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 01\\ \hline \\ 02\\ \hline \\ 03\\ \hline \\ 10\\ \hline \\ 11\\ \hline \\ 12\\ \hline \\ 13\\ \hline \\ 20\\ \hline \\ 21\\ \hline \\ 22\\ \hline \\ 23\\ \\ \end{array}$	(000) (000) (000)  127 weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ 1 \\ \hline 7.397  P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ \hline 0 \\ 1 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	0 0 7 XBS 2010* 0 0 0 0 1 0 1 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1	$\begin{array}{c} 0\\ 1\\ \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \\ \frac{1}{2} \\ \frac{1}{2} \\ 0 \\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ 3\overline{3}00 \\ \hline \\ Cm^{,\pi} \\ Cm^{(110)} \\ 4\overline{4} \\ \hline \\ 44 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 33 \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 00 \\ 00 \\ \hline \\ 00 \\$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ \overline{1100} \\ \overline{1111} \\ \overline{1122} \\ \overline{1133} \\ \overline{2200} \\ \overline{2211} \\ \overline{2222} \\ \overline{2233} \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline \\ \hline \\ \hline \\ 24,4\\ \hline \\ 00\\ \hline \\ 01\\ \hline \\ 02\\ \hline \\ 03\\ \hline \\ 10\\ \hline \\ 11\\ \hline \\ 12\\ \hline \\ 13\\ \hline \\ 20\\ \hline \\ 21\\ \hline \\ 22\\ \\ \end{array}$	(000) (000) (000)  127 weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ 1 \\ \hline 1.397  P_{C} 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 4 \frac{1001}{2 \frac{1}{2}0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline \\ Classificat \\ \frac{2\frac{110}{\frac{1}{2}\frac{1}{2}0}}{0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \end{array} $	0 0 7 XBS 2010* 0 0 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0\\ 1\\ \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \\ \frac{1}{2} \\ \frac{1}{2} \\ 0 \\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \\ Cm^{,\pi} \\ Cm^{(2)} \\ \hline 4\overline{4} \\ \hline 4\underline{4} \\ \hline 2\overline{2} \\ \hline 2\overline{2} \\ \hline 11 \\ \hline 2\underline{2} \\ \hline 3\overline{3} \\ \hline 1\overline{1} \\ \hline 00 \\ \hline 11 \\ \hline 2\underline{2} \\ \hline 2\overline{2} \\ \hline 1\overline{1} \\ \hline 00 \\ \hline 00 \\ \hline \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4} \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ \overline{1}\overline{1}00 \\ \overline{1}\overline{1}1\overline{1} \\ 1\overline{1}2\overline{2} \\ 1\overline{1}3\overline{3} \\ 2\overline{2}00 \\ 2\overline{2}1\overline{1} \\ 2\overline{2}2\overline{2} \\ 2\overline{2}3\overline{3} \\ \overline{3}\overline{3}00 \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline \\ \hline \\ \hline \\ 24,4\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 01\\ \hline \\ 02\\ \hline \\ 03\\ \hline \\ 10\\ \hline \\ 11\\ \hline \\ 12\\ \hline \\ 13\\ \hline \\ 20\\ \hline \\ 21\\ \hline \\ 22\\ \hline \\ 23\\ \hline \\ 30\\ \\ \end{array}$	(000) (000) (000)  127 weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ 1 \\ \hline 7.397  P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	0 0 7 XBS 2010* 0 0 0 0 1 0 1 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1	$\begin{array}{c} 0\\ 1\\ \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \\ \frac{1}{2} \\ \frac{1}{2} \\ 0 \\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ 3\overline{3}00 \\ \hline \\ Cm^{,\pi} \\ Cm^{(110)} \\ 4\overline{4} \\ \hline \\ 44 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 33 \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 00 \\ 00 \\ \hline \\ 00 \\$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ \overline{1}\overline{1}00 \\ \overline{1}\overline{1}1\overline{1} \\ \overline{1}\overline{1}2\overline{2} \\ \overline{1}\overline{1}3\overline{3} \\ \overline{2}\overline{2}00 \\ \overline{2}\overline{2}\overline{1}\overline{1} \\ \overline{2}\overline{2}2\overline{2} \\ \overline{2}\overline{2}3\overline{3} \\ \overline{3}\overline{3}00 \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline \\ \hline \\ \hline \\ 24,4\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 01\\ \hline \\ 02\\ \hline \\ 03\\ \hline \\ 10\\ \hline \\ 11\\ \hline \\ 12\\ \hline \\ 13\\ \hline \\ 20\\ \hline \\ 21\\ \hline \\ 22\\ \hline \\ 23\\ \hline \\ 30\\ \hline \\ 31\\ \\ \end{array}$	(000) (000) (000)  127 weak (000)	$ \begin{array}{c c} 0 \\ 1 \\ \hline 1.397 & P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 1/mbm\\ 4\frac{1001}{2\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	0 0 0 7 XBS 2010** 0 0 0 0 1 0 1 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 1 0	$\begin{array}{c} 0 \\ 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \frac{1}{2} \frac{1}{2} \frac{1}{0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ \hline m_{100}^+, z_4^- \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ 3\overline{3}00 \\ \hline \\ Cm^{,\pi} \\ Cm^{(110)} \\ 4\overline{4} \\ 4\overline{4} \\ 2\overline{2} \\ 2\overline{2} \\ \hline 11 \\ \overline{2}2 \\ \overline{3}3 \\ 1\overline{1} \\ 00 \\ \overline{1}1 \\ \overline{2}2 \\ 2\overline{2} \\ 1\overline{1} \\ 00 \\ \overline{1}1 \\ 3\overline{3} \\ 2\overline{2} \\ \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ \overline{1100} \\ \overline{1111} \\ \overline{1122} \\ \overline{1133} \\ \overline{2200} \\ \overline{2211} \\ \overline{2222} \\ \overline{2233} \\ \overline{3300} \\ \overline{3311} \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ 24,4\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 01\\ \hline \\ 02\\ \hline \\ 03\\ \hline \\ 10\\ \hline \\ 11\\ \hline \\ 12\\ \hline \\ 13\\ \hline \\ 20\\ \hline \\ 21\\ \hline \\ 22\\ \hline \\ 23\\ \hline \\ 30\\ \hline \\ 31\\ \hline \\ 32\\ \\ \end{array}$	(000) (000) (000)  127 weak (000)	$ \begin{array}{c c} 0 \\ \hline 1 \\ 7.397 & P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c} 0\\ 0\\ 0\\ \hline 0\\ 0\\ \hline 0\\ 4/mbm\\ 4^{001}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 1\\ 0\\ 1\\ 1\\ 1\\ 0\\ 1\\ 1\\ 1\\ 0\\ 1\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	0 0 0 7 XBS 2010** 0 0 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 1 0 1	$\begin{array}{c} 0 \\ 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \frac{1001}{2} \frac{1}{2} 0^* \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ m_{100}^+ \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ \hline \\ N_{110} \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 33 \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 11 \\ \hline \\ 3\overline{3} \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 11 \\ \\ 11 \\ \hline \\ 11 \\ \\ 11 \\ \hline \\ 1$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ 1\overline{1}11 \\ 1\overline{1}22 \\ 1\overline{1}3\overline{3} \\ 2\overline{2}00 \\ 2\overline{2}1\overline{1} \\ 2\overline{2}22 \\ 2\overline{2}3\overline{3} \\ 3\overline{3}00 \\ 3\overline{3}1\overline{1} \\ 3\overline{3}22 \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline \\ \hline \\ \hline \\ 24,4\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 01\\ \hline \\ 02\\ \hline \\ 03\\ \hline \\ 10\\ \hline \\ 11\\ \hline \\ 12\\ \hline \\ 13\\ \hline \\ 20\\ \hline \\ 21\\ \hline \\ 22\\ \hline \\ 23\\ \hline \\ 30\\ \hline \\ 31\\ \\ \end{array}$	(000) (000) (000)  127 weak (000)	$ \begin{array}{c c} 0 \\ 1 \\ \hline 1.397 & P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 1/mbm\\ 4\frac{1001}{2\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	0 0 0 7 XBS 2010** 0 0 0 0 1 0 1 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 1 0	$\begin{array}{c} 0 \\ 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \frac{1}{2} \frac{1}{2} \frac{1}{0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline 1 = z_{4m,0}^+, z_4^- \\ \hline m_{100}^+, z_4^- \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ 3\overline{3}00 \\ \hline \\ Cm^{,\pi} \\ Cm^{(110)} \\ 4\overline{4} \\ 4\overline{4} \\ 2\overline{2} \\ 2\overline{2} \\ \hline 11 \\ \overline{2}2 \\ \overline{3}3 \\ 1\overline{1} \\ 00 \\ \overline{1}1 \\ \overline{2}2 \\ 2\overline{2} \\ 1\overline{1} \\ 00 \\ \overline{1}1 \\ 3\overline{3} \\ 2\overline{2} \\ \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ \overline{1100} \\ \overline{1111} \\ \overline{1122} \\ \overline{1133} \\ \overline{2200} \\ \overline{2211} \\ \overline{2222} \\ \overline{2233} \\ \overline{3300} \\ \overline{3311} \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ 24,4\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 01\\ \hline \\ 02\\ \hline \\ 03\\ \hline \\ 10\\ \hline \\ 11\\ \hline \\ 12\\ \hline \\ 13\\ \hline \\ 20\\ \hline \\ 21\\ \hline \\ 22\\ \hline \\ 23\\ \hline \\ 30\\ \hline \\ 31\\ \hline \\ 32\\ \\ \end{array}$	(000) (000) (000)  127 weak (000)	$\begin{array}{c c} 0\\ 1\\ 7.397 & P_{C}4\\ 1 \frac{1}{2}\frac{1}{2}0\}*\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ Classificat $\frac{2\frac{110}{2}\frac{1}{2}0}{0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	0 0 0 0 2010* 0 0 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 1	$\begin{array}{c} 0\\ 1\\ \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline \\ 1 = z_{4m,0}^+, z_4^- \\ \hline \\ m_{100}* \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ \hline \\ N_{110} \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 33 \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 11 \\ \hline \\ 3\overline{3} \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 11 \\ \\ 11 \\ \hline \\ 11 \\ \\ 11 \\ \hline \\ 1$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ 1\overline{1}11 \\ 1\overline{1}22 \\ 1\overline{1}3\overline{3} \\ 2\overline{2}00 \\ 2\overline{2}1\overline{1} \\ 2\overline{2}22 \\ 2\overline{2}3\overline{3} \\ 3\overline{3}00 \\ 3\overline{3}1\overline{1} \\ 3\overline{3}22 \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ 24,4\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 01\\ \hline \\ 02\\ \hline \\ 03\\ \hline \\ 10\\ \hline \\ 11\\ \hline \\ 12\\ \hline \\ 13\\ \hline \\ 20\\ \hline \\ 21\\ \hline \\ 22\\ \hline \\ 23\\ \hline \\ 30\\ \hline \\ 31\\ \hline \\ 32\\ \hline \\ 33\\ \hline \\ \end{array}$	(000) (000) (000)  127 weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ 1 \\ \hline 7.397 & P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0\\ 0\\ 0\\ 1/mbm\\ 4/mbm\\ 4\frac{1}{2}\frac{1}{2}0*\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 2\frac{110}{2}\frac{1}{2}0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} 0 \\ 1 \\ \hline tion = \mathbb{Z}_{\Lambda}^{3} \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ fication = \end{array} $	$egin{array}{c} 0 & 0 & 0 & 0 \\ \hline 0 & X_{BS} & 2^{010}* & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & 0 \\ \hline 0 & 1 & 0 & 0 & 0 & 0 \\ \hline 0 & 0 & 0 & 0 & 0 & 0 \\ \hline 0 & $	$\begin{array}{c} 0\\ 1\\ \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4_{\frac{1}{2}\frac{1}{2}0}^{001} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline \\ I = z_{4m,0}^+, z_4^- \\ \hline \\ m_{100}* \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ \hline \\ n,\pi \\ \hline \\ Cm^{110}_{(2)} \\ \hline \\ 4\overline{4} \\ \hline \\ 4\overline{4} \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 22 \\ \hline \\ 3\overline{3} \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ \overline{1}1 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ 00 \\ \hline \\ \overline{1}1 \\ \hline \\ 3\overline{3} \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 00 \\ \hline \\ \hline \\ 00 \\ \hline \\ \hline$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ 1\overline{1}11 \\ 1\overline{1}22 \\ 1\overline{1}3\overline{3} \\ 2\overline{2}00 \\ 2\overline{2}1\overline{1} \\ 2\overline{2}22 \\ 2\overline{2}3\overline{3} \\ 3\overline{3}00 \\ 3\overline{3}1\overline{1} \\ 3\overline{3}22 \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ 24,4\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 01\\ \hline \\ 02\\ \hline \\ 03\\ \hline \\ 10\\ \hline \\ 11\\ \hline \\ 12\\ \hline \\ 13\\ \hline \\ 20\\ \hline \\ 21\\ \hline \\ 22\\ \hline \\ 23\\ \hline \\ 30\\ \hline \\ 31\\ \hline \\ 32\\ \\ \end{array}$	(000) (000) (000)  127 weak (000)	$\begin{array}{c c} 0\\ 1\\ 7.397 & P_{C}4\\ 1 \frac{1}{2}\frac{1}{2}0\}*\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ Classificat $\frac{2\frac{110}{2}\frac{1}{2}0}{0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	0 0 0 0 2010* 0 0 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 1	$\begin{array}{c} 0\\ 1\\ \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline \\ 1 = z_{4m,0}^+, z_4^- \\ \hline \\ m_{100}* \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ \hline \\ N_{110} \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 33 \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 11 \\ \hline \\ 3\overline{3} \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 11 \\ \\ 11 \\ \hline \\ 11 \\ \\ 11 \\ \hline \\ 1$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ 1\overline{1}11 \\ 1\overline{1}22 \\ 1\overline{1}3\overline{3} \\ 2\overline{2}00 \\ 2\overline{2}1\overline{1} \\ 2\overline{2}22 \\ 2\overline{2}3\overline{3} \\ 3\overline{3}00 \\ 3\overline{3}1\overline{1} \\ 3\overline{3}22 \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ 24,4\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 00\\ \hline \\ 01\\ \hline \\ 02\\ \hline \\ 03\\ \hline \\ 10\\ \hline \\ 11\\ \hline \\ 12\\ \hline \\ 13\\ \hline \\ 20\\ \hline \\ 21\\ \hline \\ 22\\ \hline \\ 23\\ \hline \\ 30\\ \hline \\ 31\\ \hline \\ 32\\ \hline \\ 33\\ \hline \\ \end{array}$	(000) (000) (000)  127 weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 0 \\ 1 \\ \hline 7.397 & P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0\\ 0\\ 0\\ 1/mbm\\ 4/mbm\\ 4\frac{1}{2}\frac{1}{2}0*\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 2\frac{110}{2}\frac{1}{2}0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} 0 \\ 1 \\ \hline tion = \mathbb{Z}_{\Lambda}^{3} \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ fication = \end{array} $	$egin{array}{c} 0 & 0 & 0 & 0 \\ \hline 0 & X_{BS} & 2^{010}* & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & 0 \\ \hline 0 & 1 & 0 & 0 & 0 & 0 \\ \hline 0 & 0 & 0 & 0 & 0 & 0 \\ \hline 0 & $	$\begin{array}{c} 0\\ 1\\ \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4_{\frac{1}{2}\frac{1}{2}0}^{001} *\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline \\ I = z_{4m,0}^+, z_4^- \\ \hline \\ m_{100}* \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ \hline \\ n,\pi \\ \hline \\ Cm^{110}_{(2)} \\ \hline \\ 4\overline{4} \\ \hline \\ 4\overline{4} \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 22 \\ \hline \\ 3\overline{3} \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ \overline{1}1 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ 00 \\ \hline \\ \overline{1}1 \\ \hline \\ 3\overline{3} \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 00 \\ \hline \\ \hline \\ 00 \\ \hline \\ \hline$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ 1\overline{1}11 \\ 1\overline{1}22 \\ 1\overline{1}3\overline{3} \\ 2\overline{2}00 \\ 2\overline{2}1\overline{1} \\ 2\overline{2}22 \\ 2\overline{2}3\overline{3} \\ 3\overline{3}00 \\ 3\overline{3}1\overline{1} \\ 3\overline{3}22 \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline$	(000) (000)	$ \begin{array}{c c} 0 \\ \hline 1 \\ 7.397 & P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ 0 \\ \hline 4/mbm \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 0\\ 0\\ \hline 0\\ \hline 0\\ \hline 0\\ \hline 0\\ \hline 2^{110}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$ \frac{0}{1} $ $ \frac{1}{i} $ $ 0$ $ 0$ $ 0$ $ 0$ $ 1$ $ 0$ $ 1$ $ 0$ $ 1$ $ 0$ $ 1$ $ 0$ $ 1$ $ 0$ $ 1$ $ 0$ $ fication = i$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$\begin{array}{c} 0 \\ 1 \\ \hline 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \frac{1}{2} \frac{1}{2} \frac{1}{0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline \\ I = z_{4m,0}^+, z_4^- \\ \hline \\ m_{100}^+, z_4^- \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ 3\overline{3}00 \\ \hline \\ \\ m,\pi \\ \hline \\ Cm^{110}_{(2)} \\ \hline \\ 4\overline{4} \\ \hline \\ 4\overline{4} \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ 00 \\ \hline \\ 11 \\ \hline \\ 3\overline{3} \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ 00 \\ \hline \\ \hline \\ Cm^{110}_{(2)} \\ \hline \\ 4\overline{4} \\ \\ \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ 1\overline{1}11 \\ 1\overline{1}22 \\ 1\overline{1}3\overline{3} \\ 2\overline{2}00 \\ 2\overline{2}1\overline{1} \\ 2\overline{2}22 \\ 2\overline{2}3\overline{3} \\ 3\overline{3}00 \\ 3\overline{3}1\overline{1} \\ 3\overline{3}22 \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \mathbb{Z}_{4,4}\\ \hline 00\\ 00\\ \hline 00\\ \hline 00\\ \hline 01\\ \hline 02\\ \hline 03\\ \hline 10\\ \hline 11\\ \hline 12\\ \hline 13\\ \hline 20\\ \hline 21\\ \hline 22\\ \hline 23\\ \hline 30\\ \hline 31\\ \hline 32\\ \hline 33\\ \hline \\ \mathbb{Z}_{4}\\ \hline 0\\ \hline 0\\ \end{array}$	(000) (000)	$\begin{array}{c c} 0\\ 1\\ \hline 1\\ 7.397 & P_C 4\\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ 0\\ 1\\ 1\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0\\ 0\\ 0\\ \hline 0\\ 0\\ \hline 0\\ \hline 0\\ \hline 4/mbm\\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ \hline 1\\ 0\\ 0\\ \hline 0\\ 0\\ \hline P_I4/mb\\ \hline 4^{001}\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ \hline 2\frac{110}{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$\begin{array}{c} 0 \\ 1 \\ \hline 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \frac{1}{2} \frac{1}{2} \frac{1}{0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline \\ I = z_{4m,0}^+, z_4^- \\ \hline \\ m_{100}^+, z_4^- \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ 3\overline{3}00 \\ \hline \\ \\ m,\pi \\ \hline \\ Cm^{110}_{(2)} \\ \hline \\ 4\overline{4} \\ \hline \\ 4\overline{4} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 3\overline{3} \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ 11 \\ \hline \\ 3\overline{3} \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 00 \\ \hline \\ \hline \\ 14 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 20 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 20 \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ \hline \\ 2\overline{2} \\ \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \\ 2$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ 1\overline{1}11 \\ 1\overline{1}22 \\ 1\overline{1}3\overline{3} \\ 2\overline{2}00 \\ 2\overline{2}1\overline{1} \\ 2\overline{2}22 \\ 2\overline{2}3\overline{3} \\ 3\overline{3}00 \\ 3\overline{3}1\overline{1} \\ 3\overline{3}22 \\ \end{array}$
$\begin{array}{c c} 2\\ \hline 3\\ \hline \\ \hline$	(000) (000)	$ \begin{array}{c c} 0 \\ \hline 1 \\ 7.397 & P_C 4 \\ \hline \{1 \frac{1}{2}\frac{1}{2}0\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ 0 \\ \hline 4/mbm \\ \hline 4^{001}_{\frac{1}{2}\frac{1}{2}0}* \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 0\\ 0\\ \hline 0\\ \hline 0\\ \hline 0\\ \hline 0\\ \hline 2^{110}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$ \frac{0}{1} $ $ \frac{1}{i} $ $ 0$ $ 0$ $ 0$ $ 0$ $ 1$ $ 0$ $ 1$ $ 0$ $ 1$ $ 0$ $ 1$ $ 0$ $ 1$ $ 0$ $ 1$ $ 0$ $ fication = i$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$\begin{array}{c} 0 \\ 1 \\ \hline 1 \\ S = \mathbb{Z}_{4,4}  S \\ \hline 4 \frac{1}{2} \frac{1}{2} \frac{1}{0} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2\overline{2} \\ 3\overline{3} \\ \hline \\ I = z_{4m,0}^+, z_4^- \\ \hline \\ m_{100}^+, z_4^- \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\overline{2}00 \\ 3\overline{3}00 \\ \hline \\ 3\overline{3}00 \\ \hline \\ \\ m,\pi \\ \hline \\ Cm^{110}_{(2)} \\ \hline \\ 4\overline{4} \\ \hline \\ 4\overline{4} \\ \hline \\ 2\overline{2} \\ \hline \\ 2\overline{2} \\ \hline \\ 11 \\ \hline \\ 22 \\ \hline \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ 00 \\ \hline \\ 11 \\ \hline \\ 3\overline{3} \\ 2\overline{2} \\ \hline \\ 1\overline{1} \\ 00 \\ \hline \\ \hline \\ Cm^{110}_{(2)} \\ \hline \\ 4\overline{4} \\ \\ \end{array}$	$\begin{array}{c} 4\overline{4}00 \\ 004\overline{4} \\ 0000 \\ 00\overline{4}4 \\ 001\overline{1} \\ 002\overline{2} \\ 003\overline{3} \\ 1\overline{1}00 \\ 1\overline{1}11 \\ 1\overline{1}22 \\ 1\overline{1}3\overline{3} \\ 2\overline{2}00 \\ 2\overline{2}1\overline{1} \\ 2\overline{2}2\overline{2} \\ 2\overline{2}3\overline{3} \\ 3\overline{3}00 \\ 3\overline{3}1\overline{1} \\ 3\overline{3}2\overline{2} \end{array}$

	(000)	1	0	1	1	1	1	$1\overline{1}00$	11
$\frac{1}{2}$	(000)	0	0	0	0	0	0	$\frac{1100}{2\overline{2}00}$	$\frac{11}{2\overline{2}}$
3	(000)	1	0	1	1	1	1	3300	33
		128.399	P4/mnc	Classi	fication =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_4$	$SI = z_{4m,0}^+$	
$\mathbb{Z}_4$	weak	$4^{001}$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$Cm_{(4)}^{001}$	
0	(000)	0	$\frac{\bar{2}  \bar{2}  \bar{2}}{0}$	0	$\frac{\bar{2}\bar{2}\bar{2}}{0}$	0	$0^{\frac{5}{2}\frac{1}{2}\frac{1}{2}}$	$4\overline{400}$	
0	(000)	0	0	0	0	0	0	0000	
1	(000)	0	0	1	0	1	1	$1\overline{1}00$	
2	(000)	0	0	0	0	0	0	$2\overline{2}00$	
3	(000)	0	0	1	0	1	1	3300	
		128.402	P4'/mn'		sification		$X_{BS} = \mathbb{Z}_4$		
$\mathbb{Z}_4$	weak	$4^{001}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{001}*$	$g_{rac{1}{2}rac{1}{2}rac{1}{2}}^{110}$	$Cm_{(2)}^{001}$	
0	(000)	0	0	0	0	0	0	$4\overline{4}00$	
0	(000)	0	0	0	0	0	0	0000	
3	(000)	1	1	1	0	0	1	1100	
$\frac{2}{1}$	(000)	0	0	$\frac{0}{1}$	0	0	$\frac{0}{1}$	$\frac{2200}{3\overline{3}00}$	
	(000)	128.403	P4'/mnc		sification :				
77.	rroolr	$\frac{128.403}{4^{001}}*$	2100	i	$\frac{2_{110}^{110}}{2_{111}^{11}}*$	$\frac{= \angle M}{\bar{4}^{001}*}$	$X_{BS} = \mathbb{Z}_4$ $g_{\frac{1}{2},\frac{1}{2},\frac{1}{2}}^{110} *$	$\frac{\text{SI} = z_{4P}'}{Cm_{(2)}^{001}}$	
$\frac{\mathbb{Z}_4}{0}$	weak		$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$		222		2 2 2		
$\frac{0}{0}$	(000)	0	0	0	0	0	0	$\frac{4\overline{4}00}{0000}$	
$\frac{0}{3}$	(000)	1	0	1	1	0	0	$\frac{0000}{1\overline{1}00}$	
$\frac{3}{2}$	(000)	0	0	0	0	0	0	$\frac{1100}{2\overline{2}00}$	
1	(000)	1	0	1	1	0	0	3300	
		128.404	P4'/m'n'	c Clas	sification	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_2 s_4$	
$\overline{\mathbb{Z}_2}$	weak	4001*	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	i*	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	2,54	
0	(000)	0	$\frac{\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}$	0	$\frac{\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}$	0	$\frac{3\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}$		
1	(000)	1	0	0	1	1	1		
	128.4	05 P4/m	n'c' Clas	sification	$\mathrm{on}=\mathbb{Z}_M$	$\times \mathbb{Z}$ X	$\Sigma_{\mathrm{BS}} = \mathbb{Z}_{4,4}$	$SI = z_{4m,0}^+,$	$z_{4m,\pi}^{+}$
$\mathbb{Z}_{4,4}$	weak	$4^{001}$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$\bar{4}^{001}$	$g_{rac{1}{2}rac{1}{2}rac{1}{2}}^{110}*$	$Cm_{(4)}^{001}$	±IIe, K
00	(000)	0	0	0	$\frac{222}{0}$	0	$\frac{222}{0}$	$4\overline{4}00$	
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	
$\frac{02}{03}$	(004)	0	0	$\frac{0}{1}$	0	0	$\frac{2}{3}$	0422 0633	
$\frac{00}{10}$	(000)	0	1	1	1	1	0	$\frac{0033}{1100}$	
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	$2\overline{2}00$	
$\frac{21}{22}$	(002)	0	0	1	0	1	1	2011	
22 23	(004)	0	0	$\frac{0}{1}$	0	0	$\frac{2}{3}$	2222 2433	
$\frac{23}{30}$	(000)	0	1	1	1	1	0	3300	
31	(002)	0	1	0	1	0	1	3111	
32	(004)	0	1	1	1	1	2	3122	
33	(006)	0	1	0	1	0	3	3333	
		128.406	P4'/m'nc	' Clas	sification		$X_{\mathrm{BS}} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	i*	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{001}$	$g_{rac{1}{2}rac{1}{2}rac{1}{2}rac{1}{2}}^{110}*$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	1	0	0	1	0		
		128.408	$P_c4/mnc$		fication =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_4$	$SI = z_{4m,0}^+$	
$\mathbb{Z}_4$	weak	$\{1 00\frac{1}{2}\}*$	$4^{001}$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	0	$4\overline{4}00$

0	(000)	0	0	0	0	0	0	0	0000
$\frac{0}{1}$	(000)	1	0	1	1	1	1	0	$1\overline{1}00$
$\frac{1}{2}$	(000)	0	0	0	0	0	0	0	$\frac{1100}{2\overline{2}00}$
$\frac{2}{3}$	(000)	1	0	1	1	1	1	0	$\frac{2200}{3\overline{3}00}$
	(000)								3300
		128.409	$P_C4/mnc$		sification =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_4$	$SI = z_{4m,0}^+$	~ 001
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	i	$2^{010}_{00\frac{1}{2}}*$	$\frac{\bar{4}^{001}_{\frac{1}{2}\frac{1}{2}0}*}{\bar{4}^{001}_{\frac{1}{2}\frac{1}{2}0}}*$	$g_{00\frac{1}{2}}^{100}*$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	0	$4\overline{4}00$
0	(000)	0	0	0	0	0	0	0	0000
1	(000)	1	1	0	1	1	0	0	$1\overline{1}00$
2	(000)	0	0	0	0	0	0	0	2200
3	(000)	1	1	0	1	1	0	0	$3\overline{3}00$
		128.410	$P_I4/mnc$	Class	sification =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_4$	$SI = z_{4m,0}^+$	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4^{001}$	$2^{100}*$	i	$2^{110}*$	$\bar{4}^{001}$	$m_{1\bar{1}0}*$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	0	$4\overline{400}$
0	(000)	0	0	0	0	0	0	0	0000
1	(000)	1	0	1	1	1	1	0	$1\overline{1}00$
2	(000)	0	0	0	0	0	0	0	$2\overline{2}00$
3	(000)	1	0	1	1	1	1	0	$3\overline{3}00$
	•	129.411	P4/nmm	ı Cla	ssification =	$=\mathbb{Z}_M^2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}00}$	$\frac{2^{100}_{\frac{1}{2}00}}{2^{100}_{\frac{1}{2}00}}$	$\frac{i}{i}$	$\frac{2^{110}_{\frac{1}{2}\frac{1}{2}0}}{2^{10}}$	$\frac{\bar{4}^{001}_{1200}}{\bar{4}^{200}_{1200}}$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{110}$	
$\frac{2}{0}$	(000)	$\frac{1}{2}00}{0}$	$\frac{2\frac{1}{2}00}{0}$	0	$\frac{\frac{2\frac{1}{2}\frac{1}{2}0}{0}}{0}$	$\frac{1}{2}00}{0}$	$\frac{2\overline{200}}{2\overline{200}}$	$\frac{2\overline{2}}{2\overline{2}}$	
$\frac{0}{0}$	(000)	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$		
$\frac{0}{0}$	(000)	0	0	0	0	0	0000	$\frac{00}{2\overline{2}}$	
$\frac{0}{1}$	(000)	0	0	1	0	1	$\frac{0000}{1\overline{1}00}$	$\frac{22}{1\overline{1}}$	
	(000)								
		129.414	P4'/nm'n		assification		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{\frac{1}{2}00}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$\bar{4}^{001}_{\frac{1}{2}00}*$	$Cm_{(2)}^{110}$		
0	(000)	0	0	0	0	0	$2\overline{2}$		
0	(000)	0	0	0	0	0	$2\overline{2}$		
1	(000)	1	1	1	0	0	$1\overline{1}$		
		129.415	P4'/nmm	n' Cla	assification	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{\frac{1}{2}00}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}_{\frac{1}{2}00}*$	$m_{1\bar{1}0}*$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	0	0	$\overline{2\overline{2}00}$	
0	(000)	0	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$	
$\frac{}{1}$	(000)	1	0	1	1	0	0	$1\overline{1}00$	
	()	129.416	P4'/n'm'n	a Cla	ssification	- 7.,	$X_{BS} = \mathbb{Z}_2$		
$\mathbb{Z}_2$	weak		$\frac{14/111111}{2100}$	$\frac{i}{i*}$			$\frac{R_{\rm BS} = 22}{Cm_{(0)}^{110}}$	$S1 = 22, S_4$	
		$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{\frac{1}{2}00}$		$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}_{\frac{1}{2}00}$			
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{1\overline{1}}$		
1	(000)	1	0	0	1	1	11		
			<i>nm'm'</i> C		$ation = \mathbb{Z}$		$X_{BS} = \mathbb{Z}_{2,4}$	$SI = z_{2,S_4}$	$,z_{4C}$
$\mathbb{Z}_{2,4}$	weak	$4^{001}_{\frac{1}{2}00}$	$2^{100}_{\frac{1}{2}00}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}_{\frac{1}{2}00}$	$m_{1\bar{1}0}*$		
00	(000)	0	0	0	0	0	0		
00	$(00\overline{4})$	0	0	0	0	0	0		
03	$(00\overline{1})$	0	0	0	0	0	0		
02	$(00\overline{2})$	0	0	0	0	0	0		
01	$(00\bar{3})$	0	0	0	0	0	0		
10	(000)	0	1	1	1	1	0	<u> </u>	
13	$(00\overline{1})$	0	1	1	1	1	0		
12	$(00\overline{2})$	0	1	1	1	1	0		
11	$(00\overline{3})$	0	1	1	1	1	0		
-		129.418	P4'/n'mm	' Cla	ssification	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{\frac{1}{2}00}*$	i*	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$\bar{4}^{001}_{\frac{1}{2}00}$	$m_{1\bar{1}0}*$	$Cm_{(0)}^{100}$	
0	(000)	$\frac{\frac{1}{2}00}{0}$	$\frac{\frac{1}{2}00}{0}$	0	$\frac{\overline{2} \overline{2}^0}{0}$	$\frac{\frac{1}{2}00}{0}$	0	$-\frac{2\overline{2}00}{200}$	
0	(000)	0	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$	
$\frac{0}{1}$	(000)	1	1	0	0	1	0	$\frac{2200}{1\overline{1}00}$	
	(000)	1			<u> </u>	1	<u> </u>	1100	

		129.420	D 4 /22 222	on Class	aification	77/2	V 77	CT -/		
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$\frac{P_c 4/mm}{4001}$	$\frac{m}{2^{100}}$	$\frac{sification}{i}$		$X_{BS} = \mathbb{Z}_2$ $\overline{4001}$	$\frac{\text{SI} = z'_{2P}}{Cm_{(2)}^{100}}$	Cm 110	
			$4^{001}_{\frac{1}{2}00}$	$2^{100}_{\frac{1}{2}00}$		$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$\bar{4}^{001}_{\frac{1}{2}00}$		$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	$2\overline{2}00$	$\frac{2\overline{2}}{2}$	
$\frac{0}{0}$	(000)	0	0	0	0	0	0	$\frac{2\overline{2}00}{0000}$	$\frac{00}{2\overline{2}}$	
$\frac{0}{1}$	(000)	1	0	0	1	0	1	$\frac{0000}{1\overline{1}00}$	$\frac{22}{1\overline{1}}$	
	(000)								11	_
	1.	129.421	$\frac{P_C 4/nm}{4001}$	$\frac{m}{2_{000}^{110}}*$	sification	$=\mathbb{Z}_M^2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	Q 100	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{001}_{\frac{1}{2}00}$		$i_{\frac{1}{2}\frac{1}{2}0}*$	$2^{010}_{\frac{1}{2}00}*$	$\bar{4}^{001}_{0\frac{1}{2}0}*$	$Cm_{(2)}^{110}$	$Cm_{(2)}^{100}$	
0	(000)	0	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$	$2\overline{2}00$	
0	(000)	0	0	0	0	0	0	22	0000	
$\frac{0}{1}$	(000)	0	0	0	0	1	0	$\frac{00}{1\overline{1}}$	$\frac{2\overline{2}00}{1\overline{1}00}$	
	(000)								1100	_
	,	129.422	$\frac{P_I 4/nm}{4_{100}^{001}}$	$\frac{m}{2^{100}}$ Clas	sification	$=\mathbb{Z}_{M}^{2}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	α 110	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4\frac{1}{2}00$	$2^{100}_{0\frac{1}{2}\frac{1}{2}}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$ *	$2^{110}_{00\frac{1}{2}}*$	$\bar{4}^{001}_{0\frac{1}{2}\frac{1}{2}}*$	$Cm_{(2)}^{010}$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}$	
0	(000)	0	0	0	0	0	0	$2\overline{2}00$	00	
0	(000)	0	0	0	0	0	0	0000	$2\overline{2}$	
1	(000)	1	0	1	0	1	0	$1\overline{1}00$	11	
		130.423	P4/nc		ification =	$=\mathbb{Z}_2$		$SI = z'_{2P}$		
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}00}$	$2^{100}_{\frac{1}{2}0\frac{1}{2}}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{001}_{\frac{1}{2}00}$	$g_{00\frac{1}{2}}^{110}$			
0	(000)	0	0	0	0	0	0			
1	(000)	0	0	1	0	1	1			
		130.426	P4'/nc	c Clas	sification :		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$		
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{\frac{1}{2}0\frac{1}{2}}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{001}_{\frac{1}{2}00}*$	$g_{00\frac{1}{2}}^{110}$			
0	(000)	0	0	0	0	0	0			
1	(000)	1	1	1	0	0	1			
		130.427	P4'/nc	c' Clas	sification	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$		
77										
$\mathbb{Z}_2$	weak	$4^{001}_{100}*$	$2^{100}_{101}$	i	$2^{110}_{111}*$	$\bar{4}^{001}_{100}*$	$g_{001}^{110} *$			
$\frac{\mathbb{Z}_2}{0}$		$4^{001}_{\frac{1}{2}00}*$	$\begin{array}{c} 2^{100}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \end{array}$		$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \end{array}$	$\bar{4}^{001}_{\frac{1}{2}00}*$	$g_{00\frac{1}{2}}^{110} *$			
$ \begin{array}{c c} \mathbb{Z}_2 \\ \hline 0 \\ 1 \end{array} $	(000) (000)	$\frac{4_{\frac{1}{2}00}^{001}*}{0}$	$ \begin{array}{c} 2^{100}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \end{array} $	<i>i</i> 0 1	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \end{array}$					
0	(000)	0 1	0 $0$ $P4'/n'c'$	0	0	0	0	$SI = z_2 s_4$		
0	(000)	0 1 130.428	0 $0$ $P4'/n'c'$	0 $1$ $c$ Class	$ \begin{array}{r} 2 & 2 & 2 \\ 0 & \\ 1 & \\ \end{array} $ sification =	$0 \\ 0 \\ = \mathbb{Z}_2$	$0 \\ 0 \\ X_{BS} = \mathbb{Z}_2$	$\mathrm{SI}=z_{2,S_4}$		
$0$ $1$ $\mathbb{Z}_2$	(000) (000) weak	$ \begin{array}{c} 0 \\ 1 \\ 130.428 \\ 4_{\frac{1}{2}00}^{001} * \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ P4'/n'c' \\ 2^{100}_{\frac{1}{2}0\frac{1}{2}} \end{array} $	0 $1$ $c$ Class $i*$	$ \begin{array}{r}                                     $	$ \begin{array}{c} 0 \\ 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \end{array} $		$\mathrm{SI}=z_{2,S_4}$		
$ \begin{array}{c} 0\\ 1\\ \hline \mathbb{Z}_2\\ 0 \end{array} $	(000) (000) weak (000)	$ \begin{array}{r} 0 \\ 1 \\ 130.428 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ P4'/n'c' \\ 2\frac{100}{20\frac{1}{2}0\frac{1}{2}} \\ 0 \end{array} $	0 1 'c Class i* 0	$ \begin{array}{c}     2 & 2 & 2 \\     0 & 1 \\ \hline     sification = \\     2\frac{110}{\frac{1}{2} \frac{1}{2} \frac{1}{2}} * \\     0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \end{array} $	$ \begin{array}{c} 0\\ 0\\ X_{\text{BS}} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0 \end{array} $	$\mathrm{SI}=z_{2,S_4}$		
$0$ $1$ $\mathbb{Z}_2$	(000) (000) weak (000) (000)	$ \begin{array}{r} 0 \\ 1 \\ 130.428 \\ 4_{\frac{1}{2}00}^{001} * \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ P4'/n'c' \\ 2^{100}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \end{array} $	0 1 'c Class i* 0 0	$ \begin{array}{c}     2 & 2 & 2 \\     0 & 1 \\ \hline     1 & \\     \hline     2 & \frac{110}{2} & \frac{1}{2} & \frac{1}{2} \\     0 & 1 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ X_{\text{BS}} = \mathbb{Z}_2 \\ g_{000\frac{1}{2}}^{110} \\ 0 \\ 1 \end{array} $			
$ \begin{array}{c} 0\\ 1\\ \mathbb{Z}_2\\ 0\\ 1 \end{array} $	(000) (000) (000) weak (000) (000)	$ \begin{array}{r} 0\\ 1\\ \hline 130.428\\ 4_{\frac{1}{2}00}^{01}*\\ 0\\ 1\\ 0.429 P4/\\ 4001 \end{array} $	$ \begin{array}{c} 0 \\ \hline 0 \\ P4'/n'c' \\ 2^{100}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \hline nc'c' \end{array} $	$ \begin{array}{c} 0\\ 1\\ c  \text{Class}\\ i*\\ 0\\ 0\\ \text{lassificat} \end{array} $	$ \begin{array}{c} 2 & 2 & 2 \\ 0 & 1 \\ \hline 1 & \\ \hline 2 & \frac{110}{2} & \frac{1}{2} & \frac{1}{2} \\ 0 & \\ \hline 1 & \\ \hline ion = \mathbb{Z} \times \\ \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ X_{\text{BS}} = \mathbb{Z}_2 \\ g_{000\frac{1}{2}}^{110} \\ 0 \\ 1 \end{array} $	$SI = z_{2,S_4}$ $SI = z_{2,S_4},$	$z_{4C}^{\prime}$	
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \end{array} $	(000) (000) (000) weak (000) (000) 130 weak	$ \begin{array}{r} 0\\ 1\\ 130.428\\ 4_{\frac{1}{2}00}^{01}*\\ 0\\ 1\\ 0.429 P4/\\ 4_{\frac{1}{2}00}^{001} \end{array} $	$\begin{array}{c} 0 \\ \hline 0 \\ \hline P4'/n'c' \\ 2^{100}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 0 \\ \hline 2^{100}_{\frac{1}{2}0\frac{1}{2}} * \end{array}$	$ \begin{array}{c c} 0\\ \hline 1\\ c & \text{Class}\\ i*\\ 0\\ 0\\ \text{lassificat}\\ i \end{array} $	$\begin{array}{c} 2 \ 2 \ 2 \ 0 \\ 1 \\ \hline 0 \\ \hline 1 \\ \hline 2 \frac{110}{2 \frac{1}{2} \frac{1}{2} \frac{1}{2} *}{0} \\ 1 \\ \hline ion = \mathbb{Z} \times \\ 2 \frac{110}{2 \frac{1}{2} \frac{1}{2} \frac{1}{2} *} \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ 0 \end{array} $ $ = \mathbb{Z}_{2} \\ \overline{4}_{\frac{1}{2}00}^{001} \\ 0 \\ 1 \\ \overline{2}_{2} \\ \overline{4}_{\frac{1}{2}00}^{001} $	$\begin{array}{c} 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ I_{\rm BS} = \mathbb{Z}_{2,4}\\ g_{00\frac{1}{2}}^{110}*\\ \end{array}$		$z_{4C}^{\prime}$	
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ \end{array} $	(000) (000) (000) (000) (000) 130 weak (000)	$\begin{array}{c} 0\\ 1\\ \hline 130.428\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ \hline 1\\ \hline 0.429\begin{array}{c} P4/\\ 4^{001}_{\frac{1}{2}00}\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ \hline 0 \\ \hline P4'/n'c' \\ 2\frac{100}{20\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 0 \\ \hline (nc'c'  C) \\ 2\frac{100}{20\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ \end{array}$	$ \begin{array}{c c} 0\\ \hline 1\\ c & \text{Class}\\ i*\\ 0\\ 0\\ \text{lassificat}\\ i\\ 0 \end{array} $	$\begin{array}{c} 2 \ 2 \ 2 \ 0 \\ 0 \\ 1 \\ sification = \\ 2\frac{110}{2 \ \frac{1}{2} \ \frac{1}{2} \ *} * \\ 0 \\ 1 \\ \hline ion = \mathbb{Z} \times \\ 2\frac{110}{2 \ \frac{1}{2} \ \frac{1}{2} \ *} \\ 0 \\ 0 \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ \hline 1 \\ \overline{\mathbb{Z}}_2 \\ \overline{4}^{001}_{\frac{1}{2}00} \\ 0 \\ \hline 0 \end{array} $	$\begin{array}{c} 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ I_{\rm BS} = \mathbb{Z}_{2,4}\\ g_{00\frac{1}{2}}^{110}*\\ 0\\ \end{array}$		$z_{4C}^{\prime}$	
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (008)	$\begin{array}{c} 0\\ \hline 1\\ \hline 130.428\\ 4^{001}_{\frac{1}{2}00}*\\ \hline 0\\ \hline 1\\ \hline 0.429 P4/\\ 4^{001}_{\frac{1}{2}00}\\ \hline 0\\ \end{array}$	$\begin{array}{c} 0 \\ \hline 0 \\ \hline P4'/n'c' \\ 2^{100}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ Cnc'c' \\ C^{100}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c c} 0\\ \hline 1\\ \hline c & Class\\ i*\\ 0\\ 0\\ \hline lassificat\\ i\\ 0\\ 0 \end{array} $	$ \begin{array}{c} 2 \ 2 \ 0 \\ 1 \\ \hline 1 \\ sification = \\ 2 \frac{110}{2 \ \frac{1}{2} \ \frac{1}{2} \ *}{0} \\ 1 \\ \hline ion = \mathbb{Z} \times \\ 2 \frac{110}{2 \ \frac{1}{2} \ \frac{1}{2} \ *}{0} \\ 0 \\ \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ \hline 1 \\ \hline \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ I_{\rm BS} = \mathbb{Z}_{2,4}\\ g_{00\frac{1}{2}}^{110}*\\ 0\\ 4\\ \end{array}$		$z_{4C}^{\prime}$	
$\begin{array}{c} 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 01 \\ \end{array}$	(000) (000) (000) (000) (000) (000) (008) (002)	$\begin{array}{c} 0\\ 1\\ \hline 130.428\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ \hline 1\\ \hline 0.429\begin{array}{c} P4/\\ 4^{001}_{\frac{1}{2}00}\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ \hline 0 \\ \hline P4'/n'c' \\ 2\frac{100}{20\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \hline 0 \\ \hline (nc'c'  C) \\ 2\frac{100}{20\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ \end{array}$	$ \begin{array}{c c} 0\\ \hline 1\\ c & \text{Class}\\ i*\\ 0\\ 0\\ \text{lassificat}\\ i\\ 0 \end{array} $	$ \begin{array}{c} 2 \ 2 \ 2 \\ 0 \\ 1 \\ \hline 1 \\ \hline sification = \\ 2 \frac{110}{2 \ \frac{1}{2} \ \frac{1}{2} \ *}{0} \\ 1 \\ \hline ion = \mathbb{Z} \times \\ 2 \frac{110}{2 \ \frac{1}{2} \ \frac{1}{2} \ *}{0} \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline = \mathbb{Z}_2 \\ \hline 4^{001}_{\frac{1}{2}00} \\ 0 \\ \hline 1 \\ \overline{\mathbb{Z}}_2 \\ \overline{4}^{001}_{\frac{1}{2}00} \\ 0 \\ \hline 0 \end{array} $	$\begin{array}{c} 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ I_{\rm BS} = \mathbb{Z}_{2,4}\\ g_{00\frac{1}{2}}^{110}*\\ 0\\ \end{array}$		$z_{4C}^{\prime}$	
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (008)	$\begin{array}{c} 0\\ \hline 1\\ \hline 130.428\\ 4^{001}_{\frac{1}{2}00}*\\ \hline 0\\ 1\\ \hline 0.429 P4/\\ 4^{001}_{\frac{1}{2}00}\\ \hline 0\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ \hline 0 \\ \hline P4'/n'c' \\ 2^{100}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline 2^{100}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \end{array}$	$ \begin{array}{c c} 0\\ \hline 1\\ c & \text{Class}\\ i*\\ 0\\ 0\\ \text{lassificat}\\ i\\ 0\\ 0\\ 0 \end{array} $	$ \begin{array}{c} 2 \ 2 \ 0 \\ 1 \\ \hline 1 \\ sification = \\ 2 \frac{110}{2 \ \frac{1}{2} \ \frac{1}{2} \ *}{0} \\ 1 \\ \hline ion = \mathbb{Z} \times \\ 2 \frac{110}{2 \ \frac{1}{2} \ \frac{1}{2} \ *}{0} \\ 0 \\ \end{array} $	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \end{array}$ $= \mathbb{Z}_2$ $\frac{4^{001}_{\frac{1}{2}00}}{0}$ $0$ $1$ $\frac{\mathbb{Z}_2}{4^{001}_{\frac{1}{2}00}}$ $0$ $0$	$\begin{array}{c} 0\\ 0\\ \\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ \\ 1\\ \\ I_{\rm BS} = \mathbb{Z}_{2,4}\\ g_{00\frac{1}{2}}^{110}*\\ 0\\ \\ 4\\ 1\\ \end{array}$		$z_{4C}^{\prime}$	
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 01 \\ 02 \end{array} $	(000) (000) (000) (000) (000) (000) (008) (002) (004)	$\begin{array}{c} 0\\ 1\\ \hline 130.428\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ 1\\ \hline 0.429 P4/\\ 4^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ \hline 0 \\ \hline P4'/n'c' \\ 2\frac{100}{200\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline 2\frac{1}{2}0\frac{1}{2} * \\ 0 \\ 0 \\ 1 \\ 0 \\ \end{array}$	$ \begin{array}{c c} 0\\ \hline 1\\ c & \text{Class}\\ i*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0 \end{array} $	$ \begin{array}{c} 2 & 2 & 2 \\ 0 & 1 \\ 1 & \\ \hline 1 & \\ \hline 2 \frac{110}{2 \frac{1}{2} \frac{1}{2}} * \\ 0 & 1 \\ \hline ion = \mathbb{Z} \times \\ 2 \frac{110}{2 \frac{1}{2} \frac{1}{2}} * \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ \end{array} $	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_2$ $\frac{4}{2} \frac{1}{2} \frac{1}$	$\begin{array}{c} 0\\ 0\\ \\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ \\ 1\\ \\ I_{\rm BS} = \mathbb{Z}_{2,4}\\ g_{00\frac{1}{2}}^{110}*\\ 0\\ 4\\ 1\\ 2\\ \end{array}$		$z_{4C}^{\prime}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_2\\ 0\\ 1\\ \hline \mathbb{Z}_{2,4}\\ 00\\ 00\\ 01\\ 02\\ 03\\ 10\\ 11\\ \end{array} $	(000) (000) (000) (000) (000) (000) (008) (002) (004) (006) (000) (002)	$\begin{array}{c} 0\\ 1\\ \hline 130.428\\ 4\frac{1}{2}00*\\ 0\\ \hline 1\\ \hline 0.429 P4/\\ 4\frac{1}{2}00\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ \hline 0 \\ \hline P4'/n'c' \\ \hline 2^{100}_{\frac{1}{2}0\frac{1}{2}} \\ \hline 0 \\ \hline 0 \\ \hline 2^{100}_{\frac{1}{2}0\frac{1}{2}} * \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \end{array}$	$ \begin{array}{c c} 0\\ \hline 1\\ c & \text{Class}\\ i*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0 \end{array} $	$ \begin{array}{c} 2 & 2 & 2 \\ 0 & 1 \\ 1 & \\ \hline \text{sification} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2}} * \\ 0 & 1 \\ \hline \text{ion} = \mathbb{Z} \times \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2}} * \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_2$ $\frac{4^{001}_{\frac{1}{2}00}}{0}$ $0$ $\frac{1}{2^{001}_{\frac{1}{2}00}}$ $0$ $0$ $0$ $0$	$\begin{array}{c} 0\\ 0\\ 0\\ \\ X_{BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{110}\\ 0\\ \\ 1\\ \\ I_{BS} = \mathbb{Z}_{2,4}\\ g_{000\frac{1}{2}}^{110}*\\ 0\\ 4\\ 1\\ 2\\ 3\\ 0\\ 1\\ \end{array}$		$z_{4C}^{\prime}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_2\\ 0\\ 1\\ \hline \mathbb{Z}_{2,4}\\ 00\\ 00\\ 01\\ 02\\ 03\\ 10\\ 11\\ 12\\ \end{array} $	(000) (000) (000) (000) (000) (000) (008) (002) (004) (006) (000) (002) (004)	$\begin{array}{c} 0\\ \hline 1\\ \hline 130.428\\ 4^{001}_{\frac{1}{2}00}*\\ \hline 0\\ \hline 1\\ \hline 0.429 P4/\\ 4^{001}_{\frac{1}{2}00}\\ \hline 0\\ 0\\ \hline 0\\ 0\\ \hline 0\\ 0\\ \hline 0\\ 0\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ \hline P4'/n'c'\\ \hline 2^{100}_{\frac{1}{2}0\frac{1}{2}}\\ 0\\ 0\\ \hline 2^{100}_{\frac{1}{2}0\frac{1}{2}}*\\ \hline 0\\ 0\\ 1\\ 0\\ 1\\ 1\\ 0\\ 1\\ \end{array}$	$ \begin{array}{c c} 0\\ \hline 1\\ \hline c & Class\\ i*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 1 \end{array} $	$\begin{array}{c} 2\ 2\ 2 \\ 0 \\ 1 \\ \hline 1 \\ \hline \\ sification = \\ \hline 2\frac{110}{1\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \hline 1 \\ \hline \\ ion = \mathbb{Z} \times \\ \hline 2\frac{110}{1\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \hline \\ 0 \\ \hline 1 \\ \hline \\ 0 \\ \hline \\ 1 \\ \hline \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_2$ $\frac{4^{001}_{\frac{1}{2}00}}{0}$ $0$ $1$ $\mathbb{Z}_2 \times X$ $\frac{4^{001}_{\frac{1}{2}00}}{0}$ $0$ $0$ $0$ $0$ $1$ $1$ $1$	$\begin{array}{c} 0\\ 0\\ 0\\ \\ X_{BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{110}\\ 0\\ \\ 1\\ \\ I_{BS} = \mathbb{Z}_{2,4}\\ g_{000\frac{1}{2}}^{110}*\\ 0\\ 4\\ 1\\ 2\\ 3\\ 0\\ 1\\ 2\\ \end{array}$		$z_{4C}^{\prime}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_2\\ 0\\ 1\\ \hline \mathbb{Z}_{2,4}\\ 00\\ 00\\ 01\\ 02\\ 03\\ 10\\ 11\\ \end{array} $	(000) (000) (000) (000) (000) (000) (008) (002) (004) (006) (000) (002)	$\begin{array}{c} 0 \\ 1 \\ \hline 130.428 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ \hline 1 \\ \hline 0.429 P4/ \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ 0 \\ \hline P4'/n'c' \\ 2^{100}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ 2^{100}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c c} 0\\ 1\\ \hline c & Class\\ i*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 1\\ 1 \end{array} $	$\begin{array}{c} 2\ 2\ 2\ 0 \\ 1 \\ 1 \\ \hline \\ sification = \\ 2\frac{110}{12} \ \frac{1}{2} \ \frac{1}{2} \ \frac{1}{2} \\ 0 \\ 1 \\ \hline \\ ion = \mathbb{Z} \times \\ 2\frac{110}{12} \ \frac{1}{2} \times \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_2$ $\frac{1}{4 \frac{001}{\frac{1}{2}00}}$ $0 \\ 1 \\ \mathbb{Z}_2 \times \frac{1}{4 \frac{001}{\frac{1}{2}00}}$ $0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	$\begin{array}{c} 0\\ 0\\ \\ X_{BS} = \mathbb{Z}_2\\ \\ g_{00\frac{1}{2}}^{110}\\ 0\\ \\ 1\\ \\ I_{BS} = \mathbb{Z}_{2,4}\\ \\ g_{00\frac{1}{2}}^{110}*\\ \\ 0\\ \\ 0\\ \\ 1\\ \\ 2\\ \\ 3\\ \\ 0\\ \\ 1\\ \\ 2\\ \\ 3\\ \\ 0\\ \\ 3\\ \\ \end{array}$	$\mathrm{SI}=z_{2,S_4},$	z' <sub>4C</sub>	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_2\\ 0\\ 1\\ \hline \mathbb{Z}_{2,4}\\ 00\\ 00\\ 01\\ 02\\ 03\\ 10\\ 11\\ 12\\ 13\\ \end{array} $	(000) (000) (000) (000) (000) (000) (008) (002) (004) (006) (000) (002) (004)	$\begin{array}{c} 0 \\ 1 \\ \hline 130.428 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ \hline 1 \\ \hline 0.429  P4/\\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 130.430 \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ \hline P4'/n'c'\\ 2^{100}_{\frac{1}{2}0\frac{1}{2}}\\ 0\\ 0\\ \hline 0\\ \hline 2^{100}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ \hline P4'/n'cc\\ \hline \end{array}$	$ \begin{array}{c c} 0\\ 1\\ \hline c & Class\\ i*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 1\\ 1 \end{array} $	$\begin{array}{c} 2\ 2\ 2 \\ 0 \\ 1 \\ \\ \hline 1 \\ \\ \hline \\ sification = \\ \hline 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \\ \hline 1 \\ \hline \\ ion = \mathbb{Z} \times \\ 2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \times \\ 0 \\ \\ \hline 2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \times \\ 0 \\ 0 \\ \\ \hline 1 \\ 0 \\ \\ \hline 1 \\ 0 \\ \\ \\ sification = \\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_2$ $\frac{1}{4 \cdot \frac{1}{2} \cdot 00}$ $0$ $1$ $\mathbb{Z}_2 \times \frac{1}{4 \cdot \frac{1}{2} \cdot 00}$ $0$ $0$ $0$ $0$ $1$ $1$ $1$ $1$ $= \mathbb{Z}_2$	$\begin{array}{c} 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{110}\\ 0\\ 1\\ I_{\rm BS} = \mathbb{Z}_{2,4}\\ g_{000\frac{1}{2}}^{110}*\\ 0\\ 4\\ 1\\ 2\\ 3\\ 0\\ 1\\ 2\\ 3\\ X_{\rm BS} = \mathbb{Z}_{2}\\ 3\\ 0\\ X_{\rm BS} = \mathbb{Z}_{2}\\ \end{array}$		$z'_{4C}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_2\\ 0\\ 1\\ \hline \mathbb{Z}_{2,4}\\ 00\\ 00\\ 01\\ 02\\ 03\\ 10\\ 11\\ 12\\ \end{array} $	(000) (000)  weak (000) (000)  13( weak (000) (008) (002) (004) (006) (002) (004) (006)  weak	$\begin{array}{c} 0 \\ 1 \\ \hline 130.428 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ \hline 1 \\ \hline 0.429 P4/ \\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ 0 \\ \hline P4'/n'c' \\ 2^{100}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ 2^{100}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c c} 0\\ 1\\ \hline c & Class\\ i*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 1\\ 1 \end{array} $	$\begin{array}{c} 2\ 2\ 2\ 0 \\ 1 \\ 1 \\ \hline \\ sification = \\ 2\frac{110}{12} \ \frac{1}{2} \ \frac{1}{2} \ \frac{1}{2} \\ 0 \\ 1 \\ \hline \\ ion = \mathbb{Z} \times \\ 2\frac{110}{12} \ \frac{1}{2} \times \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_2$ $\frac{1}{4 \cdot \frac{1}{2} \cdot 00}$ $0$ $1$ $\mathbb{Z}_2 \times \frac{1}{4 \cdot \frac{1}{2} \cdot 00}$ $0$ $0$ $0$ $0$ $1$ $1$ $1$ $1$ $= \mathbb{Z}_2$	$\begin{array}{c} 0\\ 0\\ \\ X_{BS} = \mathbb{Z}_2\\ \\ g_{00\frac{1}{2}}^{110}\\ 0\\ \\ 1\\ \\ I_{BS} = \mathbb{Z}_{2,4}\\ \\ g_{00\frac{1}{2}}^{110}*\\ \\ 0\\ \\ 0\\ \\ 1\\ \\ 2\\ \\ 3\\ \\ 0\\ \\ 1\\ \\ 2\\ \\ 3\\ \\ 0\\ \\ 3\\ \\ \end{array}$	$\mathrm{SI}=z_{2,S_4},$	z' <sub>4C</sub>	
$\begin{array}{c c} 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 01 \\ 02 \\ 03 \\ 10 \\ 11 \\ 12 \\ 13 \\ \end{array}$	(000) (000) (000)  weak (000) (000)  13a (008) (008) (002) (004) (006) (000) (002) (004) (006)	$\begin{array}{c} 0 \\ 1 \\ \hline 130.428 \\ 4^{001}_{\frac{1}{2}00}* \\ 0 \\ \hline 1 \\ \hline 0.429  P4/\\ 4^{001}_{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 130.430 \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ \hline P4'/n'c'\\ 2^{100}_{\frac{1}{2}0\frac{1}{2}}\\ 0\\ 0\\ \hline 0\\ \hline 2^{100}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ \hline P4'/n'cc\\ \hline \end{array}$	$ \begin{array}{c c} 0\\ 1\\ \hline c & Class\\ i*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 1\\ c' & Class \end{array} $	$\begin{array}{c} 2\ 2\ 2 \\ 0 \\ 1 \\ \\ \hline 1 \\ \\ \hline \\ sification = \\ \hline 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \\ \hline 1 \\ \hline \\ ion = \mathbb{Z} \times \\ 2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \times \\ 0 \\ \\ \hline 2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \times \\ 0 \\ 0 \\ \\ \hline 1 \\ 0 \\ \\ \hline 1 \\ 0 \\ \\ \\ sification = \\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_2$ $\frac{1}{4 \frac{001}{\frac{1}{2}00}}$ $0 \\ 1 \\ \mathbb{Z}_2 \times \frac{1}{4 \frac{001}{\frac{1}{2}00}}$ $0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	$\begin{array}{c} 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{110}\\ 0\\ 1\\ I_{\rm BS} = \mathbb{Z}_{2,4}\\ g_{000\frac{1}{2}}^{110}*\\ 0\\ 4\\ 1\\ 2\\ 3\\ 0\\ 1\\ 2\\ 3\\ X_{\rm BS} = \mathbb{Z}_{2}\\ 3\\ 0\\ X_{\rm BS} = \mathbb{Z}_{2}\\ \end{array}$	$\mathrm{SI}=z_{2,S_4},$	z' <sub>4C</sub>	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_2\\ 0\\ 1\\ \hline \mathbb{Z}_{2,4}\\ 00\\ 00\\ 01\\ 02\\ 03\\ 10\\ 11\\ 12\\ 13\\ \hline \mathbb{Z}_2 $	(000) (000)  weak (000) (000)  13( weak (000) (008) (002) (004) (006) (002) (004) (006)  weak	$\begin{array}{c} 0\\ 1\\ \hline 130.428\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ 1\\ \hline 0.429 P4/\\ 4^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 130.430\\ 4^{001}_{\frac{1}{2}00}*\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ \hline P4'/n'c' \\ 2\frac{100}{2101} \\ 0 \\ 0 \\ \hline 0 \\ 2\frac{1}{2}0\frac{1}{2} \\ 0 \\ 0 \\ \hline 1 \\ 0 \\ 1 \\ 0 \\ \hline 1 \\ 0 \\ \hline 2\frac{1}{1}00 \\ 1 \\ 0 \\ \hline \end{array}$	$ \begin{array}{c c} 0\\ \hline 1\\ \hline c & Class\\ i*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 1\\ c' & Class\\ i* \end{array} $	$\begin{array}{c} 2\ 2\ 2\ 0 \\ 0 \\ 1 \\ \end{array}$ $\begin{array}{c} 1 \\ \text{sification} = \\ 2\frac{110}{12}\frac{1}{2}\frac{1}{2} \\ 0 \\ 1 \\ \text{ion} = \\ \mathbb{Z} \times \\ 2\frac{110}{12}\frac{1}{2}\frac{1}{2} \\ 0 \\ 0 \\ 1 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ \end{array}$ $\begin{array}{c} 1 \\ 0 \\ 1 \\ 0 \\ \end{array}$ sification = $\begin{array}{c} 2\frac{110}{12}\frac{1}{2}\frac{1}{2}\frac{1}{2} \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $= \mathbb{Z}_2$ $\frac{1}{4} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{0} \frac{1}{0}$ $0\\ 1\\ \mathbb{Z}_2 \times \frac{1}{4} \frac{1}{2} \frac{1}{2} \frac{1}{0} \frac{1}{0}$ $0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 1\\ 1\\ 1\\ \end{array}$ $= \mathbb{Z}_2$ $\frac{1}{4} \frac{1}{2} \frac{1}{2} \frac{1}{0} \frac{1}{0} \frac{1}{0}$	$\begin{array}{c} 0\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{110}\\ 0\\ 1\\ I_{\rm BS} = \mathbb{Z}_{2,4}\\ g_{000\frac{1}{2}}^{110}*\\ 0\\ 4\\ 1\\ 2\\ 3\\ 0\\ 1\\ 2\\ 3\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{10}*\\ \end{array}$	$\mathrm{SI}=z_{2,S_4},$	$z_{4C}^{\prime}$	
$\begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_2\\ 0\\ 1\\ \hline \mathbb{Z}_{2,4}\\ 00\\ 00\\ 01\\ 02\\ 03\\ 10\\ 11\\ 12\\ 13\\ \hline \mathbb{Z}_2\\ 0\\ \end{array}$	(000) (000) (000) (000) (000) (000) (000) (008) (002) (004) (006) (006) (006)	$\begin{array}{c} 0\\ 1\\ \hline 130.428\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ 1\\ \hline 0.429 P4/\\ 4^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0\\ 0\\ \hline P4'/n'c'\\ 2\frac{100}{200\frac{1}{2}0\frac{1}{2}}\\ 0\\ 0\\ \hline 0\\ 2\frac{1}{2}0\frac{1}{2}*\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ \hline 1\\ 0\\ \hline 2\frac{1}{2}0\frac{1}{2}*\\ 0\\ \hline 1\\ 0\\ \hline P4'/n'cc\\ 2\frac{100}{2}0\frac{1}{2}*\\ 0\\ 1\\ \hline \end{array}$	$ \begin{array}{c c} 0\\ \hline 1\\ \hline c & Class\\ i*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 1\\ 1\\ c' & Class\\ i*\\ 0\\ 0\\ c & Class\\ c' & Class\\ 0\\ 0\\ 0  $	$\begin{array}{c} 2\ 2\ 2\ 2\\ 0\\ 1\\ \end{array}$ sification = $\begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} *\\ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1} *\\ 0\\ 1\\ \hline ion = \mathbb{Z} \times\\ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} *\\ 0\\ 1\\ 0\\ \end{array}$ 0 1 0 sification = $\begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $= \mathbb{Z}_2$ $\frac{4^{001}_{\frac{1}{2}00}}{0}$ $0\\ 1\\ \mathbb{Z}_2 \times \frac{1}{4^{001}_{\frac{1}{2}00}}$ $0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 1\\ 1\\ \end{array}$ $= \mathbb{Z}_2$ $\frac{4^{001}_{\frac{1}{2}00}}{0}$ $0\\ 1\\ 1\\ 1\\ 1\\ = \mathbb{Z}_2$	$\begin{array}{c} 0\\ 0\\ 0\\ X_{BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{110}\\ 0\\ 1\\ I_{BS} = \mathbb{Z}_{2,4}\\ g_{000\frac{1}{2}}^{110}*\\ 0\\ 4\\ 1\\ 2\\ 3\\ 0\\ 1\\ 2\\ 3\\ X_{BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{10}*\\ 0\\ 0\\ X_{BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{10}*\\ 0\\ 0\\ X_{BS} = \mathbb{Z}_2\\ \end{array}$	$\mathrm{SI}=z_{2,S_4},$	z' <sub>4C</sub>	
$\begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_2\\ 0\\ 1\\ \hline \mathbb{Z}_{2,4}\\ 00\\ 00\\ 01\\ 02\\ 03\\ 10\\ 11\\ 12\\ 13\\ \hline \mathbb{Z}_2\\ 0\\ \end{array}$	(000) (000) (000) (000) (000) (000) (000) (008) (002) (004) (006) (006) (006)	$\begin{array}{c} 0\\ 1\\ \hline 130.428\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ \hline 0\\ 1\\ \hline 0.429 P4/\\ 4^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 130.430\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ 1\\ \hline \end{array}$	$\begin{array}{c} 0\\ 0\\ \hline 0\\ \hline P4'/n'c'\\ 2^{100}_{\frac{1}{2}0\frac{1}{2}}\\ 0\\ 0\\ \hline 0\\ \hline 2^{100}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 0\\ 1\\ 0\\ \hline 1\\ 0\\ \hline P4'/n'cc\\ 2^{100}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ \hline 1\\ 0\\ \hline P4'/n'cc\\ 2^{100}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 1\\ \hline P_{c}4/nc\\ 4^{001}\\ \hline \end{array}$	$ \begin{array}{c c} 0\\ \hline 1\\ \hline c & Class\\ i*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 1\\ 1\\ c' & Class\\ i*\\ 0\\ 0\\ c & Class\\ c' & Class\\ 0\\ 0\\ 0  $	$\begin{array}{c} 2\ 2\ 2 \\ 0 \\ 1 \\ 1 \\ \hline 2 \\ \hline{110}_{\frac{1}{2}} \\ 2 \\ \hline{1}_{\frac{1}{2}} \\ 2 \\ \hline{1}_{\frac{1}{2}} \\ 0 \\ \hline 1 \\ \hline 0 \\ \hline 2 \\ \hline{110}_{\frac{1}{2}} \\ 2 \\ \hline 2 \\ \frac{1}{2} \\ \frac{1}{2} \\ 2 \\ \hline 2 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $= \mathbb{Z}_2$ $\frac{4^{001}_{\frac{1}{2}00}}{0}$ $0\\ 1\\ \mathbb{Z}_2 \times \frac{1}{4^{001}_{\frac{1}{2}00}}$ $0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 1\\ 1\\ \end{array}$ $= \mathbb{Z}_2$ $\frac{4^{001}_{\frac{1}{2}00}}{0}$ $0\\ 1\\ 1\\ 1\\ 1\\ = \mathbb{Z}_2$	$\begin{array}{c} 0\\ 0\\ 0\\ X_{BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{110}\\ 0\\ 1\\ I_{BS} = \mathbb{Z}_{2,4}\\ g_{000\frac{1}{2}}^{110}*\\ 0\\ 4\\ 1\\ 2\\ 3\\ 0\\ 1\\ 2\\ 3\\ X_{BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{10}*\\ 0\\ 0\\ X_{BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{10}*\\ 0\\ 0\\ X_{BS} = \mathbb{Z}_2\\ \end{array}$	$SI = z_{2,S_4},$ $SI = z_{2,S_4}$	z' <sub>4</sub> C	
$\begin{array}{c} 0 \\ 1 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \\ \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 01 \\ 02 \\ 03 \\ 10 \\ 11 \\ 12 \\ 13 \\ \hline \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array}$	(000) (000) (000)  weak (000) (000)  130 (008) (002) (004) (006) (002) (004) (006) (006) (000) (000) (000)	$\begin{array}{c} 0\\ 1\\ \hline 130.428\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ \hline 0\\ 4^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 130.430\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ 0\\ 130.430\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ 1\\ 130.432\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0\\ 0\\ \hline P4'/n'c'\\ 2\frac{100}{200\frac{1}{2}0\frac{1}{2}}\\ 0\\ 0\\ \hline 0\\ 2\frac{1}{2}0\frac{1}{2}*\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ \hline 1\\ 0\\ \hline 2\frac{1}{2}0\frac{1}{2}*\\ 0\\ \hline 1\\ 0\\ \hline P4'/n'cc\\ 2\frac{100}{2}0\frac{1}{2}*\\ 0\\ 1\\ \hline \end{array}$	$ \begin{array}{c c} \hline 0\\ \hline 1\\ \hline c & Class\\ \hline i*\\ \hline 0\\ 0\\ \hline 0\\ 0\\ \hline 0\\ 0\\ \hline 0\\ \hline 1\\ \hline 1\\$	$\begin{array}{c} 2\ 2\ 2 \\ 0 \\ 1 \\ 1 \\ \hline \\ \text{sification} = \\ 2\frac{110}{12}\frac{1}{2}\frac{1}{2} \\ 0 \\ 1 \\ \hline \\ \text{ion} = \mathbb{Z} \times \\ 2\frac{110}{12}\frac{1}{2}\frac{1}{2} \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ \\ \text{sification} = \\ 2\frac{110}{12}\frac{1}{2}\frac{1}{2} \\ 0 \\ 0 \\ \text{sification} = \\ 0 \\ \text{sification} = \\ 0 \\ 0 \\ \text{sification} = \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_2$ $\frac{4^{001}_{\frac{1}{2}00}}{0}$ $0 \\ 1 \\ \mathbb{Z}_2 \times \frac{X}{4^{001}_{\frac{1}{2}00}}$ $0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 1 \\ \end{array}$ $= \mathbb{Z}_2$ $\frac{1}{4^{001}_{\frac{1}{2}00}}$ $0 \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	$\begin{array}{c} 0\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{110}\\ 0\\ 1\\ I_{\rm BS} = \mathbb{Z}_{2,4}\\ g_{000\frac{1}{2}}^{110}*\\ 0\\ 4\\ 1\\ 2\\ 3\\ 0\\ 1\\ 2\\ 3\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{110}*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$SI = z_{2,S_4},$ $SI = z_{2,S_4}$ $SI = z_{2P}$	z' <sub>4</sub> C	
$\begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 01 \\ 02 \\ 03 \\ 10 \\ 11 \\ 12 \\ 13 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \end{array}$	(000) (000) (000)  weak (000)  13  weak (000) (008) (002) (004) (006) (002) (004) (006)  weak (000) (000)  weak	$\begin{array}{c} 0\\ 1\\ \hline 130.428\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ \hline 0\\ 1\\ \hline 0.429 P4/\\ 4^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ 0\\ 0\\ 0\\ \hline 0\\ 0\\ 0\\ 130.430\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ 1\\ \hline 130.432\\ \{1 00\frac{1}{2}\}*\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ \hline P4'/n'c' \\ 2^{100}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline 2^{100}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 0 \\ \hline 1 \\ 0 \\ \hline 1 \\ 0 \\ \hline P4'/n'cc \\ 2^{100}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ \hline 1 \\ 0 \\ \hline - P4'/n'cc \\ 1 \\ \hline - Pc4/nc \\ 4^{001}_{\frac{1}{2}00} \\ \hline \end{array}$	$ \begin{array}{c c} 0 \\ \hline 1 \\ \hline c & \text{Class} \\ \hline i* \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	$\begin{array}{c} 2\ 2\ 2 \\ 0 \\ 1 \\ \hline 1 \\ \hline \\ sification = \\ 2\frac{110}{12}\frac{1}{2}\frac{1}{2}* \\ 0 \\ \hline \\ 1 \\ \hline \\ ion = \mathbb{Z} \times \\ 2\frac{110}{12}\frac{1}{2}\frac{1}{2}* \\ 0 \\ 0 \\ \hline \\ 1 \\ 0 \\ \hline \\ 1 \\ 0 \\ \hline \\ 1 \\ 0 \\ \hline \\ sification = \\ 2\frac{110}{12}\frac{1}{2}\frac{1}{2} \\ 0 \\ 0 \\ \hline \\ sification = \\ i \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $= \mathbb{Z}_2\\ \overline{4}_{\frac{1}{2}00}^{001}\\ \overline{2}_{\frac{1}{2}00}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ I_{\rm BS} = \mathbb{Z}_{2,4}\\ g_{00\frac{1}{2}}^{110}*\\ 0\\ 4\\ 1\\ 2\\ 3\\ 0\\ 1\\ 2\\ 3\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}*\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ \frac{g_{00\frac{1}{2}}^{100}*}{1\\ 2\\ 3\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{100}*\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ \frac{g_{00\frac{1}{2}}^{100}*}{1\\ 2\\ 0\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ \frac{g_{00\frac{1}{2}}^{100}*}{1\\ 2\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$SI = z_{2,S_4},$ $SI = z_{2,S_4}$ $SI = z_{2P}$ $m_{1\bar{1}0}*$	z' <sub>4</sub> C	
$\begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 01 \\ 02 \\ 03 \\ 10 \\ 11 \\ 12 \\ 13 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ \end{array}$	(000) (000) (000)  weak (000)  13  weak (000) (008) (002) (004) (006) (002) (004) (006)  weak (000) (000)  weak (000)	$\begin{array}{c} 0\\ 1\\ \hline 130.428\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ \hline 0\\ 4^{001}_{\frac{1}{2}00}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 130.430\\ 4^{001}_{\frac{1}{2}00}*\\ 0\\ 1\\ \hline 130.430\\ 4^{1}_{\frac{1}{2}00}*\\ 0\\ 1\\ \hline 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	$\begin{array}{c} 0 \\ 0 \\ \hline P4'/n'c' \\ 2\frac{100}{200\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline 2\frac{1}{2}0\frac{1}{2} * \\ 0 \\ 0 \\ \hline 1 \\ 0 \\ \hline 1 \\ 0 \\ \hline 1 \\ 0 \\ \hline P4'/n'cc \\ 2\frac{1}{2}0\frac{1}{2} * \\ 0 \\ \hline 1 \\ 0 \\ \hline \hline P4'/n'cc \\ 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	$\begin{array}{c c} 0\\ \hline 1\\ c & \text{Class}\\ i*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 1\\ 1\\ c' & \text{Class}\\ i*\\ 0\\ 0\\ c & \text{Class}\\ 2\frac{1}{2}00*\\ 0\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{c} 2\ 2\ 2 \\ 0 \\ 1 \\ \\ \hline 1 \\ \\ \hline \\ sification = \\ 2\frac{110}{12}\frac{1}{2}\frac{1}{2}* \\ 0 \\ \\ \hline \\ 1 \\ \hline \\ 0 \\ \\ \hline \\ 1 \\ 0 \\ \\ \hline \\ 0 \\ \\ 1 \\ 0 \\ \\ \hline \\ 0 \\ \\ 0 \\ \\ \hline \\ 0 \\ \\ 0 \\ \\ \hline \\ 0 \\ \\ \\ 0 \\ \\ \hline \\ 0 \\ \\ 0 \\ \\ \\ 0 \\ \\ \\ 0 \\ \\ \\ 0 \\ \\ \\ 0 \\ \\ \\ 0 \\ \\ \\ 0 \\ \\ 0 \\ \\ \\ 0 \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ 0 \\ \\ 0 \\ 0 \\ 0 \\ \\ 0 \\ 0 \\ 0 \\ \\ 0$	$\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $= \mathbb{Z}_2$ $\frac{1}{4_{\frac{1}{2}00}^{01}}$ $0\\ 1\\ \end{array}$ $\frac{\mathbb{Z}_2}{4_{\frac{1}{2}00}^{00}}$ $0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $0\\ 1\\ 1\\ 1\\ 1\\ = \mathbb{Z}_2$ $\frac{1}{4_{\frac{1}{2}00}^{01}}$ $0\\ 0\\ 1\\ 1\\ 1\\ 1$	$\begin{array}{c} 0\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{110}\\ 0\\ 1\\ I_{\rm BS} = \mathbb{Z}_{2,4}\\ g_{000\frac{1}{2}}^{110}*\\ 0\\ 4\\ 1\\ 2\\ 3\\ 0\\ 1\\ 2\\ 3\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{000\frac{1}{2}}^{10}*\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ \frac{g_{000\frac{1}{2}}^{10}*}{1}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$SI = z_{2,S_4},$ $SI = z_{2,S_4}$ $SI = z_{2P}$ $m_{1\bar{1}0}*$ $0$	z' <sub>4</sub> C	

$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{001}_{\frac{1}{2}00}$	$2^{110}_{00\frac{1}{2}}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}*$	$\bar{4}^{001}_{0\frac{1}{2}0}*$	$g_{\frac{1}{2}0\frac{1}{2}}^{100}$	
0	(000)	0	0	0	0	$\frac{202}{0}$	0	0	
1	(000)	1	0	1	0	1	0	1	
		130.434	$P_I4/n$	cc Class	ification :	$=\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4^{001}_{\frac{1}{2}00}$	$2^{100}_{0\frac{1}{2}0}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{110}*$	$\bar{4}^{001}_{0\frac{1}{2}\frac{1}{2}}*$	$g_{00\frac{1}{2}}^{110}$	
0	(000)	0	0	0	0	0	0	0	
1	(000)	1	0	1	0	1	0	1	
	13	R = 1.435 P4	$\frac{1}{2}/mmc$	Classific	ation = Z	$Z_M^3 X_B$	$S = \mathbb{Z}_{2,4}$ S	$SI = z'_{2P,1}, z$	,/ '4P
$\mathbb{Z}_{2,4}$	weak	$4_{00\frac{1}{2}}^{001}$	$2^{100}$	i	$2^{110}_{00\frac{1}{2}}$	$\bar{4}^{001}_{00\frac{1}{2}}$	$g_{00\frac{1}{2}}^{110}$	$Cm_{(2)}^{100}$	$Cm_{(4)}^{001}$
00	(000)	0	0	0	0	0	0	$2\overline{2}2\overline{2}$	0000
00	(000)	0	0	0	0	0	0	$4\overline{4}00$	$4\overline{4}00$
00	(000)	0	0	0	0	0	0	$00\overline{2}2$	0000
00	(000)	0	0	0	0	0	0	$\bar{2}200$	0000
03	(000)	0	0	1	0	1	1	$1\overline{1}00$	1100
02	(000)	0	0	0	0	0	0	$\frac{2\overline{2}00}{2\overline{2}00}$	$\frac{2\overline{2}00}{2\overline{2}00}$
$\frac{01}{10}$	(000)	0	0	1	0	1	1	$\frac{3\overline{3}00}{1\overline{1}1\overline{1}}$	3300
$\frac{10}{13}$	(000)	0	0	0	0	0	$\frac{0}{1}$	$\frac{1111}{2\overline{2}1\overline{1}}$	$\frac{0000}{1\overline{1}00}$
$\frac{13}{12}$	(000)	0	0	0	0	0	0	$\frac{2211}{3\overline{3}1\overline{1}}$	$\frac{1100}{2\overline{2}00}$
11	(000)	0	0	1	0	1	1	$\frac{3311}{4\overline{4}1\overline{1}}$	$\frac{2200}{3\overline{3}00}$
	(000)	131.438	$P4_2'/mr$		sification		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$4_{00\frac{1}{2}}^{001} *$	$\frac{14_{2}/mn}{2^{100}}*$	$\frac{n c}{i}$	$\frac{2_{00\frac{1}{2}}^{110}}{2_{00\frac{1}{2}}^{110}}$	$\frac{- Z_M}{\bar{4}_{00\frac{1}{2}}^{001} *}$	$g_{00\frac{1}{2}}^{110}$	$Cm_{(2)}^{001}$	
$\frac{2}{0}$	(000)	$\frac{100\frac{1}{2}}{0}$	0	0	$\frac{2_{00\frac{1}{2}}}{0}$	$\frac{100\frac{1}{2}}{0}$	$\frac{g_{00\frac{1}{2}}}{0}$	$\frac{2\overline{200}}{200}$	
$\frac{0}{0}$	(000)	0	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$	
$\frac{0}{1}$	(000)	1	1	1	0	0	1	$\frac{2200}{1\overline{1}00}$	
	/	1.439 P4					$\mathbb{Z}_{\mathrm{SS}} = \mathbb{Z}_{2,4}$ S		
			$\frac{2/mmc}{2^{100}}$		$\frac{\text{cation} = 2}{0.0110}$	$\frac{L_M}{7001}$ .	$_{2S} = \mathbb{Z}_{2,4}$ .	$S1 = z_{2P,1}, z_{2P,1}$	Z <sub>4P</sub>
$\mathbb{Z}_{2,4}$	weak	$4_{00\frac{1}{2}}^{001} *$		i	$2^{110}_{00\frac{1}{2}}*$	$\bar{4}^{001}_{00\frac{1}{2}}*$	$g_{00\frac{1}{2}}^{1\overline{10}}*$	$Cm_{(2)}^{100}$	$Cm_{(2)}^{001}$
00	(000)	0	0	0	0	0	0	$2\overline{2}2\overline{2}$	0000
00	(000)	0	0	0	0	0	0	4400	4400
$\frac{00}{00}$	(000)	0	0	0	0	0	0	$\frac{00\overline{2}2}{\overline{2}200}$	0000
$\frac{00}{03}$	(000)	1	0	1	1	0	0	$\frac{2200}{1\overline{1}00}$	$1\overline{1}00$
$\frac{-03}{02}$	(000)	0	0	0	0	0	0	$\frac{1100}{2\overline{2}00}$	$\frac{1100}{2\overline{2}00}$
01	(000)	1	0	1	1	0	0	3300	3300
10	(000)	0	0	0	0	0	0	1111	0000
13	(000)	1	0	1	1	0	0	$2\overline{2}1\overline{1}$	$1\overline{1}00$
12	(000)	0	0	0	0	0	0	$3\overline{3}1\overline{1}$	$2\overline{2}00$
11	(000)	1	0	1	1	0	0	$4\overline{4}1\overline{1}$	$3\overline{3}00$
				n'c Clas	sification		$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4_{00\frac{1}{2}}^{001} *$	$2^{100}$	i*	$2^{110}_{00\frac{1}{2}}*$	$\bar{4}_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{110}$		
0	(000)	$\frac{00_{\overline{2}}}{0}$	0	0	$\frac{00_{\overline{2}}}{0}$	$\frac{00_{\overline{2}}}{0}$	$\frac{0}{0}$		
1	(000)	1	0	0	1	1	1		
	131.4	$\frac{1}{41} P4_2/m$	m'c'	lassificati	$on = \mathbb{Z}_M$	$\times \mathbb{Z}$ X	$X_{\mathrm{BS}} = \mathbb{Z}_{2,4}$	$SI = z_{2m,\pi}^+$	z+ ., z+
$\mathbb{Z}_{2,4}$	weak	$4_{00\frac{1}{2}}^{001}$	$2^{100}*$	$\frac{i}{i}$	$2^{110}_{00\frac{1}{2}}*$	$\bar{4}^{001}_{00\frac{1}{2}}$	$g_{00\frac{1}{2}}^{110}*$	$Cm_{(4)}^{001}$	, 4m,u
$\frac{-2,4}{00}$	$(00\overline{4})$	$\frac{-00\frac{1}{2}}{2}$	0	0	$\frac{-00\frac{1}{2}}{0}$	$\frac{-00\frac{1}{2}}{0}$	$\frac{300\frac{1}{2}}{2}$	0422	
00	(000)	0	0	0	0	0	0	$\frac{0422}{4\overline{4}00}$	
00	(000)	0	0	0	0	0	0	0000	
01	(000)	0	1	1	1	1	0	$1\overline{1}00$	
02	(000)	0	0	0	0	0	0	$2\overline{2}00$	
03	(000)	0	1	1	1	1	0	$3\overline{3}00$	
10	$(00\bar{2})$	$\overline{1}$	1	1	0	0	1	0211	
11	$(00\overline{2})$	<u>1</u>	0	0	1	1	<u>1</u>	1111	
12	$(00\overline{2})$	<u> </u>	1	1	0	0	$\overline{\underline{1}}$	2011	
13	$(00\overline{2})$	1	0	0	1	1	1	3111	
		131.442	$P\overline{4_2'/m'}$ n	nc' Class	sification	$=\mathbb{Z}_{M}^{2}$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
									·

$ \mathbb{Z}_2$	weak	$4_{00\frac{1}{2}}^{001}*$	2 <sup>100</sup> *	i*	$2^{110}_{00\frac{1}{2}}$	$\bar{4}^{001}_{00\frac{1}{2}}$	$g_{00\frac{1}{2}}^{110}*$	$Cm_{(0)}^{100}$		
0	(000)	$00\frac{1}{2}$	0	0	00 2	00 2	0	$\frac{2\overline{2}00}{2}$		
0	(000)	0	0	0	0	0	0	$\frac{2200}{1\overline{1}1\overline{1}}$		
0	(000)	0	0	0	0	0	0	1111		
$\frac{0}{1}$	(000)	1	1	0	0	1	0	$1\overline{100}$		
	/		$\frac{1}{4_2/mmc}$		$cation = \mathbb{Z}$					
77		$\frac{1.444 P_{c^2}}{\{1 00\frac{1}{2}\}*}$	$\frac{42/777776}{4^{001}*}$	$\frac{\text{Classific}}{2^{100}}$	$\frac{\text{cation} = \mathbb{Z}}{i}$	$\frac{\Lambda_{\rm H}}{2^{110}}$	$\frac{1}{4^{001}}$	$\mathrm{SI} = z'_{2P,1}, z$	$\frac{C_{4P}}{C_{m}^{100}}$	Cm 001
$\frac{\mathbb{Z}_{2,4}}{00}$	weak	$\frac{\{1 00\frac{1}{2}\}*}{0}$						$m_{1\bar{1}0}*$	$\frac{Cm_{(2)}^{100}}{2\overline{2}2\overline{2}}$	$Cm_{(4)}^{001}$
$\frac{00}{00}$	(000)		0	0	0	0	0	0	$\frac{2222}{4\overline{4}00}$	$\frac{0000}{4\overline{400}}$
$\frac{00}{00}$	(000)	0	0	0	0	0	0	0	$\frac{4400}{00\overline{2}2}$	$\frac{4\overline{400}}{0000}$
00	(000)	0	0	0	0	0	0	0	$\frac{0022}{2200}$	0000
$\frac{00}{03}$	(000)	1	1	0	1	1	0	0	$\frac{2200}{1\overline{1}00}$	$\frac{0000}{1\overline{1}00}$
$\frac{03}{02}$	(000)	0	0	0	0	0	0	0	$\frac{1100}{2\overline{2}00}$	$\frac{1100}{2\overline{2}00}$
$\frac{02}{01}$	(000)	1	1	0	1	1	0	0	$\frac{2200}{3\overline{3}00}$	$\frac{2200}{3\overline{3}00}$
$\frac{01}{10}$	(000)	0	0	0	0	0	0	0	$\frac{3500}{1\overline{1}1\overline{1}}$	0000
13	(000)	1	1	0	1	1	0	0	$\frac{2\overline{2}1\overline{1}}{2\overline{2}1\overline{1}}$	$\frac{0000}{1\overline{1}00}$
$\frac{13}{12}$	(000)	0	0	0	0	0	0	0	$\frac{2\overline{2}\overline{1}\overline{1}}{3\overline{3}1\overline{1}}$	$\frac{1100}{2200}$
$\frac{12}{11}$	(000)	1	1	0	1	1	0	0	$\frac{3311}{4\overline{4}1\overline{1}}$	$\frac{2200}{3\overline{3}00}$
	(000)								4411	
F77	1 1	131.445	$\frac{P_C 4_2/m_0}{4001}$		ssification	$\frac{=\mathbb{Z}_M^2}{2^{010}}$	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$	O 001	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{00\frac{1}{2}}^{001}$	$2^{110}_{00\frac{1}{2}}$	i	2010	$\bar{4}^{001}_{00rac{1}{2}}$	$Cm_{(2)}^{010}$	$Cm_{(4)}^{001}$	
0	(000)	0	0	0	0	0	0	$4\overline{4}00$	$4\overline{4}00$	
0	(000)	0	0	0	0	0	0	$2\overline{2}00$	0000	
0	(000)	0	0	0	0	0	0	$\bar{2}200$	0000	
3	(000)	1	0	0	1	0	1	$1\overline{1}00$	$1\overline{1}00$	
2	(000)	0	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}00$	
1	(000)	1	0	0	1	0	1	$3\overline{3}00$	$3\overline{3}00$	
		131.446	$P_I 4_2/mr$	nc Clas	ssification	$=\mathbb{Z}_{M}^{2}$	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$		
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$2^{100}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	$Cm_{(2)}^{010}$	$Cm_{(4)}^{001}$
0	(000)	0	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	0	0	$\frac{\overline{2}\overline{2}\overline{0}}{0}$	$\frac{\frac{\overline{2}}{2}\overline{2}0}{0}$	$\frac{-\frac{1}{2}\frac{1}{2}0}{0}$	$4\overline{400}$	$\frac{4400}{}$
0	(000)	0	0	0	0	0	0	0	$2\overline{2}00$	0000
0	(000)	0	0	0	0	0	0	0	2200	0000
3	(000)	1	1	0	1	1	0	0	$1\overline{1}00$	1100
2	(000)	0	0	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}00$
1	(000)	1	1	0	1	1	0	0	3300	3300
	/	132.447	$P4_2/mc$	m Clas	sification =	- 72	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$		
$\mathbb{Z}_4$	weak	$\frac{4_{00\frac{1}{2}}^{001}}{4_{00\frac{1}{2}}^{001}}$	$\frac{142/mc}{2^{100}_{00\frac{1}{2}}}$	$\frac{n}{i}$	$2^{110}$	$\frac{-2I_{M}}{4_{00\frac{1}{2}}^{001}}$	$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$		
0	(000)	0	0	0	0	0	$\frac{44}{2\overline{2}}$	4400		
0	(000)	0	0	0	0	0	$\frac{22}{\overline{20}}$	0000		
0	(000)	0	0	0	0	0	$\overline{2}2$	0000		
$\frac{3}{2}$	(000)	0	0	1	0	1	$\frac{1\overline{1}}{2\overline{2}}$	$1\overline{1}00$		
	(000)	0	0	$\frac{0}{1}$	0	0	$\frac{22}{3\overline{3}}$	$\frac{2\overline{2}00}{3\overline{3}00}$		
1	(000)		0		0	1				
	-	132.450	$P4_2'/mc'$		sification	$=\mathbb{Z}_{M}^{2}$	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$		
$\mathbb{Z}_4$	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	$4\overline{4}$	$4\overline{4}00$		
0	(000)	0	0	0	0	0	$2\overline{2}$	0000		
0	(000)	0	0	0	0	0	$\overline{2}2$	0000		
3	(000)	1	1	1	0	0	$1\overline{1}$	$1\overline{1}00$		
2	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}00$		
1	(000)	1	1	1	0	0	$3\overline{3}$	$3\overline{3}00$		
		132.451	$P4_2'/mc$	m' Clas	sification		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$		
$\mathbb{Z}_2$	weak	$4_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{100}$	i	$2^{110}*$	$\bar{4}^{001}_{00\frac{1}{2}}*$	$m_{1\bar{1}0}*$	$Cm_{(2)}^{001}$		
0	(000)	$00\frac{1}{2}$	00 2	0	0	00 2	0	$\frac{2\overline{2}00}{2}$		
0	(000)	0	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$		
$\frac{0}{1}$	(000)	1	0	1	1	0	0	$\frac{2200}{1\overline{1}00}$		
	1 (000)							-100		

		132.452	$P4_2^{\prime}/m^{\prime}c$	m Clas	sification	= Z <sub>M</sub>	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$		
$\overline{\mathbb{Z}_2}$	weak	$4^{001}_{00\frac{1}{2}}*$	$\frac{2^{100}}{2^{100}_{00\frac{1}{2}}}$	<i>i</i> *	2 <sup>110</sup> *	$\frac{\overline{4}_{001}^{001}}{\overline{4}_{00\frac{1}{2}}^{001}}$	$Cm_{(0)}^{110}$	22,54		
0	(000)	$\frac{-00\frac{1}{2}}{0}$	$\frac{-00\frac{1}{2}}{0}$	0	0	$\frac{-00\frac{1}{2}}{0}$	$\frac{2\overline{2}}{2}$			
0	(000)	0	0	0	0	0	$\frac{22}{2\overline{2}}$			
$\frac{0}{1}$	(000)	1	0	0	1	1	$\frac{22}{1\overline{1}}$			
	/							GT ±		
	132.45		$\frac{nc'm'}{2}$ C		$\frac{\text{on} = \mathbb{Z}_M}{2^{110}*}$	× Z .	$X_{BS} = \mathbb{Z}_{2,4}$	$SI = z_{2m,\pi}^+$	$,z_{4m,0}$	
$\mathbb{Z}_{2,4}$	weak	$4_{00\frac{1}{2}}^{001}$	$2^{100}_{00\frac{1}{2}}*$	i	2110*	$\bar{4}^{001}_{00\frac{1}{2}}$	$m_{1\bar{1}0}*$	$Cm_{(4)}^{001}$		
00	(004)	2	0	0	0	0	0	0422		
00	(000)	0	0	0	0	0	0	$4\bar{4}00$		
00	(000)	0	0	0	0	0	0	0000		
01	(000)	0	1	1	1	1	0	$1\overline{1}00$		
02	(000)	0	0	0	0	0	0	$2\overline{2}00$		
03	(000)	0	1	1	1	1	0	$3\overline{3}00$		
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	$3\overline{1}11$		
		132.454	$P4_2'/m'c$	em' Clas	ssification		$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$4^{001}_{00\frac{1}{2}}*$	$2^{100}_{00\frac{1}{2}}*$	i*	$2^{110}$	$\bar{4}^{001}_{00\frac{1}{2}}$	$m_{1\bar{1}0}*$			
0	(000)	$\frac{00\overline{2}}{0}$	$\frac{00_{\overline{2}}}{0}$	0	0	$\frac{00_{\overline{2}}}{0}$	0			
1	(000)	1	1	0	0	1	0			
	/	132.456	$P_c4_2/m_c$	cm Clas	sification	- 7 <sup>2</sup>	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$		
$\mathbb{Z}_4$	weak	$\{1 00\frac{1}{2}\}*$	$\frac{1 c^{42/mc}}{4^{001}}*$	$2^{100}*$	i	$\frac{-2M}{2^{110}}$	$\frac{\Lambda_{\rm BS} - 224}{\bar{4}^{001}*}$	$\frac{S1 = z_4 p}{Cm_{(4)}^{001}}$	$Cm_{(2)}^{1\bar{1}0}$	
$\frac{224}{0}$	(000)	$\frac{11 00\overline{2}f^*}{0}$	0	0	0	0	0	$\frac{6m_{(4)}}{4\overline{4}00}$	$\frac{Cm_{(2)}}{4\overline{4}}$	
$\frac{0}{0}$	(000)	0	0	0	0	0	0	0000	$\frac{44}{22}$	
0	(000)	0	0	0	0	0	0	0000	$\frac{2\overline{2}}{2\overline{2}}$	
$\frac{}{3}$	(000)	1	1	1	1	0	0	$1\overline{1}00$	$\frac{22}{1\overline{1}}$	
$\frac{3}{2}$	(000)	0	0	0	0	0	0	$\frac{1100}{2\overline{2}00}$	$\frac{11}{2\overline{2}}$	
$\frac{2}{1}$	(000)	1	1	1	1	0	0	$\frac{2200}{3\overline{3}00}$	$\frac{22}{3\overline{3}}$	
	(000)								<u>ეე</u>	
		132.457	$\frac{P_C 4_2/m}{4001}$	$\frac{cm}{2^{110}}$ Clas	ssification	$=\mathbb{Z}_{M}^{2}$ $2_{00,1}^{010}$	$X_{BS} = \mathbb{Z}_4$		<u>α 110</u>	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{00\frac{1}{2}}^{001}$	2110	i	$2_{00\frac{1}{2}}^{010}$	$\bar{4}_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{100}$	$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	0	$4\overline{4}$	$4\overline{4}00$
0	(000)	0	0	0	0	0	0	0	$2\overline{2}$	0000
0	(000)	0	0	0	0	0	0	0	$\overline{2}2$	0000
3	(000)	1	0	0	1	0	1	1	$1\overline{1}$	$1\overline{1}00$
2	(000)	0	0	0	0	0	0	0	$2\overline{2}$	$2\overline{2}00$
1	(000)	1	0	0	1	0	1	1	$3\overline{3}$	$3\overline{3}00$
		132.458	$P_I4_2/m$	cm Clas	sification	$=\mathbb{Z}_{M}^{2}$	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$		
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$\frac{4^{001}_{\frac{1}{2}\frac{1}{2}0}*}{4^{001}_{\frac{1}{2}\frac{1}{2}0}}$	$2_{00\frac{1}{2}}^{100}$	i	$\frac{2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$* \frac{\overline{4^{001}}}{\overline{4^{1}_{\frac{1}{2}\frac{1}{2}0}}} *$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$	
0	(000)		$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	$00\frac{1}{2}$	0	$\frac{\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}$	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{4400}{4400}$	$\frac{4\overline{4}}{4\overline{4}}$	
0	1 (000)	11			U				77	
U	(000)	0							$\overline{9}$ 2	
	(000)	0	0	0	0	0	0	0000	$\frac{\overline{2}2}{2\overline{2}}$	
0	(000)	0	0	0	0	0	0	0000	$2\overline{2}$	
0 3	(000)	0 0 1	0 0 1	0 0 0	0 0 1	0 0 1	0 0 0	0000 0000 1100	$\frac{2\overline{2}}{1\overline{1}}$	
$ \begin{array}{c c} \hline 0 \\ \hline 3 \\ \hline 2 \end{array} $	(000) (000) (000)	0 0 1 0	0 0 1 0	0 0 0 0	0 0 1 0	0 0 1 0	0 0 0	$   \begin{array}{r}     0000 \\     0000 \\     \hline     1\overline{1}00 \\     2\overline{2}00   \end{array} $	$ \begin{array}{r} 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
0 3	(000)	0 0 1 0 1	0 0 1 0 1	0 0 0 0	0 0 1 0	0 0 1 0 1	0 0 0 0	$ \begin{array}{r} 0000 \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \end{array} $	$\frac{2\overline{2}}{1\overline{1}}$	
$ \begin{array}{c} 0 \\ 3 \\ 2 \\ 1 \end{array} $	(000) (000) (000) (000)	0 0 1 0 1 133.459	$0 \\ 0 \\ 1 \\ 0 \\ 1 \\ P4_2/n$	0 0 0 0 0 0	0 0 1 0 1 sification :	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $ $= \mathbb{Z}_2$	$\begin{array}{c} 0\\0\\0\\0\\0\\0\end{array}$	$   \begin{array}{r}     0000 \\     0000 \\     \hline     1\overline{1}00 \\     2\overline{2}00   \end{array} $	$ \begin{array}{r} 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 0\\ 3\\ 2\\ 1\\ \hline \mathbb{Z}_2 \end{array} $	(000) (000) (000) (000) (weak	$0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 133.459 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}}$	0 0 1 0 1	0 0 0 0 0 0 bc Class	0 0 1 0	0 0 1 0 1	0 0 0 0	$ \begin{array}{r} 0000 \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \end{array} $	$ \begin{array}{r} 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c} 0\\ 3\\ 2\\ 1\\ \hline \\ \mathbb{Z}_2\\ 0 \end{array} $	(000) (000) (000) (000) (000) weak (000)	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 133.459 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline P4_2/n \\ 2_{0\frac{1}{2}0}^{100} \\ 0 \\ \end{array}$	0 0 0 0 0 0 bc Class i	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $ sification = $2^{110}_{00\frac{1}{2}}$	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline = \mathbb{Z}_2 \\ \hline 4_{\frac{1}{2}0\frac{1}{2}}^{101} \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline X_{BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}, \frac{1}{2}, \frac{1}{2}}^{10} \\ 0 \end{array} $	$ \begin{array}{r} 0000 \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \end{array} $	$ \begin{array}{r} 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 0\\ 3\\ 2\\ 1\\ \hline \mathbb{Z}_2 \end{array} $	(000) (000) (000) (000) (weak	$0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 133.459 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}}$	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline P4_2/n \\ 2_{0\frac{1}{2}0}^{100} \end{array} $	0 0 0 0 0 0 bc Class	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $ sification : $2_{00\frac{1}{2}}^{110}$	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ = \mathbb{Z}_2 \\ \overline{4_{\frac{1}{2}0\frac{1}{2}}^{10}} \end{array} $	$0 \\ 0 \\ 0 \\ 0 \\ 0$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$ \begin{array}{r} 0000 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ SI = z'_{2P} \end{array} $	$ \begin{array}{r} 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c} 0\\ 3\\ 2\\ 1\\ \hline \\ \mathbb{Z}_2\\ 0 \end{array} $	(000) (000) (000) (000) (000) weak (000)	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 133.459 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \hline 133.462 \\ \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline P4_2/n \\ 2_{0\frac{1}{2}0}^{100} \\ 0 \\ \hline P4'_2/n \\ \end{array} $	0 0 0 0 0 0 bc Class i 0	$0$ $0$ $1$ $0$ $1$ sification = $2^{110}_{00\frac{1}{2}}$ $0$ sification	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $ $ = \mathbb{Z}_2 \\ \overline{4}_{\frac{1}{2}0\frac{1}{2}}^{001} \\ 0 \\ 1 $ $ = \mathbb{Z}_2 $	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ X_{BS} = \mathbb{Z}_2 $ $ g_{\frac{1}{2}, \frac{1}{2}, \frac{1}{2}}^{10} $ $ 0 \\ 1 $ $ X_{BS} = \mathbb{Z}_2 $	$ \begin{array}{r} 0000 \\ 0000 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{300} \end{array} $	$ \begin{array}{r} 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c} 0\\ 3\\ 2\\ 1\\ \hline \\ \mathbb{Z}_2\\ 0 \end{array} $	(000) (000) (000) (000) (000) weak (000)	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 133.459 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \hline 133.462 \\ \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline P4_2/n \\ 2_{0\frac{1}{2}0}^{100} \\ 0 \\ \hline P4'_2/n \\ \end{array} $	0 0 0 0 0 0 bc Class i 0	$0$ $0$ $1$ $0$ $1$ sification = $2^{110}_{00\frac{1}{2}}$ $0$ sification	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $ $ = \mathbb{Z}_2 \\ \overline{4}_{\frac{1}{2}0\frac{1}{2}}^{001} \\ 0 \\ 1 $ $ = \mathbb{Z}_2 $	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ X_{BS} = \mathbb{Z}_2 $ $ g_{\frac{1}{2}, \frac{1}{2}, \frac{1}{2}}^{10} $ $ 0 \\ 1 $ $ X_{BS} = \mathbb{Z}_2 $	$ \begin{array}{r} 0000 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ SI = z'_{2P} \end{array} $	$ \begin{array}{r} 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c} 0 \\ 3 \\ 2 \\ 1 \end{array} $ $ \begin{array}{c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \mathbb{Z}_2$	(000) (000) (000) (000) (000) weak (000) (000)	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ 133.459\\ 4^{001}_{\frac{1}{2}0\frac{1}{2}}\\ 0\\ 0\\ 133.462\\ 4^{001}_{\frac{1}{2}0\frac{1}{2}}*\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 2^{100}_{0\frac{1}{2}0} \\ 0 \\ 0 \\ \hline 2^{100}_{0\frac{1}{2}0} * \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} bc  \text{Class} \\ i \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline sification = \\ 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline sification \\ 2^{110}_{00\frac{1}{2}} \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $= \mathbb{Z}_2$ $\frac{4^{001}_{\frac{1}{2}0\frac{1}{2}}}{0}$ $0$ $1$ $= \mathbb{Z}_2$ $\frac{4^{001}_{\frac{1}{2}0\frac{1}{2}} *}{0}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10}\\ 0\\ 1\\ X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10}$	$ \begin{array}{r} 0000 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ SI = z'_{2P} \end{array} $	$ \begin{array}{r} 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline  & \\  & \\ \hline  & \\  & \\  & \\  & \\  & $	(000) (000) (000) (000) (000) weak (000) (000)	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 133.459 \\ 4 \frac{1}{2} 0 \frac{1}{2} \\ 0 \\ 0 \\ 133.462 \\ 4 \frac{1}{2} 0 \frac{1}{2} * \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline P4_2/n \\ 2_{0\frac{1}{2}0}^{100} \\ 0 \\ 0 \\ \hline P4_2'/n \\ 2_{0\frac{1}{2}0}^{100} * \\ 0 \\ \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} bc  \text{Class} \\ i \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ sification \\ 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $= \mathbb{Z}_2$ $\frac{\bar{4}_{\underline{1}01}^{001}_{\underline{1}0\underline{1}}}{0}$ $1\\ = \mathbb{Z}_2$ $\frac{\bar{4}_{\underline{1}01}^{001}_{\underline{1}2}}{1}$ $0$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ 1\\ X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ \end{array}$	$ \begin{array}{r} 0000 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ SI = z'_{2P} \end{array} $	$ \begin{array}{r} 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c} 0 \\ 3 \\ 2 \\ 1 \end{array} $ $ \begin{array}{c} \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \mathbb{Z}_2$	(000) (000) (000) (000) (000) weak (000) (000)	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ 1\\ 33.459\\ 4_{\frac{1}{2}0\frac{1}{2}}^{101}\\ 0\\ 0\\ 133.462\\ 4_{\frac{1}{2}0\frac{1}{2}}^{101}*\\ 0\\ 1\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline P4_2/n \\ 2_{0\frac{1}{2}0}^{100} \\ 0 \\ \hline P4_2'/n \\ 2_{0\frac{1}{2}0}^{100} * \\ 0 \\ 1 \\ \end{array}$	$ \begin{array}{c} 0\\ 0\\ 0\\ 0\\ \end{array} $ $ \begin{array}{c} 0\\ bc  \text{Class}\\ i\\ 0\\ 1\\ \end{array} $ $ \begin{array}{c} 0\\ 1\\ \end{array} $ $ \begin{array}{c} 1\\ \end{array} $	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ = \mathbb{Z}_2\\ \bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}\\ 0\\ 1\\ = \mathbb{Z}_2\\ \bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10}$ $0\\ 1\\ X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{10}$ $0$ $1$	$0000$ $0000$ $1\overline{1}00$ $2\overline{2}00$ $3\overline{3}00$ $\overline{SI} = z'_{2P}$ $\overline{SI} = z'_{2P}$	$ \begin{array}{r} 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 0 \\ 3 \\ 2 \\ 1 \\ \hline  & \\  & \\  & \\  & \\  & \\  & \\  & \\ $	(000) (000) (000) (000) (000) weak (000) (000) weak (000)	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ 1\\ 33.459\\ 4_{\frac{1}{2}0\frac{1}{2}}^{101}\\ 0\\ 0\\ 133.462\\ 4_{\frac{1}{2}0\frac{1}{2}}^{201}*\\ 0\\ 1\\ 133.463\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \hline P4_2/n\\ 2_{0\frac{1}{2}0}^{100}\\ 0\\ 0\\ \hline P4_2'/n\\ 2_{0\frac{1}{2}0}^{100}*\\ 0\\ 1\\ \hline P4_2'/n\\ \end{array}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \text{sification} \\ 2^{110}_{00\frac{1}{2}} \\ 0 \\ 0 \\ \text{sification} \\ 2^{110}_{00\frac{1}{2}} \\ 0 \\ \text{sification} \\ \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $ $ = \mathbb{Z}_{2} \\ \overline{4}_{\frac{1}{2}0\frac{1}{2}}^{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 1 \\ = \mathbb{Z}_{2} \\ \overline{4}_{\frac{1}{2}0\frac{1}{2}}^{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ = \mathbb{Z}_{2} $	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ 1\\ X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ 1\\ \end{array}$ $X_{BS} = \mathbb{Z}_2$	$ \begin{array}{r} 0000 \\ 0000 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ 3\overline{3}00 \\ SI = z'_{2P} \end{array} $	$ \begin{array}{r} 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 0 \\ \hline 3 \\ 2 \\ \hline 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	(000) (000) (000) (000) (000) weak (000) (000)	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ 1\\ 33.459\\ 4_{\frac{1}{2}0\frac{1}{2}}^{101}\\ 0\\ 0\\ 133.462\\ 4_{\frac{1}{2}0\frac{1}{2}}^{101}*\\ 0\\ 1\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline P4_2/n \\ 2_{0\frac{1}{2}0}^{100} \\ 0 \\ \hline P4_2'/n \\ 2_{0\frac{1}{2}0}^{100} * \\ 0 \\ 1 \\ \end{array}$	$ \begin{array}{c} 0\\ 0\\ 0\\ 0\\ \end{array} $ $ \begin{array}{c} 0\\ bc  \text{Class}\\ i\\ 0\\ 1\\ \end{array} $ $ \begin{array}{c} 0\\ 1\\ \end{array} $ $ \begin{array}{c} 1\\ \end{array} $	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ = \mathbb{Z}_2\\ \bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}\\ 0\\ 1\\ = \mathbb{Z}_2\\ \bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ 1\\ X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}\\ 0\\ 1\\ \end{array}$ $X_{BS} = \mathbb{Z}_2$	$0000$ $0000$ $1\overline{1}00$ $2\overline{2}00$ $3\overline{3}00$ $\overline{SI} = z'_{2P}$ $\overline{SI} = z'_{2P}$	$ \begin{array}{r} 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	

0	(000)	0	0	0	0	0	0		
1	(000)	1	0	1	1	0	0		
	•	133.464	$P4_2'/n'b'$	c Class	sification =		$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$2_{0\frac{1}{2}0}^{100}$	i*	$2^{110}_{00\frac{1}{2}}*$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	, <del>*</del>	
0	(000)	0	0	0	0	0	0		
1	(000)	1	0	0	1	1	1		
	133.4	$\frac{1}{465} P4_2/$	nb'c' Cla	assificati	on = $\mathbb{Z} \times$	$\mathbb{Z}_2$ X	$_{\mathrm{BS}}=\mathbb{Z}_{2.2}$	$SI = z_{2,S_4}, z_{4C}/2$	
$\overline{\mathbb{Z}_{2,2}}$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}}$	$2^{100}_{0\frac{1}{2}0}*$	i	$2^{110}_{00\frac{1}{2}}*$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{10}}*$	-,-4/	
00	(000)	$\frac{\bar{2}^{0}\bar{2}}{0}$	0	0	00 2	$\frac{\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{0 \frac{1}{2} \frac{1}{2} \frac{1}{2}}{0}$		
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	$P4_2'/n'b$	c' Class	sification =		$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$2^{100}_{0\frac{1}{2}0}*$	i*	$2^{110}_{00\frac{1}{2}}$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$	$g_{rac{1}{2}rac{1}{2}rac{1}{2}rac{1}{2}}^{110}*$		
0	(000)	0	0	0	0	0	$\frac{222}{0}$		
1	(000)	1	1	0	0	1	0		
		133.468	$P_c4_2/n^2$	bc Clas	sification	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\{1 00\frac{1}{2}\}*$	$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{0\frac{1}{2}0}$	i	$2^{110}_{000}*$	$\bar{4}^{001}_{\frac{1}{2}00}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	
0	(000)	0	$\frac{\frac{1}{2}00}{0}$	$\frac{0}{2}$	0	0	$\frac{-\frac{1}{2}00}{0}$	$\frac{-\frac{1}{2}\frac{1}{2}0}{0}$	
1	(000)	1	1	0	1	1	0	0	
		133.469	$P_C 4_2/n$	bc Clas	sification	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4_{0\frac{1}{2}\frac{1}{2}}^{001} *$	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2^{010}_{\frac{1}{2}00}$	$\frac{\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}}{4^{001}_{\frac{1}{2}0\frac{1}{2}}}$	$g_{\frac{1}{2}00}^{100}*$	
0	(000)	0	$\frac{0 \overline{2} \overline{2}}{0}$	$\frac{\overline{2}  \overline{2}  \overline{2}}{0}$	0	$\frac{\frac{1}{2}00}{0}$	$\frac{\overline{2}^{0}\overline{2}}{0}$	$\frac{0}{200}$	
1	(000)	1	1	1	0	0	1	0	
	/	133.470	$P_I 4_2/n$	bc Clas	sification	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$		2100	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$		$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	
0	(000)	0	$0^{\frac{0}{2}0}$	$\frac{z_{0\frac{1}{2}0}}{0}$	0	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{1}{2}0\frac{1}{2}$	$\frac{3\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}$	
$\frac{}{1}$	(000)	1	1	0	0	1	1	1	
	()	134.471	$P4_2/nnr$	n Class	sification	- 7.vr	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\frac{4^{001}_{\frac{1}{2}0^{\frac{1}{2}}}$	$\frac{2_{0\frac{1}{2}\frac{1}{2}}^{100}}{2_{0\frac{1}{2}\frac{1}{2}}^{100}}$	$\frac{i}{i}$	$\frac{2^{110}}{2^{110}}$	$\frac{\overline{4^{001}_{120^{\frac{1}{2}}}}}{\overline{4^{001}_{20^{\frac{1}{2}}}}}$	$Cm_{(2)}^{110}$	<i>51</i> ~2 <i>P</i>	
0	(000)	$\frac{\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{0\frac{1}{2}\frac{1}{2}}{0}$	0	0	$\frac{\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{2\overline{2}}{2\overline{2}}$		
$\frac{0}{0}$	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$		
$\frac{}{1}$	(000)	0	0	1	0	1	11		
	()	134 474	$P4_2'/nn'$	m. Clas	sification	= Z <sub>M</sub>	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	$\frac{i}{i}$	2110	$\frac{\overline{4001}}{\overline{4202}} *$	$Cm_{(2)}^{110}$	<i>51</i> ≈2 <i>P</i>	
$\frac{-2}{0}$	(000)	$\frac{-\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{-0\frac{1}{2}\frac{1}{2}}{0}$	0	0	$\frac{-\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{2\overline{2}}{2\overline{2}}$		
$\frac{0}{0}$	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$		
$\frac{}{1}$	(000)	1	1	1	0	0	$\frac{22}{11}$		
	1 -/	134.475	$P4_2'/nn$		ssification		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}$	$\frac{i}{i}$	$2^{110}*$	$\frac{-22}{\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110} *$	~- ~2P	
0	(000)	$\frac{\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{2_{0\frac{1}{2}\frac{1}{2}}}{0}$	0	0	$\frac{1}{2}0\frac{1}{2}$	$\frac{g_{\frac{1}{2}\frac{1}{2}0}}{0}$		
$\frac{0}{1}$	(000)	1	0	1	1	0	0		
	(000)	134.476	$P4_2'/n'n'r$		sification :		$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\overline{\mathbb{Z}_2}$	weak	$\frac{4^{001}_{\frac{1}{2}0^{\frac{1}{2}}}*}$	$\frac{2_{0\frac{1}{2}\frac{1}{2}}^{100}}{2_{0\frac{1}{2}\frac{1}{2}}^{100}}$	i*	$\frac{2^{110}*}{}$	$\frac{-2M}{4^{001}_{\frac{1}{2}0^{\frac{1}{2}}}}$	$\frac{A_{\rm BS} - \mathbb{Z}_2}{Cm_{(0)}^{110}}$	$\omega_1 = \omega_2, s_4$	
$\frac{\square_2}{0}$	(000)	$\frac{\frac{1}{2}0\frac{1}{2}\pi}{0}$	$\frac{2_{0\frac{1}{2}\frac{1}{2}}}{0}$	0	0	$\frac{\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{2\overline{2}}{2}$		
$\frac{0}{0}$	(000)	0	0	0	0	0	$\frac{22}{2\overline{2}}$		
$\frac{0}{1}$	(000)	1	0	0	1	1	$\frac{22}{1\overline{1}}$		
	134.4				$ion = \mathbb{Z} \times$		$X_{\mathrm{BS}} = \mathbb{Z}_{2,2}$	$SI = z_{2,S_4}, z_{4C}/2$	
$\overline{\mathbb{Z}_{2,2}}$	weak	$\frac{4001}{4_{\frac{1}{2}0\frac{1}{2}}^{001}}$	$\frac{100}{2_{0\frac{1}{2}\frac{1}{2}}^{100}}*$	$\frac{i}{i}$	$\frac{1011 - 2.1 \times 1}{2^{110}}$ *		$\frac{g_{\rm BS}^{110} - \mathbb{Z}_{2,2}}{g_{\frac{1}{2}\frac{1}{2}0}^{110} *}$	51 - 22, 54, 24C/2	
$\frac{22,2}{00}$	(000)	$\frac{4\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{z_{0\frac{1}{2}\frac{1}{2}}}{0}$	0	0	$\frac{\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}}{0}$	$9\frac{1}{2}\frac{1}{2}0^*$		
$\frac{00}{00}$	(004)	2	0	0	0	0	0		
$\frac{00}{01}$	(004)	1	0	1	1	0	0		
$\frac{-01}{10}$	(000)	0	1	1	1	1	0		
-	1 ()	-				•	~		

-11	(000)	1	-1	0		1			
	(002)	1	1	0	0	1	0	~-	
		134.478			ssification $2^{110}$	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$2_{0\frac{1}{2}\frac{1}{2}}^{100}*$	i*	$2^{110}$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	1	0	0	1	0		
		134.480	$P_c4_2/nr$	m Clas	sification		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{0\frac{1}{2}0}*$	i	$2^{110}_{000}$	$\bar{4}^{001}_{\frac{1}{2}00}*$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	$2\overline{2}$	
0	(000)	0	0	0	0	0	0	$2\overline{2}$	
1	(000)	1	1	1	1	0	0	$1\overline{1}$	
		134.481	$P_C4_2/nr$	ım Clas	sification	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$		$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$i_{\frac{1}{2}\frac{1}{2}0}*$	$2^{010}_{\frac{1}{2}0\frac{1}{2}}$	$\frac{\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$	$g_{\frac{1}{2}0\frac{1}{2}}^{100}*$	$Cm_{(2)}^{110}$
	(000)	0	$\frac{0 \overline{2} \overline{2}}{0}$	$\frac{\frac{7}{2}}{0}$	0	$\frac{\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{-\frac{7}{2}0\frac{7}{2}}{0}$	$\frac{0}{2}0\frac{1}{2}$	$\frac{\overline{22}}{2\overline{2}}$
0	(000)	0	0	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$
$\frac{0}{1}$	(000)	1	1	1	0	0	1	0	11
	(000)	134.482			sification		$X_{BS} = \mathbb{Z}_2$		
$\overline{\mathbb{Z}_2}$	nrools		$P_{I}4_{2}/nr$			<u>- ∠M</u> 2110 .		$\frac{\text{SI} = z'_{2P}}{Cm_{(2)}^{110}}$	
	weak			$2^{100}_{0\frac{1}{2}\frac{1}{2}}$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$		
0	(000)	0	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$	
0	(000)	0	0	0	0	0	0	22	
1	(000)	1	1	0	0	1	1	11	
		135.483	$P4_2/mb$		fication =		$X_{BS} = \mathbb{Z}_4$	$SI = z_{4m,0}^+$	
$\mathbb{Z}_4$	weak	$4_{00\frac{1}{2}}^{001}$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{001}_{00\frac{1}{2}}$	$g_{rac{1}{2}rac{1}{2}rac{1}{2}}^{110}$	$Cm_{(4)}^{001}$	
0	(000)	0	0	0	0	0	0	$4\overline{4}00$	
0	(000)	0	0	0	0	0	0	0000	
1	(000)	0	0	1	0	1	1	$1\overline{1}00$	
2	(000)	0	0	0	0	0	0	$2\overline{2}00$	
3	(000)	0	0	1	0	1	1	$3\overline{3}00$	
		135.486	D4' /mal	1/ CI		777	37 577	OT /	
		100.400	$P4_2/mu$	c Class	sification	$= \mathbb{Z}_M$	$X_{\mathrm{BS}} = \mathbb{Z}_2$	$S1 = z_{2P}$	
$\overline{\mathbb{Z}_2}$	weak		$\frac{P4_2'/mb}{2_{1,1,0}^{100}*}$	$\frac{i}{i}$	sification $2^{110}_{111}$	$\frac{= \mathbb{Z}_M}{\bar{4}_{00.1}^{001} *}$	$X_{\rm BS} = \mathbb{Z}_2$ $q_{1,1,1}^{1\bar{1}0}$	$SI = z'_{2P}$ $Cm^{001}_{(2)}$	
$\frac{\mathbb{Z}_2}{0}$		$4_{00\frac{1}{2}}^{001}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\bar{4}_{00\frac{1}{2}}^{001}*$	$g_{rac{1}{2}rac{1}{2}rac{1}{2}}^{110}$	$Cm_{(2)}^{001}$	
0	(000)	$4^{001}_{00\frac{1}{2}}*$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0} * \\ 0 \end{array}$	$i \\ 0$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \end{array}$	$\bar{4}_{00\frac{1}{2}}^{001} *$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	$\frac{Cm_{(2)}^{001}}{2\overline{2}00}$	
0	(000)	$\begin{array}{c} 4_{00\frac{1}{2}}^{001} * \\ \hline 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}0}^{100} * \\ 0 \\ 0 \end{array} $	<i>i</i> 0 0	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} \bar{4}^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} Cm_{(2)}^{001} \\  2\overline{2}00 \\  2\overline{2}00 \end{array} $	
0	(000) (000) (000)	$4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1$	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}0}^{100} * \\ 0 \\ 0 \\ 1 \end{array} $	i 0 0 1	$ \begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \end{array} $	$   \begin{array}{c}     \bar{4}_{00\frac{1}{2}}^{001} * \\     0 \\     0 \\     0   \end{array} $	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ 1 \end{array}$	$ \begin{array}{c} Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $	
0 0 1	(000) (000) (000)	$ \begin{array}{c} 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1 \\ 135.487  F \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}0}^{100} * \\ 0 \\ 0 \\ 1 \end{array} $	i 0 0 1 Classifi	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ 0 \\ \hline \text{cation} = \end{array} $	$ \begin{array}{c c} \bar{4}_{00\frac{1}{2}}^{001} * \\ \hline 0 \\ 0 \\ \hline Z_M X \end{array} $	$ \begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ 1 \\ BS = \mathbb{Z}_4  S \end{array} $	$ \begin{array}{r} Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ 2\overline{2}00 \\ 1\overline{1}00 \\ \hline I = z_{4,135.48} \end{array} $	87
$ \begin{array}{c} 0 \\ 0 \\ 1 \end{array} $ $ \mathbb{Z}_4 $	(000) (000) (000) (weak	$ \begin{array}{c} 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1 \\ \hline 135.487  F \\ 4_{00\frac{1}{2}}^{001} * \end{array} $	$ \begin{array}{c} 2\frac{100}{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ 1 \\ \hline 2\frac{4'_2}{mbc'} \\ 2\frac{100}{\frac{1}{2}\frac{1}{2}0} \end{array} $	i $0$ $0$ $1$ Classifi $i$	$ \begin{array}{c} 2_{\frac{1}{2},\frac{1}{2},\frac{1}{2}}^{110} \\ 0 \\ 0 \\ 0 \\ \hline \text{cation} = \\ 2_{\frac{1}{2},\frac{1}{2},\frac{1}{2}}^{110} * \\ \end{array} $	$ \frac{\bar{4}_{00\frac{1}{2}}^{001} *}{0} * \\ 0 \\ 0 \\ \underline{Z_M} X \\ \underline{4}_{00\frac{1}{2}}^{001} *$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ 0 0 1 BS = $\mathbb{Z}_4$ S $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$ s	$ \begin{array}{c} Cm_{(2)}^{001} \\ 2200 \\ 2\overline{2}00 \\ 1\overline{1}00 \end{array} $ $ I = z_{4,135.48} \\ Cm_{(2)}^{001} $	87
$ \begin{array}{c c} \hline 0 \\ 0 \\ \hline 1 \\ \hline \hline \mathbb{Z}_4 \\ 0 \end{array} $	(000) (000) (000) (000) weak (000)	$ \begin{array}{c} 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1 \\ 135.487 F \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \end{array} $	$\begin{array}{c} 2\frac{100}{\frac{1}{2}\frac{1}{2}0} * \\ 0 \\ 0 \\ 1 \\ \hline 2\frac{4'_2/mbc'}{2\frac{1}{2}\frac{1}{2}0} \\ 0 \\ \end{array}$	i 0 0 1 Classifi $i$ 0	$\begin{array}{c} 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline cation = \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \end{array}$	$\begin{array}{c} \bar{4}^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ \hline \\ Z_M & X \\ \bar{4}^{001}_{00\frac{1}{2}} * \\ 0 \\ \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ 1 \\ BS = \mathbb{Z}_4 S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \begin{array}{c} Cm_{(2)}^{001} \\ 2200 \\ 2\overline{2}00 \\ 1\overline{1}00 \\ I = z_{4,135.48} \\ Cm_{(2)}^{001} \\ 4\overline{4}00 \end{array} $	37
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline  & \\ \hline  & \\ 0 \\ 0 \end{array} $	(000) (000) (000) (000) weak (000) (000)	$ \begin{array}{c} 4^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 135.487  F \\ 4^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ 1 \\ \hline 2^{4_2/mbc'} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ \end{array}$	i 0 0 1 Classifi i 0 0 0	$2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ cation = \\ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}} \\ 0 \\ 0 \\ 0$	$\begin{array}{c} \overline{4}_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ \hline 0 \\ \hline \\ \overline{2}_{M} \\ \overline{4}_{00\frac{1}{2}}^{001} * \\ 0 \\ \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ 1 \\ BS = \mathbb{Z}_4 \\ S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}*}^{110} \\ 0 \\ 0 \\ 0$	$Cm_{(2)}^{001}$ $2\overline{200}$ $2\overline{200}$ $1\overline{100}$ $I = z_{4,135.48}$ $Cm_{(2)}^{001}$ $4\overline{400}$ $0000$	87
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline  & \\  & \\ 0 \\ 0 \\ 3 \\ \end{array} $	(000) (000) (000) (000) weak (000) (000) (000)	$ \begin{array}{c} 4^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 1\\ 135.487  F \\ 4^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ 1 \\ \hline 2^{4'_2/mbc'} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ \end{array}$	i 0 0 1 Classifi i 0 0 1	$2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}$ 0 cation = $2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} *$ 0 1	$\begin{array}{c} \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline \\ \overline{2_M} \\ \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ 0 \\ \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} \\ 0 \\ 0 \\ 1 \\ BS = \mathbb{Z}_4 \\ S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Cm_{(2)}^{001} \\ \hline 2200 \\ \hline 2200 \\ \hline 1\bar{1}00 \\ \hline I = z_{4,135.48} \\ \hline Cm_{(2)}^{001} \\ \hline 4\bar{4}00 \\ \hline 0000 \\ \hline 1\bar{1}00 \\ \end{array}$	87
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline  & \\  & \\ 0 \\ 0 \\ 3 \\ 2 \end{array} $	(000) (000) (000) (000) weak (000) (000) (000)	$ \begin{array}{c} 4^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 135.487  F \\ 4^{001}_{00\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} 2\frac{100}{1\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ \hline 2\frac{4'_2/mbc'}{2\frac{100}{1\frac{1}{2}\frac{1}{2}0}}\\ 0\\ 0\\ 0\\ \end{array}$	i 0 0 1 Classifi i 0 0 1 0 1 0	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \hline cation = \\ 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $	$\begin{array}{c c} \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \hline Z_M & X \\ \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ BS = \mathbb{Z}_4 \\ S \\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1}}{0} \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Cm_{(2)}^{001} \\ \hline 2200 \\ \hline 2200 \\ \hline 1\bar{1}00 \\ \hline I = z_{4,135.48} \\ \hline Cm_{(2)}^{001} \\ \hline 4\bar{4}00 \\ \hline 0000 \\ \hline 1\bar{1}00 \\ \hline 2\bar{2}00 \\ \hline \end{array}$	87
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline  & \\  & \\ 0 \\ 0 \\ 3 \\ \end{array} $	(000) (000) (000) (000) weak (000) (000) (000)	$ \begin{array}{c} 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c} 0 \\ 135.487  F \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ 1 \\ \hline \\ 2^{4'_2/mbc'} \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	i 0 0 1 Classifi i 0 0 1 0 1 1 1 1	$2^{\frac{110}{\frac{1}{2}\frac{1}{2}}}_{\frac{1}{2}\frac{1}{2}}$ $0$ $0$ $\cot ion =$ $2^{\frac{110}{\frac{1}{2}\frac{1}{2}}}_{\frac{1}{2}\frac{1}{2}}$ $0$ $0$ $1$ $0$	$\begin{array}{c} \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ \hline 0 \\ \hline \\ 0 \\ \hline \\ \overline{2_M} \\ \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline \\ 0 \\ \hline \\ 0 \\ \hline \\ 0 \\ \hline \\ 0 \\ \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} \\ 0 \\ 0 \\ 1 \\ BS = \mathbb{Z}_4 \\ S_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline I = z_{4,135.48} \\ \hline Cm_{(2)}^{001} \\ \hline 4\overline{4}00 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \end{array}$	87
$ \begin{array}{c c} 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c} 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1 \\ \hline 135.487  F \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1 \\ 135.488 \end{array} $	$ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}0}^{100} * \\ 0 \\ 0 \\ 1 \\ \hline 2_{\frac{1}{2}\frac{1}{2}0}^{100} \\ 2_{\frac{1}{2}\frac{1}{2}0}^{100} \\ 0 \\ 0 \\ \hline 0 \\ \hline P4'_{2}/m'_{0}^{100} \end{array} $	i $0$ $0$ $1$ Classifi $i$ $0$ $0$ $1$ $0$ $1$ $b'c$ Class	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline \\ cation = \\ 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \\ sification \\ \end{array}$	$ \begin{array}{c c} \hline 4_{00\frac{1}{2}}^{001} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \hline 2_M X \\ \hline 4_{00\frac{1}{2}}^{001} * \\ \hline 0 \\ 0 \\ \hline = \mathbb{Z}_2 $	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}}$ $0$ $0$ $1$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}}$ $0$ $0$ $0$ $0$ $0$ $X_{BS} = \mathbb{Z}_{2}$	$\begin{array}{c} Cm_{(2)}^{001} \\ \hline 2200 \\ \hline 2200 \\ \hline 1\bar{1}00 \\ \hline I = z_{4,135.48} \\ \hline Cm_{(2)}^{001} \\ \hline 4\bar{4}00 \\ \hline 0000 \\ \hline 1\bar{1}00 \\ \hline 2\bar{2}00 \\ \hline \end{array}$	37
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c} 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c} 0 \\ 135.487  F \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ 24'_2/mbc'\\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ 0\\ 0\\ \hline P4'_2/m'\\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ \end{array}$	i $0$ $0$ $1$ Classifi $i$ $0$ $0$ $1$ $0$ $1$ $b'c$ Clas $i*$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline \\ cation = \\ 2^{110}_{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ \hline \\ 0 \\ 1 \\ \hline \\ sification \\ 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ \end{array}$	$ \begin{array}{c} \bar{4}_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ \bar{4}_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $1$ $BS = \mathbb{Z}_4  S$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $0$ $0$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}}$	$\begin{array}{c} Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline I = z_{4,135.48} \\ \hline Cm_{(2)}^{001} \\ \hline 4\overline{4}00 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \end{array}$	37
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 4^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ 1\\ \hline 135.487 & \\ \\ 4^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ 1\\ \hline \\ 0\\ \\ \\ 4^{001}_{00\frac{1}{2}}*\\ \\ 0\\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ \hline 24'_2/mbc'\\ 2^{\frac{100}{2}}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ 0\\ \hline 24'_2/m'c\\ 2^{\frac{100}{2}}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ \end{array}$	i $0$ $0$ $1$ Classifi $i$ $0$ $0$ $1$ $0$ $1$ $b'c$ Clas $i*$ $0$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline \\ cation = \\ 2^{\frac{110}{12}\frac{1}{2}*} \\ 0 \\ 0 \\ 1 \\ \hline \\ 0 \\ 1 \\ \hline \\ sification \\ 2^{\frac{110}{12}\frac{1}{2}*} \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline \\ \\ o \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \frac{\bar{4}_{00\frac{1}{2}}^{001} *}{0} * 0 $ $ 0 $ $ 0 $ $ \frac{\mathbb{Z}_{M} \times X}{\bar{4}_{00\frac{1}{2}}^{001} *} $ $ 0 $	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $1$ $BS = \mathbb{Z}_4  S$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} * 0$ $0$ $0$ $0$ $0$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$	$\begin{array}{c} Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline I = z_{4,135.48} \\ \hline Cm_{(2)}^{001} \\ \hline 4\overline{4}00 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \end{array}$	87
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 4^{001}_{00\frac{1}{2}}* \\ 0 \\ 0 \\ 1 \\ \hline 135.487  F \\ 4^{001}_{00\frac{1}{2}}* \\ 0 \\ 0 \\ 1 \\ 0 \\ \hline 1 \\ \hline 135.488 \\ 4^{001}_{00\frac{1}{2}}* \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ 1 \\ \hline 24'_2/mbc' \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \hline 24'_2/m'o \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \end{array}$	i $0$ $0$ $1$ Classifi $i$ $0$ $0$ $1$ $0$ $1$ $b'c$ Clas $i*$ $0$ $0$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline cation = \\ 2^{\frac{110}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline sification \\ 2^{\frac{110}{2}\frac{1}{2}} \\ 0 \\ 1 \\ \end{array}$	$ \frac{\bar{4}_{00\frac{1}{2}}^{001} *}{0} * 0 $ $ 0 $ $ \frac{\mathbb{Z}_{M}}{\bar{4}_{00\frac{1}{2}}^{001} *} \times 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ = \mathbb{Z}_{2} $ $ \frac{\bar{4}_{00\frac{1}{2}}^{001}}{00\frac{1}{2}} $ $ 0 $ $ 1 $	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $1$ $BS = \mathbb{Z}_4  S$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $0$ $0$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $1$	$Cm_{(2)}^{001}$ $2200$ $2200$ $1\overline{100}$ $I = z_{4,135,48}$ $Cm_{(2)}^{001}$ $4\overline{400}$ $0000$ $1\overline{100}$ $2\overline{200}$ $3300$ $SI = z_{2,S_4}$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c} 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1\\ 135.487  F \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1 \\ 0 \\ 1\\ 135.488 \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 1 \\ 0 \\ 1 \\ 89  P4_2/r \end{array} $	$\begin{array}{c} 2\frac{100}{12\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ \hline 24'_2/mbc'\\ 2\frac{1}{2}\frac{1}{2}0\\ 0\\ 0\\ 0\\ \hline 24'_2/m'\\ 0\\ \hline 2\frac{100}{12\frac{1}{2}0}\\ 0\\ 0\\ \hline 0\\ \hline mb'c' \end{array}$	i $0$ $0$ $1$ Classifi $i$ $0$ $0$ $1$ $0$ $1$ $b'c$ Clas $i*$ $0$ $0$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \hline cation = \\ 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline sification \\ 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \\ \hline on = \mathbb{Z}_M \end{array}$	$ \begin{array}{c c} \hline  \bar{4}_{00\frac{1}{2}}^{001} * \\ \hline  0 \\ \hline  0 \\ \hline  0 \\ \hline  0 \\ \hline  Z_M X \\ \hline  \bar{4}_{00\frac{1}{2}}^{001} * \\ \hline  0 \\ \hline  0 \\ \hline  0 \\ \hline  0 \\ \hline  = \mathbb{Z}_2 \\ \hline  \bar{4}_{00\frac{1}{2}}^{001} \\ \hline  0 \\ \hline  1 \\ \times \mathbb{Z} X \end{array} $	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $1$ $BS = \mathbb{Z}_4  S$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $0$ $0$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $1$ $BS = \mathbb{Z}_{2,4}$	$Cm_{(2)}^{001}$ $2200$ $2200$ $1\overline{100}$ $I = z_{4,135,48}$ $Cm_{(2)}^{001}$ $4\overline{400}$ $0000$ $1\overline{100}$ $2\overline{200}$ $3\overline{300}$ $SI = z_{2,S_4}$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c} 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1\\ 135.487  F \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 0 \\ 1 \\ 0 \\ 1\\ 135.488 \\ 4_{00\frac{1}{2}}^{001} * \\ 0 \\ 1 \\ 0 \\ 1 \\ 89  P4_2/r \end{array} $	$\begin{array}{c} 2\frac{100}{12\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ \hline 24'_2/mbc'\\ 2\frac{1}{2}\frac{1}{2}0\\ 0\\ 0\\ 0\\ \hline 24'_2/m'\\ 0\\ \hline 2\frac{100}{12\frac{1}{2}0}\\ 0\\ 0\\ \hline 0\\ \hline mb'c' \end{array}$	i $0$ $0$ $1$ Classifi $i$ $0$ $0$ $1$ $0$ $1$ $b'c$ Clas $i*$ $0$ $0$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \hline cation = \\ 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline sification \\ 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \\ \hline on = \mathbb{Z}_M \end{array}$	$ \begin{array}{c c} \hline  \bar{4}_{00\frac{1}{2}}^{001} * \\ \hline  0 \\ \hline  0 \\ \hline  0 \\ \hline  0 \\ \hline  Z_M X \\ \hline  \bar{4}_{00\frac{1}{2}}^{001} * \\ \hline  0 \\ \hline  0 \\ \hline  0 \\ \hline  0 \\ \hline  = \mathbb{Z}_2 \\ \hline  \bar{4}_{00\frac{1}{2}}^{001} \\ \hline  0 \\ \hline  1 \\ \times \mathbb{Z} X \end{array} $	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $1$ $BS = \mathbb{Z}_4  S$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $0$ $0$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $1$ $BS = \mathbb{Z}_{2,4}$	$Cm_{(2)}^{001}$ $2200$ $2200$ $1\overline{100}$ $I = z_{4,135,48}$ $Cm_{(2)}^{001}$ $4\overline{400}$ $0000$ $1\overline{100}$ $2\overline{200}$ $3\overline{300}$ $SI = z_{2,S_4}$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (135.4) weak	$\begin{array}{c} 4^{001}_{00\frac{1}{2}}* \\ 0 \\ 0 \\ 1 \\ \hline 135.487  F \\ 4^{001}_{00\frac{1}{2}}* \\ 0 \\ 0 \\ 1 \\ 0 \\ \hline 1 \\ \hline 135.488 \\ 4^{001}_{00\frac{1}{2}}* \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}* \\ 0 \\ 0 \\ 1 \\ \hline 24'_2/mbc' \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \hline 24'_2/m'o \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0} \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \end{array}$	i $0$ $0$ $1$ Classifi $i$ $0$ $0$ $1$ $0$ $1$ $b'c$ Class $i*$ $0$ $0$ assification	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline 0 \\ \hline cation = \\ 2^{\frac{110}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline sification \\ 2^{\frac{110}{2}\frac{1}{2}} \\ 0 \\ 1 \\ \end{array}$	$ \frac{\bar{4}_{00\frac{1}{2}}^{001} *}{0} * 0 $ $ 0 $ $ \frac{\mathbb{Z}_{M}}{\bar{4}_{00\frac{1}{2}}^{001} *} \times 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ = \mathbb{Z}_{2} $ $ \frac{\bar{4}_{00\frac{1}{2}}^{001}}{00\frac{1}{2}} $ $ 0 $ $ 1 $	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $1$ $BS = \mathbb{Z}_4  S$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $0$ $0$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $1$	$Cm_{(2)}^{001}$ $2\overline{200}$ $2\overline{200}$ $1\overline{100}$ $I = z_{4,135.48}$ $Cm_{(2)}^{001}$ $4\overline{400}$ $0000$ $1\overline{100}$ $2\overline{200}$ $3\overline{300}$ $\overline{SI} = z_{2,S_4}$ $\overline{SI} = z_{2m,\pi}$ $Cm_{(4)}^{001}$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 4^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ 1\\ 135.487  I\\ 4^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ 1\\ 1\\ 0\\ 1\\ 135.488\\ 4^{001}_{00\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 89  P4_2/r\\ 4^{001}_{00\frac{1}{2}} \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ \hline 2^{4'_2/mbc'}\\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline 0\\ \hline 2^{4'_2/m'}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ \hline 0\\ \hline 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ \hline 0\\ \hline 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ \hline 0\\ \hline \end{array}$	$\begin{matrix} i \\ 0 \\ 0 \\ 1 \\ \hline Classifi \\ i \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ b'c  Clas \\ i* \\ 0 \\ 0 \\ assification \\ i \end{matrix}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline \\ cation = \\ 2^{\frac{110}{12}\frac{1}{2}*} \\ 0 \\ 0 \\ 1 \\ \hline \\ 0 \\ 1 \\ \hline \\ sification \\ 2^{\frac{110}{12}\frac{1}{2}*} \\ 0 \\ 0 \\ 1 \\ \hline \\ sification \\ 2^{\frac{110}{12}\frac{1}{2}*} \\ 0 \\ 1 \\ \hline \\ con = \mathbb{Z}_M \\ 2^{\frac{110}{12}\frac{1}{2}*} \\ \end{array}$	$\begin{array}{c c} \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline \\ \overline{2_M} & X \\ \hline \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline \\ = \mathbb{Z}_2 \\ \overline{4_{00\frac{1}{2}}^{001}} \\ \hline 0 \\ \hline 1 \\ \hline \times \mathbb{Z} & X \\ \hline 4_{00\frac{1}{2}}^{001} \\ \hline \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} \\ 0 \\ 0 \\ 1 \\ BS = \mathbb{Z}_4 \\ S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{10}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ X_{BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} \\ 0 \\ 1 \\ BS = \mathbb{Z}_{2,4} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} \\ 0 \\ 1 \\ BS = \mathbb{Z}_{2,4} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$Cm_{(2)}^{001}$ $2200$ $2200$ $1\overline{100}$ $I = z_{4,135,48}$ $Cm_{(2)}^{001}$ $4\overline{400}$ $0000$ $1\overline{100}$ $2\overline{200}$ $3\overline{300}$ $SI = z_{2,S_4}$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 4^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ 1\\ \hline 135.487 & \\ 4^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ 1\\ \hline \\ 0\\ 1\\ \hline \\ 135.488\\ 4^{001}_{00\frac{1}{2}}*\\ 0\\ 1\\ \hline \\ 89 & P4_2/r\\ 4^{001}_{00\frac{1}{2}}\\ \hline \\ 2\\ \hline \\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ \hline 24'_2/mbc'\\ 2^{\frac{100}{2}}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ 0\\ \hline 24'_2/m'\\ 2^{\frac{100}{2}}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline 0\\ \hline 2^{\frac{100}{2}}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline 0\\ \end{array}$	$\begin{array}{c} i \\ 0 \\ 0 \\ 1 \\ \hline Classifi \\ i \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ 0 \\ \hline 1 \\ b'c  Clas \\ i* \\ 0 \\ 0 \\ \hline assification \\ i \\ 0 \\ \end{array}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline \\ cation = \\ 2^{\frac{110}{12}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ \hline \\ 0 \\ 1 \\ \hline \\ sification \\ 2^{\frac{110}{12}\frac{1}{2}} \\ 0 \\ 1 \\ \hline \\ on = \mathbb{Z}_M \\ 2^{\frac{110}{12}\frac{1}{2}} \\ 0 \\ \end{array}$	$\begin{array}{c c} \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline \\ \overline{2_M} & X \\ \hline \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline \\ 0 \\ \hline \\ \hline 2_2 \\ \overline{4_{00\frac{1}{2}}^{001}} \\ \hline 0 \\ \hline \\ 0 \\ \hline \\ \hline \\ 0 \\ \hline \\ X \\ \overline{4_{00\frac{1}{2}}^{001}} \\ \hline \\ 0 \\ \hline \\ 0 \\ \hline \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $1$ $BS = \mathbb{Z}_4  S$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $0$ $0$ $0$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $1$ $BS = \mathbb{Z}_{2,4}$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$	$Cm_{(2)}^{001}$ $2\overline{200}$ $2\overline{200}$ $1\overline{100}$ $I = z_{4,135.44}$ $Cm_{(2)}^{001}$ $4\overline{400}$ $0000$ $1\overline{100}$ $2\overline{200}$ $3\overline{300}$ $SI = z_{2,S_4}$ $SI = z_{2m,\pi}$ $Cm_{(4)}^{001}$ $0422$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) 135.4 weak (004) (000)	$\begin{array}{c} 4^{001}_{00\frac{1}{2}}*\\ \hline 0\\ 0\\ 1\\ \hline 135.487 & \\ A^{001}_{00\frac{1}{2}}*\\ \hline 0\\ 0\\ 1\\ \hline \\ 0\\ 1\\ \hline \\ 135.488\\ \hline 4^{001}_{00\frac{1}{2}}*\\ \hline 0\\ 1\\ \hline \\ 89 & \\ P4_2/r\\ \hline 4^{001}_{00\frac{1}{2}}\\ \hline \\ \hline \\ 2\\ \hline \\ 0\\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ \hline \\ 2^{4'_2/mbc'}\\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline \\ 0\\ \hline \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ \hline \\ 0\\ \hline \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ \hline \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline \\ 0\\ \end{array}$	$\begin{matrix} i \\ 0 \\ 0 \\ 1 \\ \hline Classifi \\ i \\ 0 \\ 0 \\ \hline 1 \\ 0 \\ 1 \\ b'c  Clas \\ i* \\ 0 \\ 0 \\ \hline assification \\ i \\ 0 \\ 0 \\ \hline \end{matrix}$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \hline cation = \\ 2^{\frac{110}{12}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline sification \\ 2^{\frac{110}{12}\frac{1}{2}} \\ 0 \\ 1 \\ \hline on = \mathbb{Z}_M \\ 2^{\frac{110}{12}\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c c} \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline \\ \overline{2_{M}} & X \\ \hline 4_{00\frac{1}{2}}^{001} * \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline \\ = \mathbb{Z}_{2} \\ \hline 4_{00\frac{1}{2}}^{001} \\ \hline 0 \\ \hline 1 \\ \hline \times \mathbb{Z} & X \\ \hline 4_{00\frac{1}{2}}^{001} \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $1$ $BS = \mathbb{Z}_4  S$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $0$ $0$ $0$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $1$ $BS = \mathbb{Z}_{2,4}$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$	$Cm_{(2)}^{001}$ $2\overline{200}$ $2\overline{200}$ $1\overline{100}$ $I = z_{4,135.44}$ $Cm_{(2)}^{001}$ $4\overline{400}$ $0000$ $1\overline{100}$ $2\overline{200}$ $3\overline{300}$ $\overline{SI} = z_{2,s_4}$ $SI = z_{2m,\pi}$ $Cm_{(4)}^{001}$ $0422$ $4\overline{400}$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \\ 00 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 4^{001}_{00\frac{1}{2}}*\\ \hline 0\\ 0\\ 1\\ \hline 135.487 & \\ \\ 4^{001}_{00\frac{1}{2}}*\\ \hline 0\\ 0\\ \hline \\ 1\\ \hline \\ 135.488\\ 4^{001}_{00\frac{1}{2}}*\\ \hline 0\\ \\ 1\\ \hline \\ 2\\ \hline \\ 0\\ \\ 4^{001}_{00\frac{1}{2}}\\ \hline \\ 2\\ \hline \\ 0\\ \\ 0\\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ \hline 2^{4'_2/mbc'}\\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline 0\\ \hline 2^{4'_2/m'c}\\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline 0\\ 0\\ \end{array}$	i $0$ $0$ $1$ Classifi $i$ $0$ $0$ $1$ $0$ $1$ $b'c$ Clas $i*$ $0$ $0$ assification $i$ $0$ $0$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}_{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \hline cation = \\ 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline sification \\ 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \\ \hline on = \mathbb{Z}_M \\ 2^{110}_{\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c c} \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \\ \overline{Z_M} & X \\ \hline 4_{00\frac{1}{2}}^{001} * \\ \hline 0 \\ \hline 0 \\ \hline \\ 0 \\ \hline \\ \hline = Z_2 \\ \hline 4_{00\frac{1}{2}}^{001} \\ \hline 0 \\ \hline \\ \hline X & X \\ \hline 4_{00\frac{1}{2}}^{001} \\ \hline \\ 0 \\ \hline \\ 0 \\ \hline \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $1$ $BS = \mathbb{Z}_4  S$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $0$ $0$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $1$ $BS = \mathbb{Z}_{2,4}$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $0$	$Cm_{(2)}^{001}$ $2\overline{200}$ $2\overline{200}$ $1\overline{100}$ $I = z_{4,135.48}$ $Cm_{(2)}^{001}$ $4\overline{400}$ $0000$ $1\overline{100}$ $2\overline{200}$ $3\overline{300}$ $SI = z_{2,S_4}$ $SI = z_{2m,\pi}$ $Cm_{(4)}^{001}$ $0422$ $4\overline{400}$ $0000$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \\ 01 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 4^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ 1\\ 135.487  I\\ 4^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ 1\\ 1\\ 35.488\\ 4^{001}_{00\frac{1}{2}}*\\ 0\\ 1\\ 1\\ 89  P4_2/r\\ 4^{001}_{00\frac{1}{2}}\\ 2\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ \hline \\ 2^{4'_2/mbc'}\\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline \\ 0\\ \hline \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline \\ 0\\ \hline \\ 0\\ 0\\ \end{array}$	i $0$ $0$ $1$ $Classifi$ $i$ $0$ $0$ $1$ $0$ $1$ $b'c  Clas$ $i*$ $0$ $0$ $assification$ $i$ $0$ $0$ $1$	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}_{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \hline cation = \\ 2^{110}_{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline sification \\ 2^{110}_{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 1 \\ \hline on = \mathbb{Z}_M \\ 2^{110}_{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c c} \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \\ Z_M & X \\ \hline 4_{00\frac{1}{2}}^{00} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \\ = Z_2 \\ \hline 4_{00\frac{1}{2}}^{001} \\ \hline 0 \\ \hline \\ X & \overline{4_{00\frac{1}{2}}^{001}} \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $1$ $BS = \mathbb{Z}_4  S$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $0$ $0$ $X_{BS} = \mathbb{Z}_2$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $1$ $BS = \mathbb{Z}_{2,4}$ $g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} = 0$ $0$ $0$ $0$	$Cm_{(2)}^{001}$ $2200$ $2200$ $1\overline{100}$ $I = z_{4,135,48}$ $Cm_{(2)}^{001}$ $4\overline{400}$ $0000$ $1\overline{100}$ $2\overline{200}$ $3\overline{300}$ $SI = z_{2,S_4}$ $SI = z_{2m,\pi}$ $Cm_{(4)}^{001}$ $0422$ $4\overline{400}$ $0000$ $1\overline{100}$	
$ \begin{array}{c c} \hline 0 \\ 0 \\ \hline 1 \\ \hline                              $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 4^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ 1\\ \hline 135.487  F\\ 4^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ \hline 1\\ \hline 135.488\\ 4^{001}_{00\frac{1}{2}}*\\ 0\\ \hline 1\\ \hline 89  P4_2/r\\ 4^{001}_{00\frac{1}{2}}\\ \hline 2\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ \hline \\ 2^{4'_2/mbc'}\\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ 0\\ \hline \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline \\ 0\\ 0\\ \end{array}$	i 0 0 1 Classifi i 0 0 1 0 1 0 1 0 1 si* 0 0 assification i 0 0 1 1 0 1 1 1	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \hline cation = \\ 2^{\frac{110}{1}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline sification \\ 2^{\frac{110}{1}\frac{1}{2}} * \\ 0 \\ 1 \\ \hline on = \mathbb{Z}_M \\ 2^{\frac{110}{1}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ \end{array}$	$\begin{array}{c c} \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \\ \hline 2_M & X \\ \hline 4_{00\frac{1}{2}}^{001} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \\ = \mathbb{Z}_2 \\ \hline 4_{00\frac{1}{2}}^{001} \\ \hline 0 \\ \hline 1 \\ \hline \times \mathbb{Z} & X \\ \hline 4_{00\frac{1}{2}}^{001} \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} \\ 0 \\ 0 \\ 1 \\ BS = \mathbb{Z}_4 \\ S \\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{1}}{0} \\ 0 \\ 0 \\ 0 \\ X_{BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} \\ 0 \\ 1 \\ BS = \mathbb{Z}_{2,4} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{110}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline I = z_{4,135,48} \\ \hline Cm_{(2)}^{001} \\ \hline 4\overline{4}00 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline SI = z_{2,S_4} \\ \hline \\ \hline SI = z_{2m,\pi}^+ \\ \hline Cm_{(4)}^{001} \\ \hline 0422 \\ \hline 4\overline{4}00 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 0211 \\ \hline \end{array}$	
$ \begin{array}{c c} \hline 0 \\ 0 \\ \hline 1 \\ \hline                              $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 4^{001}_{00\frac{1}{2}}*\\ \hline 0\\ 0\\ \hline 1\\ \hline 135.487  F\\ \hline 4^{001}_{00\frac{1}{2}}*\\ \hline 0\\ \hline 1\\ \hline 135.488\\ \hline 4^{001}_{00\frac{1}{2}}*\\ \hline 0\\ \hline 1\\ \hline 135.488\\ \hline 4^{001}_{00\frac{1}{2}}*\\ \hline 0\\ \hline $	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ \hline \\ 2^{4'_2/mbc'}\\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline \\ 0\\ \hline \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ \hline \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ \hline \\ 0\\ \hline \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ \hline \\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ \end{array}$	i 0 0 1 Classifi i 0 0 1 0 1 0 1 0 assificatio i 0 0 1 1 0 1 0 1 0 1 0 1 0 1 0 0 1	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline 0 \\ 0 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ 1 \\ \hline 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	$\begin{array}{c c} \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \\ \hline 0 \\ \hline \\ \hline 0 \\ \hline \\ \hline$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ BS = \mathbb{Z}_4 \\ S_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ X_{BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 1 \\ BS = \mathbb{Z}_{2,4} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}} \\ 2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ \hline 1 \\ \hline \end{array}$	$\begin{array}{c} Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline I = z_{4,135,48} \\ \hline Cm_{(2)}^{001} \\ \hline 4\overline{4}00 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline SI = z_{2,S_4} \\ \hline \hline SI = z_{2,m,\pi}^+ \\ \hline Cm_{(4)}^{001} \\ \hline 0422 \\ \hline 4\overline{4}00 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 0211 \\ \hline 1111 \\ \hline \end{array}$	
$ \begin{array}{c c} 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 4^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ 1\\ \hline 135.487  I\\ \hline 4^{001}_{00\frac{1}{2}}*\\ 0\\ 0\\ \hline 1\\ \hline 135.488\\ 4^{001}_{00\frac{1}{2}}*\\ 0\\ \hline 1\\ \hline 89  P4_2/r\\ \hline 4^{001}_{00\frac{1}{2}}\\ \hline 2\\ 0\\ 0\\ 0\\ \hline 0\\ 0\\ \hline \end{array}$	$\begin{array}{c} 2^{100}_{\frac{1}{2}\frac{1}{2}0}*\\ 0\\ 0\\ 1\\ \hline \\ 2^{4'_2/mbc'}\\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ 0\\ \hline \\ 0\\ \hline \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ \hline \\ 0\\ \hline \\ 2^{100}_{\frac{1}{2}\frac{1}{2}0}\\ 0\\ \hline \\ 0\\ \hline \\ 0\\ \hline \\ 0\\ 0\\ \hline \\ 1\\ 1\\ \end{array}$	i 0 0 1 Classifi i 0 0 1 0 1 0 1 0 1 si* 0 0 assification i 0 0 1 1 0 1 1 1	$\begin{array}{c} 2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \text{cation} = \\ 2^{\frac{110}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \text{sification} \\ 2^{\frac{110}{2}\frac{1}{2}} \\ 0 \\ 1 \\ \hline 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c c} \overline{4_{00\frac{1}{2}}^{001}} * \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \\ \hline 0 \\ \hline \\ \hline 0 \\ \hline \\ \hline$	$\begin{array}{c} g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ BS = \mathbb{Z}_4 \\ S_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ X_{BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}\frac{1}{2}} \\ 0 \\ 1 \\ BS = \mathbb{Z}_{2,4} \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{\frac{1}{2}} \\ 2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ -$	$\begin{array}{c} Cm_{(2)}^{001} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline I = z_{4,135,48} \\ \hline Cm_{(2)}^{001} \\ \hline 4\overline{4}00 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline SI = z_{2,S_4} \\ \hline \\ \hline SI = z_{2m,\pi}^+ \\ \hline Cm_{(4)}^{001} \\ \hline 0422 \\ \hline 4\overline{4}00 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 0211 \\ \hline \end{array}$	

13	$(00\bar{2})$	$\overline{1}$	0	0	1	1	$\overline{1}$	3111	
	( )	135.490	$P4_2'/m'b$	c' Class	sification	$= \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$		
$\mathbb{Z}_2$	weak	$4_{00\frac{1}{2}}^{001}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}0}*$	<i>i</i> *	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\bar{4}_{00\frac{1}{2}}^{001}$	$\frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}*}$		
0	(000)	$00_{\overline{2}}$	$\frac{\overline{2}  \overline{2}^{0}}{0}$	0	$\frac{\overline{2}\ \overline{2}\ \overline{2}}{0}$	$00\frac{1}{2}$	$0^{\frac{\overline{2}}{2}\overline{2}\overline{2}}$		
1	(000)	1	1	0	0	1	0		
		135.492	$P_c4_2/mb$	c Classi	fication =	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_4$	$SI = z_{4m,0}^+$	
$\mathbb{Z}_4$	weak	$\{1 00\frac{1}{2}\}*$		$2^{100}_{\frac{1}{2}\frac{1}{2}0}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}*$	$g_{\frac{1}{2}\frac{1}{2}0}^{110}*$	$Cm_{(4)}^{001}$
0	(000)	0	0	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	0	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	0	$\frac{3\frac{1}{2}\frac{1}{2}0}{0}$	$4\overline{400}$
0	(000)	0	0	0	0	0	0	0	0000
1	(000)	1	1	0	1	1	0	0	$1\overline{1}00$
2	(000)	0	0	0	0	0	0	0	$2\overline{2}00$
3	(000)	1	1	0	1	1	0	0	$3\overline{3}00$
		135.493	$P_C4_2/mb$		ification =		$X_{BS} = \mathbb{Z}_4$	$SI = z_{4m,0}^+$	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{001}_{\frac{1}{2},\frac{1}{2},\frac{1}{2}}*$	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	i	$2^{010}*$	$\bar{4}^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$m_{100}*$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	0	$4\overline{4}00$
0	(000)	0	0	0	0	0	0	0	0000
1	(000)	1	1	0	1	1	0	0	$1\overline{1}00$
2	(000)	0	0	0	0	0	0	0	$\frac{2\overline{2}00}{2\overline{2}00}$
3	(000)	1	1	0	1	1	0	0	3300
		135.494	$\frac{P_{I}4_{2}/mb_{I}}{4001}$		ification =	$= \mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_4$	$SI = z_{4m,0}^+$	a 001
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}$ *		$2^{100}_{00\frac{1}{2}}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{001}_{rac{1}{2}rac{1}{2}0}*$	$g_{rac{1}{2}rac{1}{2}rac{1}{2}}^{110}$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	0	$4\overline{4}00$
0	(000)	0	0	0	0	0	0	0	0000
$\frac{1}{2}$	(000)	0	0	0	0	0	0	$\frac{1}{0}$	$\frac{1\overline{1}00}{2\overline{2}00}$
$\frac{2}{3}$	(000)	1	1	1	1	0	0	1	$\frac{2200}{3\overline{3}00}$
	(000)	136.495	$P4_2/mn$		sification		$X_{BS} = \mathbb{Z}_4$		
$\mathbb{Z}_4$	weak	$\frac{4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}}{4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}}$	$\frac{2^{100}}{2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$\frac{m}{i}$	$2^{110}$	$\frac{- \omega_M}{\bar{4}^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$R_{\rm BS} = \mathbb{Z}_4$ $Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$	
0	(000)	$\frac{\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}$	$\frac{-\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}$	0	0	$\frac{\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}$	$\frac{3m(2)}{4\overline{4}}$	$\frac{4\overline{400}}{4\overline{400}}$	
$\frac{0}{0}$	(000)	0	0	0	0	0	$\frac{1}{2\overline{2}}$	0000	
0	(000)	0	0	0	0	0	$\frac{\overline{2}}{2}$	0000	
3	(000)	0	0	1	0	1	$1\overline{1}$	$1\overline{1}00$	
2	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}00$	
1	(000)	0	0	1	0	1	$3\overline{3}$	$3\overline{3}00$	
		136.498	$P4_2'/mn'$	m Clas	sification	$=\mathbb{Z}_{M}^{2}$	$X_{\mathrm{BS}} = \mathbb{Z}_4$	$SI = z'_{4P}$	
$\mathbb{Z}_4$	weak	$4^{001}_{rac{1}{2}rac{1}{2}rac{1}{2}}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	i	$2^{110}$	$\bar{4}^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$Cm_{(2)}^{110}$	$Cm_{(2)}^{001}$	
0	(000)	0	0	0	0	0	$4\overline{4}$	$4\overline{4}00$	
0	(000)	0	0	0	0	0	$2\overline{2}$	0000	
0	(000)	0	0	0	0	0	$\frac{\overline{2}2}{1\overline{1}}$	0000	
$\frac{3}{2}$	(000)	$\frac{1}{0}$	1	$\frac{1}{0}$	0	0	$\frac{1\overline{1}}{2\overline{2}}$	$1\overline{1}00$	
$\frac{2}{1}$	(000)	$\frac{0}{1}$	0	1	0	0	$\frac{22}{3\overline{3}}$	$\frac{2\overline{2}00}{3\overline{3}00}$	
1	1 (000)	136.499			sification				
$\mathbb{Z}_2$	weak	$\frac{130.499}{4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{001}}*$	$\frac{P4_2'/mn}{2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100}}$	$\frac{m}{i}$ Clas	$\frac{2^{110}*}{}$	$= \angle M$ $\overline{4^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}} *$	$\frac{X_{BS} = \mathbb{Z}_2}{m_{1\bar{1}0}*}$	$\frac{SI = z'_{2P}}{Cm_{(2)}^{001}}$	
				0			$\frac{m_{110}*}{0}$		
0	(000)	0	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$	
1	(000)	1	0	1	1	0	0	$\frac{2200}{1\overline{1}00}$	
	/		$P4_2'/m'n'$		sification		$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} *$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\frac{ni}{i*}$	2 <sup>110</sup> *	$\frac{-2M}{4001}$	$\frac{R_{\rm BS} - 22}{Cm_{(0)}^{110}}$	<i>≈</i> 1 - <i>≈</i> 2,54	:
0	(000)	$\frac{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}$	$\frac{\frac{2\frac{1}{2}\frac{1}{2}\frac{1}{2}}{2}}{0}$	0	0	$\frac{\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}$	$\frac{\overline{22}}{2}$		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$		
1	(000)	1	0	0	1	1	$\frac{22}{1\overline{1}}$		
	136.50	$\frac{1}{P_{4_2}/n}$	n'm' C	lassificati	$on = \mathbb{Z}_M$	× Z .	$X_{\mathrm{BS}} = \mathbb{Z}_{2,4}$	$SI = z_{2m,\pi}^+$	, z <sup>+</sup>
$\mathbb{Z}_{2,4}$	weak	$\frac{4^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{4^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$\frac{i}{i}$	$\frac{1001 - 20M}{2^{110}}$ *	$\frac{7001}{4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$\frac{r_{\rm BS} - z_{2,4}}{m_{1\bar{1}0}*}$	$\frac{S1 - z_{2m,\pi}}{Cm_{(4)}^{001}}$	
_,=	1	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	$\bar{2}$ $\bar{2}$ $\bar{2}$	-		$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	110	(4)	

00	(004)	2	0	0	0	0	0	0422		
$\frac{00}{00}$	(004)	0	0	0	0	0	0	$\frac{0422}{4\overline{4}00}$		
00	(000)	0	0	0	0	0	0	0000		
01	(000)	0	1	1	1	1	0	$\frac{1100}{1}$		
02	(000)	0	0	0	0	0	0	$2\overline{2}00$		
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	$3\overline{1}11$		
		136.502	$P4_2'/m'nm$	' Cla	ssification	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	i*	$2^{110}$	$\bar{4}^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$m_{1\bar{1}0}*$			
0	(000)	0	0	0	0	0	0			
1	(000)	1	1	0	0	1	0			
		136.504	$P_c4_2/mnn$	ı Cla	ssification	$=\mathbb{Z}_{M}^{2}$	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$		
$\mathbb{Z}_4$	weak			$\frac{100}{\frac{1}{2}\frac{1}{2}0}*$	i	$2_{000}^{110}$	$\bar{4}^{001}_{\frac{1}{2}\frac{1}{2}0}*$	$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$	
0	(000)	0	0	0	0	0	$\frac{\bar{2}  \bar{2}^{0}}{0}$	$\frac{4\overline{4}}{4\overline{4}}$	$4\overline{400}$	
0	(000)	0	0	0	0	0	0	$\frac{11}{2\overline{2}}$	0000	
0	(000)	0	0	0	0	0	0	$\frac{22}{22}$	0000	
$\frac{3}{3}$	(000)	1	1	1	1	0	0	$\frac{22}{11}$	$1\overline{1}00$	
$\frac{3}{2}$	(000)	0	0	0	0	0	0	$\frac{11}{2\overline{2}}$	$\frac{2\overline{2}00}{2}$	
1	(000)	1	1	1	1	0	0	33	3300	
	()	136.505	$P_C4_2/mnn$	2 Cla	esification		$X_{BS} = \mathbb{Z}_4$			
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$		$\frac{110}{\frac{1}{2}\frac{1}{2}0}$ *	$\frac{i}{i}$	$\frac{-2I_{M}}{2_{00\frac{1}{2}}^{010}}*$	$\frac{\overline{4^{001}}}{\overline{4^{1}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}}$	$g_{00\frac{1}{2}}^{100}*$	$Cm^{001}$	$Cm_{(2)}^{1\bar{1}0}$
0	(000)	0	0	0	0	0	0	0	4400	$\frac{4\overline{4}}{\overline{2}2}$
0	(000)		0	0	0	0	0	0	0000	
$\frac{0}{3}$	(000)	0	0	1	0	0	0	0	1100	$\frac{2\overline{2}}{1\overline{1}}$
$\frac{3}{2}$	(000)		0		1	1	1	0	$\frac{1\overline{100}}{2\overline{200}}$	$\frac{1\overline{1}}{2\overline{2}}$
$\frac{2}{1}$	(000)	0	0	0	0	$\frac{0}{1}$	0	0	$\frac{2200}{3\overline{3}00}$	$\frac{22}{3\overline{3}}$
	(000)								3300	
	1	136.506	$\frac{P_{I}4_{2}/mnm}{4^{001}*}$	$\frac{i}{2^{100}}*$	ssification	$\frac{=\mathbb{Z}_{M}^{2}}{2^{110}}$	$X_{BS} = \mathbb{Z}_4$ $\bar{4}^{001} *$	$SI = z'_{4P}$	α 1 <u>1</u> 0	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$			i	_		$Cm_{(4)}^{001}$	$Cm_{(2)}^{1\bar{1}0}$	
0	(000)	0	0	0	0	0				
0					0		0	4400	$\frac{44}{20}$	
_	(000)	0	0	0	0	0	0	0000	$\overline{2}2$	
0	(000)	0	0	0	0	0	0	0000 0000	$\frac{\overline{2}2}{2\overline{2}}$	
3	(000)	0 0 1	0 0 1	0	0	0 0 0	0 0	0000 0000 1100	$   \begin{array}{r}       \overline{22} \\       2\overline{2} \\       \hline       1\overline{1}   \end{array} $	
3 2	(000) (000) (000)	0 0 1 0	0 0 1 0	0 1 0	0 1 0	0 0 0 0	0 0 0 0	$   \begin{array}{r}     0000 \\     \hline     0000 \\     \hline     1\overline{1}00 \\     \hline     2\overline{2}00   \end{array} $	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
3	(000)	0 0 1 0 1	0 0 1 0 1	0 1 0 1	0 1 0 1	0 0 0 0	0 0 0 0	$   \begin{array}{r}     0000 \\     0000 \\     1\overline{1}00 \\     2\overline{2}00 \\     3\overline{3}00   \end{array} $	$   \begin{array}{r}       \overline{22} \\       2\overline{2} \\       \hline       1\overline{1}   \end{array} $	
3 2 1	(000) (000) (000) (000)	0 0 1 0 1 137.507	$0 \\ 0 \\ 1 \\ 0 \\ 1$	0 1 0 1 Clas	0 1 0 1 sification =	0 0 0 0 0	$0 \\ 0 \\ 0 \\ 0 \\ 0$ $X_{BS} = \mathbb{Z}_2$	$0000$ $0000$ $1\overline{1}00$ $2\overline{2}00$ $3\overline{3}00$ $\overline{SI} = z'_{2P}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
3 2	(000) (000) (000) (000) (weak	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 137.507 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \end{matrix}$	0 0 1 0 1	0 1 0 1	0 1 0 1	0 0 0 0	0 0 0 0	$\begin{array}{c} 0000 \\ 0000 \\ \hline 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \text{SI} = z'_{2P} \\ Cm_{(2)}^{100} \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	(000) (000) (000) (000) (000) weak (000)	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1 \\ 37.507 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ \end{matrix}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{matrix}$ $\begin{matrix} 1 \\ 42/nmc \\ 2\frac{100}{200} \\ 0 \end{matrix}$	0 1 0 1 Class i	$ \begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ \hline sification = \\ 2\frac{1}{2} \frac{1}{2} \frac{1}{2} \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 4 \frac{3001}{\frac{1}{2}0\frac{1}{2}} \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ X_{BS} = \mathbb{Z}_2 \\ g_{00\frac{1}{2}}^{110} \\ 0 \end{array} $	$\begin{array}{c} 0000 \\ 0000 \\ \hline 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \text{SI} = z'_{2P} \\ Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline  & \\ \hline  & \\  & \\ \hline  & \\  & \\  & \\  $	(000) (000) (000) (000) (000) weak (000) (000)	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 137.507 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \end{matrix}$	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 0 \\ 2\frac{1}{2}00 \\ 0 \\ 0 \\ \end{array}$	0 1 0 1 Class i 0	$ \begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ sification = \\ 2\frac{1}{2}\frac{1}{2}\frac{1}{2}\\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline = \mathbb{Z}_M \\ \overline{4}_{\frac{1}{2}0\frac{1}{2}}^{001} \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ X_{BS} = \mathbb{Z}_2 \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0000 \\ 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline SI = z'_{2P} \\ Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	(000) (000) (000) (000) (000) weak (000)	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 137.507 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{matrix}$ $\begin{matrix} 1 \\ P4_2/nmc \\ 2\frac{1}{2}00 \\ 0 \\ 0 \end{matrix}$	0 1 0 1 Class i 0 0	$ \begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \end{array} $ sification = $ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_{M}$ $\frac{\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}}{0}$ $0$ $1$	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ X_{BS} = \mathbb{Z}_2 $ $ g_{000\frac{1}{2}}^{110} $ $ 0 $ $ 0 $ $ 1 $	$\begin{array}{c} 0000 \\ 0000 \\ \hline 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \text{SI} = z'_{2P} \\ Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline  & \\ \hline  & \\  & \\  & \\  & \\  & \\  & $	(000) (000) (000) (000) (000) weak (000) (000)	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 137.507 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 137.510 \end{matrix}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{matrix}$ $\begin{matrix} 1 \\ P4_2/nmc \\ 2\frac{100}{200} \\ 0 \\ 0 \\ 0 \end{matrix}$	0 1 0 1 Class i 0 0	$0$ $1$ $0$ $1$ sification = $2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$ $0$ $0$ ssification	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline 4 \frac{101}{201} \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ X_{BS} = \mathbb{Z}_2 \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 1 \\ \end{array}$ $X_{BS} = \mathbb{Z}_2$	$\begin{array}{c} 0000 \\ 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline SI = z'_{2P} \\ Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline  & \\ \hline  & \\  & \\ \hline  & \\  & \\  & \\  $	(000) (000) (000) (000) (000) weak (000) (000)	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 137.507 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ \end{array}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{matrix}$ $\begin{matrix} 1 \\ P4_2/nmc \\ 2\frac{1}{2}00 \\ 0 \\ 0 \end{matrix}$	0 1 0 1 Class i 0 0	$0$ $1$ $0$ $1$ sification = $2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$ $0$ $0$ ssification	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline 4 \frac{101}{201} \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ X_{BS} = \mathbb{Z}_2 $ $ g_{000\frac{1}{2}}^{110} $ $ 0 $ $ 0 $ $ 1 $	$\begin{array}{c} 0000 \\ 0000 \\ \hline 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \text{SI} = z'_{2P} \\ Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline  & \\ \hline  & \\  & \\  & \\  & \\  & \\  & $	(000) (000) (000) (000) (000) (000) (000)	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 137.507 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 137.510 \end{matrix}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{matrix}$ $\begin{matrix} 1 \\ P4_2/nmc \\ 2\frac{100}{200} \\ 0 \\ 0 \\ 0 \end{matrix}$	0 1 0 1 Class i 0 0 1	$ \begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \end{array} $ sification = $ \begin{array}{c} 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_{M}$ $\frac{\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}}{0}$ $0$ $1$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ X_{BS} = \mathbb{Z}_2 \\ g_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ 1 \\ \end{array}$ $X_{BS} = \mathbb{Z}_2$	$\begin{array}{c} 0000 \\ 0000 \\ \hline 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \text{SI} = z'_{2P} \\ Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3\\2\\1\\ \hline \mathbb{Z}_2\\0\\0\\1\\ \hline \mathbb{Z}_2 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000)	$\begin{matrix} 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 137.507 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 137.510 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} * \end{matrix}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{matrix}$ $\begin{matrix} P4_2/nmc \\ 2\frac{100}{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \end{matrix}$ $\begin{matrix} 0 \\ 0 \\ 0 \\ \end{matrix}$ $\begin{matrix} 2^{100}_{\frac{1}{2}00} * \end{matrix}$	0 1 0 1 Clas i 0 0 1 c Clas	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ \text{sification} =\\ 2\frac{1}{2}\frac{1}{2}\frac{1}{2}\\ 0\\ 0\\ 0\\ \text{ssification} \\ 2\frac{1}{2}\frac{1}{2}\frac{1}{2}\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_{M}$ $\frac{\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{101}}{0}$ $0$ $1$ $= \mathbb{Z}_{2}$ $\frac{\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{101}}{1}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110}$	$\begin{array}{c} 0000 \\ 0000 \\ \hline 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \text{SI} = z'_{2P} \\ Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) weak (000)	$\begin{matrix} 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 137.507 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 137.510 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ \end{matrix}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline P4_2/nmc \\ 2\frac{100}{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline P4'_2/nm'c \\ 0 \\ 1 \\ \hline P4'_2/nmc' \end{matrix}$	0 1 0 1 Class i 0 0 1 c Clas i	$\begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ \hline \\ sification = \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline \\ 0 \\ ssification \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \\ ssification = \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $= \mathbb{Z}_{M}$ $\overline{4}_{\frac{101}{2}0\frac{1}{2}}^{101}$ $0\\ 1\\ = \mathbb{Z}_{2}$ $\overline{4}_{\frac{1}{2}0\frac{1}{2}}^{101}$ $0$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110} \\ 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 0000 \\ 0000 \\ \hline 1\overline{1}00 \\ 2\overline{2}00 \\ \overline{3}\overline{3}00 \\ \hline \text{SI} = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \overline{2}\overline{2}00 \\ \overline{2}\overline{2}00 \\ \overline{1}\overline{1}00 \\ \hline \text{SI} = z'_{2P} \\ \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) weak (000)	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 137.507 \\ 4\frac{401}{2}0\frac{1}{2} \\ 0 \\ 0 \\ 0 \\ \hline 137.510 \\ 4\frac{401}{2}0\frac{1}{2} \\ 0 \\ 0 \\ \hline 137.511 \\ \end{matrix}$	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline P4_2/nmc \\ 2\frac{100}{\frac{1}{2}00} \\ 0 \\ 0 \\ 0 \\ \hline P4'_2/nm'c \\ 0 \\ 1 \\ \hline P4'_2/nmc' \end{matrix}$	0 1 0 1 Class i 0 0 1 c Clas i	$\begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ \hline \\ sification = \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline \\ 0 \\ ssification \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \\ ssification = \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} \frac{\mathbb{Z}_{M}}{\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{101}}\\ 0\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} \mathbb{Z}_{2}\\ \overline{4}_{\frac{1}{2}0\frac{1}{2}}^{101}\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} \mathbb{Z}_{2}\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 0\\ 1\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ \end{array}$	$\begin{array}{c} 0000 \\ 0000 \\ \hline 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \text{SI} = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \text{SI} = z'_{2P} \\ \hline \\ \text{SI} = z'_{2P} \\ \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{matrix} 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 137.507 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 137.510 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 1 \\ 137.511 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} * \end{matrix}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ P4_2/nmc\\ 2\frac{100}{\frac{1}{2}00}\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 2\frac{1}{2}00\\ \end{array}$ $\begin{array}{c} 0\\ 1\\ \end{array}$ $\begin{array}{c} P4_2'/nmc'\\ 2\frac{1}{2}00\\ \end{array}$	0 1 0 1 Class i 0 0 1 c Clas i 0 1 c Clas	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ sification = $\frac{2_{12}^{110}}{2_{22}^{12}} \frac{1}{2}\\ 0\\ 0\\ 0\\ \end{array}$ ssification = $\frac{2_{12}^{110}}{2_{22}^{12}} \frac{1}{2} \times \frac{1}{2}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_{M}$ $\frac{\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{101}}{0}$ $0 \\ 1 \\ = \mathbb{Z}_{2}$ $\frac{\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{101}}{0}$ $0 \\ = \mathbb{Z}_{M}$ $\bar{4}_{\frac{1}{2}0\frac{1}{2}\frac{1}{2}}^{001}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110}$ $X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110} *$	$\begin{array}{c} 0000 \\ 0000 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{matrix} 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 137.507 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 137.510 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 1 \\ 137.511 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline P4_2/nmc \\ 2\frac{100}{\frac{1}{2}00} \\ 0 \\ 0 \\ \hline 0 \\ \hline 2\frac{1}{\frac{1}{2}00}* \\ 0 \\ 1 \\ \hline P4_2'/nmc' \\ 2\frac{1}{\frac{1}{2}00} \\ 0 \\ 0 \\ \end{array}$	0 1 0 1 Class i 0 0 1 c Class i 0 1 Class i 0 0 1 c Class i	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ \\\hline 0\\ 1\\ \\\hline sification =\\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ \\\hline 0\\ \\\hline ssification\\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ \\\hline 0\\ \\\hline ssification =\\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ \\\hline \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} \frac{\mathbb{Z}_{M}}{\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{1}}\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 1\\ \end{array}$ $\begin{array}{c} \mathbb{Z}_{2}\\ \overline{4}_{\frac{1}{2}0\frac{1}{2}}^{1}*\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \end{array}$ $\begin{array}{c} \mathbb{Z}_{M}\\ \overline{4}_{\frac{1}{2}0\frac{1}{2}}^{1}*\\ \end{array}$ $\begin{array}{c} 0\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $X_{BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110} \\ 0 \\ 1 \\ X_{BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110} \\ 0 \\ 1 \\ \end{array}$ $X_{BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110} \\ 0 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 0000 \\ 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{matrix} 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 137.507 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} \\ 0 \\ 0 \\ 0 \\ 137.510 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} * \\ 0 \\ 1 \\ 137.511 \\ 4^{001}_{\frac{1}{2}0\frac{1}{2}} * \end{matrix}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ $\begin{array}{c} 1\\ P4_2/nmc\\ 2\frac{100}{\frac{1}{2}00}\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ 2\frac{1}{2}00\\ \end{array}$ $\begin{array}{c} 0\\ 1\\ \end{array}$ $\begin{array}{c} P4_2'/nmc'\\ 2\frac{1}{2}00\\ \end{array}$	0 1 0 1 Class i 0 0 1 c Clas i 0 1 c Clas	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \end{array}$ sification = $\frac{2_{12}^{110}}{2_{22}^{12}} \frac{1}{2}\\ 0\\ 0\\ 0\\ \end{array}$ ssification = $\frac{2_{12}^{110}}{2_{22}^{12}} \frac{1}{2} \times \frac{1}{2}$	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ $= \mathbb{Z}_{M}$ $\frac{\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{101}}{0}$ $0 \\ 1 \\ = \mathbb{Z}_{2}$ $\frac{\bar{4}_{\frac{1}{2}0\frac{1}{2}}^{101}}{0}$ $0 \\ = \mathbb{Z}_{M}$ $\bar{4}_{\frac{1}{2}0\frac{1}{2}\frac{1}{2}}^{001}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110}$ $X_{\rm BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110} *$	$\begin{array}{c} 0000 \\ 0000 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 137.507 \\ 4\frac{401}{2}0\frac{1}{2} \\ 0 \\ 0 \\ 0 \\ \hline 137.510 \\ 4\frac{401}{2}0\frac{1}{2} \\ 0 \\ 1 \\ \hline 137.511 \\ 4\frac{401}{2}0\frac{1}{2} \\ 0 \\ 0 \\ 1 \\ \end{matrix}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \hline 0\\ 1\\ \hline P4_2/nmc\\ 2^{100}_{\frac{1}{2}00}\\ 0\\ 0\\ \hline 0\\ \hline P4'_2/nmc\\ 2^{100}_{\frac{1}{2}00}*\\ 0\\ \hline 1\\ \hline P4'_2/nmc\\ 2^{100}_{\frac{1}{2}00}\\ 0\\ 0\\ \end{array}$	0 1 0 1 Class i 0 0 1 Class i 0 1 Class i 0 0 1 Class i 0 0 1 1 Class i 0 0 1 0 1 0 0 1	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ \\ 0\\ 1\\ \\ \text{sification} =\\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \\ \text{ssification}\\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ \\ \text{ssification} =\\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 0\\ 1\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \overline{4}^{101}_{\underline{2}0\frac{1}{2}}\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \overline{4}^{101}_{\underline{1}20\frac{1}{2}}\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \overline{4}^{101}_{\underline{1}20\frac{1}{2}}\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \overline{4}^{101}_{\underline{1}20\frac{1}{2}}\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \overline{4}^{101}_{\underline{1}20\frac{1}{2}}\\ 0\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 0\\ 1\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 0\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_2\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0$	$\begin{array}{c} 0000 \\ 0000 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{matrix} 0\\ 0\\ 1\\ 0\\ 1\\ 1\\ 37.507\\ 4^{001}_{\frac{1}{2}0\frac{1}{2}}\\ 0\\ 0\\ 0\\ 137.510\\ 4^{001}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 1\\ 137.511\\ 4^{001}_{\frac{1}{2}0\frac{1}{2}}*\\ 0\\ 0\\ 1\\ 137.512\\ \end{matrix}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \hline 0\\ 1\\ \hline P4_2/nmc\\ 2^{100}_{\frac{1}{2}00}\\ 0\\ 0\\ \hline 0\\ \hline P4'_2/nmc'\\ 2^{100}_{\frac{1}{2}00}*\\ 0\\ \hline 1\\ \hline P4'_2/nmc'\\ 2^{100}_{\frac{1}{2}00}\\ 0\\ 0\\ \hline 0\\ \hline \end{array}$	0 1 0 1 0 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0	$\begin{array}{c} 0 \\ 1 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline \\ sification = \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline \\ sification \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline \\ sification = \\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}*} \\ 0 \\ 0 \\ \hline \\ sification = \\ 0 \\ \hline \\ sification = \\ 0 \\ \hline \\ sification = \\ 0 \\ \hline \\ \\ sification = \\ 0 \\ \hline \\ \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \overline{4}^{101}_{\underline{2}01}\\ \underline{0}\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 1\\ \end{array}$ $\begin{array}{c} = \mathbb{Z}_2\\ \overline{4}^{001}_{\underline{2}0\frac{1}{2}} \\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \overline{4}^{001}_{\underline{1}20\frac{1}{2}} \\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} = \mathbb{Z}_M\\ \overline{4}^{001}_{\underline{1}20\frac{1}{2}} \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $X_{BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110}\\ 0\\ 0\\ 1\\ X_{BS} = \mathbb{Z}_2$ $g_{00\frac{1}{2}}^{110}\\ 0\\ 1\\ X_{BS} = \mathbb{Z}_2$ $g_{000\frac{1}{2}}^{110} *$ $0\\ 0\\ X_{BS} = \mathbb{Z}_2$	$\begin{array}{c} 0000 \\ 0000 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{matrix} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 137.507 \\ 4\frac{401}{2}0\frac{1}{2} \\ 0 \\ 0 \\ 0 \\ \hline 137.510 \\ 4\frac{401}{2}0\frac{1}{2} \\ 0 \\ 1 \\ \hline 137.511 \\ 4\frac{401}{2}0\frac{1}{2} \\ 0 \\ 0 \\ 1 \\ \end{matrix}$	$\begin{array}{c} 0\\ 0\\ 1\\ 0\\ 1\\ \hline 0\\ 1\\ \hline P4_2/nmc\\ 2^{100}_{\frac{1}{2}00}\\ 0\\ 0\\ \hline 0\\ \hline P4'_2/nmc\\ 2^{100}_{\frac{1}{2}00}*\\ 0\\ \hline 1\\ \hline P4'_2/nmc\\ 2^{100}_{\frac{1}{2}00}\\ 0\\ 0\\ \end{array}$	0 1 0 1 Class i 0 0 1 Class i 0 1 Class i 0 0 1 Class i 0 0 1 1 Class i 0 0 1 0 1 0 0 1	$\begin{array}{c} 0\\ 1\\ 0\\ 1\\ \\ 0\\ 1\\ \\ \text{sification} =\\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ 0\\ \\ \text{ssification}\\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}\\ 0\\ 0\\ \\ \text{ssification} =\\ 2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 0\\ 1\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \overline{4}^{101}_{\underline{2}0\frac{1}{2}}\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \overline{4}^{101}_{\underline{1}20\frac{1}{2}}\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \overline{4}^{101}_{\underline{1}20\frac{1}{2}}\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \overline{4}^{101}_{\underline{1}20\frac{1}{2}}\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ \overline{4}^{101}_{\underline{1}20\frac{1}{2}}\\ 0\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 0\\ 1\\ X_{\rm BS} = \mathbb{Z}_2\\ g_{00\frac{1}{2}}^{110}\\ 0\\ 0\\ \end{array}$ $X_{\rm BS} = \mathbb{Z}_2\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0$	$\begin{array}{c} 0000 \\ 0000 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline SI = z'_{2P} \\ \hline Cm^{100}_{(2)} \\ \hline 2\overline{2}00 \\ \hline 2\overline{2}00 \\ \hline 1\overline{1}00 \\ \hline \end{array}$	$ \begin{array}{r} \overline{22} \\ 2\overline{2} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	

1	(000)	1	0	0	1	1	1			
	137.5			Classificat	ion = $\mathbb{Z} \times$		$_{\mathrm{BS}}=\mathbb{Z}_{2,2}$	$SI = z_{2,S_4},$	$z_{4C}/2$	
$\mathbb{Z}_{2,2}$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}}$	$2^{100}_{\frac{1}{2}00}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$	$g_{00\frac{1}{2}}^{110}*$			
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	CT		
	1.		$\frac{P4_2'/n'n}{2^{100}}$		sification =		$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$2^{100}_{\frac{1}{2}00}*$	<i>i</i> *	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$	$g_{00\frac{1}{2}}^{110}*$	$Cm_{(0)}^{100}$		
0	(000)	0	0	0	0	0	0	2200		
$\frac{0}{1}$	(000)	0	0 1	0	0	0	0	$\frac{2200}{1\overline{1}00}$		
	(000)									_
$\overline{\mathbb{Z}_2}$	weak	$\frac{137.516}{\{1 00\frac{1}{2}\}*}$	$\frac{P_c 4_2/n}{4001}$		$\frac{\text{sification}}{i}$		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	$Cm_{(2)}^{100}$	
			$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{\frac{1}{2}00}$		$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}_{\frac{1}{2}00}*$	$m_{1\bar{1}0}*$		
$\frac{0}{0}$	(000)	0	0	0	0	0	0	0	$\frac{2\overline{2}00}{2\overline{2}00}$	
$\frac{0}{1}$	(000)	1	1	0	1	1	0	0	$\frac{2200}{1\overline{1}00}$	
	(000)	137.517	$P_C 4_2/n$		sification		$X_{BS} = \mathbb{Z}_2$		1100	_
$\overline{\mathbb{Z}_2}$	weak	$\frac{137.317}{\{1 \frac{1}{2}\frac{1}{2}0\}*}$	$\frac{F_C 4_2 / n}{4_{\frac{1}{2}0\frac{1}{2}}^{001}}$	$\frac{mc}{2_{00\frac{1}{2}}^{110}}*$		$\frac{= \angle M}{2^{010}_{\frac{1}{2}00} *}$	$\Lambda_{\rm BS} = \mathbb{Z}_2$ $\overline{4_{0\frac{1}{2}\frac{1}{2}}^{001}} *$	$\frac{SI = z'_{2P}}{Cm_{(2)}^{010}}$		
0	(000)	$\frac{11\overline{2}\overline{2}0}{0}$	$\frac{4\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{2_{00\frac{1}{2}}}{0}$	$\frac{i_{\frac{1}{2}\frac{1}{2}0}*}{0}$	$\frac{2\frac{1}{2}00^{4}}{0}$	$\frac{4_{0\frac{1}{2}\frac{1}{2}}}{0}$	$\frac{\overline{2700}}{200}$		
$\frac{0}{0}$	(000)	0	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$		
$\frac{0}{1}$	(000)	1	0	1	0	1	0	$\frac{2200}{1\overline{1}00}$		
	(000)	137.518	$P_I 4_2/n$		sification		$X_{BS} = \mathbb{Z}_2$			_
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$		$\frac{mc}{2_{0\frac{1}{2}\frac{1}{2}}^{100}}*$		$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\frac{768 - 22}{4_{\frac{1}{2}0\frac{1}{2}}^{001}}$	$\frac{g_{\frac{1}{2}\frac{1}{2}0}^{110}*}{g_{\frac{1}{2}\frac{1}{2}0}^{110}*}$	$Cm_{(2)}^{010}$	
$\frac{\omega_2}{0}$	(000)	0	$\frac{1_{0\frac{1}{2}0}}{0}$	$\frac{2_{0\frac{1}{2}\frac{1}{2}}}{0}$	$\frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*}{0}$	$\frac{2\frac{1}{2}\frac{1}{2}\frac{1}{2}}{0}$	$\frac{1\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{g_{\frac{1}{2}\frac{1}{2}0}}{0}$	$\frac{2\overline{200}}{200}$	
0	(000)	0	0	0	0	0	0	0	$\frac{2200}{2\overline{2}00}$	
$\frac{0}{1}$	(000)	1	1	1	0	0	1	0	$\frac{2200}{1\overline{1}00}$	
	(000)	138.519	$P4_2/ne$		sification =		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	1100	
$\overline{\mathbb{Z}_2}$	weak	$\frac{4^{001}_{\frac{1}{2}0\frac{1}{2}}}{4^{001}_{\frac{1}{2}0\frac{1}{2}}}$	$\frac{2^{100}}{2^{100}_{\frac{1}{2}0^{\frac{1}{2}}}}$	$\frac{i}{i}$	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$\frac{\bar{4}^{001}_{120}}{\bar{4}^{001}_{202}}$	$Cm_{(2)}^{110}$	51 ~2P		
0	(000)	$\frac{\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{\frac{1}{2}0\frac{1}{2}}{0}$	0	$\frac{\frac{1}{2}\frac{1}{2}0}{0}$	$\frac{\frac{1}{2}0\frac{1}{2}}{0}$	$\frac{2\overline{2}}{2\overline{2}}$			
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$			
1	(000)	0	0	1	0	1	$1\overline{1}$			
		138.522	$P4_2'/n\epsilon$	m Clas	sification	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$		
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}} *$	$2^{100}_{\frac{1}{2}0^{\frac{1}{2}}}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$Cm_{(2)}^{110}$			
0	(000)	$\frac{\frac{1}{2}0^{\frac{1}{2}}}{0}$	$\frac{\frac{1}{2}0\frac{1}{2}}{0}$	0	0	$\frac{202}{0}$	$2\overline{2}$			
0	(000)	0	0	0	0	0	$2\overline{2}$			
1	(000)	1	1	1	0	0	$1\overline{1}$			
		138.523	$P4_2'/ne$	cm' Clas	ssification		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$		
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$2^{100}_{\frac{1}{2}0\frac{1}{2}}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$m_{1\bar{1}0}*$			
0	(000)	0	0	0	0	0	0			
1	(000)	1	0	1	1	0	0			
		138.524	$P4_{2}'/n'c$		sification =	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$2^{\frac{1}{100}}_{\frac{1}{2}0\frac{1}{2}}$	i*	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$	$Cm_{(0)}^{110}$			
0	(000)	0	0	0	0	0	$2\overline{2}$			
0	(000)	0	0	0	0	0	$2\overline{2}$			
1	(000)	1	0	0	1	1	11			
	138.5		nc'm'		$ion = \mathbb{Z} \times$		$_{\mathrm{BS}}=\mathbb{Z}_{2,2}$	$SI = z_{2,S_4},$	$z_{4C}/2$	
	-			i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$	$m_{1\bar{1}0}*$			
$\mathbb{Z}_{2,2}$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}}$	$2^{100}_{\frac{1}{2}0\frac{1}{2}}*$		$\overline{2} \overline{2}^0$					
00	(000)	0	0	0	0	0	0			
00	(000) (004)	0 2	0	0	0	0	0			
00 00 01	(000) (004) (002)	0 2 1	0 0 0	0 0 1	0 0 1	0 0 0	0 0 0			
00	(000) (004)	0 2	0	0	0	0	0			

		138.526	$P4'_{2}/n'c$		sification		$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2}0\frac{1}{2}}*$	$2^{100}_{\frac{1}{2}0\frac{1}{2}}*$	i*	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$\bar{4}^{001}_{\frac{1}{2}0\frac{1}{2}}$	$m_{1\bar{1}0}*$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	1	0	0	1	0		
		138.528	$P_c4_2/nc$		sification	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$4^{001}_{\frac{1}{2}00}*$	$2^{100}_{\frac{1}{2}00}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$\bar{4}^{001}_{\frac{1}{2}00}*$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	$2\overline{2}$	
0	(000)	0	0	0	0	0	0	$2\overline{2}$	
1	(000)	1	1	1	1	0	0	11	
	,	138.529	$P_C4_2/n_C$	cm. Clas	sification	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$\frac{4^{001}_{\frac{1}{2}0\frac{1}{2}}}{4^{001}_{\frac{1}{2}0\frac{1}{2}}}$	$\frac{2_{000}^{110}*}{2_{000}^{110}}$	$\frac{i_{\frac{1}{2}\frac{1}{2}0}*}{}$	$\frac{2010}{2\frac{1}{2}0\frac{1}{2}*}$		100	$Cm_{(2)}^{110}$
0	(000)	0	$\frac{-\frac{1}{2}0\frac{1}{2}}{0}$	0	$\frac{1}{2}\frac{1}{2}0$	$\frac{-\frac{1}{2}0\frac{1}{2}}{0}$	$0^{\frac{-0\frac{1}{2}\frac{1}{2}}{2}}$	$\frac{g_{\frac{1}{2}0\frac{1}{2}}^{100}}{0}$	$\frac{2\overline{2}}{2\overline{2}}$
0	(000)	0	0	0	0	0	0	0	$\frac{22}{2\overline{2}}$
1	(000)	1	0	1	0	1	0	1	$\frac{22}{11}$
	(000)						-		11
77	1.	138.530	$P_{I}4_{2}/nc$		sification	$= \mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$ $\overline{_{4}001}$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$4_{0\frac{1}{2}0}^{001}*$	$2^{100}_{0\frac{1}{2}0}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$\bar{4}^{001}_{rac{1}{2}0rac{1}{2}}$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	0	22	
0	(000)	0	0	0	0	0	0	22	
1	(000)	1	1	1	0	0	1	11	
		139.531	I4/mn		sification		$X_{\mathrm{BS}} = \mathbb{Z}_8$	$SI = z_8$	
$\mathbb{Z}_8$	weak	$4^{001}$	$2^{100}$	i	$2^{110}$	$\bar{4}^{001}$	$Cm_{(2)}^{010}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	88	88	88
0	(000)	0	0	0	0	0	$\overline{2}2$	$\overline{4}4$	$\overline{4}4$
0	(000)	0	0	0	0	0	$\overline{2}2$	00	$\overline{2}2$
0	(000)	0	0	0	0	0	$\overline{44}$	$\overline{44}$	$\overline{2}2$
3	(000)	0	0	1	0	1	$1\overline{1}$	$1\overline{1}$	11
6	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}$	$2\overline{2}$
1	(000)	0	0	1	0	1	33	<u>33</u>	33
4	(000)	0	0	0	0	0	44	<u>44</u>	44
7	(000)	0	0	1	0	1	55	55	55
2	(000)	0	0	0	0	0	<u>66</u>	66	6 <u>6</u>
5	(000)	0	0	1	0	1	77	77	77
		139.534		m Clas	sification		$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$	
$\mathbb{Z}_4$	weak	$4^{001}*$	$2^{100}*$	i	$2^{110}$	$\bar{4}^{001}*$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{110}$	
0	(000)	0	0	0	0	0	$4\overline{4}$	$4\overline{4}$	
0	(000)	0	0	0	0	0	00	$\overline{2}2$	
0	(000)	0	0	0	0	0	00	$2\overline{2}$	
3	(000)	1	1	1	0	0	<u>11</u>	<u>11</u>	
2	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}$	
1	(000)	1	1	1	0	0	$3\overline{3}$	$3\overline{3}$	
		139.535	I4'/mm		sification		$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$	
$\mathbb{Z}_4$	weak	$4^{001}*$	$2^{100}$	i	$2^{110}*$	$\bar{4}^{001}*$	$m_{1\bar{1}0}*$	$Cm_{\underline{(2)}}^{010}$	$Cm_{(2)}^{001}$
0	(000)	0	0	0	0	0	0	$4\overline{4}$	$4\overline{4}$
0	(000)	0	0	0	0	0	0	$2\overline{2}$	00
0	(000)	0	0	0	0	0	0	$\overline{2}2$	00
3	(000)	1	0	1	1	0	0	<u>11</u>	11
2	(000)	0	0	0	0	0	0	$2\overline{2}$	$2\overline{2}$
1	(000)	1	0	1	1	0	0	33	33
			$I4'/\overline{m'm'}$		sification		$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}*$	$2^{100}$	i*	$2^{110}*$	$\bar{4}^{001}$	$Cm_{(0)}^{1\bar{1}0}$		
0	(000)	0	0	0	0	0	$2\overline{2}$		
0	(000)	0	0	0	0	0	$2\overline{2}$		
1	(000)	1	0	0	1	1	$1\overline{1}$		
	139.53	7 I4/mm		assificatio	$\mathrm{on}=\mathbb{Z}_M >$		$_{\mathrm{BS}}=\mathbb{Z}_{4,4}$	$SI = z_{4m,87}^+$	$,z_{4m.87}^{-}$
$\mathbb{Z}_{4,4}$	weak	4001	2 <sup>100</sup> *	i	2110*	$\bar{4}^{001}$	$m_{1\bar{1}0}*$	$Cm_{(4)}^{001}$	
,-							110	(4)	

00	$(44\overline{4})$	0	0	0	0	0	0	44		
00	(000)	0	0	0	0	0	0	$\frac{11}{4\overline{4}}$		
00	(000)	0	0	0	0	0	0	00		
01	(000)	0	1	1	1	1	0	$\frac{00}{1\overline{1}}$		
02	(000)	0	0	0	0	0	0	$\frac{11}{2\overline{2}}$		
03	(000)	0	1	1	1	1	0	$\frac{22}{3\overline{3}}$		
$\frac{-05}{10}$	$(11\overline{1})$	0	0	0	0	0	0			
	/									
11	$(11\overline{1})$	0	1	1	1	1	0	20		
12	$(11\overline{1})$	0	0	0	0	0	0	$\frac{3\overline{1}}{4\overline{2}}$		
13	$(11\overline{1})$	0	1	1	1	1	0	$4\overline{2}$		
20	$(22\overline{2})$	0	0	0	0	0	0	22		
21	$(22\overline{2})$	0	1	1	1	1	0	31		
22	$(22\overline{2})$	0	0	0	0	0	0	40		
23	(222)	0	1	1	1	1	0	51		
30	$(33\overline{3})$	0	0	0	0	0	0	33		
31	$(33\overline{3})$	0	1	1	1	1	0	42		
32	$(33\overline{3})$	0	0	0	0	0	0	51		
33	$(33\overline{3})$	0	1	1	1	1	0	60		
		139.538	I4'/m'mm'	Cl	assification =	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$4^{001}*$	2100*	i*	$2^{110}$	$\bar{4}^{001}$	$m_{1\bar{1}0}*$	$Cm_{(0)}^{010}$		
0	(000)	0	0	0	0	0	0	$\frac{\overline{22}}{2}$		
0	(000)	0	0	0	0	0	0	$2\overline{2}$		
$\frac{}{1}$	(000)	1	1	0	0	1	0	11		
	(000)			- C			-			
	1 1	139.540		$\frac{n}{2^{110}}$	lassification	$\frac{=\mathbb{Z}_{M}}{2^{010}}$	$\frac{X_{BS} = \mathbb{Z}_8}{\bar{4}^{001}}$	$SI = z_8$	G 001	7 100
$\mathbb{Z}_8$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$			i			$Cm_{(2)}^{110}$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{100}$
0	(000)	0	0	0	0	0	0	88	88	88
0	(000)	0	0	0	0	0	0	$\frac{\overline{2}2}{\overline{z}}$	44	$\frac{\overline{4}4}{\overline{-}}$
0	(000)	0	0	0	0	0	0	$\overline{2}2$	00	$\overline{\underline{2}}2$
0	(000)	0	0	0	0	0	0	$\overline{44}$	$\overline{44}$	$\overline{2}2$
3	(000)	1	0	0	1	0	1	<u>11</u>	$1\overline{1}$	<u>11</u>
6	(000)	0	0	0	0	0	0	$2\overline{2}$	$2\overline{2}$	$2\overline{2}$
1	(000)	1	0	0	1	0	1	$3\overline{3}$	$3\overline{3}$	$3\overline{3}$
4	(000)	0	0	0	0	0	0	$4\overline{4}$	$4\overline{4}$	$4\overline{4}$
7	(000)	1	0	0	1	0	1	$5\overline{5}$	$5\overline{5}$	$5\overline{5}$
2	(000)	0	0	0	0	0	0	$6\overline{6}$	$6\overline{6}$	$6\overline{6}$
5	(000)	1	0	0	1	0	1	$7\overline{7}$	$7\overline{7}$	$7\overline{7}$
		140.541	I4/mcm	Clas	sification =	$\mathbb{Z}^2$	$X_{BS} = \mathbb{Z}_4$ S	$SI = z_{4m,0}^+$		
$\mathbb{Z}_4$	weak	4001	$2_{00\frac{1}{2}}^{100}$	$\frac{i}{i}$	o110	$\frac{-M}{4^{001}}$	$\frac{Cm_{(4)}^{001}}{Cm_{(4)}^{001}}$	$Cm_{(2)}^{110}$		
					$00\frac{2}{2}$					
0	(000)	0	0	0	0	0	44	$\frac{44}{20}$		
0	(000)	0	0	0	0	0	00	$\frac{\overline{2}2}{2\overline{2}}$		
0	(000)	0	0	0	0	0	00	$2\overline{2}$		
3	(000)	0	0	1	0	1	$\frac{1\overline{1}}{2\overline{2}}$	$\frac{1\overline{1}}{2\overline{2}}$		
2	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}$		
1	(000)	0	0	1	0	1	$3\overline{3}$	$3\overline{3}$		
<del></del>		140.544	I4'/mc'm	Cla	assification =	$=\overline{\mathbb{Z}_{M}^{2}}$	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$		
$\mathbb{Z}_4$	weak	$4^{001}*$	$2_{00\frac{1}{2}}^{100}*$	i	$2_{00\frac{1}{2}}^{110}$	$\bar{4}^{001}*$	$Cm_{(2)}^{001}$	$Cm_{(2)}^{110}$		
0	(000)	0	0	0	0	0	$\frac{1}{4\overline{4}}$	$4\overline{4}$		
0	(000)	0	0	0	0	0	00	$\frac{11}{22}$		
0	(000)	0	0	0	0	0	00	$\frac{2\overline{2}}{2\overline{2}}$		
$\frac{3}{3}$	(000)	1	1	1	0	0	$\frac{\overline{11}}{11}$	$\frac{22}{11}$		
$\frac{3}{2}$	(000)	0	0	0	0	0	$\frac{11}{2\overline{2}}$	$\frac{11}{2\overline{2}}$		
$\frac{2}{1}$	(000)	1	1	1	0	0	$\frac{22}{3\overline{3}}$	$\frac{22}{3\overline{3}}$		
	1 (000)									
	-	140.545	I4'/mcm'		assification =		$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$		
$\mathbb{Z}_4$	weak	$4^{001}*$	$2_{00\frac{1}{2}}^{100}$	i	$2^{110}_{00\frac{1}{2}}*$	$\bar{4}^{001}*$	$g_{00\frac{1}{2}}^{110}*$	$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	0	$4\overline{4}$		
0	(000)	0	0	0	0	0	0	00		
3	(000)	1	0	1	1	0	0	$1\overline{1}$		

	(000)	0	0	0	0	0	0	$2\overline{2}$		
$\frac{2}{1}$	(000)	1	0	1	1	0	0	$\frac{22}{3\overline{3}}$		
	(000)	140.546	I4'/m'c'm		ssification :					
$\mathbb{Z}_2$	weak	$\frac{140.340}{4^{001}*}$	$\frac{14 / m \ c \ m}{2_{00\frac{1}{2}}^{100}}$	i*	$\frac{2_{00\frac{1}{2}}^{110}*}{2_{00\frac{1}{2}}^{10}}$	$\frac{- \angle M}{4^{001}}$	$X_{\rm BS} = \mathbb{Z}_2$ $Cm_{(0)}^{110}$	$SI = z_{2,S_4}$		
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$			
0	(000)	0	0	0	0	0	$\frac{2\overline{2}}{1\overline{1}}$			
	(000)				1					
	140.54				on = $\mathbb{Z}_M \times$		$\mathbb{Z}_{3S} = \mathbb{Z}_{4,4}$	$SI = z_{4m,87}^+,$	$z_{4m,87}^{-}$	
$\mathbb{Z}_{4,4}$	weak	$4^{001}$	$2^{100}_{00\frac{1}{2}}*$	i	$2^{110}_{00\frac{1}{2}}*$	$\bar{4}^{001}$	$g_{00\frac{1}{2}}^{110}*$	$Cm_{(4)}^{001}$		
00	$(\overline{444})$	0	0	0	0	0	$\overline{4}$	44		
00	(000)	0	0	0	0	0	0	$4\overline{4}$		
00	(000)	0	0	0	0	0	0	00		
01	(000)	0	1	1	1	1	0	$1\overline{1}$		
02	(000)	0	0	0	0	0	0	$2\overline{2}$		
03	(000)	0	1	1	1	1	0	$3\overline{3}$		
10	(111)	0	1	0	1	0	<u> </u>	11		
11	$(\overline{111})$	0	0	1	0	1	<u> 1</u>	20		
12	(111)	0	1	0	1	0	1	31		
13	(111)	0	0	1	0	1	1	42		
20	$(\overline{222})$	0	0	0	0	0	$\frac{\overline{2}}{\overline{2}}$	22		
21	$(\overline{222})$	0	1	1	1	1	$\frac{\overline{2}}{\overline{2}}$	31		
	$(\overline{222})$	0	0	0	0	0	$\frac{\overline{2}}{\overline{2}}$	40		
23	$(\overline{222})$	0	1	1	1	1	$\frac{\overline{2}}{\overline{2}}$	$5\overline{1}$		
30	$(\overline{333})$	0	1	0	1	0	$\frac{\overline{3}}{\overline{2}}$	33		
31	$(\overline{3333})$	0	0	1	0	1	$\frac{\overline{3}}{\overline{2}}$	42		
32	$(\overline{333})$	0	1	0	1	0	$\frac{\overline{3}}{\overline{3}}$	51		
33	$(\overline{3}\overline{3}\overline{3})$	0	0	1	0	1		60		
		140.548	I4'/m'cm'		assification	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$4^{001}*$	$2^{100}_{00\frac{1}{2}}*$	i*	$2^{110}_{00\frac{1}{2}}$	$\frac{-2}{4^{001}}$	$g_{00\frac{1}{2}}^{110}*$			
0	(000)	0	0	0	0	0	0			
1	(000)	1	1	0	0	1	0			
		140.550	$I_c4/mcm$	Clas	sification =	$\mathbb{Z}^2_M$	$X_{BS} = \mathbb{Z}_4$	$SI = z_{4m,0}^+$		
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$4^{001}$	$2^{110}*$	i	$2^{010}*$	$\bar{4}^{001}$	$m_{100}*$	$Cm_{(4)}^{001}$	$Cm_{(2)}^{110}$
0	(000)	0	0	0	0	0	0	0	$4\overline{4}$	$\frac{\sqrt{2}}{4\overline{4}}$
0	(000)	0	0	0	0	0	0	0	00	$\overline{2}2$
0	(000)	0	0	0	0	0	0	0	00	$2\overline{2}$
3	(000)	1	0	1	1	1	1	0	$1\overline{1}$	$1\overline{1}$
2	(000)	0	0	0	0	0	0	0	$2\overline{2}$	$2\overline{2}$
1	(000)	1	0	1	1	1	1	0	$3\overline{3}$	$3\overline{3}$
		141.551	$I4_1/amd$	Cla	ssification =	$= \mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	_	
$\mathbb{Z}_2$	weak	$4^{00\underline{1}}_{\underline{1}\;\underline{\overline{1}}\;\underline{1}}$	$2^{100}$	i	$2^{110}_{\frac{1}{4},\frac{1}{4},\frac{1}{4}}$	$\bar{4}^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$g_{rac{1}{4}rac{1}{4}rac{1}{4}}^{110}$	$Cm_{(2)}^{010}$		
0	(000)	$\frac{\frac{1}{4}\frac{1}{4}\frac{1}{4}}{0}$	0	0	$\frac{\frac{1}{4}\frac{1}{4}\frac{1}{4}}{0}$	$\frac{\frac{1}{4}\frac{1}{4}\frac{1}{4}}{0}$	$\frac{3\frac{1}{4}\frac{1}{4}\frac{1}{4}}{0}$	$\frac{2\overline{2}}{2\overline{2}}$		
$\frac{0}{0}$	(000)	0	0	0	0	0	0	$\frac{22}{2\overline{2}}$		
$\frac{0}{1}$	(000)	0	0	1	0	1	1	$\frac{22}{1\overline{1}}$		
	(000)									
		141.554	$I4'_1/am'_0$		assification	$= \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$		
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}} *$	$2^{100}*$	i	$2^{110}_{rac{1}{4}rac{ar{1}}{4}rac{1}{4}}$	$\bar{4}^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}*$	$g_{rac{1}{4}rac{1}{4}rac{1}{4}}^{1ar{1}0}$			
0	(000)	0	0	0	0	0	0			
1	(000)	1	1	1	0	0	1			
		141.555	$I4'_1/amd'$	Cla	ssification		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$		
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{2},\frac{1}{2},\frac{1}{2}}*$	$2^{100}$	i	$2^{110}_{1\bar{1}1}*$	$\bar{4}^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}*$	$g_{\frac{1}{4},\frac{1}{4},\overline{1}}^{110}*$	$Cm_{(2)}^{010}$		
0	(000)	$\frac{\frac{1}{4}\frac{1}{4}\frac{1}{4}}{0}$	0	0	$\frac{\frac{1}{4}\frac{1}{4}\frac{1}{4}}{0}$	$\frac{\frac{1}{4} \frac{1}{4} \frac{1}{4}}{0}$	$\frac{0}{4}\frac{1}{4}\frac{1}{4}$	$\frac{2\overline{2}}{2\overline{2}}$		
$\frac{0}{0}$	(000)	0	0	0	0	0	0	$\frac{22}{2\overline{2}}$		
$\frac{0}{1}$	(000)	1	0	1	1	0	0	$\frac{22}{1\overline{1}}$		
	(000)				ssification					
		141.556	$I4'_1/a'm'a$	ı Cla	ssincation	<i>=</i> ∠2	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$		

		.001	100		110	=001	110		
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$2^{100}$	i*	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$\bar{4}^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	$g_{rac{1}{4}rac{1}{4}rac{1}{4}}^{110}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	0	0	1	1	1		
	141	$.557 I4_1/$		assifica	$tion = \mathbb{Z}$	$\langle \mathbb{Z}_2 \rangle$	$X_{BS} = \mathbb{Z}_{2,2}$	$SI = z_{2,S_4}, z'_{2F}$	,
$\mathbb{Z}_{2,2}$	weak	$4^{001}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$2^{100}*$	i	$2^{110}_{\frac{1}{4},\frac{1}{4},\frac{1}{4}}*$	$\bar{4}^{001}_{\frac{1}{4},\frac{1}{4},\frac{1}{4}}$	$g_{rac{1}{4}rac{1}{4}rac{1}{4}}^{110}*$		
00	$(\overline{4444})$	$\frac{\frac{4.4.4}{2}}{2}$	0	0	0	$\frac{444}{0}$	2		
00	$(44\overline{4})$	2	0	0	0	0	2		
01	$(22\overline{2})$	1	1	1	0	0	1		
10	$(\overline{22}2)$	1	0	0	1	1	1		
11	(000)	0	1	1	1	1	0		
		141.558	$I4'_1/a'md'$	Class	sification =	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\underline{1}\; \overline{1}\; \underline{1}} *$	2 <sup>100</sup> *	i*	$2^{110}_{\frac{1}{2},\frac{1}{2},\frac{1}{2}}$	$\bar{4}^{001}_{\frac{1}{2}\bar{1}\frac{1}{2}}$	$g^{110}_{rac{1}{2}rac{1}{2}rac{1}{2}}*$		
0	(000)	0	0	0	0	$\frac{1}{4} \frac{1}{4} \frac{1}{4}$	0	$\frac{2\overline{2}}{2}$	
0	(000)	0	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$	
$\frac{0}{1}$	(000)	1	1	0	0	1	0	$\frac{22}{11}$	
	(000)	141.560	$I_c4_1/ama$		sification :		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}0\}*$	$\frac{4^{001}_{\bar{1}} + 2^{001}_{\bar{1}}}{4^{001}_{\bar{1}} + 2^{001}_{\bar{1}}} * 2^{001}_{\bar{1}}$	$2^{110}_{\bar{1} \frac{1}{2} \frac{1}{2} \frac{1}{2}} *$		$\frac{-22M}{2^{010}_{\frac{1}{2}00}*}$	$\frac{A_{\rm BS} - Z_{\rm I}}{\bar{4}^{001}_{\frac{1}{2}\bar{1}^{\frac{1}{2}}}}$	$\frac{51 - z_2 p}{Cm_{(2)}^{010}}$	
			4 4 4	4 4 4	1001 *				
0	(000)	0	0	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$	
0	(000)	0	0	0	0	0	0	$\frac{2\overline{2}}{1\overline{1}}$	
1	(000)	1	1	1	0		1	11	
	,	142.561	-/		sification =	$= \mathbb{Z}_2$ .	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$4^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	$2^{100}_{00\frac{1}{2}}$	i	$2^{110}_{\frac{\bar{1}}{4}\frac{1}{4}\frac{1}{4}}$	$\bar{4}^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	$g_{rac{1}{4}rac{1}{4}rac{1}{4}}^{110}$		
0	(000)	0	0	0	0	0	0		
1	(000)	0	0	1	0	1	1		
		142.564	$I4'_1/ac'a$	Clas	sification :	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\overline{\mathbb{Z}_2}$	weak	$4^{001}_{\underline{1}\bar{1}\underline{1}\underline{1}}*$	$2^{100}_{00\frac{1}{2}}*$	i	$2^{110}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	$\bar{4}^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$g_{rac{1}{4}rac{1}{4}rac{1}{4}}^{110}$		
0	(000)	$\frac{\bar{4}\bar{4}\bar{4}}{0}$	$00^{\frac{1}{2}}$	0	$\frac{\overline{4}\ \overline{4}\ \overline{4}}{0}$	$\frac{\overline{4}\ \overline{4}\ \overline{4}}{0}$	$\frac{\overline{4}\ \overline{4}\ \overline{4}}{0}$		
$\frac{0}{1}$	(000)	1	1	1	0	0	1		
	/	142.565	$I4'_1/acd'$	Clas	sification =	- 7 <sub>10</sub>	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$2_{00\frac{1}{2}}^{100}$	i	$2^{110}_{\bar{1}\;1\;1}*$	$\frac{-23}{4^{001}_{1,\frac{1}{1},\frac{1}{1}}}$ *		$51 - z_2p$	
		4 4 4			4 4 4	444			
$\frac{0}{1}$	(000)	0	0	0	0	0	0		
	(000)		-					CI	
	,	142.566	$I4'_1/a'c'd$		sification =	$= \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}*$	$2_{00\frac{1}{2}}^{100}$	i*	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$\bar{4}^{001}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	$g_{rac{1}{4}rac{1}{4}rac{1}{4}}^{110}$		
0	(000)	0	0	0	0	0	0		
1	(000)	1	0	0	1	1	1		
	142	$2.567  I4_{1}$		assificat	$ion = \mathbb{Z} \times$	$\mathbb{Z}_2$ $\Sigma$	$K_{ m BS} = \mathbb{Z}_{2,2}$	$SI = z_{2,S_4}, z'_{2P}$	
$\mathbb{Z}_{2,2}$	weak	$4^{001}_{\frac{1}{4}\frac{\bar{1}}{4}\frac{1}{4}}$	$2^{100}_{00\frac{1}{2}}*$	i	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$\frac{\mathbb{Z}_{2}}{\bar{4}^{001}_{\frac{1}{4}^{\frac{1}{4}^{\frac{1}{4}}}}}$	$g_{rac{1}{4}rac{1}{4}rac{1}{4}}^{110}*$		
00	$(44\overline{4})$	2	0	0	$\frac{\overline{4}\overline{4}\overline{4}}{0}$	0	2		
00	$\overline{(\overline{4444})}$	$\overline{2}$	0	0	0	0	$\overline{2}$		
01	$\overline{(222)}$	1	1	1	0	0	1		
10	$(22\overline{2})$	1	0	0	1	1	1		
11	(000)	0	1	1	1	1	0		
		142.568	$I4'_1/a'cd'$	Class	sification =	$=\mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$4^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}} *$	$2_{00\frac{1}{2}}^{100} *$	i*	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$\bar{4}^{001}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}*$	) <b>-</b>	
0	(000)	$\frac{\frac{1}{4}\frac{1}{4}\frac{1}{4}}{0}$	$\frac{00\frac{1}{2}}{0}$	0	$\frac{\frac{1}{4}\frac{1}{4}\frac{1}{4}}{0}$	$\frac{\frac{1}{4}\frac{1}{4}\frac{1}{4}}{0}$	$\frac{3\frac{1}{4}\frac{1}{4}\frac{1}{4}}{0}$		
$\frac{0}{1}$	(000)	1	1	0	0	1	0		
	(000)							SI - ~'	
$\overline{\mathbb{Z}_2}$	weak	142.570		$\frac{1}{2^{110}}$	sification:	$= \mathbb{Z}_2$	$X_{BS} = \mathbb{Z}_2$ $\overline{A}^{001}$	$SI = z'_{2P}$	
		$\{1 \frac{1}{2}\frac{1}{2}0\}*$		$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$i_{00\frac{1}{2}}*$	$2^{010}_{\frac{1}{2}00}$	$\bar{4}^{001}_{\frac{1}{4},\frac{1}{4},\frac{1}{4}}$	$g_{00\frac{1}{2}}^{100}$	
0	(000)	0	0	0	0	0	0	0	
1	(000)	1	1	0	0	0	1	1	
		143	3.1 <i>P</i> 3 (	Classific	$\operatorname{cation} = \mathbb{Z}$	$\overline{\mathrm{X}_{\mathrm{BS}}}$	$=\mathbb{Z}_3$ SI =	$= z_{3C}$	
$\mathbb{Z}_3$	weak	3 <sup>001</sup>							

0	$(00\bar{3})$	0			
$\frac{0}{2}$	(003)	0			
$\frac{2}{1}$	$(001)$ $(00\overline{2})$	0			
	(002)		D-5 C1		
	,	$\frac{147.13}{3^{001}}$		assification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{6,4}$ $SI = z_{6C}, z_{4P}$	
$\mathbb{Z}_{6,4}$	weak		$\frac{i}{2}$		
00	$(00\overline{6})$	0	0		
00	(000)	0	0		
02	(000)	0	1		
50	(001)	0	0		
52	(001)	0	1		
40	$(00\overline{2})$	0	0		
42	$(00\overline{2})$	0	1		
$\frac{30}{32}$	$(00\overline{3})$ $(00\overline{3})$	0	0		
$\frac{32}{20}$	(003) $(004)$	0	0		
$\frac{20}{22}$	(004) $(004)$	0	1		
$\frac{22}{10}$	(004) $(005)$	0	0		
$\frac{10}{12}$	(005)	0	1		
	(000)				_
	1	147.			
$\frac{\mathbb{Z}_2}{0}$	weak (000)	$\{1 00\frac{1}{2}\}*$	0	<u>i</u> 0	
$\frac{0}{1}$	(000)	0 1	0	1	
	(000)			-	_
-77	1.	$\frac{148.17}{3^{001}}$		ssification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ $SI = z_{2P,3}, z_{4P}$	
$\frac{\mathbb{Z}_{2,4}}{00}$	(222)	0	$\frac{i}{0}$		
00	(000)	0	0		
$\frac{-00}{02}$	(000)	0	1		
$\frac{-02}{10}$	(111)	0	0		
12	(111)	0	1		
	/				
		148	$20 R_{\tau}\bar{3}$	$\overline{S}$ Classification $-\overline{Z}_{0}$ $\overline{X}_{DG} = \overline{Z}_{0}$ $\overline{SI} = z_{0}^{\prime}$	_
	weak	148.		<del></del>	
$\frac{\mathbb{Z}_2}{0}$	weak (000)	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	3 <sup>001</sup>	i	
$\frac{\mathbb{Z}_2}{0\atop 1}$	weak (000) (000)				
0	(000)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1 \end{array} $	0	<i>i</i> 0 1	
0 1	(000)	$     \begin{cases}       1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\       0 \\       1 \\       \hline       149.23     $	$0 \\ 0 \\ P312'$	<i>i</i> 0 1	
0	(000) (000) weak	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1 \end{array} $	$ \begin{array}{c} 3^{001} \\ 0 \\ 0 \\ \hline P312' \\ 2^{120}* \end{array} $	<i>i</i> 0 1	
$0$ $1$ $\mathbb{Z}_3$	$\begin{array}{c} (000) \\ (000) \\ \hline \end{array}$ weak $\begin{array}{c} (00\overline{3}) \\ \end{array}$	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001} \end{array} $	$0 \\ 0 \\ P312'$	<i>i</i> 0 1	
$ \begin{array}{c c} \hline 0\\ \hline 1\\ \hline \mathbb{Z}_3\\ 0\\ \end{array} $	(000) (000) weak	$ \begin{cases} 1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\ 0 \\ 1 \\ 149.23 \\ 3^{001} \\ 0 \end{cases} $	$ \begin{array}{c} 3^{001} \\ 0 \\ 0 \\ \hline P312' \\ 2^{120}* \\ 0 \end{array} $	<i>i</i> 0 1	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_3\\ 0\\ 0 \end{array} $	(000) (000) (000) weak (003) (000)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0 \end{array} $	$ \begin{array}{c} 3^{001} \\ 0 \\ 0 \\ \hline P312' \\ 2^{120} * \\ 0 \\ 1 \end{array} $	<i>i</i> 0 1	
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 2 \end{array} $	(000) (000) (000) (003) (000) (001)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0\\ 0\\ 150.27 \end{array} $	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P312' \\ 2^{120}* \\ 0 \\ 1 \\ 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$	
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_3\\ 0\\ 0\\ 2\\ 1\\ \end{array} $	(000) (000) (000) (003) (000) (001)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0\\ 0 \end{array} $	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P312' \\ 2^{120}* \\ 0 \\ 1 \\ 0 \\ \end{array}$	<i>i</i> 0 1	
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 2 \end{array} $	(000) (000) (000) (003) (000) (001) (002)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0\\ 0\\ 150.27 \end{array} $	3001 0 0 P312' 2 <sup>120</sup> * 0 1 0 0 P32'1	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$	
$egin{array}{c} 0 \\ \hline 1 \\ \hline & \mathbb{Z}_3 \\ \hline 0 \\ 0 \\ \hline 2 \\ \hline & 1 \\ \hline & \mathbb{Z}_3 \\ \hline \end{array}$	(000)   (000)   (000)   (000)   (000)   (001)   (002)   (003)   (000	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0\\ 0\\ 150.27\\ 3^{001}\\ 0\\ 0\\ 0 \end{array} $	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P312' \\ 2^{120} * \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P32'1 \\ 2^{100} * \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$	
$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline                              $	(000)   (000)   (000)   (000)   (001)   (001)   (002)   (000)   (001)   (000)   (001)   (001)   (001)   (001)   (001)   (001)   (000)   (001)   (000	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0\\ 0\\ 150.27\\ 3^{001}\\ 0\\ 0\\ 0\\ 0\\ 0 \end{array} $	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P312' \\ 2^{120}* \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P32'1 \\ 2^{100}* \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$	
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 2 \\ 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 0 \end{array} $	(000)   (000)   (000)   (000)   (000)   (001)   (002)   (003)   (000	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0\\ 0\\ 150.27\\ 3^{001}\\ 0\\ 0\\ 0 \end{array} $	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P312' \\ 2^{120} * \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P32'1 \\ 2^{100} * \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$	
$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 1 \\ 2 \\ \hline \end{array} $	(000)   (000)   (000)   (000)   (000)   (001)   (002)   (000	$     \begin{cases}       1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\       0 \\       1     $ $       149.23 \\       3^{001} \\       0 \\       0 \\       0     $ $       0     $	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P312' \\ 2^{120}* \\ 0 \\ 1 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P32'1 \\ 2^{100}* \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$ $Classification = \mathbb{Z} \times \mathbb{Z}_2 X_{BS} = \mathbb{Z}_3 SI = z_{3C}$	
$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline                              $	(000) (000) (000) (003) (000) (001) (002) (003) (000) (001) (002)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0\\ 0\\ 150.27\\ 3^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P312' \\ 2^{120}* \\ 0 \\ 1 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P32'1 \\ 2^{100}* \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$ $Classification = \mathbb{Z} \times \mathbb{Z}_2 X_{BS} = \mathbb{Z}_3 SI = z_{3C}$	
$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 1 \\ 2 \\ \hline \mathbb{Z}_3 \\ 0 \end{array} $	(000)   (000)   (000)   (000)   (000)   (000)   (001)   (002)   (000)   (001)   (002)   weak   (003)   (000)   (001)   (002)   weak   (003)   (000)	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0\\ 0\\ 150.27\\ 3^{001}\\ 0\\ 0\\ 0\\ 0\\ 156.5\\ 3^{001}\\ 0\\ 0\\ 0 \end{array} $	$\begin{array}{c} 3^{001} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline P312' \\ 2^{120}* \\ \hline 0 \\ 1 \\ 0 \\ \hline 0 \\ \hline P32'1 \\ 2^{100}* \\ 0 \\ 1 \\ 0 \\ 0 \\ \hline 0 \\ 1 \\ P3m' \\ \hline m_{\bar{2}10}* \\ \hline 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$ $Classification = \mathbb{Z} \times \mathbb{Z}_2 X_{BS} = \mathbb{Z}_3 SI = z_{3C}$	
$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ \hline 0 \\ 0 \\ \hline 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 1 \\ 2 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 2 \end{array} $	(000)   (000)   (000)   (000)   (000)   (001)   (002)     weak   (003)   (000)   (001)   (002)     weak   (003)   (001)   (0	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0\\ 0\\ 150.27\\ 3^{001}\\ 0\\ 0\\ 0\\ 156.5\\ 3^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0 \end{array} $	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ 0 \\ \hline P312' \\ 2^{120}* \\ 0 \\ 1 \\ 0 \\ \hline P32'1 \\ 2^{100}* \\ 0 \\ 1 \\ 0 \\ \hline 0 \\ 1 \\ P3m' \\ \hline m_{\bar{2}10}* \\ 0 \\ 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$ $Classification = \mathbb{Z} \times \mathbb{Z}_2 X_{BS} = \mathbb{Z}_3 SI = z_{3C}$	
$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 1 \\ 2 \\ \hline \mathbb{Z}_3 \\ 0 \end{array} $	(000)   (000)   (000)   (000)   (000)   (000)   (001)   (002)   (000)   (001)   (002)   weak   (003)   (000)   (001)   (002)   weak   (003)   (000)	$     \begin{cases}       1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\       0 \\       1     $ $       149.23 \\       3^{001} \\       0 \\       0 \\       0     $ $       0 \\       0 \\       0 \\       0 \\       0     $ $       0 \\       0 $	$\begin{array}{c} : 3^{001} \\ 0 \\ 0 \\ 0 \\ \hline \\ P312' \\ 2^{120}* \\ 0 \\ 1 \\ 0 \\ \hline \\ P32'1 \\ 2^{100}* \\ 0 \\ 1 \\ 0 \\ 0 \\ \hline \\ I \\ P3m' \\ \hline \\ m_{\bar{2}10}* \\ 0 \\ 0 \\ 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$ $Classification = \mathbb{Z} \times \mathbb{Z}_2 X_{BS} = \mathbb{Z}_3 SI = z_{3C} i i i i i i i i i i$	
$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline                              $	(000)   (000)   (000)   (000)   (000)   (001)   (002)     weak   (003)   (000)   (001)   (002)     weak   (003)   (001)   (0	$     \begin{cases}       1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\       0 \\       1     $ $       149.23 \\       3^{001} \\       0 \\       0 \\       0 \\       0     $ $       0 \\     $	$\begin{array}{c} : 3^{001} \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$ $\begin{array}{c} P312' \\ 2^{120} * \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} 0 \\ 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$ $Classification = \mathbb{Z} \times \mathbb{Z}_2 X_{BS} = \mathbb{Z}_3 SI = z_{3C} i i i i i i i i i i$	
$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 1 \\ 2 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ \hline 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	(000)   (000)   (000)   (000)   (001)   (002)   (001)   (002)   (001)   (002)   (001)   (002)   (001)   (002)   (001)   (002	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0\\ 0\\ 150.27\\ 3^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} : 3^{001} \\ 0 \\ 0 \\ 0 \\ \hline \\ P312' \\ 2^{120}* \\ 0 \\ 1 \\ 0 \\ \hline \\ P32'1 \\ 2^{100}* \\ 0 \\ 1 \\ 0 \\ 0 \\ \hline \\ I \\ P3m' \\ \hline \\ m_{\bar{2}10}* \\ 0 \\ 0 \\ 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$ $Classification = \mathbb{Z} \times \mathbb{Z}_2 X_{BS} = \mathbb{Z}_3 SI = z_{3C} i i i i i i i i i i$	
$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 2 \\ \hline \mathbb{Z}_3 \\ 0 \\ \hline 2 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 2 \\ \hline \end{array} $	(000)   (000)   (000)   (000)   (001)   (002)   (001)   (002)   (001)   (002)   (001)   (002)   (001)   (002)   (003	$     \begin{cases}       1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\       0 \\       1     $ $       149.23 \\       3^{001} \\       0 \\       0 \\       0     $ $       0     $	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 1 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$ $\begin{array}{c} -1 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$ $\begin{array}{c} -1 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$ $Classification = \mathbb{Z} \times \mathbb{Z}_2 X_{BS} = \mathbb{Z}_3 SI = z_{3C} i i i i i i i i i i$	
$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ \hline 0 \\ 0 \\ \hline 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ \hline 0 \\ 0 \\ \hline 2 \\ \hline \mathbb{Z}_3 \\ \hline 0 \\ \hline 2 \\ \hline \mathbb{Z}_3 \\ \hline 0 \\ 2 \\ \hline 2 \\ 2 \\ \hline 2 \\ \hline 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\$	(000)   (000	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0\\ 0\\ 0\\ 150.27\\ 3^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 156.5\\ 3^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 1 \\ 0 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$ $\begin{array}{c} -1 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$ $\begin{array}{c} -1 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$ $\begin{array}{c} -1 \\ 0 \\ \end{array}$ $\begin{array}{c} -0 \\ 0 \\ \end{array}$	$i$ $0$ $1$ Classification = $\mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3C}$ $Classification = \mathbb{Z} \times \mathbb{Z}_2 X_{BS} = \mathbb{Z}_3 SI = z_{3C} i i i i i i i i i i$	
$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 2 \\ \hline \mathbb{Z}_3 \\ 0 \\ \hline 2 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ \hline 2 \\ \hline \end{array} $	(000)   (000)   (000)   (000)   (001)   (002)   (001)   (002)   (001)   (002)   (001)   (002)   (001)   (002)   (003	$     \begin{cases}       1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\       0 \\       1     $ $       149.23 \\       3^{001} \\       0 \\       0 \\       0     $ $       0     $	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ \hline 0 \\ 0 \\$	$i$ $0$ $1$ $Classification = \mathbb{Z} \times \mathbb{Z}_2  X_{BS} = \mathbb{Z}_3  SI = z_{3C}$ $Classification = \mathbb{Z} \times \mathbb{Z}_2  X_{BS} = \mathbb{Z}_3  SI = z_{3C}$ $n'1  Classification = \mathbb{Z}  X_{BS} = \mathbb{Z}_3  SI = z_{3C}$ $m'  Classification = \mathbb{Z}  X_{BS} = \mathbb{Z}_3  SI = z_{3C}$	
$\begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ \hline 0 \\ 0 \\ 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 0 \\ 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ 0 \\ 2 \\ \hline 1 \\ \hline \end{array}$	(000)   (000	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 1\\ 49.23\\ 3^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ \hline 0 \\ 0 \\$	$i$ $0$ $1$ $Classification = \mathbb{Z} \times \mathbb{Z}_2  X_{BS} = \mathbb{Z}_3  SI = z_{3C}$ $Classification = \mathbb{Z} \times \mathbb{Z}_2  X_{BS} = \mathbb{Z}_3  SI = z_{3C}$ $n'1  Classification = \mathbb{Z}  X_{BS} = \mathbb{Z}_3  SI = z_{3C}$ $m'  Classification = \mathbb{Z}  X_{BS} = \mathbb{Z}_3  SI = z_{3C}$	
$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ \hline 0 \\ 0 \\ \hline 2 \\ \hline 1 \\ \hline \mathbb{Z}_3 \\ \hline 0 \\ 0 \\ \hline 2 \\ \hline \mathbb{Z}_3 \\ \hline 0 \\ \hline 2 \\ \hline \mathbb{Z}_3 \\ \hline 0 \\ 2 \\ \hline 2 \\ 2 \\ \hline 2 \\ \hline 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\$	(000)   (000	$ \begin{array}{c} \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 1\\ 149.23\\ 3^{001}\\ 0\\ 0\\ 0\\ 0\\ 150.27\\ 3^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 156.5\\ 3^{001}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 3^{001} \\ 0 \\ 0 \\ \hline 0 \\ 0 \\$	$i$ $0$ $1$ $Classification = \mathbb{Z} \times \mathbb{Z}_2  X_{BS} = \mathbb{Z}_3  SI = z_{3C}$ $Classification = \mathbb{Z} \times \mathbb{Z}_2  X_{BS} = \mathbb{Z}_3  SI = z_{3C}$ $n'1  Classification = \mathbb{Z}  X_{BS} = \mathbb{Z}_3  SI = z_{3C}$ $m'  Classification = \mathbb{Z}  X_{BS} = \mathbb{Z}_3  SI = z_{3C}$	

0	$(00\overline{6})$	0	3							
$\frac{1}{2}$	$(00\overline{2})$	0	$\frac{1}{2}$							
2	$(00\overline{4})$	0	2							
		$\frac{159.6}{3^{001}}$		Classif	$ication = \mathbb{Z}$	$Z = X_{BS} =$	$=\mathbb{Z}_3$	SI = z	3C	
$\mathbb{Z}_3$	weak		$g_{00\frac{1}{2}}^{010}*$							
0	(006)	0	3							
2	(002)	0	1							
1	(004)	0	2							
		162.73	$P\bar{3}1m$	Classifi	$cation = \mathbb{Z}$	$_{M}$ $X_{BS}$	$=\mathbb{Z}_2$	SI =	$z_{2P}'$	
$\mathbb{Z}_2$	weak	3001	$2^{120}$	i	$Cm_{(2)}^{100}$					
0	(000)	0	0	0	$2\overline{2}$					
0	(000)	0	0	0	$2\overline{2}$					
1	(000)	0	0	1	11					
				ssificatio	$\mathrm{on}=\mathbb{Z} imes\mathbb{Z}_2$	$_{ m 2}$ ${ m X}_{ m BS}$ :	$=\mathbb{Z}_{6,4}$	SI =	$z_{6C}, z_{4P}$	
$\mathbb{Z}_{6,4}$	weak	$3^{001}$	2 <sup>120</sup> *	i						
00	(006)	0	0	0						
00	(000)	0	0	0						
02 10	(000)	0	0	0						
$\frac{10}{12}$	(001)	0	1	1						
$\frac{12}{20}$	(001)	0	0	0						
$\frac{20}{22}$	(002)	0	1	1						
30	(003)	0	0	0						
32	(003)	0	1	1						
40	(004)	0	0	0						
42	(004)	0	1	1						
50	(005)	0	0	0						
52	(005)	0	1	1						
		162.78	$\frac{P_c\bar{3}1m}{3^{001}}$	Classifi	$cation = \mathbb{Z}$	$M X_{BS}$	$=\mathbb{Z}_2$	SI =	$z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$		$2^{120}$		$Cm_{\underline{(2)}}^{100}$				
0	(000)	0	0	0	0	$\frac{22}{2}$				
0	(000)	0	0	0	0	$\frac{2\overline{2}}{1\overline{1}}$				
1	(000)	1						~=	,	
	1	$\frac{163.79}{3^{001}}$			$cation = \mathbb{Z}_2$	$_{2}$ $X_{\mathrm{BS}}$	$=\mathbb{Z}_2$	SI = z	2P	
$\mathbb{Z}_2$	weak		$2^{120}_{00\frac{1}{2}}$	i						
0	(000)	0	0	0						
1	(000)	0	0	1						
		$\frac{3.83}{2.001}P\bar{3}1$	c' Classi		$= \mathbb{Z} \times \mathbb{Z}_2$	$X_{BS} = Z$	$\mathbb{Z}_{3,4}$ S	$SI = z_6$	$_{C,\pi}/2,z_{4}$	P
$\mathbb{Z}_{3,4}$	weak	$3^{001}$	$2^{120}_{00\frac{1}{2}}*$	i						
00	$(00\overline{6})$	0	1	0						
00	(000)	0	0	0						
02	(000)	0	1	1						
$\frac{20}{22}$	$(00\overline{2})$	0	0	$\frac{0}{1}$						
$\frac{22}{10}$	$(00\overline{2})$ $(00\overline{4})$	0	0	0						
$\frac{10}{12}$	(004) $(004)$	0	1	1						
	1 (004)				$ication = \mathbb{Z}$	. V	_ 7	CT .	<del>,</del>	
$-\mathbb{Z}_2$	weak	$\frac{163.84}{\{1 00\frac{1}{2}\}*}$	$\frac{4 P_c 31c}{3^{001}}$	$\frac{\text{Classin}}{2^{120}}*$	$\frac{\text{cation} = \mathbb{Z}}{i}$	2 ABS	<i>—</i> ∠2	SI = z	$^{2}P$	
$\frac{2}{0}$	(000)	$\frac{1100\overline{2}f^*}{0}$	0	0	0					
$\frac{0}{1}$	(000)	1	0	1	1					
	1 ( /	164.85			$cation = \mathbb{Z}$	M XDG	= 7.0	SI =	2/2 D	
$\overline{\mathbb{Z}_2}$	weak	3001	$\frac{1.001}{2^{100}}$	i	$Cm_{(2)}^{110}$	14 7.BS	<i></i> 2	ρ <u>ι</u> —	~2P	
$\frac{2}{0}$	(000)	0	0	0	$\frac{\overline{22}}{2\overline{2}}$					
$\frac{0}{0}$	(000)	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$					
1	(000)	0	0	1	11					
		$64.89 P\bar{3}$		ssificatio	$on = \mathbb{Z} \times \mathbb{Z}$	2 Xrs	$=\mathbb{Z}_{6,4}$	SI =	$z_{6C}, z_{4P}$	
$\mathbb{Z}_{6,4}$	weak	3001	$\frac{2^{100}}{}*$	$\frac{i}{i}$			-0,4	~-		
20.4										

00	(006)	0	0	0	
00	(000)	0	0	0	
02	(000)	0	1	1	
10	(001)	0	0	0	
12	(001)	0	1	1	
20	(002)	0	0	0	
22	(002)	0	1	1	
30	(003)	0	0	0	
32	(003)	0	1	1	
40	(004)	0	0	0	
42	(004)	0	1	1	
50	(005)	0	0	0	
52	(005)	0	1	1	
		164.90	$P_c\bar{3}m1$		sification = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	$3^{001}$	$2^{100}$	$i \qquad Cm_{(2)}^{110}$
0	(000)	0	0	0	$0   2\overline{2}$
0	(000)	0	0	0	$0   2\overline{2}$
1	(000)	1	0	0	$1   1\overline{1}$
		165.9		Classif	ification = $\mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$
$\mathbb{Z}_2$	weak	$3^{001}$	$2_{00\frac{1}{2}}^{100}$	i	
0	(000)	0	00 2	0	
$\frac{0}{1}$	(000)	0	0	1	
	/				$\mathbf{n} = \mathbb{Z} \times \mathbb{Z}_2  \mathbf{X}_{\mathrm{BS}} = \mathbb{Z}_{3,4}  \mathrm{SI} = z_{6C,\pi}/2, z_{4P}$
77	weak	$\frac{105.95 P3c}{3001}$		incation i	$\Pi = \mathbb{Z} \times \mathbb{Z}_2$ $\Lambda_{BS} = \mathbb{Z}_{3,4}$ $\mathfrak{I} = \mathcal{Z}_{6C,\pi}/2, \mathcal{Z}_{4P}$
$\mathbb{Z}_{3,4}$			$2^{100}_{00\frac{1}{2}}*$		
00	(006)	0	1	0	
00	(000)	0	0	0	
02	(000)	0	1	1	
10	(002)	0	1	0	
12	(002)	0	0	1	
20	(004)	0	0	0	
22	(004)	0	1	1	
		165.96	$\frac{1}{2} P_c \bar{3} c 1$		sification = $\mathbb{Z}_2$ $X_{\mathrm{BS}} = \mathbb{Z}_2$ $\mathrm{SI} = z'_{2P}$
$\mathbb{Z}_2$	weak	$\{1 00\frac{1}{2}\}*$	3001	$2^{100}*$	·
0	(000)		0	0	0
		0			
1	(000)	0	0	1	1
		1 166.97	$0$ $7 R\bar{3}m$	1	$\frac{1}{\text{fication} = \mathbb{Z}_M  X_{\text{BS}} = \mathbb{Z}_2  \text{SI} = z_{2P}'}$
$\frac{1}{\mathbb{Z}_2}$		1	0	1	fication = $\mathbb{Z}_M$ $X_{\rm BS} = \mathbb{Z}_2$ $SI = z_{2P}'$ $Cm_{(2)}^{210}$
	(000)	1 166.97	$0$ $7 R\bar{3}m$	1 Classifi	1
$\mathbb{Z}_2$	(000) weak	$\frac{1}{3^{001}}$	$ \begin{array}{c c} \hline 0 \\ \hline 7 & R\overline{3}m \\ \hline 2^{100} \end{array} $	$\frac{1}{i}$	fication = $\mathbb{Z}_M$ $X_{\rm BS} = \mathbb{Z}_2$ $SI = z_{2P}'$ $Cm_{(2)}^{210}$
$\frac{\mathbb{Z}_2}{0}$	(000) weak (000)	$   \begin{array}{r}     1 \\     \hline     166.97 \\     \hline     3^{001} \\     0   \end{array} $	$ \begin{array}{c c} 0 \\ \hline 7 & R\bar{3}m \\ \hline 2^{100} \\ 0 \end{array} $	$\begin{array}{c} 1 \\ \text{Classifi} \\ i \\ 0 \end{array}$	fication = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$ $Cm^{210}_{(2)}$ $2\overline{2}$
$ \begin{array}{c}                                     $	weak (000) (000) (000)	1 166.97 3 <sup>001</sup> 0 0	$ \begin{array}{c c} 0 \\ 7 & R\overline{3}m \\ 2^{100} \\ 0 \\ 0 \\ 0 \end{array} $	1 Classifi i 0 0 1	fication = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$ $Cm^{210}_{(2)}$ $2\overline{2}$ $2\overline{2}$ $1\overline{1}$
$ \begin{array}{c c} \hline \mathbb{Z}_2 \\ \hline 0 \\ \hline 0 \\ 1 \end{array} $	weak (000) (000) (000) 1	1 166.97 3 <sup>001</sup> 0 0	$ \begin{array}{c c} 0 \\ 7 & R\overline{3}m \\ 2^{100} \\ 0 \\ 0 \\ 0 \end{array} $	1 Classifi i 0 0 1	fication = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$ $Cm^{210}_{(2)}$ $2\overline{2}$ $2\overline{2}$
$ \begin{array}{c c}  & \mathbb{Z}_2 \\ \hline  & 0 \\  & 0 \\ \hline  & 1 \\ \hline  & \mathbb{Z}_{2,4} \end{array} $	weak (000) (000) (000) (000) weak	$ \begin{array}{r} 1 \\ 166.97 \\ 3^{001} \\ 0 \\ 0 \\ 0 \\ 66.101 \\ 3^{001} \end{array} $	$ \begin{array}{c c} 0 \\ 7 & R\bar{3}m \\ \hline 2^{100} \\ 0 \\ 0 \\ \hline 0 \\ 8m' & Cla \\ 2^{100} * \end{array} $	Classifi $i$ $0$ $0$ $1$ ssification $i$	fication = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$ $Cm^{210}_{(2)}$ $2\overline{2}$ $2\overline{2}$ $1\overline{1}$
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \end{array} $ $ \mathbb{Z}_{2,4} \\ 00 \\ $	weak   (000)   (000)   (000)     weak   (222)	$ \begin{array}{r} 1 \\ \hline 166.97 \\ 3^{001} \\ 0 \\ 0 \\ \hline 66.101 \\ 3^{001} \\ 0 \end{array} $	$ \begin{array}{c c} 0 \\ \hline 7 & R3m \\ \hline 2^{100} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 8m' & Cla \\ 2^{100} * \\ \hline 0 \\ \end{array} $	Classifi $i$ $0$ $0$ $1$ ssificatio $i$ $0$	fication = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$ $Cm^{210}_{(2)}$ $2\overline{2}$ $2\overline{2}$ $1\overline{1}$
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{r} 1 \\ 166.97 \\ 3^{001} \\ 0 \\ 0 \\ 0 \\ 66.101 \\ 3^{001} \end{array} $	$ \begin{array}{c c} 0 \\ 7 & R\bar{3}m \\ \hline 2^{100} \\ 0 \\ 0 \\ \hline 0 \\ 8m' & Cla \\ 2^{100} * \end{array} $	Classifi $i$ $0$ $0$ $1$ ssification $i$	fication = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$ $Cm^{210}_{(2)}$ $2\overline{2}$ $2\overline{2}$ $1\overline{1}$
	weak   (000)	$ \begin{array}{r} 1 \\ 166.97 \\ 3^{001} \\ 0 \\ 0 \\ 66.101 \\ 3^{001} \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} 0 \\ \hline 7 & R3m \\ \hline 2^{100} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 8m' & Cla \\ \hline 2^{100}* \\ \hline 0 \\ 0 \\ 1 \end{array} $	Classifi $i$ $0$ $0$ $1$ ssification $i$ $0$ $0$ $1$	fication = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$ $Cm^{210}_{(2)}$ $2\overline{2}$ $2\overline{2}$ $1\overline{1}$
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 02 \\ 10 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (111)	$ \begin{array}{r} 1 \\ 166.97 \\ 3^{001} \\ 0 \\ 0 \\ 66.101 \\ 3^{001} \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} 0 \\ \hline 7 & R3m \\ \hline 2^{100} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 8m' & Cla \\ \hline 2^{100}* \\ \hline 0 \\ 0 \\ \end{array} $	Classifi $i$ $0$ $0$ $1$ ssification $i$ $0$ $0$	fication = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$ $Cm^{210}_{(2)}$ $2\overline{2}$ $2\overline{2}$ $1\overline{1}$
	weak   (000)	$ \begin{array}{c} 1 \\ 166.97 \\ 3^{001} \\ 0 \\ 0 \\ 0 \\ 66.101 \\ 3^{001} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} 0 \\ \hline 7 & R3m \\ \hline 2^{100} \\ 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 2^{100} * \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	1 Classifi  i 0 0 1 ssificatio i 0 0 1 ssificatio 1 0 1 1	fication = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$ $Cm^{210}_{(2)}$ $2\overline{2}$ $2\overline{2}$ $1\overline{1}$ $ion = \mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ $SI = z_{2P,3}, z_{4P}$
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 02 \\ 10 \\ 12 \end{array} $	weak   (000)   (000)   (000)   (000)   (000)   (000)   (000)   (000)   (111)	$ \begin{array}{c} 1 \\ 166.97 \\ 3^{001} \\ 0 \\ 0 \\ 0 \\ 66.101 \\ 3^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 166.102 \end{array} $	$ \begin{array}{c c} 0 \\ \hline 7 & R\overline{3}m \\ \hline 2^{100} \\ 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ 2^{100} * \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 2 & R_I \overline{3}m \\ \end{array} $	1 Classifi  i 0 0 1 ssificatio i 0 0 1 Classifi Classifi  i 0 0 1 Classifi	fication = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$ $Cm^{210}_{(2)}$ $2\overline{2}$ $2\overline{2}$ $1\overline{1}$ $ion = \mathbb{Z} \times \mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_{2,4}$ $SI = z_{2P,3}, z_{4P}$ $sification = \mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z'_{2P}$
	weak   (000)   (000)   (000)   (000)   (000)   (000)   (000)   (111)   (111)   weak   weak	$ \begin{array}{r} 1 \\ \hline 166.97 \\ 3^{001} \\ 0 \\ 0 \\ \hline 66.101 \\ 3^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 166.102 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$ \begin{array}{c c} 0 \\ \hline 7 & R3m \\ \hline 2^{100} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 3m' & Cla \\ 2^{100} * \\ \hline 0 \\ 1 \\ 0 \\ 1 \\ 2 & R_I3m \\ \hline 3^{001} \end{array} $	Classifi $i$ $0$ $0$ $1$ ssification $i$ $0$ $0$ $1$ $0$ $1$ Classi $2^{100}$	fication = $\mathbb{Z}_{M}$ $X_{\mathrm{BS}} = \mathbb{Z}_{2}$ $\mathrm{SI} = z_{2P}'$ $\frac{Cm_{(2)}^{210}}{2\overline{2}}$ $2\overline{2}$ $1\overline{1}$ $\mathrm{ion} = \mathbb{Z} \times \mathbb{Z}_{2}$ $X_{\mathrm{BS}} = \mathbb{Z}_{2,4}$ $\mathrm{SI} = z_{2P,3}, z_{4P}$ $\mathrm{sification} = \mathbb{Z}_{M}$ $X_{\mathrm{BS}} = \mathbb{Z}_{2}$ $\mathrm{SI} = z_{2P}'$ $i$ $Cm_{(2)}^{210}$
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 02 \\ 10 \\ 12 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	weak   (000)   weak   (000)   (000)   (000)   weak   (222)   (000)   (111)   (111)   weak   (000)	$ \begin{array}{r} 1 \\ \hline 166.97 \\ 3^{001} \\ 0 \\ 0 \\ \hline 66.101 \\ 3^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 166.102 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 2 \\ 3 \\ 0 \\ \end{array} $	$ \begin{array}{c c} 0 \\ \hline 7 & R3m \\ \hline 2^{100} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 2^{100} * \\ \hline 0 \\ 1 \\ 0 \\ \hline 1 \\ 2 & R_I3m \\ \hline 0 \\ 0 \\ 0 \\ \end{array} $	Classifi $i$ $0$ $0$ $1$ Ssification $i$ $0$ $0$ $1$ $0$ $1$ Classi $2^{100}$ $0$	fication = $\mathbb{Z}_{M}$ $X_{\mathrm{BS}} = \mathbb{Z}_{2}$ $\mathrm{SI} = z_{2P}'$ $\frac{Cm_{(2)}^{210}}{2\overline{2}}$ $2\overline{2}$ $1\overline{1}$ $\mathrm{ion} = \mathbb{Z} \times \mathbb{Z}_{2}$ $X_{\mathrm{BS}} = \mathbb{Z}_{2,4}$ $\mathrm{SI} = z_{2P,3}, z_{4P}$ $\frac{\mathrm{sification} = \mathbb{Z}_{M}}{i} \frac{X_{\mathrm{BS}} = \mathbb{Z}_{2}}{Cm_{(2)}^{210}}$ $0 2\overline{2}$
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 02 \\ 10 \\ 12 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \end{array} $	weak   (000)   weak   (000)   (000)   (000)   (000)   (111)   (111)   weak   (000)	$ \begin{array}{r} 1 \\ 166.97 \\ 3^{001} \\ 0 \\ 0 \\ 66.101 \\ 8^{\frac{5}{2}} \\ 0 \\ 0 \\ 0 \\ 0 \\ 166.102 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c c} 0 \\ \hline 7 & R3m \\ \hline 2^{100} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 2^{100}* \\ \hline 0 \\ 0 \\ \hline 1 \\ 0 \\ \hline 2 & R_I 3m \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	Classifi $i$ $0$ $0$ $1$ ssification $i$ $0$ $0$ $1$ $0$ $1$ Classi $2^{100}$ $0$ $0$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 02 \\ 10 \\ 12 \\ \hline \mathbb{Z}_2 \\ 0 \end{array} $	weak   (000)   weak   (000)   (000)   (000)   weak   (222)   (000)   (111)   (111)   weak   (000)	$ \begin{array}{r} 1\\ \hline 166.97\\ 3^{001}\\ 0\\ 0\\ \hline 0\\ 66.101\\ 8^{\frac{1}{3}}\\ 0\\ 0\\ 0\\ \hline 0\\ 166.102\\ \hline \{1 \frac{1}{2},\frac{1}{2},\frac{1}{2}\}*\\ 0\\ 0\\ 1 \end{array} $	$\begin{array}{c} 0 \\ 7 \\ \hline R3m \\ 2^{100} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 2^{100}* \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline 0 \\ 1 \\ \hline 2 \\ R_I 3m \\ \hline 3^{001} \\ \hline 0 \\ 0 \\ \hline 0 \\ \end{array}$	Classifi $i$ $0$ $0$ $1$ ssification $i$ $0$ $0$ $1$ Classi $2^{100}$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 02 \\ 10 \\ 12 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $	weak   (000)   (000)   (000)   (000)   (000)   (000)   (111)   (111)   weak   (000)	$ \begin{array}{r} 1\\ \hline 166.97\\ 3^{001}\\ 0\\ 0\\ \hline 0\\ 66.101\\ 8^{\frac{5}{2}}\\ \hline 0\\ 0\\ 0\\ \hline 0\\ 166.102\\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 1\\ \hline 167.10 $	$\begin{array}{c c} 0 \\ \hline 7 & R3m \\ \hline 2^{100} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 3m' & Cla \\ \hline 2^{100}* \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 2 & R_I 3m \\ \hline 3^{001} \\ \hline 0 \\ \hline \end{array}$	Classifi $i$ $0$ $0$ $1$ ssification $i$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ Classifi	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 02 \\ 10 \\ 12 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 \end{array} $	weak   (000)   weak   (000)   (000)   (000)   (000)   (111)   (111)   weak   (000)	$ \begin{array}{r} 1\\ \hline 166.97\\ 3^{001}\\ 0\\ 0\\ \hline 0\\ 66.101\\ 8^{\frac{1}{3}}\\ 0\\ 0\\ 0\\ \hline 0\\ 166.102\\ \hline \{1 \frac{1}{2},\frac{1}{2},\frac{1}{2}\}*\\ 0\\ 0\\ 1 \end{array} $	$\begin{array}{c} 0 \\ 7 \\ \hline R3m \\ 2^{100} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 2^{100}* \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline 0 \\ 1 \\ \hline 2 \\ R_I 3m \\ \hline 3^{001} \\ \hline 0 \\ 0 \\ \hline 0 \\ \end{array}$	Classifi $i$ $0$ $0$ $1$ ssification $i$ $0$ $0$ $1$ Classi $2^{100}$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 02 \\ 10 \\ 12 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \end{array} $	weak   (000)   (000)   (000)   (000)   (000)   (000)   (111)   (111)   weak   (000)	$ \begin{array}{r} 1\\ \hline 166.97\\ 3^{001}\\ 0\\ 0\\ \hline 0\\ 66.101\\ 8^{\frac{5}{2}}\\ \hline 0\\ 0\\ 0\\ \hline 0\\ 166.102\\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 1\\ \hline 167.10 $	$\begin{array}{c c} 0 \\ \hline 7 & R3m \\ \hline 2^{100} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 3m' & Cla \\ \hline 2^{100}* \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 2 & R_I 3m \\ \hline 3^{001} \\ \hline 0 \\ \hline \end{array}$	Classifi $i$ $0$ $0$ $1$ ssification $i$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ Classifi	
$ \begin{array}{c c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 02 \\ 10 \\ 12 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \end{array} $	weak   (000)   (000)   (000)   (000)   (000)   (111)   (111)   (111)   (000)	$ \begin{array}{r} 1\\ \hline 166.97\\ 3^{001}\\ \hline 0\\ 0\\ \hline 0\\ 66.101\\ 8^{\frac{1}{2}}\\ 0\\ 0\\ 0\\ \hline 0\\ 166.102\\ \hline 166.102\\ \hline 11 & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ 0\\ 0\\ 1\\ 167.10\\ 3^{001} \end{array} $	$\begin{array}{c} 0 \\ 7  R3m \\ \hline 2^{100} \\ 0 \\ \hline 2^{100}* \\ \hline 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 2  R_I 3m \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	Classifi $i$ $0$ $0$ $1$ $0$ $0$ $1$ $0$ $0$ $1$ $0$ $0$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	

167.107  $R\bar{3}c'$  Classification =  $\mathbb{Z} \times \mathbb{Z}_2$   $X_{BS} = \mathbb{Z}_4$   $SI = z_{4P}$ 

-		- 001	- 100						
$\mathbb{Z}_4$	weak	$3^{001}$	$2^{100}_{00\frac{1}{2}}*$	i					
0	(000)	0	0	0					
0	(222)	0	1	0					
$\frac{}{2}$	(000)	0	1	1					
	(000)		100 D 2	C1:C	4: 7	77	V 77	CT ./	
F77		167.		2 <sup>100</sup> *	cation = 2	$\mathbb{Z}_2$	$\Lambda_{\mathrm{BS}} = \mathbb{Z}$	$SI = z'_{2I}$	
$\mathbb{Z}_2$		$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}$			i				
0	(000)	0	0	0	0				
1	(000)	1	0	1	1				
		168	8.109 P6	Classific	$cation = \mathbb{Z}$	Z 2	$X_{BS} = \mathbb{Z}_6$	$SI = z_{6C}$	
$\mathbb{Z}_6$	weak	$6^{001}$					20 0		
$\frac{-6}{0}$	$(00\overline{6})$	0							
5	(000)	0							
$\frac{4}{2}$	$(00\overline{2})$	0							
3	$(00\overline{3})$	0							
2	$(00\overline{4})$	0							
1	$(00\bar{5})$	0							
			$.121  ext{ } P6_2$	Classifi	cation = 2	$\mathbb{Z}$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2C}$	
$\mathbb{Z}_2$	weak	$6_{00\frac{1}{3}}^{001}$							
0	$(00\overline{6})$	$\frac{\overline{3}}{2}$							
$\frac{0}{1}$	$(00\overline{3})$	$\frac{2}{1}$							
	(000)							O.T.	
			$P6_4$	Classifi	cation = 2	<u></u>	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2C}$	
$\overline{\mathbb{Z}_2}$	weak	$6_{00\frac{2}{3}}^{001}$							
0	$(00\overline{6})$	$\frac{3}{4}$							
1	$(00\overline{3})$	2							
	()		$8.129   P6_3$	Cleasif	cation = 2	77	V 7	$SI = z_{3C}$	
-77	1.		0.129 F 03	Ciassiii		<u> </u>	$\Lambda_{\rm BS} - \mathbb{Z}_3$	$51 - z_{3C}$	
$\mathbb{Z}_3$	weak	$6^{001}_{00\frac{1}{2}}$							
0	$(00\overline{6})$	3							
1	$(00\overline{2})$	1							
2	$(00\overline{4})$								
	(004)	$\overline{2}$							
			Classificati	on $= 7^{2}$	. y 7. Y	DG =	- 7.2.2. 9	$I = z^+$	<del></del>
	174.13	$3 P\bar{6}$	Classificati	on = $\mathbb{Z}_{M}^{2}$	$f \times \mathbb{Z} = X_1$	BS =	= Z <sub>3,3,3</sub> S	$\mathrm{SI}=z_{3m,0}^+,z_{2m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\mathbb{Z}_{3,3,3}$	174.13 weak	$\frac{3 P\bar{6}}{\bar{6}^{001}}$	$Cm_{(3)}^{001}$	on $= \mathbb{Z}_N^2$	$\mathbf{x} \times \mathbb{Z} = \mathbf{X}$	<sub>BS</sub> =	= Z <sub>3,3,3</sub> S	$\mathrm{SI}=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\mathbb{Z}_{3,3,3}$ 000	$ \begin{array}{c c} \hline 174.13 \\ \text{weak} \\ \hline (00\overline{6}) \end{array} $	$ \frac{3  P\bar{6}}{\bar{6}^{001}} $	$\frac{Cm_{(3)}^{001}}{3\overline{9}0\overline{6}}$	on = $\mathbb{Z}_N^2$	$_{!}$ $\times$ $\mathbb{Z}$ $X_{!}$	<sub>BS</sub> =	= Z <sub>3,3,3</sub> S	$\mathrm{II}=z_{3m,0}^+,z_{2m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
	$174.13$ $  weak   (00\overline{6})   (003)$		$ \begin{array}{c} Cm_{(3)}^{001} \\ \hline 390\overline{6} \\ 0303 \end{array} $	on = $\mathbb{Z}_N^2$	$f \times \mathbb{Z} = X_1$	BS =	= Z <sub>3,3,3</sub> S	$\mathrm{d} \mathrm{I} = z_{3m,0}^+, z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$ \begin{array}{c c} \mathbb{Z}_{3,3,3} \\ 000 \\ 000 \\ 000 \end{array} $	$   \begin{array}{c c}     \hline                                $	$ \frac{3  P\overline{6}}{\overline{6}^{001}} $ $ \frac{1}{1} $ $ \frac{1}{1} $	$ \begin{array}{r} Cm_{(3)}^{001} \\ \hline 3\overline{906} \\ 0303 \\ \hline 003\overline{3} \end{array} $	on $= \mathbb{Z}_{\mathbb{A}}^2$	$\mathbf{x} \times \mathbf{Z} = \mathbf{X}$	BS =	= Z <sub>3,3,3</sub> S	$\mathrm{TI}=z_{3m,0}^+,z_{2m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$ \begin{array}{c c} \mathbb{Z}_{3,3,3} \\ 000 \\ 000 \\ 000 \\ 000 \end{array} $	174.13   weak   (006)   (003)   (000)   (000)	$ \begin{array}{c c} 3 & P\bar{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \end{array} $	$ \begin{array}{c} Cm_{(3)}^{001} \\ \overline{3906} \\ 0303 \\ \hline 003\overline{3} \\ 00\overline{3}3 \end{array} $	on = $\mathbb{Z}_N^2$	$_{r}\times\mathbb{Z}$ $X_{r}$	BS =	= Z <sub>3,3,3</sub> S	$\mathrm{II}=z_{3m,0}^+,z_{2m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$ \begin{array}{c c} \mathbb{Z}_{3,3,3} \\ 000 \\ 000 \\ 000 \\ 000 \\ 001 \end{array} $	174.13 weak (006) (003) (000) (000) (000)	$ \begin{array}{c c} \hline 3 & P\bar{6} \\ \hline 6^{001} \\ \hline 1 \\ 1 \\ 1 \\ 1 \end{array} $	$\begin{array}{c} Cm_{(3)}^{001} \\ \hline 3\overline{9}06 \\ \hline 0303 \\ \hline 003\overline{3} \\ \hline 00\overline{3}3 \\ \hline 001\overline{1} \\ \end{array}$	on = $\mathbb{Z}_N^2$	$f \times \mathbb{Z}$ $X_{ij}$	BS =	= Z <sub>3,3,3</sub> S	$\Pi=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \mathbb{Z}_{3,3,3} \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 001 \\ 002 \\ \end{array}$	174.13 weak (006) (003) (000) (000) (000) (000)	$ \begin{array}{c c} 3 & P\bar{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} Cm_{(3)}^{001} \\ \hline 3906 \\ \hline 0303 \\ \hline 003\overline{3} \\ \hline 00\overline{3}\overline{3} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \end{array}$	on = $\mathbb{Z}_M^2$	$\chi \times \mathbb{Z}$ X	BS =	= Z <sub>3,3,3</sub> S	$\Pi=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \mathbb{Z}_{3,3,3} \\ 000 \\ 000 \\ 000 \\ 000 \\ 001 \\ 002 \\ 010 \\ \end{array}$	174.13 weak (006) (003) (000) (000) (000) (000) (001)	$ \begin{array}{c c} 3 & P\bar{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} Cm^{001}_{(3)} \\ \hline 3906 \\ \hline 0303 \\ \hline 003\overline{3} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 0101 \\ \end{array}$	on $= \mathbb{Z}_{N}^{2}$	$\chi \times \mathbb{Z}$ X	BS =	= Z <sub>3,3,3</sub> S	$\Pi=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ \hline 000 \\ \hline 000 \\ \hline 001 \\ \hline 002 \\ \hline 010 \\ \hline 011 \\ \hline \end{array}$	174.13 weak (006) (003) (000) (000) (000) (000) (000) (001) (001)	$ \begin{array}{c c} 3 & P\bar{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} Cm^{001}_{(3)} \\ \hline 3906 \\ \hline 0303 \\ \hline 003\overline{3} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 0101 \\ \hline 0110 \\ \end{array}$	on = $\mathbb{Z}_N^2$	$_{7} \times \mathbb{Z}$ $X_{3}$	BS =	= Z <sub>3,3,3</sub> S	$\mathrm{H}=z_{3m,0}^+,z_{2m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 000 \\ \hline 001 \\ \hline 002 \\ \hline 010 \\ \hline 011 \\ \hline 012 \\ \hline \end{array}$	174.13 weak (006) (003) (000) (000) (000) (000) (001) (001)	$ \begin{array}{c c} 3 & P\overline{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} Cm^{001}_{(3)} \\ \hline 3906 \\ \hline 0303 \\ \hline 003\overline{3} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 0101 \\ \hline 012\overline{1} \\ \hline \end{array}$	on = $\mathbb{Z}_N^2$	$_{7} \times \mathbb{Z}$ $X$	BS =	= Z <sub>3,3,3</sub> S	$\mathrm{H}=z_{3m,0}^+,z_{2m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 001 \\ \hline 002 \\ \hline 010 \\ \hline 011 \\ \hline 012 \\ \hline 020 \\ \hline \end{array}$	174.13 weak (006) (003) (000) (000) (000) (000) (000) (001) (001)	$ \begin{array}{c c} 3 & P\bar{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} Cm^{001}_{(3)} \\ \hline 3906 \\ \hline 0303 \\ \hline 003\overline{3} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 0202 \\ \end{array}$	on = $\mathbb{Z}_N^2$	$_{7} \times \mathbb{Z}$ $X$	BS =	= Z <sub>3,3,3</sub> S	$\mathrm{H}=z_{3m,0}^+,z_{2m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 001 \\ \hline 002 \\ \hline 010 \\ \hline 011 \\ \hline 012 \\ \hline 020 \\ \hline 021 \\ \hline \end{array}$	174.13 weak (006) (003) (000) (000) (000) (000) (001) (001)	$ \begin{array}{c c} 3 & P\overline{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} Cm^{001}_{(3)} \\ \hline 3906 \\ \hline 0303 \\ \hline 003\overline{3} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 0101 \\ \hline 012\overline{1} \\ \hline \end{array}$	on = $\mathbb{Z}_N^2$	$_{7} \times \mathbb{Z}$ $X$	BS =	= Z <sub>3,3,3</sub> S	$\mathrm{H}=z_{3m,0}^+,z_{2m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 001 \\ \hline 002 \\ \hline 010 \\ \hline 011 \\ \hline 012 \\ \hline 020 \\ \hline \end{array}$	174.13 weak (006) (003) (000) (000) (000) (000) (001) (001) (001) (002)	$ \begin{array}{c c} 3 & P\overline{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} Cm^{001}_{(3)} \\ \hline 3906 \\ \hline 0303 \\ \hline 003\overline{3} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 0202 \\ \end{array}$	$\mathrm{on}=\mathbb{Z}_N^2$	$_{7} \times \mathbb{Z}$ $X$	BS =	= Z <sub>3,3,3</sub> S	$\mathrm{H}=z_{3m,0}^+,z_{2m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 001 \\ \hline 002 \\ \hline 010 \\ \hline 011 \\ \hline 012 \\ \hline 020 \\ \hline 021 \\ \hline \end{array}$	174.13 weak (006) (003) (000) (000) (000) (000) (001) (001) (001) (002) (002)	$ \begin{array}{c c} 3 & P\overline{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} Cm^{001}_{(3)} \\ \hline 3906 \\ \hline 0303 \\ \hline 003\overline{3} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 0202 \\ \hline 0211 \\ \end{array}$	$on = \mathbb{Z}_N^2$	$_{7} \times \mathbb{Z}$ $X$	BS =	= Z <sub>3,3,3</sub> S	$\Pi=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 001 \\ 002 \\ \hline 010 \\ 011 \\ \hline 012 \\ 020 \\ 021 \\ 022 \\ 100 \\ \hline \end{array}$	174.13 weak (006) (003) (000) (000) (000) (000) (001) (001) (001) (002) (002) (002)	$ \begin{array}{c c} 3 & P\overline{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} Cm^{001}_{(3)} \\ \hline 3906 \\ \hline 0303 \\ \hline 0033 \\ \hline 0011 \\ \hline 0022 \\ \hline 0101 \\ \hline 0110 \\ \hline 0121 \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 1302 \\ \end{array}$	on = $\mathbb{Z}_N^2$	$\chi \times \mathbb{Z} = X$	BS =	= Z <sub>3,3,3</sub> S	$\Pi=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 001 \\ 002 \\ \hline 010 \\ \hline 011 \\ 012 \\ \hline 020 \\ \hline 021 \\ \hline 022 \\ 100 \\ \hline 101 \\ \end{array}$	174.13 weak (006) (003) (000) (000) (000) (001) (001) (001) (002) (002) (002) (002)	$ \begin{array}{c c} 3 & P\overline{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} Cm^{001}_{(3)} \\ \hline 3906 \\ \hline 0303 \\ \hline 003\overline{3} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 0101 \\ \hline 012\overline{1} \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 1\overline{3}0\overline{2} \\ \hline 1\overline{3}1\overline{3} \\ \end{array}$	$on = \mathbb{Z}_N^2$	$\chi \times \mathbb{Z} = X$	BS =	= Z <sub>3,3,3</sub> S	$\mathbf{H}=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \mathbb{Z}_{3,3,3} \\ 000 \\ 000 \\ 000 \\ 000 \\ 001 \\ 002 \\ 010 \\ 011 \\ 012 \\ 020 \\ 021 \\ 022 \\ 100 \\ 101 \\ 102 \\ \end{array}$	174.13 weak (006) (003) (000) (000) (000) (001) (001) (001) (002) (002) (002) (002) (002)	$ \begin{array}{c c} 3 & P\overline{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Cm^{001}_{(3)}\\ \hline 3906\\ \hline 0303\\ \hline 003\overline{3}\\ \hline 001\overline{1}\\ \hline 002\overline{2}\\ \hline 0101\\ \hline 012\overline{1}\\ \hline 0202\\ \hline 0211\\ \hline 0220\\ \hline 1\overline{3}0\overline{2}\\ \hline 1\overline{3}1\overline{3}\\ \hline 1\overline{3}2\overline{4}\\ \hline \end{array}$	on = $\mathbb{Z}_N^2$	$\chi \times \mathbb{Z} = X$	BS =	= Z <sub>3,3,3</sub> S	$\Pi=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 001 \\ \hline 002 \\ \hline 010 \\ \hline 011 \\ \hline 012 \\ \hline 020 \\ \hline 021 \\ \hline 022 \\ \hline 100 \\ \hline 101 \\ \hline 102 \\ \hline 110 \\ \hline \end{array}$	174.13 weak (006) (003) (000) (000) (000) (001) (001) (001) (002) (002) (002) (002) (002) (002) (002) (001)	$ \begin{array}{c c} 3 & P\overline{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Cm^{001}_{(3)}\\ \hline 3906\\ \hline 0303\\ \hline 003\overline{3}\\ \hline 007\\ \hline 007\\ \hline 007\\ \hline 007\\ \hline 017\\ \hline 017\\ \hline 017\\ \hline 0202\\ \hline 021\\ \hline 0202\\ \hline 0211\\ \hline 0220\\ \hline 1302\\ \hline 131\overline{3}\\ \hline 132\overline{4}\\ \hline 120\overline{1}\\ \hline \end{array}$	$on = \mathbb{Z}_N^2$	$\chi \times \mathbb{Z} = X$	BS =	= Z <sub>3,3,3</sub> S	$\mathbf{H}=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \mathbb{Z}_{3,3,3} \\ 000 \\ 000 \\ 000 \\ 000 \\ 001 \\ 002 \\ 010 \\ 011 \\ 012 \\ 020 \\ 021 \\ 022 \\ 100 \\ 101 \\ 102 \\ 110 \\ 111 \\ \end{array}$	174.13 weak (006) (003) (000) (000) (000) (001) (001) (001) (002) (002) (002) (002) (002) (002) (002) (001) (001)	$ \begin{array}{c c} 3 & P\overline{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Cm^{001}_{(3)}\\ \hline 3906\\ \hline 0303\\ \hline 003\overline{3}\\ \hline 007\\ \hline 007\\ \hline 007\\ \hline 007\\ \hline 017\\ \hline 017\\ \hline 017\\ \hline 0202\\ \hline 0201\\ \hline 0202\\ \hline 0211\\ \hline 0202\\ \hline 0211\\ \hline 0220\\ \hline 1302\\ \hline 1313\\ \hline 1324\\ \hline 1207\\ \hline 1212\\ \hline \end{array}$	$on = \mathbb{Z}_N^2$	$\chi \times \mathbb{Z} = X$	BBS =	= Z <sub>3,3,3</sub> S	$\Pi=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \mathbb{Z}_{3,3,3} \\ 000 \\ 000 \\ 000 \\ 000 \\ 001 \\ 002 \\ 010 \\ 011 \\ 012 \\ 020 \\ 021 \\ 022 \\ 100 \\ 101 \\ 102 \\ 110 \\ 111 \\ 112 \\ \end{array}$	174.13 weak (006) (003) (000) (000) (000) (001) (001) (001) (002) (002) (002) (002) (002) (002) (001) (001) (001) (001)	$ \begin{array}{c c} 3 & P\overline{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Cm^{001}_{(3)}\\ \hline 3906\\ \hline 0303\\ \hline 003\overline{3}\\ \hline 007\\ \hline 007\\ \hline 007\\ \hline 007\\ \hline 007\\ \hline 007\\ \hline 017\\ \hline 017\\ \hline 017\\ \hline 0202\\ \hline 021\\ \hline 0202\\ \hline 0211\\ \hline 0220\\ \hline 130\overline{2}\\ \hline 137\\ \hline 1324\\ \hline 120\overline{1}\\ \hline 121\overline{2}\\ \hline 122\overline{3}\\ \hline \end{array}$	$on = \mathbb{Z}_N^2$	$_{7} \times \mathbb{Z}$ $X$	BBS =	= Z <sub>3,3,3</sub> S	$\mathrm{H}=z_{3m,0}^+,z_{2m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \mathbb{Z}_{3,3,3} \\ 000 \\ 000 \\ 000 \\ 000 \\ 001 \\ 002 \\ 010 \\ 011 \\ 012 \\ 020 \\ 021 \\ 022 \\ 100 \\ 101 \\ 102 \\ 110 \\ 111 \\ 112 \\ 120 \\ \end{array}$	174.13 weak (006) (003) (000) (000) (000) (001) (001) (001) (002) (002) (002) (002) (002) (001) (001) (001) (001) (001) (000)	$ \begin{array}{c c} 3 & P\overline{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Cm^{001}_{(3)}\\ \hline 3906\\ \hline 0303\\ \hline 003\overline{3}\\ \hline 001\overline{1}\\ \hline 002\overline{2}\\ \hline 0101\\ \hline 0110\\ \hline 012\overline{1}\\ \hline 0202\\ \hline 0211\\ \hline 0220\\ \hline 1\overline{3}0\overline{2}\\ \hline 1\overline{3}1\overline{3}\\ \hline 1\overline{3}2\overline{4}\\ \hline 1\overline{2}0\overline{1}\\ \hline 1\overline{2}1\overline{2}\\ \hline 1\overline{1}00\\ \\ \end{array}$	$on = \mathbb{Z}_N^2$	$_{7} \times \mathbb{Z}$ $X$	BBS =	= Z <sub>3,3,3</sub> S	$\mathrm{H}=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \mathbb{Z}_{3,3,3} \\ 000 \\ 000 \\ 000 \\ 000 \\ 001 \\ 002 \\ 010 \\ 011 \\ 012 \\ 020 \\ 021 \\ 022 \\ 100 \\ 101 \\ 102 \\ 110 \\ 111 \\ 112 \\ 120 \\ 121 \\ \end{array}$	$ \begin{array}{c c} \hline 174.13 \\ \hline \text{weak} \\ \hline (00\overline{6}) \\ \hline (003) \\ \hline (000) \\ \hline (000) \\ \hline (000) \\ \hline (000) \\ \hline (001) \\ \hline (001) \\ \hline (002) \\ \hline (001) \\ \hline (000) \\ \hline (000) \\ \hline (000) \\ \hline \end{array} $	$ \begin{array}{c c} 3 & P\overline{6} \\ \hline 6^{001} \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Cm^{001}_{(3)}\\ \hline 3906\\ \hline 0303\\ \hline 003\overline{3}\\ \hline 001\overline{1}\\ \hline 002\overline{2}\\ \hline 0101\\ \hline 0110\\ \hline 012\overline{1}\\ \hline 0202\\ \hline 0211\\ \hline 0220\\ \hline 1\overline{3}0\overline{2}\\ \hline 1\overline{3}1\overline{3}\\ \hline 1\overline{3}2\overline{4}\\ \hline 1\overline{2}0\overline{1}\\ \hline 1\overline{2}1\overline{2}\\ \hline 1\overline{2}00\\ \hline 1\overline{1}10\\ \hline \end{array}$	$on = \mathbb{Z}_N^2$	$_{7} \times \mathbb{Z}$ $X$	BBS =	= Z <sub>3,3,3</sub> S	$\mathrm{H}=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 001 \\ \hline 002 \\ \hline 010 \\ \hline 011 \\ \hline 012 \\ 020 \\ \hline 021 \\ \hline 022 \\ 100 \\ \hline 101 \\ 102 \\ 110 \\ \hline 111 \\ 112 \\ 120 \\ \hline 121 \\ 122 \\ \hline \end{array}$	174.13 weak (006) (003) (000) (000) (000) (001) (001) (001) (002) (002) (002) (002) (002) (001) (001) (001) (001) (001) (001) (000) (000)	$ \begin{array}{c c} 3 & P\bar{6} \\ \hline \hline 6^{001} \\ \hline 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} Cm^{001}_{(3)} \\ \hline 3906 \\ \hline 0303 \\ \hline 003\overline{3} \\ \hline 000\overline{3} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 1\overline{3}0\overline{2} \\ \hline 1\overline{3}1\overline{3} \\ \hline 1\overline{3}2\overline{4} \\ \hline 1\overline{2}0\overline{1} \\ \hline 1\overline{2}1\overline{2} \\ \hline 1\overline{2}2\overline{3} \\ \hline 1\overline{1}00 \\ \hline 1\overline{1}1\overline{1} \\ \hline 1\overline{1}2\overline{2} \\ \hline \end{array}$	$on = \mathbb{Z}_N^2$	$_{7} \times \mathbb{Z}$ $X$	BS =	= Z <sub>3,3,3</sub> S	$\Pi=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 001 \\ 002 \\ \hline 010 \\ 011 \\ \hline 012 \\ 020 \\ 021 \\ \hline 022 \\ 100 \\ 101 \\ 102 \\ 110 \\ 111 \\ 112 \\ 120 \\ 121 \\ 122 \\ 200 \\ \end{array}$	174.13 weak (006) (003) (000) (000) (000) (001) (001) (001) (002) (002) (002) (002) (002) (001) (001) (001) (001) (001) (001) (001) (001) (000) (000) (000)	3 P6 6001 1 1 1 1 1 1 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c} Cm^{001}_{(3)} \\ \hline 3906 \\ \hline 0303 \\ \hline 003\overline{3} \\ \hline 000\overline{3} \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 0202 \\ \hline 0211 \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 1\overline{3}0\overline{2} \\ \hline 1\overline{3}1\overline{3} \\ \hline 1\overline{3}2\overline{4} \\ \hline 1\overline{2}0\overline{1} \\ \hline 1\overline{2}1\overline{2} \\ \hline 1\overline{2}2\overline{3} \\ \hline 1\overline{1}00 \\ \hline 1\overline{1}1\overline{1} \\ \hline 1\overline{1}2\overline{2} \\ \hline 2604 \\ \hline \end{array}$	$on = \mathbb{Z}_N^2$		BS =	= Z <sub>3,3,3</sub> S	$\Pi=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 000 \\ 001 \\ \hline 002 \\ \hline 010 \\ 011 \\ \hline 012 \\ 020 \\ \hline 021 \\ 022 \\ \hline 100 \\ 101 \\ 102 \\ 110 \\ \hline 111 \\ 112 \\ 120 \\ \hline 121 \\ 122 \\ 200 \\ \hline 201 \\ \hline \end{array}$	174.13 weak (006) (003) (000) (000) (000) (001) (001) (001) (002) (002) (002) (002) (002) (001) (001) (001) (001) (000) (000) (000) (000) (004)	3 P6 6001 1 1 1 1 1 1 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c} Cm^{001}_{(3)} \\ \hline 3906 \\ \hline 0303 \\ \hline 0033 \\ \hline 0033 \\ \hline 001\overline{1} \\ \hline 002\overline{2} \\ \hline 0101 \\ \hline 0110 \\ \hline 012\overline{1} \\ \hline 0202 \\ \hline 0211 \\ \hline 0202 \\ \hline 0211 \\ \hline 0220 \\ \hline 1302 \\ \hline 1313 \\ \hline 132\overline{4} \\ \hline 120\overline{1} \\ \hline 121\overline{2} \\ \hline 1223 \\ \hline 1\overline{1}00 \\ \hline 1\overline{1}1\overline{1} \\ \hline 1\overline{1}2\overline{2} \\ \hline 2\overline{6}0\overline{4} \\ \hline 2\overline{6}1\overline{5} \\ \hline \end{array}$	$\mathrm{on}=\mathbb{Z}_N^2$		BS =	= Z <sub>3,3,3</sub> S	$\mathrm{II}=z_{3m,0}^+,z_{2m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 000 \\ 001 \\ \hline 002 \\ \hline 010 \\ \hline 011 \\ \hline 012 \\ \hline 020 \\ \hline 021 \\ \hline 022 \\ \hline 100 \\ \hline 101 \\ \hline 102 \\ \hline 110 \\ \hline 111 \\ \hline 112 \\ \hline 120 \\ \hline 121 \\ \hline 122 \\ \hline 200 \\ \hline 201 \\ \hline 202 \\ \hline \end{array}$	$ \begin{array}{c} 174.13 \\ \text{weak} \\ (00\overline{6}) \\ (003) \\ (000) \\ (000) \\ (000) \\ (000) \\ (001) \\ (001) \\ (001) \\ (002) \\ (002) \\ (002) \\ (002) \\ (002) \\ (00\overline{2}) \\ (00\overline{1}) \\ (00\overline{1}) \\ (000) \\ (000) \\ (000) \\ (00\overline{4}) \\ (00\overline{4}) \\ (004) \\ \end{array} $	3 P6 6001 1 1 1 1 1 1 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c} Cm^{001}_{(3)}\\ \hline 3906\\ \hline 0303\\ \hline 0033\\ \hline 0033\\ \hline 001\overline{1}\\ \hline 002\overline{2}\\ \hline 0101\\ \hline 0110\\ \hline 012\overline{1}\\ \hline 0202\\ \hline 0211\\ \hline 0202\\ \hline 0211\\ \hline 0220\\ \hline 1302\\ \hline 1313\\ \hline 1324\\ \hline 120\overline{1}\\ \hline 121\overline{2}\\ \hline 1223\\ \hline 1\overline{1}00\\ \hline 1\overline{1}1\overline{1}\\ \hline 1\overline{1}2\overline{2}\\ \hline 2\overline{6}0\overline{4}\\ \hline 2\overline{6}1\overline{5}\\ \hline 2\overline{6}2\overline{6}\\ \hline \end{array}$	$on = \mathbb{Z}_N^2$		BS =	= Z <sub>3,3,3</sub> S	$\mathrm{II}=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 000 \\ 001 \\ \hline 002 \\ \hline 010 \\ \hline 011 \\ \hline 012 \\ \hline 020 \\ \hline 021 \\ \hline 022 \\ \hline 100 \\ \hline 101 \\ \hline 102 \\ \hline 110 \\ \hline 111 \\ \hline 112 \\ \hline 120 \\ \hline 201 \\ \hline 201 \\ \hline 202 \\ \hline 210 \\ \hline \end{array}$	174.13 weak (006) (003) (000) (000) (000) (001) (001) (001) (002) (002) (002) (002) (002) (001) (001) (001) (001) (001) (001) (001) (001) (001) (001) (001) (000) (000) (004) (004) (004) (003)	3 P6 6001 1 1 1 1 1 1 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c} Cm^{001}_{(3)}\\ \hline 3906\\ \hline 0303\\ \hline 0033\\ \hline 0033\\ \hline 0011\\ \hline 0022\\ \hline 0101\\ \hline 0110\\ \hline 0121\\ \hline 0202\\ \hline 0211\\ \hline 0202\\ \hline 0211\\ \hline 0220\\ \hline 1302\\ \hline 1313\\ \hline 1324\\ \hline 1201\\ \hline 1212\\ \hline 1223\\ \hline 1100\\ \hline 1111\\ \hline 1122\\ \hline 2604\\ \hline 2615\\ \hline 2626\\ \hline 2503\\ \hline \end{array}$	$on = \mathbb{Z}_N^2$		BS =	= Z <sub>3,3,3</sub> S	$\mathrm{II}=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$
$\begin{array}{c} \hline \\ \mathbb{Z}_{3,3,3} \\ \hline 000 \\ 000 \\ \hline 000 \\ 000 \\ \hline 000 \\ 001 \\ \hline 002 \\ \hline 010 \\ \hline 011 \\ \hline 012 \\ \hline 020 \\ \hline 021 \\ \hline 022 \\ \hline 100 \\ \hline 101 \\ \hline 102 \\ \hline 110 \\ \hline 111 \\ \hline 112 \\ \hline 120 \\ \hline 121 \\ \hline 122 \\ \hline 200 \\ \hline 201 \\ \hline 202 \\ \hline \end{array}$	$ \begin{array}{c} 174.13 \\ \text{weak} \\ (00\overline{6}) \\ (003) \\ (000) \\ (000) \\ (000) \\ (000) \\ (001) \\ (001) \\ (001) \\ (002) \\ (002) \\ (002) \\ (002) \\ (002) \\ (00\overline{2}) \\ (00\overline{1}) \\ (00\overline{1}) \\ (000) \\ (000) \\ (000) \\ (00\overline{4}) \\ (00\overline{4}) \\ (004) \\ \end{array} $	3 P6 6001 1 1 1 1 1 1 0 1 0 1 0 1 0 1 0 1 0	$\begin{array}{c} Cm^{001}_{(3)}\\ \hline 3906\\ \hline 0303\\ \hline 0033\\ \hline 0033\\ \hline 001\overline{1}\\ \hline 002\overline{2}\\ \hline 0101\\ \hline 0110\\ \hline 012\overline{1}\\ \hline 0202\\ \hline 0211\\ \hline 0202\\ \hline 0211\\ \hline 0220\\ \hline 1302\\ \hline 1313\\ \hline 1324\\ \hline 120\overline{1}\\ \hline 121\overline{2}\\ \hline 1223\\ \hline 1\overline{1}00\\ \hline 1\overline{1}1\overline{1}\\ \hline 1\overline{1}2\overline{2}\\ \hline 2\overline{6}0\overline{4}\\ \hline 2\overline{6}1\overline{5}\\ \hline 2\overline{6}2\overline{6}\\ \hline \end{array}$	$on = \mathbb{Z}_N^2$		BS =	= Z <sub>3,3,3</sub> S	$\mathrm{II}=z_{3m,0}^+,z_{3m,0}^+$	$z_{3m,0}^-, z_{3m,\pi}^+$

- 212	(000)	-	2525	
212	$(00\overline{3})$	1	$2\overline{5}2\overline{5}$	
220	$(00\overline{2})$	0	$\frac{2\overline{4}0\overline{2}}{2\overline{4}1\overline{2}}$	
221	(002)	1	$2\overline{4}1\overline{3}$	
	(002)	0	$2\overline{4}2\overline{4}$	
			$P_c\bar{6}$	
$\mathbb{Z}_3$		$\{1 00\frac{1}{2}\}*$	$\bar{6}^{001}$	$Cm_{(3)}^{001}$
0	(000)	1	1	3300
0	(000)	0	0	0000
1	(000)	1	1	1100
2	(000)	0	0	$2\overline{2}00$
	175.137	P6/m	Classif	fication = $\mathbb{Z}_{M}^{2} \times \mathbb{Z}$ $X_{BS} = \mathbb{Z}_{6,6,6}$ $SI = z_{6m,0}^{+}, z_{6m,0}^{-}, z_{6m,\pi}^{+}$ $Cm_{(6)}^{001}$
$\mathbb{Z}_{6,6,6}$	weak	$6^{001}$	i	$Cm_{(6)}^{001}$
000	$(00\overline{30})$	0	0	$6, \overline{36}, 0, \overline{30}$
000	(006)	0	0	0606
000	(000)	0	0	$006\overline{6}$
000	(000)	0	0	$00\overline{6}6$
001	(000)	0	1	$001\overline{1}$
002	(000)	0	0	0022
003	(000)	0	1	$003\overline{3}$
004	(000)	0	0	$004\overline{4}$
005	(000)	0	1	0055
010	(001)	0	1	0101
011	(001)	0	0	0110
012	(001)	0	1	0121
013	(001)	0	0	$013\overline{2}$
014	(001)	0	1	0143
$\frac{015}{020}$	(001)	0	0	$015\overline{4}$ $0202$
020	(002)	0	1	0202
$\frac{021}{022}$	(002)	0	0	0220
023	(002)	0	1	$023\overline{1}$
$\frac{028}{024}$	(002)	0	0	$\frac{024\overline{2}}{024\overline{2}}$
025	(002)	0	1	$025\overline{3}$
030	(003)	0	1	0303
031	(003)	0	0	0312
032	(003)	0	1	0321
033	(003)	0	0	0330
034	(003)	0	1	$034\overline{1}$
035	(003)	0	0	$035\overline{2}$
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
050 051	(005)	0	1 0	0505 0514
$\frac{051}{052}$	(005)	0	1	0523
$\frac{052}{053}$	(005)	0	0	0532
$\frac{053}{054}$	(005)	0	1	0541
055	(005)	0	0	0550
100	(005)	0	0	$\frac{3335}{1\overline{6}0\overline{5}}$
101	$(00\overline{5})$	0	1	$\frac{1\overline{6}1\overline{6}}{\overline{6}}$
102	$(00\overline{5})$	0	0	$\frac{1\overline{6}2\overline{7}}{1}$
103	$(00\overline{5})$	0	1	$1\overline{6}3\overline{8}$
104	$(00\overline{5})$	0	0	$1\overline{6}4\overline{9}$
105	$(00\overline{5})$	0	1	$1, \overline{6}, 5, \overline{10}$
110	$(00\overline{4})$	0	1	$1\overline{504}$
111	$(00\overline{4})$	0	0	$1\overline{5}1\overline{5}$
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112 (004)         0         1         1526           113 (004)         0         0         1537           114 (004)         0         0         1589           120 (003)         0         0         1403           121 (003)         0         0         1403           122 (003)         0         0         1425           123 (003)         0         0         1447           124 (003)         0         0         1447           125 (003)         0         1         1436           130 (002)         0         1         1458           130 (002)         0         1         1322           131 (002)         0         0         1313           132 (002)         0         1         1324           133 (002)         0         1         1346           133 (002)         0         1         1346           135 (002)         0         0         1337           140 (001)         0         0         1223           143 (001)         0         1 223           143 (001)         0         1 234           144 (001)         0 <td< th=""><th></th><th>T . =</th><th></th><th></th><th></th><th></th></td<>		T . =				
114   (004)	112	$(00\bar{4})$	0	1	$1\overline{5}2\overline{6}$	
115						
120   (003)		(004)	0	1		
121						
123		/ /	0	0		
123   (003)						
124   (003)	122	$(00\overline{3})$	0	0	$1\overline{4}2\overline{5}$	
125	123	$(00\bar{3})$	0	1	$1\overline{4}3\overline{6}$	
130   (002)	124	$(00\bar{3})$	0	0	$1\overline{4}4\overline{7}$	
131   (002)	125	$(00\bar{3})$	0	1	$1\overline{4}5\overline{8}$	
132   (002)	130	$(00\overline{2})$	0	1	$1\overline{3}0\overline{2}$	
132   (002)	131	$(00\overline{2})$	0	0	$1\overline{3}1\overline{3}$	
133   (002)	132	$(00\overline{2})$	0	1	$1\overline{3}2\overline{4}$	
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$ 245  (00\overline{6}) \qquad 0 \qquad 1 \qquad 2, \overline{8}, 5, \overline{11} $						
$250 \mid (005)  0  1  2705$						
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251		(00 <u>F</u> )			0717
253         (005)         0         0         2748           254         (005)         0         1         2749           255         (005)         0         0         2,7,5,10           300         (0015)         0         0         3,18,1,16           302         (0015)         0         0         3,18,1,16           302         (0015)         0         0         3,18,3,18           304         (0015)         0         0         3,18,4,19           305         (0015)         0         0         3,18,4,19           305         (0015)         0         1         3,17,0,14           311         (0014)         0         1         3,17,0,14           311         (0014)         0         3,17,1,15           313         (0014)         0         3,17,3,17           313         (0014)         0         3,17,3,17           313         (0014)         0         3,17,3,18           315         (0014)         0         3,17,3,18           322         (0013)         0         3,16,0,13           321         (0013)         0         3,16,14	251	$(00\overline{5})$	0	0	2716 2707
254         (005)         0         1         2749           255         (005)         0         0         2,7,5,10           300         (0015)         0         0         3,18,0,15           301         (0015)         0         0         3,18,2,17           303         (0015)         0         0         3,18,4,19           305         (0015)         0         0         3,18,4,19           305         (0015)         0         1         3,17,0,14           311         (0014)         0         1         3,17,0,14           312         (0014)         0         1         3,17,2,16           313         (0014)         0         1         3,17,3,17           314         (0014)         0         1         3,17,4,18           315         (0014)         0         3,17,4,18           315         (0014)         0         3,16,0,13           322         (0013)         0         3,16,0,13           323         (0013)         0         3,16,1,14           322         (0013)         0         3,16,1,14           322         (0013)         0 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
255   (005)   0   0   2,7,5,10   300   (0015)   0   0   3,18,0,15   301   (0015)   0   0   3,18,0,16   302   (0015)   0   0   3,18,1,16   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   0   3,17,3,17   314   (0014)   0   0   3,17,3,17   315   (0014)   0   0   3,17,3,17   314   (0014)   0   0   3,17,5,19   320   (0013)   0   0   3,16,0,13   321   (0013)   0   0   3,16,0,13   322   (0013)   0   0   3,16,14   322   (0013)   0   0   3,16,14   322   (0013)   0   0   3,16,17   325   (0013)   0   0   3,16,17   325   (0013)   0   0   3,16,17   325   (0013)   0   0   3,16,18   333   (0012)   0   0   3,15,15   333   (0012)   0   0   3,15,15   333   (0012)   0   0   3,15,3,15   333   (0012)   0   0   3,15,3,15   333   (0012)   0   0   3,15,3,15   333   (0012)   0   0   3,15,3,15   334   (0011)   0   0   3,15,3,15   335   (0012)   0   0   3,15,3,15   336   (0012)   0   0   3,15,3,15   336   (0011)   0   0   3,14,0,11   341   (0011)   0   0   3,14,0,11   341   (0011)   0   0   3,14,0,11   341   (0011)   0   0   3,14,1,16   345   (0011)   0   0   3,14,1,16   345   (0010)   0   0   3,13,3,13   344   (0010)   0   0   3,13,3,14   345   (0010)   0   0   3,13,3,14   345   (0010)   0   0   3,13,3,14   345   (0010)   0   0   3,13,3,14   345   (0010)   0   0   3,13,3,14   345   (0010)   0   0   3,13,3,14   345   (0010)   0   0   3,13,3,14   345   (0010)   0   0   3,13,3,15   344   (0010)   0   0   3,13,3,14   345   (0010)   0   0   3,13,3,14   345   (0010)   0   0   3,13,3,14   345   (0010)   0   0   4,24,2,22   340   (0020)   0   0   4,24,2,22   340   (0020)   0   0   4,24,2,22   340   (0020)   0   0   4,24,2,22   340   (0020)   0   0   4,23,2,21   341   (0019)   0   0   4,23,3,22   341					
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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 3,17,0,14 311 (0014) 0 1 3,17,2,16 312 (0014) 0 1 3,17,2,16 313 (0014) 0 0 3,17,3,17 314 (0014) 0 0 3,17,3,17 314 (0014) 0 0 3,17,3,17 314 (0014) 0 0 3,17,5,19 320 (0013) 0 0 3,16,0,13 321 (0013) 0 0 3,16,0,13 321 (0013) 0 0 3,16,14 322 (0013) 0 0 3,16,2,15 323 (0013) 0 1 3,16,1,14 325 (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 3,15,1,13 333 (0012) 0 0 3,15,1,13 333 (0012) 0 0 3,15,1,13 333 (0012) 0 1 3,15,4,16 335 (0012) 0 1 3,15,4,16 335 (0012) 0 1 3,15,4,16 335 (0010) 0 1 3,14,4,15 344 (0011) 0 1 3,14,1,12 342 (0011) 0 1 3,14,1,12 344 (0011) 0 1 3,14,3,14 344 (0011) 0 1 3,14,3,14 344 (0011) 0 1 3,14,5,16 355 (0010) 0 1 3,13,3,10 351 (0000) 0 1 3,13,3,13 352 (0010) 0 0 3,13,4,1,5 353 (0010) 0 0 3,13,5,15 340 (0010) 0 1 3,14,5,16 355 (0010) 0 0 3,13,5,15 340 (0010) 0 1 3,14,5,16 355 (0010) 0 0 1 3,13,5,15 340 (0010) 0 0 3,13,5,15 341 (0010) 0 0 3,13,5,15 342 (0010) 0 0 1 3,13,5,15 343 (0010) 0 0 1 3,13,5,15 344 (0010) 0 1 3,14,5,16 355 (0010) 0 0 0 3,13,5,15 340 (0010) 0 1 3,13,4,14					
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$424  (00\overline{18}) \qquad 0 \qquad 0 \qquad 4, \overline{22}, 4, \overline{22}$		<u> </u>			
$420 \ (0010) \ 0 \ 1 \ 4,22,0,20$					
	420	(0019)	U	1	4, 22, 0, 20

430	(0017)	0	1	$4, \overline{21}, 0, \overline{17}$	_
431	$(00\overline{17})$	0	0	$\frac{4,21,0,17}{4,\overline{21},1,\overline{18}}$	
432	$(00\overline{17})$	0	1	$4, \overline{21}, 2, \overline{19}$	
433	$(00\overline{17})$	0	0	$4, \overline{21}, 3, \overline{20}$	
434	$(00\overline{17})$	0	1	$4, \overline{21}, 4, \overline{21}$	
435	$(00\overline{17})$	0	0	$4,\overline{21},5,\overline{22}$	
440	$(00\overline{16})$	0	0	$4, \overline{20}, 0, \overline{16}$	
441	$(00\overline{16})$	0	1	$4, \overline{20}, 1, \overline{17}$	
442	$(00\overline{16})$	0	0	$4, \overline{20}, 2, \overline{18}$	
443	$(00\overline{16})$	0	1	$4, \overline{20}, 3, \overline{19}$	
444	$(00\overline{16})$	0	0	$4, \overline{20}, 4, \overline{20}$	
445	$(00\overline{16})$	0	1	$4, \overline{20}, 5, \overline{21}$	
450	$(00\overline{15})$	0	1	$4, \overline{19}, 0, \overline{15}$	
451	$(00\overline{15})$	0	0	$4, \overline{19}, 1, \overline{16}$	
452	$(00\overline{15})$	0	1	$4, \overline{19}, 2, \overline{17}$	
453	$(00\overline{15})$	0	0	$4, \overline{19}, 3, \overline{18}$	
454	$(00\overline{15})$	0	1	$4, \overline{19}, 4, \overline{19}$	
455	$(00\overline{15})$	0	0	$4, \overline{19}, 5, \overline{20}$	
500	$(00\overline{25})$	0	0	$5, \overline{30}, 0, \overline{25}$	
501	$(00\overline{25})$	0	1	$5, \overline{30}, 1, \overline{26}$	
502	$(00\overline{25})$	0	0	$5, \overline{30}, 2, \overline{27}$	
$\frac{503}{504}$	$(00\overline{25})$ $(00\overline{25})$	0	$\frac{1}{0}$	$   \begin{array}{r}     5, \overline{30}, 3, \overline{28} \\     5, \overline{30}, 4, \overline{29}   \end{array} $	
$\frac{504}{505}$	(0025) $(0025)$	0	1	$\frac{5,30,4,29}{5,\overline{30},5,\overline{30}}$	
$\frac{-505}{510}$	(0023) $(0024)$	0	1	$5, \overline{29}, 0, \overline{24}$	
511	(0024) $(0024)$	0	0	$5, \overline{29}, 0, \overline{24}$ $5, \overline{29}, 1, \overline{25}$	
$\frac{-511}{512}$	(0024) $(0024)$	0	1	$\frac{5,29,1,29}{5,\overline{29},2,\overline{26}}$	
513	$(00\overline{24})$	0	0	$\frac{5,29,2,20}{5,\overline{29},3,\overline{27}}$	
$\frac{-513}{514}$	$(00\overline{24})$	0	1	$5, \overline{29}, 4, \overline{28}$	
515	$(00\overline{24})$	0	0	$5, \overline{29}, 5, \overline{29}$	
520	$(00\overline{23})$	0	0	$5, \overline{28}, 0, \overline{23}$	
521	$(00\overline{23})$	0	1	$5, \overline{28}, 1, \overline{24}$	
522	$(00\overline{23})$	0	0	$5, \overline{28}, 2, \overline{25}$	
523	$(00\overline{23})$	0	1	$5, \overline{28}, 3, \overline{26}$	
524	$(00\overline{23})$	0	0	$5, \overline{28}, 4, \overline{27}$	
525	$(00\overline{23})$	0	1	$5, \overline{28}, 5, \overline{28}$	
530	$(00\overline{22})$	0	1	$5, \overline{27}, 0, \overline{22}$	
531	$(00\overline{22})$	0	0	$5, \overline{27}, 1, \overline{23}$	
532	$(00\overline{22})$	0	1	$5, \overline{27}, 2, \overline{24}$	
533	$(00\overline{22})$	0	0	$5, \overline{27}, 3, \overline{25}$	
534	$(00\overline{22})$	0	1	$5, \overline{27}, 4, \overline{26}$	
535	$(00\overline{22})$	0	0	$5, \overline{27}, 5, \overline{27}$	
540	(0021)	0	0	$5, \overline{26}, 0, \overline{21}$	
541	$(00\overline{21})$	0	1	$5,\overline{26},1,\overline{22}$	
542	(0021)	0	0	$5,\overline{26},2,\overline{23}$	
543	$(00\overline{21})$	0	1	$5,\overline{26},3,\overline{24}$	
544	$(00\overline{21})$	0	0	$5,\overline{26},4,\overline{25}$	
545	$(00\overline{21})$	0	1	$\frac{5,\overline{26},5,\overline{26}}{5,\overline{26},0,\overline{20}}$	
$\frac{550}{551}$	$(00\overline{20})$	0	1	$5, \overline{25}, 0, \overline{20}$ $5, \overline{25}, 1, \overline{21}$	
$\frac{551}{552}$	$(00\overline{20})$ $(00\overline{20})$	0	0	$5, 25, 1, 21$ $5, \overline{25}, 2, \overline{22}$	
$\frac{-552}{553}$	(0020)	0	0	$\frac{5,25,2,22}{5,\overline{25},3,\overline{23}}$	
$\frac{-553}{554}$	$(0020)$ $(00\overline{20})$	0	1	$5, \overline{25}, 4, \overline{24}$	
555	$(00\overline{20})$	0	0	$5, \overline{25}, \overline{4}, \overline{25}$ $5, \overline{25}, 5, \overline{25}$	
				$\frac{3,23,3,23}{\text{Classification} = \mathbb{Z}_{\Lambda}^2}$	2 V - 7 CI - ~+ ··+
77		$\frac{5.139 P}{6^{001}*}$			$X_{\rm BS} = \mathbb{Z}_{3,3}  {\rm SI} = z_{3m,0}^+, z_{3m,\pi}^+$
$\mathbb{Z}_{3,3}$	(000)		<u>i*</u>	$\frac{Cm_{(3)}^{001}}{3\overline{3}00}$	
$\frac{00}{00}$	(000)	1	0	$\frac{3300}{003\overline{3}}$	
	(000)	1	U	0055	

	(000)	1	0	0033							—
00	(000)	1	0								
01	(000)	1	0	$\frac{001\overline{1}}{002\overline{2}}$							
02	(000)	0	0								
$\frac{10}{11}$	(000)	0	0	$\frac{1100}{1\overline{1}1\overline{1}}$							
	(000)										
12	(000)	1	0	$1\overline{1}2\overline{2}$							
$\frac{20}{21}$	(000)	0	0	$\frac{2\overline{2}00}{2\overline{2}1\overline{1}}$							
	(000)	1									
22	(000)	0	0	$2\overline{2}2\overline{2}$							_
				Classifica	tion = $\mathbb{Z}$	2 X	$_{\mathrm{BS}}=\mathbb{Z}_{2}$	2,4 S	1 = i	$z_{6C}/2, z_{4P}$	
$\mathbb{Z}_{2,4}$	weak	6 <sup>001</sup> *	$\frac{i}{2}$								
00	(000)	0	0								
02	(000)	1	1								
		175.142	$P_c6/m$	Classif	ication =	$\mathbb{Z}_M$	$X_{BS} =$	$=\mathbb{Z}_6$	SI =	$=z_{6m,0}^{+}$	
$\mathbb{Z}_6$	weak	$\{1 00\frac{1}{2}\}*$	6001	i	$Cm_{(6)}^{001}$						
0	(000)	0	0	0	$6\overline{6}00$						
0	(000)	0	0	0	0000						
1	(000)	1	0	1	$1\overline{1}00$						
2	(000)	0	0	0	$2\overline{2}00$						
3	(000)	1	0	1	$3\overline{3}00$						
4	(000)	0	0	0	$4\overline{4}00$						
5	(000)	1	0	1	$5\overline{5}00$						
	176	$.143  P6_{3} /$	m Class	sification	$n = \mathbb{Z}_M$	$\langle \mathbb{Z}$	$X_{BS} = Z$	$\mathbb{Z}_{3,6}$	SI =	$=z_{3m,\pi}^+,z_{6m,0}^+$	
$\mathbb{Z}_{3,6}$	weak	$6_{00\frac{1}{2}}^{001}$	i	$Cm_{(6)}^{001}$				- , -		3m, x > 0m, 0	
00	(006)	3	0	0633							
00	(000)	0	0	6600							
00	(000)	0	0	0000							—
01	(000)	0	1	$\frac{1100}{1}$							—
02	(000)	0	0	$\frac{2\overline{2}00}{2}$							—
03	(000)	0	1	3300							—
04	(000)	0	0	$\frac{4400}{4}$							
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	$4\overline{2}11$							
15	(002)	1	1	5311							—
20	(004)	2	0	0422							—
21	(004)	2	1	1322							
22	(004)	2	0	2222							_
23	(004)	2	1	3122							_
24	(004)	2	0	4022							
25	(004)	2	1	$5\overline{1}22$							
		176.145	$P6_3'/m$	Classit	fication =	= Z <sub>M</sub>	X <sub>RS</sub> =	= Z2	SI =	$=z_{3m,0}^{+}$	—
$\mathbb{Z}_3$	weak	$6^{001}_{00\frac{1}{2}}*$	$\frac{i*}{i}$	$Cm_{(3)}^{001}$		171	20	.5		<i>σπι</i> ,υ	—
	(000)			$\frac{3\overline{3}00}{3\overline{6}}$							—
$\frac{0}{0}$	(000)	$\frac{1}{0}$	0	0000							—
$\frac{0}{1}$	(000)	1	0	$1\overline{1}00$							—
$\frac{1}{2}$	(000)	0	0	$\frac{1100}{2\overline{2}00}$							—
	[(000)				• • • • • • • • • • • • • • • • • • • •	FT	37	<i></i>	Q.T		_
F77	,	176.147	- 7	Class	sification	$=\mathbb{Z}_2$	$X_{BS}$	$=\mathbb{Z}_4$	SI	$=z_{4P}$	
$\mathbb{Z}_4$	weak	$6_{00\frac{1}{2}}^{001}*$	i								
0	(000)	0	0								
2	(000)	1	1								
		176.148	$P_c6_3/m$	Classi	fication =	$=\mathbb{Z}_{M}$	X <sub>BS</sub> =	$=\mathbb{Z}_6$	SI	$=z_{6m,0}^{+}$	
$\mathbb{Z}_6$	weak	$\{1 00\frac{1}{2}\}*$	6001*	$i_{00\frac{1}{2}}*$	$Cm_{(6)}^{001}$		20			5111,0	
0	(000)	0	0	0	6600						
U	(000)	J	U	J	0000						

0	(000)	0	0	0	0000						
$\frac{0}{1}$	(000)	1	1	0	$1\overline{1}00$						
2	(000)	0	0	0	$\frac{2\overline{2}00}{2}$						
3	(000)	1	1	0	3300						
4	(000)	0	0	0	$4\overline{4}00$						
5	(000)	1	1	0	$5\overline{5}00$						
		177.153	P62'2'	Classifie	cation =	$\mathbb{Z} \times \mathbb{Z}_2$	X <sub>BS</sub> =	$=\mathbb{Z}_6$	SI =	= z <sub>6C</sub>	
$\mathbb{Z}_6$	weak	$6^{001}$	2 <sup>010</sup> *	$2^{110}*$							
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							
$\frac{4}{5}$	(004)	0	0	0							
	(003)					F77 F77	37	F77	CI		
	1	180.171	$P6_22'2'$		cation =	$= \mathbb{Z} \times \mathbb{Z}_2$	$\Lambda_{ m BS}$	$=\mathbb{Z}_2$	S1 =	$=z_{2C}$	
$\mathbb{Z}_2$	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							
	(003)	1	0	1		F7		FTT	CT		
	T -	181.177	$P6_42'2'$		cation =	$=\mathbb{Z}\times\mathbb{Z}_2$	$X_{BS}$	$=\mathbb{Z}_2$	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	$(00\overline{6})$	$\overline{4}$	0	0							
0	(000)	0	1	1							
1	$(00\overline{3})$	$\overline{2}$	0	1							
		182.183	$P6_{3}2'2'$		cation =	$=\mathbb{Z} imes\mathbb{Z}_2$	$X_{BS}$	$=\mathbb{Z}_3$	SI =	$= z_{3C}$	
$\mathbb{Z}_3$	weak	$6_{00\frac{1}{2}}^{001}$	$2^{010}*$	$2^{110}_{00\frac{1}{2}}*$							
0	(006)	3	0	1							
0	(000)	0	1	1							
2	(002)	1	0	1							
1	(004)	2	0	0							
		183.18			ssificatio	$n = \mathbb{Z}$	$X_{BS} =$	$\mathbb{Z}_6$ S	SI = i	$z_{6C}$	
$\frac{\mathbb{Z}_6}{2}$	weak	$6^{001}$	$m_{\bar{1}20}*$	$m_{1\bar{1}0}*$							
$\frac{0}{5}$	$(00\overline{6})$ $(00\overline{1})$	0	0	0							
$\frac{3}{4}$	$(001)$ $(00\overline{2})$	0	0	0							
$\frac{4}{3}$	$(00\overline{3})$	0	0	0							
$\frac{3}{2}$	$(00\overline{4})$	0	0	0							
$\frac{2}{1}$	$(00\overline{5})$	0	0	0							
	1 (-00)	184.1			sification	= 7%.	$X_{BS} = \mathbb{Z}$	7,6 SI	= ~	, ,	
$\mathbb{Z}_6$	weak	$6^{001}$	$\frac{g_{00\frac{1}{2}}^{120}}{g_{00\frac{1}{2}}^{120}}*$	$g_{00\frac{1}{2}}^{110}*$	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u>— ш</u>	BS — Z	20 DI		oC .	
$\frac{\mathbb{Z}_6}{0}$	(0012)	0	$\frac{g_{00\frac{1}{2}}^*}{6}$	$\frac{g_{00\frac{1}{2}}*}{6}$							
$\frac{0}{1}$	(0012)	0	1	1							
$\frac{1}{2}$	(002)	0	2	2							
$\frac{2}{3}$	(006)	0	3	3							
4	(008)	0	4	4							
5	(0010)	0	5	5							
_		185.20	$1 P6_3c'r$	n' Clas	sificatio	$n = \mathbb{Z}$	$X_{BS} =$	$\mathbb{Z}_3$ S	SI = i	$z_{3C}$	
$\mathbb{Z}_3$	weak	$6_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{120}*$	$m_{1\bar{1}0}*$							
0	$(00\overline{6})$	$\frac{00\frac{5}{2}}{3}$	$\frac{300\frac{1}{2}}{3}$	0							
$\frac{}{1}$	$(00\overline{2})$	1	1	0							
2	$(00\overline{4})$	2	2	0							
		186.20	$7 P6_3m^2$	c' Clas	ssification	$n = \mathbb{Z}$	$X_{BS} =$	$\mathbb{Z}_3$ S	SI = i	23 <i>C</i>	
$\mathbb{Z}_3$	weak	$6_{00\frac{1}{2}}^{001}$	$m_{\bar{1}20}*$	$g_{00\frac{1}{2}}^{110}*$				-0 k		- 00	
$\frac{23}{0}$	(006)	$\frac{3}{3}$	0	$\frac{g_{00\frac{1}{2}}}{3}$							
$\frac{0}{2}$	(000)	<u>3</u> 1	0	<u>3</u>							
_	(302)	-	~	-							

1	(004)	2	0	2							
	1	87.209 P	$\bar{6}m2$ Cl	assificati	on = $\mathbb{Z}_M^3$	X <sub>P</sub>	$_{\rm SS}=\mathbb{Z}$	Z <sub>3.3</sub>	SI :	$=z_{3m,0}^+,z_{3r}^+$	
$\overline{\mathbb{Z}_{3,3}}$	weak	$\bar{6}^{001}$	$2^{110}$	$Cm_{(3)}^{001}$	$Cm_{(0)}^{110}$			0,0		$5m,0^7-57$	$m,\pi$
00	(000)	1	0	3300	33						
00	(000)	1	0	$003\overline{3}$	33						
00	(000)	1	0	$00\overline{3}3$	11						
00	(000)	0	0	0000	$2\overline{2}$						
01	(000)	1	0	$001\overline{1}$	<u>1</u> 1						
02	(000)	0	0	$002\overline{2}$	$\overline{2}2$						
10	(000)	1	0	$1\overline{1}00$	$1\overline{1}$						
11	(000)	0	0	$1\overline{1}1\overline{1}$	00						
12	(000)	1	0	$1\overline{1}2\overline{2}$	11						
20	(000)	0	0	$2\overline{2}00$	$2\overline{2}$						
21	(000)	1	0	$2\overline{2}1\overline{1}$	$1\overline{1}$						
22	(000)	0	0	$2\overline{2}2\overline{2}$	00						
	187.213	$P\bar{6}m'2'$	Classific	cation =	$\mathbb{Z}_M^2 \times \mathbb{Z}$	Хрс	$z = Z_c$	2 2 2	SI	$=z_{3m,0}^+,z_3^-$	- 2+
$\mathbb{Z}_{3,3,3}$	weak	$\bar{6}^{001}$	$m_{\bar{1}20}*$	$2^{110}*$	$Cm_{(3)}^{001}$		,,	3,3,3	~-	~3m,0,~3	$m,0,\sim 3m,\pi$
000	$(00\overline{6})$	1	0	1	$\frac{3906}{3906}$						
000	(003)	1	0	1	0303						
000	(000)	1	0	1	$\frac{0003}{0033}$						
000	(000)	1	0	1	$00\overline{3}3$						
001	(000)	1	0	1	$\frac{0005}{0011}$						
002	(000)	0	0	0	$002\overline{2}$						
010	(001)	1	0	1	0101						
011	(001)	0	0	0	0110						
012	(001)	1	0	1	$012\overline{1}$						
020	(002)	0	0	0	0202						
021	(002)	1	0	1	0211						
022	(002)	0	0	0	0220						
100	$(00\overline{2})$	1	0	1	$1\overline{3}0\overline{2}$						
101	$(00\overline{2})$	0	0	0	$1\overline{3}1\overline{3}$						
102	$(00\overline{2})$	1	0	1	$1\overline{3}2\overline{4}$						
110	$(00\overline{1})$	0	0	0	$1\overline{2}0\overline{1}$						
111	$(00\overline{1})$	1	0	1	$1\overline{2}1\overline{2}$						
112	$(00\overline{1})$	0	0	0	$1\overline{2}2\overline{3}$						
120	(000)	1	0	1	$1\overline{1}00$						
121	(000)	0	0	0	$1\overline{1}1\overline{1}$						
122	(000)	1	0	1	$1\overline{1}2\overline{2}$						
200	$(00\overline{4})$	0	0	0	$2\overline{6}0\overline{4}$						
201	$(00\overline{4})$	1	0	1	$2\overline{6}1\overline{5}$						
202	$(00\overline{4})$	0	0	0	$2\overline{6}2\overline{6}$						
210	$(00\bar{3})$	1	0	1	$2\overline{5}0\overline{3}$						
211	$(00\overline{3})$	0	0	0	$2\overline{5}1\overline{4}$						
212	$(00\overline{3})$	1	0	1	$2\overline{5}2\overline{5}$						
220	$(00\overline{2})$	0	0	0	$2\overline{4}0\overline{2}$						
221	(002)	1	0	1	$2\overline{4}1\overline{3}$						
222	$(00\overline{2})$	0	0	0	$2\overline{4}2\overline{4}$						
		187.214	$P_c\bar{6}m2$	Classif	ication =		$X_{BS}$	$= \mathbb{Z}$	3	$SI = z_{3m,0}^+$	
$\mathbb{Z}_3$	weak	$\{1 00\frac{1}{2}\}*$	$\bar{6}^{001}$	$2^{1\bar{1}0}$	$Cm_{(3)}^{001}$	Cm	110				
0	(000)	1	1	0	3300	35					
0	(000)	0	0	0	0000	$\overline{2}$	2				
0	(000)	0	0	0	0000	25	2				
1	(000)	1	1	0	$1\overline{1}00$	1	1				
2	(000)	0	0	0	$2\overline{2}00$	$2\overline{2}$	2				
		188.215	$P\bar{6}c2$	Classifi	cation =	$\mathbb{Z}_M$	X <sub>RS</sub>	$=\mathbb{Z}$	- S	$I = z_{3m,0}^+$	
$\mathbb{Z}_3$	weak	$\bar{6}_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{120}$	$2^{110}$	$Cm_{(3)}^{001}$		-100		. ~	- 3m,0	
$\frac{223}{0}$	(000)	$\frac{0_{00\frac{1}{2}}}{1}$	$\frac{g_{00\frac{1}{2}}}{1}$	0	$\frac{3\overline{3}00}{3\overline{6}}$						
	(000)	1	1	U	9900						

	(000)	0	0	0	0000				
1	(000)	1	1	0	$1\overline{1}00$				
2	(000)	0	0	0	$2\overline{2}00$				
	188.	$219  P\bar{6}c'$	2' Class	sification	$=\mathbb{Z}_{M}$	$\mathbb{Z}$ $X_{BS} = \mathbb{Z}_{3}$ .	3 SI	$=z_{3m,0}^+,z_{3m,\pi}^+$	
$\mathbb{Z}_{3,3}$	weak	$\bar{6}_{00\frac{1}{2}}^{001}$	$g_{00\frac{1}{2}}^{\bar{1}20}*$	$2^{110}*$	$Cm_{(3)}^{001}$	25 0,		$5m,0$ 7 $5m,\pi$	
00	(000)	1	$\frac{300\frac{1}{2}}{0}$	1	3300				
00	$(00\overline{6})$	1	$\frac{3}{3}$	0	0633				
00	(000)	0	0	0	0000				
01	$(00\overline{2})$	1	1	0	0211				
02	$(00\overline{4})$	0	$\overline{2}$	0	0422				
10	(000)	1	0	1	$1\overline{1}00$				
11	$(00\bar{2})$	0	1	1	1111				
12	$(00\overline{4})$	1	$\overline{2}$	1	1322				
20	(000)	0	0	0	$2\overline{2}00$				
21	$(00\overline{2})$	1	<u>1</u>	0	2011				
22	$(00\overline{4})$	0	$\overline{2}$	0	2222				
		188.220	$P_c\bar{6}c2$	Classifie	cation =	$\mathbb{Z}_M  \mathrm{X}_{\mathrm{BS}} = \mathbb{Z}$	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			
$\frac{1}{2}$	(000)	1	0	0	0	$\frac{1\bar{1}00}{2\bar{2}00}$			
2	(000)	0	0	0	0	$2\overline{2}00$	~=		
				assificatio		$X_{BS} = \mathbb{Z}_{3,3}$	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	$\frac{3\overline{3}}{\overline{2}}$	3300				
00	(000)	1	0	33	$003\overline{3}$				
$\frac{00}{00}$	(000)	0	0	$\frac{2\overline{2}}{1\overline{1}}$	$\frac{0000}{00\overline{3}3}$				
$\frac{00}{01}$	(000)	1	0	11	$003\overline{1}$				
$\frac{01}{02}$	(000)	0	0	$\frac{11}{22}$	$001\overline{2}$				
10	(000)	1	0	11	$1\overline{1}00$				
11	(000)	0	0	00	1111				
12	(000)	1	0	<u>1</u> 1	$1\overline{1}2\overline{2}$				
20	(000)	0	0	$2\overline{2}$	$2\overline{2}00$				
21	(000)	1	0	$1\overline{1}$	$2\overline{2}1\overline{1}$				
22	(000)	0	0	00	$2\overline{2}2\overline{2}$				
	189.225	$P\bar{6}2'm'$	Classific	ation =	$\mathbb{Z}_M^2 \times \mathbb{Z}$	$X_{BS} = \mathbb{Z}_{3,3,3}$	SI =	$z_{3m,0}^+, z_{3m,0}^-, z_{3m,\pi}^+$	
$\mathbb{Z}_{3,3,3}$	weak	$\bar{6}^{001}$	$2^{010}*$	$m_{1\bar{1}0}*$				,,.	
000	$(00\overline{6})$	1	1	0	$3\overline{9}0\overline{6}$				
000	(003)	1	1	0	0303		-		
000	(000)	1	1	0	$\frac{003\overline{3}}{000000000000000000000000000000$				
000	(000)	1	1	0	$00\overline{3}3$				
001	(000)	1	1	0	$\frac{001\overline{1}}{002\overline{2}}$				
002	(000)	0	0	0	0101				
010	(001)	0	0	0	01101				
$\frac{-011}{012}$	(001)	1	1	0	$0110 \\ \hline 012\overline{1}$				
020	(002)	0	0	0	0202				
021	(002)	1	1	0	0211				
022	(002)	0	0	0	0220				
100	$(00\overline{2})$	1	1	0	$1\overline{3}0\overline{2}$				
101	$(00\overline{2})$	0	0	0	$1\overline{3}1\overline{3}$				
102	$(00\overline{2})$	1	1	0	$1\overline{3}2\overline{4}$				
110	$(00\overline{1})$	0	0	0	$1\overline{2}0\overline{1}$				
111	$(00\overline{1})$	1	1	0	$1\overline{2}1\overline{2}$				
112	$(00\overline{1})$	0	0	0	$1\overline{2}2\overline{3}$				
120	(000)	1	1	0	$1\overline{1}00$				

121	(000)	0	0	0	1111				
122	(000)	1	1	0	$1\overline{1}2\overline{2}$				
200	$(00\overline{4})$	0	0	0	$2\overline{6}0\overline{4}$				
201	$(00\overline{4})$	1	1	0	$2\overline{6}1\overline{5}$				
202	$(00\overline{4})$	0	0	0	$2\overline{6}2\overline{6}$				
210	$(00\overline{3})$	1	1	0	$2\overline{5}0\overline{3}$				
211	$(00\overline{3})$	0	0	0	$\frac{2\overline{5}1\overline{4}}{2\overline{5}1\overline{4}}$				
$\frac{211}{212}$	$(00\overline{3})$	1	1	0	$\frac{2\overline{5}2\overline{5}}{2\overline{5}}$				
220	$(00\overline{2})$	0	0	0	$2\overline{4}0\overline{2}$				
221	$(00\overline{2})$	1	1	0	$2\overline{4}1\overline{3}$				
222	$(00\bar{2})$	0	0	0	$2\overline{4}2\overline{4}$				
		189.226	$P_c\bar{6}2m$	Classif	fication =	$\mathbb{Z}_{M}^{2}$ $X_{B}$	$S = \mathbb{Z}_3$ SI	$=z_{2m,0}^{+}$	
$\mathbb{Z}_3$	weak	$\{1 00\frac{1}{2}\}*$	$\bar{6}^{001}$	$2^{010}$	$Cm_{(0)}^{100}$	$Cm_{(3)}^{001}$		3111,0	
0	(000)	$\frac{(1)00_2)}{1}$	1	0	$\frac{3\overline{3}}{3}$	$\frac{3\overline{3}00}{3}$			
		0	0	0	$\frac{3\overline{5}}{2\overline{2}}$	0000			
0	(000)								
0	(000)	0	0	0	$\overline{2}2$	0000			
1	(000)	1	1	0	11	$1\overline{1}00$			
2	(000)	0	0	0	$2\overline{2}$	$2\overline{2}00$			
		190.227	$P\overline{6}2c$	Classifi	cation =	$\mathbb{Z}_M$ Xbs	$=\mathbb{Z}_3$ SI =	= z_2+	
$\mathbb{Z}_3$	weak	$\bar{6}_{00\frac{1}{2}}^{001}$	2010	$g_{00\frac{1}{2}}^{110}$	$Cm_{(3)}^{001}$	10	0 ~-	5111,0	
0	(000)	1	0	1	$3\overline{3}00$				
0	(000)	0	0	0	0000				
1	(000)	1	0	1	$1\overline{1}00$				
2	(000)	0	0	0	$2\overline{2}00$				
	100	$0.231  P\bar{6}2'$	c' Class	cification	$n = \mathbb{Z}_M \times$	/ 7 Yng	$=\mathbb{Z}_{3,3}$ SI =	_ ~+ ~+	
			2 <sup>010</sup> *			Z ABS	= Z3,3 DI =	$- z_{3m,0}, z_{3m}$	$\pi$
$\mathbb{Z}_{3,3}$	weak	$\bar{6}^{001}_{00\frac{1}{2}}$	2 *	$g_{00\frac{1}{2}}^{110}*$	$Cm_{(3)}^{001}$				
00	(000)	1	1	0	$3\overline{3}00$				
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	$1\overline{1}00$				
11	(002)	0	1	1	1111				
12	(004)	1	1	2	1322				
$\frac{12}{20}$	(000)	0	0	0	$\frac{1522}{2\overline{2}00}$				
$\frac{20}{21}$	(000)	1	0	1	2011				
				2					
22	(004)	0	0		2222				
		190.232	$P_c\bar{6}2c$		ication =		$S = \mathbb{Z}_3$ 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			
$\frac{3}{1}$	(000)	1	0	0	0	$1\overline{1}00$			
$\frac{1}{2}$	(000)	0	0	0	0	$\frac{1100}{2\overline{2}00}$			
	,	-					F71 ~~	+	
					$\operatorname{cation} = 2$		$=\mathbb{Z}_{6,12}$ SI	$=z_{6m,\pi}^+,z_1$	2
$\mathbb{Z}_{6,12}$	weak	$6^{001}$	$2^{010}$	i	$2^{110}$	$Cm_{(2)}^{100}$	$Cm_{(6)}^{001}$	$Cm_{(2)}^{210}$	
0,0	(000)	0	0	0	0	$\overline{12}, \overline{12}$	$\overline{6}66\overline{6}$	$\overline{12}, \overline{12}$	
0,0	(000)	0	0	0	0	$12, \overline{12}$	$12, \overline{12}, 0, 0$	$12, \overline{12}$	
0,0	(000)	0	0	0	0	$\frac{7}{44}$	6600	<del>6</del> 6	
$\frac{0,0}{0,0}$	(000)	0	0	0	0	$\frac{\overline{2}}{2}$	6666	$\frac{\overline{2}}{2}$	
$\frac{0,0}{0,0}$	(000)	0	0	0	0	$\frac{22}{66}$	6600	$\frac{22}{44}$	
$\frac{0,0}{0,7}$	(000)	0	0	1	0	$\frac{00}{1\overline{1}}$	$1\overline{1}00$	11	
0, 2	(000)	0	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$	$\frac{2\overline{2}00}{2\overline{2}00}$	$\frac{2\overline{2}}{2\overline{2}}$	
0,9	(000)	0	0	1	0	33	3300	33	
0, 4	(000)	0	0	0	0	$4\overline{4}$	$4\overline{4}00$	$4\overline{4}$	
0,11	(000)	0	0	1	0	$5\overline{5}$	$5\overline{5}00$	$5\overline{5}$	
0,6	(000)	0	0	0	0	$6\overline{6}$	$6\overline{6}00$	$6\overline{6}$	
0, 1	(000)	0	0	1	0	$7\overline{7}$	$7\overline{7}00$	$7\overline{7}$	
	/								

							_		
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	$10, \overline{10}$	$10, \overline{10}, 0, 0$	$10, \overline{10}$	
0, 5	(000)	0	0	1	0	$11, \overline{11}$	$11, \overline{11}, 0, 0$	$11, \overline{11}$	
1,0	(000)	0	0	0	0	$\overline{2}2$	$\overline{1}11\overline{1}$	$\overline{2}2$	
1,7	(000)	0	0	1	0	11	$001\overline{1}$	11	
1, 2	(000)	0	0	0	0	00	$1\overline{1}1\overline{1}$	00	
1,9	(000)	0	0	1	0	$1\overline{1}$	$2\overline{2}1\overline{1}$	$1\overline{1}$	
1,4	(000)	0	0	0	0	$2\overline{2}$	$3\overline{3}1\overline{1}$	$2\overline{2}$	
1,11	(000)	0	0	1	0	$3\overline{3}$	$4\overline{4}1\overline{1}$	$3\overline{3}$	
1,6	(000)	0	0	0	0	$4\overline{4}$	$5\overline{5}1\overline{1}$	$4\overline{4}$	
1,1	(000)	0	0	1	0	$5\overline{5}$	$6\overline{6}1\overline{1}$	$5\overline{5}$	
1,8	(000)	0	0	0	0	$6\overline{6}$	$7\overline{7}1\overline{1}$	$6\overline{6}$	
1,3	(000)	0	0	1	0	$7\overline{7}$	8811	$7\overline{7}$	
1,10	(000)	0	0	0	0	88	$9\overline{9}1\overline{1}$	88	
$\frac{1}{1,5}$	(000)	0	0	1	0	99	$10, \overline{10}, 1, \overline{1}$	99	
$\frac{1}{2,0}$	(000)	0	0	0	0	$\overline{44}$	$\overline{2222}$	44	
$\frac{2, 6}{2, 7}$	(000)	0	0	1	0	33	$\frac{\overline{1122}}{\overline{1}}$	33	
$\frac{2,1}{2,2}$	(000)	0	0	0	0	$\frac{\overline{2}}{2}$	$\frac{1122}{002\overline{2}}$	$\frac{\overline{2}}{2}$	
$\frac{2,2}{2,9}$	(000)	0	0	1	0	$\frac{22}{11}$	$\frac{1\overline{1}2\overline{2}}{1}$	$\frac{22}{11}$	
$\frac{2, 3}{2, 4}$	(000)	0	0	0	0	00	$\frac{2\overline{2}2\overline{2}}{2\overline{2}}$	00	
$\frac{2,4}{2,11}$	(000)	0	0	1	0	$\frac{00}{1\overline{1}}$	$\frac{2\overline{2}\overline{2}}{3\overline{3}2\overline{2}}$	$\frac{00}{1\overline{1}}$	
$\frac{2,11}{2,6}$	(000)	0	0	0	0	$\frac{11}{2\overline{2}}$	$\frac{3322}{4\overline{4}2\overline{2}}$	$\frac{11}{2\overline{2}}$	
$\frac{2,0}{2,1}$	(000)	0	0	1	0	$\frac{22}{3\overline{3}}$	$\frac{\overline{5522}}{55}$	$\frac{22}{3\overline{3}}$	
$\frac{2,1}{2,8}$	(000)	0	0	0	0	$\frac{35}{4\overline{4}}$	$\frac{6\overline{6}2\overline{2}}{6\overline{6}2\overline{2}}$	$\frac{35}{4\overline{4}}$	
$\frac{2,6}{2,3}$	(000)	0	0	1	0	$\frac{44}{55}$	$\frac{0022}{7\overline{7}2\overline{2}}$	$\frac{44}{55}$	
$\frac{2,3}{2,10}$	(000)	0		0		$\frac{55}{6\overline{6}}$	$\frac{882\overline{2}}{882\overline{2}}$	$\frac{55}{66}$	
			0	1	0	$\frac{66}{77}$	$\frac{9\overline{9}2\overline{2}}{9\overline{9}}$	$\frac{66}{77}$	
$\frac{2,5}{2,0}$	(000)	0			0				
3,0	(000)	0	0	0	0	<u>66</u>	3333	$\frac{\overline{6}6}{\overline{5}z}$	
3,7	(000)	0	0	1	0	$\frac{\overline{5}5}{44}$	$\overline{2}23\overline{3}$	$\frac{\overline{5}5}{44}$	
3,2	(000)	0	0	0	0	$\frac{\overline{4}4}{\overline{2}2}$	$\overline{1}13\overline{3}$	$\frac{\overline{4}4}{\overline{2}0}$	
3,9	(000)	0	0	1	0	$\frac{\overline{3}3}{\overline{2}2}$	$\frac{003\overline{3}}{1\overline{1}9\overline{9}}$	$\frac{\overline{3}3}{\overline{2}0}$	
3,4	(000)	0	0	0	0	$\frac{\overline{2}2}{\overline{1}1}$	$1\overline{1}3\overline{3}$	$\frac{\overline{2}2}{\overline{1}1}$	
3,11	(000)	0	0	1	0	11	$2\overline{2}3\overline{3}$	11	
3,6	(000)	0	0	0	0	00	3333	00	
3, 1	(000)	0	0	1	0	$1\overline{1}$	$4\overline{4}3\overline{3}$	$1\overline{1}$	
3,8	(000)	0	0	0	0	$2\overline{2}$	$5\overline{5}3\overline{3}$	$2\overline{2}$	
3, 3	(000)	0	0	1	0	$3\overline{3}$	$6\overline{6}3\overline{3}$	$3\overline{3}$	
3, 10	(000)	0	0	0	0	$4\overline{4}$	$7\overline{7}3\overline{3}$	$4\overline{4}$	
-3, 5	(000)	0	0	1	0	55	$8\overline{8}3\overline{3}$	55	
4,0	(000)	0	0	0	0	<u>8</u> 8	4444	88	
4, 7	(000)	0	0	1	0	$\overline{7}7$	$\overline{3}34\overline{4}$	$\overline{7}7$	
4, 2	(000)	0	0	0	0	<del>6</del> 6	$\overline{2}24\overline{4}$	<del>6</del> 6	
4,9	(000)	0	0	1	0	$\overline{5}5$	$\overline{1}14\overline{4}$	$\overline{5}5$	
4, 4	(000)	0	0	0	0	$\overline{4}4$	$004\overline{4}$	$\overline{4}4$	
4, 11	(000)	0	0	1	0	$\overline{3}3$	$1\overline{1}4\overline{4}$	$\overline{3}3$	
4,6	(000)	0	0	0	0	$\overline{2}2$	$2\overline{2}4\overline{4}$	$\overline{2}2$	
4, 1	(000)	0	0	1	0	$\overline{1}1$	$3\overline{3}4\overline{4}$	$\overline{1}1$	
4,8	(000)	0	0	0	0	00	$4\overline{4}4\overline{4}$	00	
4,3	(000)	0	0	1	0	$1\overline{1}$	$5\overline{5}4\overline{4}$	$1\overline{1}$	
4, 10	(000)	0	0	0	0	$2\overline{2}$	$6\overline{6}4\overline{4}$	$2\overline{2}$	
$\frac{1}{4,5}$	(000)	0	0	1	0	$3\overline{3}$	$7\overline{7}4\overline{4}$	$3\overline{3}$	
$\frac{1}{5,0}$	(000)	0	0	0	0	10, 10	$\overline{5}55\overline{5}$	10,10	
$\frac{7}{5,7}$	(000)	0	0	1	0	99	$\overline{4}45\overline{5}$	99	
$\frac{-5,2}{5,2}$	(000)	0	0	0	0	88	$335\overline{5}$	88	
$\frac{-5, 2}{5, 9}$	(000)	0	0	1	0	$\frac{77}{7}$	$\overline{2255}$	$\frac{77}{7}$	
$\frac{-5, 5}{5, 4}$	(000)	0	0	0	0	<del></del>	$\frac{\overline{1155}}{\overline{1}}$	<del></del>	
$\frac{-5,11}{5,11}$	(000)	0	0	1	0	$\frac{55}{5}$	$005\overline{5}$	$\frac{5}{5}$	
$\frac{-5,11}{5,6}$	(000)	0	0	0	0	$\frac{35}{44}$	$1\overline{155}$	$\frac{33}{44}$	
$\circ$ , $\circ$	1 (000)	•	9	9	0				

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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	,	(000)	0	0	1	0	33		33
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5,8	(000)	0	0	0	0	$\overline{2}2$	$3\overline{3}5\overline{5}$	$\overline{2}2$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5, 3	(000)	0	0	1	0	<u>1</u> 1	$4\overline{4}5\overline{5}$	$\overline{1}$ 1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		, ,		0	0				00
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		/		-					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							$M = X_{BS}$	$= \mathbb{Z}_{3,3}$ S1	$=z_{3m,0},z_{3m,\pi}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\mathbb{Z}_{3,3}$	weak	6001*	$2^{010}$	i*	$2^{110}*$	$Cm_{(0)}^{100}$		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00	(000)	1	0	0	1	$3\overline{3}$	$3\overline{3}00$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00	(000)	1	0	0	1	$\overline{3}3$	$003\overline{3}$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00	(000)	0	0	0	0	$2\overline{2}$	0000	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00	(000)	1	0	0	1	11	$00\overline{3}3$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		_ /							
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		/							
$ \begin{array}{ c c c c c c c c } \hline & 191.237 & P6'/mmm' & Classification = \mathbb{Z}_M^3 & X_{\rm BS} = \mathbb{Z}_{3,3} & SI = z_{3m,0}^+, z_{3m,\pi}^+ \\ \hline \mathbb{Z}_{3,3} & weak & 6^{001}* & 2^{010}* & i* & 2^{110} & m_{010}* & Cm_{(3)}^{001} & Cm_{(0)}^{210} \\ \hline 00 & (000) & 1 & 1 & 0 & 0 & 0 & 3330 & 33 \\ \hline 00 & (000) & 1 & 1 & 0 & 0 & 0 & 00333 & 33 \\ \hline 00 & (000) & 1 & 1 & 0 & 0 & 0 & 00333 & 11 \\ \hline 00 & (000) & 0 & 1 & 1 & 0 & 0 & 0 & 00333 & 11 \\ \hline 00 & (000) & 0 & 0 & 0 & 0 & 0 & 00000 & 22 \\ \hline 01 & (000) & 1 & 1 & 0 & 0 & 0 & 00011 & 11 \\ \hline 10 & (000) & 1 & 1 & 0 & 0 & 0 & 00111 & 11 \\ \hline 11 & (000) & 0 & 0 & 0 & 0 & 0 & 0 & 1100 & 11 \\ \hline 12 & (000) & 1 & 1 & 0 & 0 & 0 & 11100 & 11 \\ \hline 13 & (000) & 0 & 0 & 0 & 0 & 0 & 0 & 1122 & 11 \\ \hline 20 & (000) & 0 & 0 & 0 & 0 & 0 & 0 & 122 & 11 \\ \hline 20 & (000) & 1 & 1 & 0 & 0 & 0 & 0 & 122 & 11 \\ \hline 20 & (000) & 1 & 1 & 0 & 0 & 0 & 0 & 2200 & 22 \\ \hline 21 & (000) & 1 & 1 & 0 & 0 & 0 & 0 & 2221 & 11 \\ \hline 22 & (000) & 1 & 1 & 0 & 0 & 0 & 0 & 2222 & 00 \\ \hline & & & & & & & & & & & & & & & & & &$		/	1	0	0	1			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	22	(000)	0	0	0	0	00	2222	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		191	.237 P6'	'/mmm'	Classifica	$ation = \mathbb{Z}$	3 XBS	$=\mathbb{Z}_{3,3}$ SI	$=z_{2}^{+}$ , $z_{2}^{+}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	700							$Cm^{001}$	$C_{m}^{210}$
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		_ /							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									_
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							0		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00	(000)	0	0	0	0	0	0000	22
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	01	(000)	1	1	0	0	0	$001\overline{1}$	$\overline{1}1$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	02	(000)	0	0	0	0	0	$002\overline{2}$	$\overline{2}2$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10	(000)	1	1	0	0	0	$1\overline{1}00$	11
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11	(000)	0	0	0	0	0	$1\overline{1}1\overline{1}$	00
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	12	/	1	1	0	0	0		<u></u>
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		, ,							
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		, ,							
$ \begin{array}{ c c c c c c c c }\hline & 191.238 & P6'/m'm' & Classification = \mathbb{Z}_M & X_{BS} = \mathbb{Z}_2 & SI = z'_{2P}\\\hline \mathbb{Z}_2 & weak & 6^{001}* & 2^{010}* & i & 2^{110} & Cm^{100}_{(2)}\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 22\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 22\\\hline 1 & (000) & 1 & 1 & 1 & 0 & 1I\\\hline & & & & & & & & & & & & & & & & \\\hline 191.239 & P6'/m'm' & Classification = \mathbb{Z}_M & X_{BS} = \mathbb{Z}_2 & SI = z'_{2P}\\\hline \mathbb{Z}_2 & weak & 6^{001}* & 2^{010} & i & 2^{110}* & m_{010}* & Cm^{210}_{(2)}\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 22\\\hline 1 & (000) & 1 & 0 & 1 & 1 & 0 & 1I\\\hline & & & & & & & & & & & & \\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 22\\\hline 1 & (000) & 1 & 0 & 1 & 1 & 0 & 1I\\\hline & & & & & & & & & & & \\\hline 291.240 & P6/mm'm' & Classification = \mathbb{Z}_M^2 \times \mathbb{Z} & X_{BS} = \mathbb{Z}_{6,6,6} & SI = z^+_{6m,0}, z^{6m,\pi}, z^+_{6m,0}, z^+_{6m,\pi}\\\hline \mathbb{Z}_{6,6,6} & weak & 6^{001} & 2^{010}* & i & 2^{110}* & m_{010}* & Cm^{001}_{(6)}\\\hline 000 & (0030) & 0 & 0 & 0 & 0 & 0 & 6,36,0,30\\\hline 000 & (0030) & 0 & 0 & 0 & 0 & 0 & 0666\\\hline 000 & (000) & 0 & 0 & 0 & 0 & 00666\\\hline 000 & (000) & 0 & 0 & 0 & 0 & 00666\\\hline 000 & (000) & 0 & 1 & 1 & 1 & 0 & 0011\\\hline 002 & (000) & 0 & 0 & 0 & 0 & 0 & 0022\\\hline 003 & (000) & 0 & 1 & 1 & 1 & 0 & 0033\\\hline 004 & (000) & 0 & 1 & 1 & 1 & 0 & 0035\\\hline 010 & (001) & 0 & 1 & 1 & 1 & 0 & 0005\\\hline 011 & (001) & 0 & 1 & 1 & 1 & 0 & 00101\\\hline 0011 & (001) & 0 & 0 & 0 & 0 & 0 & 0 & 0110\\\hline \end{array}$									
$\begin{array}{ c c c c c c c c c }\hline \mathbb{Z}_2 & \text{weak} & 6^{001} * & 2^{010} * & i & 2^{110} & Cm_{(2)}^{100} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 22 \\ \hline 1 & (000) & 1 & 1 & 1 & 0 & 11 \\ \hline \hline & & & & & & & & & & & & & & & & &$		(000)							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\mathbb{Z}_2$	weak	$6^{001}*$	$2^{010}*$	i	$2^{110}$	$Cm_{(2)}^{100}$		
$\begin{array}{ c c c c c c c c c }\hline 1 & (000) & 1 & 1 & 1 & 0 & 1\overline{1} \\ \hline & & & & & & & & & & & & & & & & & &$	0	(000)	0	0	0	0	$2\overline{2}$		
	0	(000)	0	0	0	0	$2\overline{2}$		
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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		/	101 220	D6'/m'n	am' Clas	ggification	- 7	V 7	CI = ~'
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1		0010				$R_{\rm BS} = \mathbb{Z}_2$	$SI = z_{2P}$
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$\begin{array}{ c c c c c c c c c }\hline 1 & (000) & 1 & 0 & 1 & 1 & 0 & 1\overline{1} \\ \hline & 191.240 & P6/mm'm' & Classification = \mathbb{Z}_M^2 \times \mathbb{Z} & X_{BS} = \mathbb{Z}_{6,6,6} & SI = z_{6m,0}^+, z_{6m,0}^-, z_{6m,\pi}^+ \\ \hline \mathbb{Z}_{6,6,6} & weak & 6^{001} & 2^{010}* & i & 2^{110}* & m_{010}* & Cm_{(6)}^{001} \\ \hline 000 & (0030) & 0 & 0 & 0 & 0 & 0 & 6, \overline{36}, 0, \overline{30} \\ \hline 000 & (006) & 0 & 0 & 0 & 0 & 0 & 0606 \\ \hline 000 & (000) & 0 & 0 & 0 & 0 & 0 & 0666 \\ \hline 000 & (000) & 0 & 0 & 0 & 0 & 0 & 0\overline{66} \\ \hline 001 & (000) & 0 & 1 & 1 & 1 & 0 & 001\overline{1} \\ \hline 002 & (000) & 0 & 0 & 0 & 0 & 0 & 02\overline{2} \\ \hline 003 & (000) & 0 & 1 & 1 & 1 & 0 & 003\overline{3} \\ \hline 004 & (000) & 0 & 1 & 1 & 1 & 0 & 005\overline{5} \\ \hline 010 & (00\overline{1}) & 0 & 1 & 1 & 1 & 0 & 0101 \\ \hline 011 & (001) & 0 & 0 & 0 & 0 & 0 & 0 & 0110 \\ \hline \end{array}$									
						0			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	(000)	1	0	1	1	0	11	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	19	1.240	P6/mm'r	n' Class	ification =	$=\mathbb{Z}_M^2  imes \mathbb{Z}_M$	$X_{BS} =$	$\mathbb{Z}_{6,6,6}$ SI	$=z_{6m,0}^+, z_{6m,0}^-, z_{6m,\pi}^+$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								$Cm_{(n)}^{001}$	She, One, Or Ohe, K
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								6 36 0 30	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		/						, , ,	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\overline{004}$	(000)	0	0	0	0	0	$004\overline{4}$	
011 (00 <u>1</u> ) 0 0 0 0 0 0110	005	(000)	0	1	1	1	0	$005\overline{5}$	
011 (00 <u>1</u> ) 0 0 0 0 0 0110	010	$(00\overline{1})$	0	1	1	1	0	0101	
		/	0		0				
V   (VV-)									
		/	=				-		

013	$(00\overline{1})$	0	0	0	0	0	$013\overline{2}$	_
014	$(00\overline{1})$	0	1	1	1	0	$014\overline{3}$	
015	$(00\overline{1})$	0	0	0	0	0	$015\overline{4}$	
020	$(00\overline{2})$	0	0	0	0	0	0202	
021	$(00\overline{2})$	0	1	1	1	0	0211	
022	(002)	0	0	0	0	0	0220	
$\frac{022}{023}$	$(002)$ $(00\overline{2})$	0	1	1	1	0	$023\overline{1}$	
	\							
024	$(00\overline{2})$	0	0	0	0	0	$024\overline{2}$	
025	$(00\overline{2})$	0	1	1	1	0	$025\overline{3}$	
030	$(00\overline{3})$	0	1	1	1	0	0303	
031	$(00\overline{3})$	0	0	0	0	0	0312	
032	$(00\overline{3})$	0	1	1	1	0	0321	
033	$(00\overline{3})$	0	0	0	0	0	0330	
034	$(00\overline{3})$	0	1	1	1	0	$034\overline{1}$	
035	$(00\overline{3})$	0	0	0	0	0	$035\overline{2}$	
040	$(00\overline{4})$	0	0	0	0	0	0404	
041	$(00\overline{4})$	0	1	1	1	0	0413	
042	$(00\overline{4})$	0	0	0	0	0	0422	
$\frac{042}{043}$	(004) $(004)$	0	1	1	1	0	0431	
044	$(00\overline{4})$	0	0	0	0	0	0440	
045	$(00\overline{4})$	0	1	1	1	0	$045\overline{1}$	
050	$(00\overline{5})$	0	1	1	1	0	0505	
051	$(00\overline{5})$	0	0	0	0	0	0514	
052	$(00\overline{5})$	0	1	1	1	0	0523	
053	$(00\overline{5})$	0	0	0	0	0	0532	_
054	$(00\overline{5})$	0	1	1	1	0	0541	
055	$(00\bar{5})$	0	0	0	0	0	0550	
100	(005)	0	0	0	0	0	$1\overline{6}0\overline{5}$	
101	(005)	0	1	1	1	0	$1\overline{6}1\overline{6}$	
102	(005)	0	0	0	0	0	$\frac{1616}{1\overline{6}2\overline{7}}$	
$\frac{102}{103}$	(005)							
100				1	1	Ω	1690	
104		0	1	1	1	0	$1\overline{6}3\overline{8}$	
104	(005)	0	0	0	0	0	$1\overline{6}4\overline{9}$	
105	(005) (005)	0	0	0	0	0	$\frac{1\overline{6}4\overline{9}}{1,\overline{6},5,\overline{10}}$	
105 110	(005) (005) (004)	0 0	0 1 1	0 1 1	0 1 1	0 0 0	$   \begin{array}{r}     1\overline{6}4\overline{9} \\     1, \overline{6}, 5, \overline{10} \\     1\overline{5}0\overline{4}   \end{array} $	
105 110 111	(005) (005) (004) (004)	0 0 0 0	0 1 1 0	0	0 1 1 0	0 0 0 0	$   \begin{array}{r}     1\overline{6}4\overline{9} \\     1, \overline{6}, 5, \overline{10} \\     1\overline{5}0\overline{4} \\     1\overline{5}1\overline{5}   \end{array} $	
105 110	(005) (005) (004) (004) (004)	0 0 0 0	0 1 1	0 1 1	0 1 1 0 1	0 0 0 0	$ \begin{array}{r} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ 1\overline{5}0\overline{4} \\ 1\overline{5}1\overline{5} \\ 1\overline{5}2\overline{6} \end{array} $	
105 110 111	(005) (005) (004) (004)	0 0 0 0	0 1 1 0	0 1 1 0	0 1 1 0	0 0 0 0	$   \begin{array}{r}     1\overline{6}4\overline{9} \\     1, \overline{6}, 5, \overline{10} \\     1\overline{5}0\overline{4} \\     1\overline{5}1\overline{5}   \end{array} $	
105 110 111 112	(005) (005) (004) (004) (004)	0 0 0 0	0 1 1 0	0 1 1 0	0 1 1 0 1	0 0 0 0	$ \begin{array}{r} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ 1\overline{5}0\overline{4} \\ 1\overline{5}1\overline{5} \\ 1\overline{5}2\overline{6} \end{array} $	
105 110 111 112 113	(005) (005) (004) (004) (004) (004)	0 0 0 0 0	0 1 1 0 1	0 1 1 0 1	0 1 1 0 1	0 0 0 0 0	$ \begin{array}{r} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ 1\overline{5}0\overline{4} \\ 1\overline{5}1\overline{5} \\ 1\overline{5}2\overline{6} \\ 1\overline{5}3\overline{7} \end{array} $	
105 110 111 112 113 114 115	(005) (005) (004) (004) (004) (004) (004) (004)	0 0 0 0 0 0	0 1 1 0 1 0 1	0 1 1 0 1 0 1	0 1 1 0 1 0 1	0 0 0 0 0 0 0	$     \begin{array}{r}                                     $	
105 110 111 112 113 114 115 120	(005) (005) (004) (004) (004) (004) (004) (004) (003)	0 0 0 0 0	0 1 1 0 1 0 1	0 1 1 0 1 0 1	0 1 1 0 1 0 1	0 0 0 0 0 0 0	$     \begin{array}{r}                                     $	
105 110 111 112 113 114 115 120 121	(005) (005) (004) (004) (004) (004) (004) (004) (003) (003)	0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0	0 1 1 0 1 0 1 0 0 1	0 1 1 0 1 0 1 0 0	0 0 0 0 0 0 0 0	$     \begin{array}{r}                                     $	
105 110 111 112 113 114 115 120 121 122	(005) (005) (004) (004) (004) (004) (004) (004) (003) (003) (003)	0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 0 1	0 1 1 0 1 0 1 0 0 1 0 0	0 1 1 0 1 0 1 0 0 0 1	0 0 0 0 0 0 0 0 0 0	$     \begin{array}{r}                                     $	
105 110 111 112 113 114 115 120 121 122 123	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003)	0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 0	0 1 1 0 1 0 1 0 0 1 0 0 1	0 1 1 0 1 0 1 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0	$ \begin{array}{r} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ 1\overline{5}0\overline{4} \\ 1\overline{5}1\overline{5} \\ 1\overline{5}2\overline{6} \\ 1\overline{5}3\overline{7} \\ 1\overline{5}4\overline{8} \\ 1\overline{5}5\overline{9} \\ 1\overline{4}0\overline{3} \\ 1\overline{4}1\overline{4} \\ 1\overline{4}2\overline{5} \\ 1\overline{4}3\overline{6} \end{array} $	
105 110 111 112 113 114 115 120 121 122 123 124	(005) (005) (004) (004) (004) (004) (004) (004) (003) (003) (003) (003)	0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 0 1	0 1 1 0 1 0 1 0 0 1 0 0 1	0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ \hline 1,\overline{6},5,\overline{10} \\ \hline 1\overline{5}0\overline{4} \\ \hline 1\overline{5}1\overline{5} \\ \hline 1\overline{5}2\overline{6} \\ \hline 1\overline{5}3\overline{7} \\ \hline 1\overline{5}4\overline{8} \\ \hline 1\overline{5}5\overline{9} \\ \hline 1\overline{4}0\overline{3} \\ \hline 1\overline{4}1\overline{4} \\ \hline 1\overline{4}2\overline{5} \\ \hline 1\overline{4}3\overline{6} \\ \hline 1\overline{4}4\overline{7} \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003)	0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1,\overline{6},5,\overline{10} \\ \hline 150\overline{4} \\ \hline 151\overline{5} \\ \hline 152\overline{6} \\ \hline 153\overline{7} \\ \hline 154\overline{8} \\ \hline 155\overline{9} \\ \hline 140\overline{3} \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 144\overline{7} \\ \hline 145\overline{8} \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (003)	0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 150\overline{4} \\ \hline 151\overline{5} \\ \hline 152\overline{6} \\ \hline 153\overline{7} \\ \hline 154\overline{8} \\ \hline 155\overline{9} \\ \hline 140\overline{3} \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 144\overline{7} \\ \hline 145\overline{8} \\ \hline 130\overline{2} \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (003) (003) (002)	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 150\overline{4} \\ \hline 151\overline{5} \\ \hline 152\overline{6} \\ \hline 153\overline{7} \\ \hline 1548 \\ \hline 155\overline{9} \\ \hline 140\overline{3} \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 144\overline{7} \\ \hline 145\overline{8} \\ \hline 130\overline{2} \\ \hline 131\overline{3} \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (003) (002) (002)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 150\overline{4} \\ \hline 151\overline{5} \\ \hline 152\overline{6} \\ \hline 153\overline{7} \\ \hline 154\overline{8} \\ \hline 155\overline{9} \\ \hline 140\overline{3} \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 144\overline{7} \\ \hline 145\overline{8} \\ \hline 130\overline{2} \\ \hline 131\overline{3} \\ \hline 132\overline{4} \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132 133	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (002) (002) (002)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 150\overline{4} \\ \hline 151\overline{5} \\ \hline 1526 \\ \hline 153\overline{7} \\ \hline 1548 \\ \hline 1559 \\ \hline 140\overline{3} \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 144\overline{7} \\ \hline 145\overline{8} \\ \hline 130\overline{2} \\ \hline 131\overline{3} \\ \hline 132\overline{4} \\ \hline 133\overline{5} \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132 133 134	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (002) (002) (002) (002) (002)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 1504 \\ 1\overline{5}15 \\ \hline 1526 \\ \hline 1537 \\ \overline{1548} \\ \hline 1548 \\ \hline 1559 \\ \overline{1403} \\ \hline 1414 \\ \hline 1425 \\ \hline 1436 \\ \hline 1447 \\ \hline 1458 \\ \hline 1302 \\ \hline 1313 \\ \hline 1324 \\ \hline 1335 \\ \hline 1346 \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132 133 134 135	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (002) (002) (002) (002) (002) (002)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 1504 \\ 1\overline{5}04 \\ \hline 1515 \\ \hline 1526 \\ \hline 1537 \\ \hline 1548 \\ \hline 1559 \\ \hline 1403 \\ \hline 1414 \\ \hline 1425 \\ \hline 1436 \\ \hline 1447 \\ \hline 1458 \\ \hline 1302 \\ \hline 1313 \\ \hline 1324 \\ \hline 1335 \\ \hline 1346 \\ \hline 1357 \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132 133 134	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (002) (002) (002) (002) (002)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 1504 \\ 1\overline{5}15 \\ \hline 1526 \\ \hline 1537 \\ \overline{1548} \\ \hline 1548 \\ \hline 1559 \\ \overline{1403} \\ \hline 1414 \\ \hline 1425 \\ \hline 1436 \\ \hline 1447 \\ \hline 1458 \\ \hline 1302 \\ \hline 1313 \\ \hline 1324 \\ \hline 1335 \\ \hline 1346 \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132 133 134 135	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (002) (002) (002) (002) (002) (002)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 1504 \\ 1\overline{5}04 \\ \hline 1515 \\ \hline 1526 \\ \hline 1537 \\ \hline 1548 \\ \hline 1559 \\ \hline 1403 \\ \hline 1414 \\ \hline 1425 \\ \hline 1436 \\ \hline 1447 \\ \hline 1458 \\ \hline 1302 \\ \hline 1313 \\ \hline 1324 \\ \hline 1335 \\ \hline 1346 \\ \hline 1357 \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132 133 134 135 140 141	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (002) (002) (002) (002) (002) (002) (002) (002) (001) (001)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 1504 \\ 1\overline{5}04 \\ \hline 151\overline{5} \\ \hline 152\overline{6} \\ \hline 153\overline{7} \\ \hline 154\overline{8} \\ \hline 155\overline{9} \\ \hline 1403 \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 144\overline{7} \\ \hline 145\overline{8} \\ \hline 1302 \\ \hline 131\overline{3} \\ \hline 132\overline{4} \\ \hline 133\overline{5} \\ \hline 134\overline{6} \\ \hline 135\overline{7} \\ \hline 120\overline{1} \\ \hline 121\overline{2} \\ \hline \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132 133 134 135 140 141	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (002) (002) (002) (002) (002) (002) (001) (001)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 1504 \\ 1\overline{5}04 \\ \hline 151\overline{5} \\ \hline 152\overline{6} \\ \hline 153\overline{7} \\ \hline 154\overline{8} \\ \hline 155\overline{9} \\ \hline 140\overline{3} \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 144\overline{7} \\ \hline 145\overline{8} \\ \hline 130\overline{2} \\ \hline 131\overline{3} \\ \hline 132\overline{4} \\ \hline 133\overline{5} \\ \hline 134\overline{6} \\ \hline 135\overline{7} \\ \hline 120\overline{1} \\ \hline 1212 \\ \hline 122\overline{3} \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132 133 134 135 140 141 142 143	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (002) (002) (002) (002) (002) (002) (001) (001) (001)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 1504 \\ 1\overline{5}15 \\ \hline 152\overline{6} \\ \hline 153\overline{7} \\ 1\overline{5}4\overline{8} \\ \hline 153\overline{7} \\ 1\overline{5}4\overline{8} \\ \hline 155\overline{9} \\ 1\overline{4}0\overline{3} \\ \hline 1414 \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 1447 \\ \hline 145\overline{8} \\ \hline 130\overline{2} \\ \hline 131\overline{3} \\ \hline 1324 \\ \hline 133\overline{5} \\ \hline 134\overline{6} \\ \hline 120\overline{1} \\ \hline 121\overline{2} \\ \hline 122\overline{3} \\ \hline 123\overline{4} \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132 133 134 135 140 141 142 143 144	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (002) (002) (002) (002) (002) (001) (001) (001)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 1504 \\ 1\overline{5}04 \\ \hline 1515 \\ \hline 1526 \\ \hline 1537 \\ \hline 1548 \\ \hline 1559 \\ \hline 1403 \\ \hline 1414 \\ \hline 1425 \\ \hline 1436 \\ \hline 1447 \\ \hline 1458 \\ \hline 1302 \\ \hline 1313 \\ \hline 1324 \\ \hline 1357 \\ \hline 1201 \\ \hline 1212 \\ \hline 1223 \\ \hline 1234 \\ \hline 1245 \\ \hline \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132 133 134 135 140 141 142 143 144 145	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (002) (002) (002) (002) (002) (001) (001) (001) (001)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 150\overline{4} \\ 1\overline{5}0\overline{4} \\ \hline 151\overline{5} \\ \hline 152\overline{6} \\ \hline 153\overline{7} \\ \hline 1548 \\ \hline 155\overline{9} \\ \hline 140\overline{3} \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 144\overline{7} \\ \hline 1458 \\ \hline 130\overline{2} \\ \hline 131\overline{3} \\ \hline 132\overline{4} \\ \hline 135\overline{7} \\ \hline 120\overline{1} \\ \hline 121\overline{2} \\ \hline 122\overline{3} \\ \hline 125\overline{6} \\ \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132 133 134 135 140 141 142 143 144 145 150	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (002) (002) (002) (002) (002) (002) (001) (001) (001) (001) (000)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 150\overline{4} \\ \hline 150\overline{4} \\ \hline 151\overline{5} \\ \hline 1526 \\ \hline 153\overline{7} \\ \hline 1548 \\ \hline 1559 \\ \hline 1403 \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 144\overline{7} \\ \hline 1458 \\ \hline 130\overline{2} \\ \hline 131\overline{3} \\ \hline 132\overline{4} \\ \hline 135\overline{7} \\ \hline 120\overline{1} \\ \hline 121\overline{2} \\ \hline 122\overline{3} \\ \hline 125\overline{6} \\ \hline 1100 \\ \hline \end{array}$	
105 110 111 112 113 114 115 120 121 122 123 124 125 130 131 132 133 134 135 140 141 142 143 144 145	(005) (005) (004) (004) (004) (004) (004) (003) (003) (003) (003) (003) (003) (002) (002) (002) (002) (002) (001) (001) (001) (001)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1\overline{6}4\overline{9} \\ 1, \overline{6}, 5, \overline{10} \\ \hline 150\overline{4} \\ 1\overline{5}0\overline{4} \\ \hline 151\overline{5} \\ \hline 152\overline{6} \\ \hline 153\overline{7} \\ \hline 1548 \\ \hline 155\overline{9} \\ \hline 140\overline{3} \\ \hline 141\overline{4} \\ \hline 142\overline{5} \\ \hline 143\overline{6} \\ \hline 144\overline{7} \\ \hline 1458 \\ \hline 130\overline{2} \\ \hline 131\overline{3} \\ \hline 132\overline{4} \\ \hline 135\overline{7} \\ \hline 120\overline{1} \\ \hline 121\overline{2} \\ \hline 122\overline{3} \\ \hline 125\overline{6} \\ \end{array}$	

	1 />						.=.
152	(000)	0	1	1	1	0	$1\overline{1}2\overline{2}$
153	(000)	0	0	0	0	0	1133
154	(000)	0	1	1	1	0	$1\overline{1}4\overline{4}$
155	(000)	0	0	0	0	0	$1\overline{1}5\overline{5}$
200	(0010)	0	0	0	0	0	$2, \overline{12}, 0, \overline{10}$
201	(0010)	0	1	1	1	0	$2, \overline{12}, 1, \overline{11}$
202	(0010)	0	0	0	0	0	$2, \overline{12}, 2, \overline{12}$
203	(0010)	0	1	1	1	0	$2, \overline{12}, 3, \overline{13}$
204	(0010)	0	0	0	0	0	$2, \overline{12}, 4, \overline{14}$
205	(0010)	0	1	1	1	0	$2, \overline{12}, 5, \overline{15}$
210	(009)	0	1	1	1	0	$2,\overline{11},0,\overline{9}$
211	(009)	0	0	0	0	0	$2,\overline{11},1,\overline{10}$
212	(009)	0	1	1	1	0	$2,\overline{11},2,\overline{11}$
213	(009)	0	0	0	0	0	$2,\overline{11},\overline{3},\overline{12}$
214	(009)	0	1	1	1	0	$2,\overline{11},4,\overline{13}$
215	(009)	0	0	0	0	0	$2,\overline{11},\overline{5},\overline{14}$
220	(008)	0	0	0	0	0	$2, \overline{10}, 0, \overline{8}$
221	(008)	0	1	1	1	0	$2,\overline{10},1,\overline{9}$
222	(008)	0	0	0	0	0	$\frac{2}{10}, \frac{2}{10}, \frac{2}{10}$
223	(008)	0	1	1	1	0	$\frac{2}{2}, \frac{2}{10}, \frac{2}{3}, \frac{2}{11}$
224	(008)	0	0	0	0	0	$\frac{2,\overline{10},\overline{3,11}}{2,\overline{10},4,\overline{12}}$
225	(008)	0	1	1	1	0	$\frac{2}{2}, \frac{10}{10}, 5, \frac{12}{13}$
230	(007)	0	1	1	1	0	$\frac{2,10,0,10}{2907}$
$\frac{230}{231}$	(007)	0	0	0	0	0	2918
$\frac{231}{232}$	(007)	0	1	1	1	0	$\frac{2919}{2929}$
$\frac{232}{233}$	(007)	0	0	0	0	0	$\frac{2525}{2, \overline{9}, 3, \overline{10}}$
$\frac{233}{234}$	(007)	0	1	1	1	0	$\frac{2, \overline{9}, \overline{9}, \overline{10}}{2, \overline{9}, \overline{4}, \overline{11}}$
$\frac{234}{235}$	(007)	0	0	0	0	0	$\frac{2, \overline{9}, \overline{4}, \overline{11}}{2, \overline{9}, \overline{5}, \overline{12}}$
$\frac{230}{240}$	(006)	0	0	0	0	0	$\frac{2,9,5,12}{2806}$
$\frac{240}{241}$	(006)	0	1	1	1	0	$\frac{2800}{2817}$
$\frac{241}{242}$	(006)	0	0	0	0	0	$\frac{2817}{2828}$
$\frac{242}{243}$	(006)	0	1	1	1	0	$\frac{2826}{2839}$
$\frac{243}{244}$	(006)	0	0	0	0	0	$\frac{2839}{2,\overline{8},4,\overline{10}}$
$\frac{244}{245}$	(006)		1	1	1	0	$\frac{2, 8, 4, 10}{2, \overline{8}, 5, \overline{11}}$
$\frac{243}{250}$	(005)	0	1	1	1	0	$\frac{2, 6, 5, 11}{2705}$
$\frac{250}{251}$	(005)	0		0	0	0	$\frac{2705}{2716}$
$\frac{251}{252}$	(005)	0	0	1	1	0	$\frac{2710}{2727}$
$\frac{252}{253}$	(005)	0	0	0		0	2738
$\frac{253}{254}$	(005)	0	1	1	0	0	2749 2749
	+ ; ; ; ;						
$\frac{255}{200}$	(005)	0	0	0	0	0	$\frac{2,7,5,10}{2,18,0,15}$
300	(0015)	0	0	0	0	0	$3, \overline{18}, 0, \overline{15}$
301	(0015)	0	1	1	1	0	$3, \overline{18}, 1, \overline{16}$
302	(0015)	0	0	0	0	0	$3, \overline{18}, 2, \overline{17}$
303	(0015)	0	1	1	1	0	$3,\overline{18},3,\overline{18}$
304	(0015)	0	0	0	0	0	$3, \overline{18}, 4, \overline{19}$
305	(0015)	0	1	1	1	0	$3, \overline{18}, 5, \overline{20}$
310	(0014)	0	1	1	1	0	$\frac{3,17,0,14}{2,15}$
311	(0014)	0	0	0	0	0	$3,\overline{17},1,\overline{15}$
312	(0014)	0	1	1	1	0	$3, \overline{17}, 2, \overline{16}$
313	(0014)	0	0	0	0	0	$3, \overline{17}, 3, \overline{17}$
314	(0014)	0	1	1	1	0	$3, \overline{17}, 4, \overline{18}$
315	(0014)	0	0	0	0	0	$3,\overline{17},5,\overline{19}$
320	(0013)	0	0	0	0	0	$3, \overline{16}, 0, \overline{13}$
321	(0013)	0	1	1	1	0	$3, \overline{16}, 1, \overline{14}$
322	(0013)	0	0	0	0	0	$3, \overline{16}, 2, \overline{15}$
323	(0013)	0	1	1	1	0	$3,\overline{16},3,\overline{16}$
324	(0013)	0	0	0	0	0	$3,\overline{16},4,\overline{17}$
$\frac{325}{330}$	(0013)	0	1	1	1	0	$3, \overline{16}, 5, \overline{18}$
	(0012)	0	1	1	1	0	$3, \overline{15}, 0, \overline{12}$

331	(0012)	0	0	0	0	0	$3, \overline{15}, 1, \overline{13}$
332	(0012)	0	1	1	1	0	$3, \overline{15}, 2, \overline{14}$
333	(0012)	0	0	0	0	0	$3, \overline{15}, \overline{3}, \overline{15}$
334	(0012)	0	1	1	1	0	$3, \overline{15}, 4, \overline{16}$
335	(0012)	0	0	0	0	0	$3, \overline{15}, 5, \overline{17}$
340	(0011)	0	0	0	0	0	$3, \overline{14}, 0, \overline{11}$
341	(0011)	0	1	1	1	0	$3, \overline{14}, 1, \overline{12}$
342	(0011)	0	0	0	0	0	$\overline{3,\overline{14},2,\overline{13}}$
343	(0011)	0	1	1	1	0	$\overline{3,\overline{14},3,\overline{14}}$
344	(0011)	0	0	0	0	0	$3,\overline{14},\overline{4},\overline{15}$
345	(0011)	0	1	1	1	0	$\overline{3}, \overline{14}, \overline{5}, \overline{16}$
350	(0010)	0	1	1	1	0	$3, \overline{13}, 0, \overline{10}$
351	(0010)	0	0	0	0	0	$\frac{3}{3}, \frac{2}{13}, \frac{3}{11}$
352	(0010)	0	1	1	1	0	$\frac{3}{3}, \frac{13}{13}, \frac{12}{12}$
353	(0010)	0	0	0	0	0	$\frac{3}{3}, \frac{3}{13}, \frac{7}{3}, \frac{2}{13}$
354	(0010)	0	1	1	1	0	$\frac{3, \overline{13}, \overline{4}, \overline{14}}{3, \overline{13}, \overline{4}, \overline{14}}$
355	(0010)	0	0	0	0	0	$\frac{3,\overline{13},\overline{15},\overline{15}}{3,\overline{13},5,\overline{15}}$
400	(0020)	0	0	0	0	0	$\frac{3, \overline{10}, 0, \overline{10}}{4, \overline{24}, 0, \overline{20}}$
401	(0020)	0	1	1	1	0	$\frac{1,\overline{21},0,\overline{20}}{4,\overline{24},1,\overline{21}}$
402	(0020)	0	0	0	0	0	$\frac{4,24,1,21}{4,\overline{24},2,\overline{22}}$
$\frac{402}{403}$	(0020)	0	1	1	1	0	$\frac{4,24,2,22}{4,\overline{24},3,\overline{23}}$
$\frac{403}{404}$	(0020)	0	0	0	0	0	$\frac{4,24,3,25}{4,\overline{24},4,\overline{24}}$
405	(0020)	0	1	1	1	0	$\frac{4,24,4,24}{4,\overline{24},5,\overline{25}}$
$\frac{100}{410}$	(0019)	0	1	1	1	0	$\frac{1,21,6,25}{4,\overline{23},0,\overline{19}}$
411	(0019)	0	0	0	0	0	$\frac{1,26,6,15}{4,\overline{23},1,\overline{20}}$
$\frac{411}{412}$	(0019)	0	1	1	1	0	$\frac{4,25,1,26}{4,\overline{23},2,\overline{21}}$
413	(0019)	0	0	0	0	0	$\frac{4,23,2,21}{4,\overline{23},3,\overline{22}}$
$\frac{413}{414}$	(0019)	0	1	1	1	0	$\frac{4,23,3,22}{4,\overline{23},4,\overline{23}}$
415	(0019)	0	0	0	0	0	$\frac{4,23,4,23}{4,\overline{23},5,\overline{24}}$
$\frac{410}{420}$	(0019)	0	0	0	0	0	$\frac{4,23,3,24}{4,\overline{22},0,\overline{18}}$
421	(0018)	0	1	1	1	0	$\frac{4,22,0,18}{4,\overline{22},1,\overline{19}}$
$\frac{421}{422}$	(0018)	0	0	0	0	0	$\frac{4,22,1,19}{4,\overline{22},2,\overline{20}}$
$\frac{422}{423}$	(0018)	0	1	1	1	0	$\frac{4,22,2,20}{4,\overline{22},3,\overline{21}}$
$\frac{423}{424}$	(0018)	0	0	0	0		$\frac{4,22,3,21}{4,\overline{22},4,\overline{22}}$
$\frac{424}{425}$	(0018)	0	1	1	1	0	$\frac{4,22,4,22}{4,22,5,23}$
$\frac{423}{430}$	/	0	1	1	1	0	$\frac{4,22,3,23}{4,\overline{21},0,\overline{17}}$
$\frac{430}{431}$	(0017)	0	0	0	0	0	4, 21, 0, 17 4, 21, 1, 18
	/						
432	(0017)	0	1	1	1	0	$4,\overline{21},2,\overline{19}$
433	(0017)	0	0	0	0	0	$4,\overline{21},3,\overline{20}$
434	(0017)	0	$\frac{1}{0}$	$\frac{1}{0}$	$\frac{1}{0}$	0	4,21,4,21
435	(0017)						$4,\overline{21},5,\overline{22}$
440	(0016)	0	0	0	0	0	$4,\overline{20},0,\overline{16}$
441	/		1	1	1	0	$4, \overline{20}, 1, \overline{17}$
442	(0016)	0	0	0	0	0	$4, \overline{20}, 2, \overline{18}$
443	(0016)	0	1	1	1	0	$4, \overline{20}, 3, \overline{19}$
444	(0016)	0	0	0	0	0	$4, \overline{20}, 4, \overline{20}$
445	(0016)	0	1	1	1	0	4,20,5,21
450	(0015)	0	1	1	1	0	$4, \overline{19}, 0, \overline{15}$
$\frac{451}{452}$	(0015)	0	0	0	0	0	$\frac{4,19,1,16}{4,10,2,17}$
$\frac{452}{452}$	(0015)	0	1	1	1	0	$\frac{4,\overline{19},2,\overline{17}}{4,\overline{10},2,\overline{18}}$
453	(0015)	0	0	0	0	0	4, 19, 3, 18
454	(0015)	0	1	1	1	0	$4,\overline{19},4,\overline{19}$
455	(0015)	0	0	0	0	0	$4, \overline{19}, 5, \overline{20}$
500	(0025)	0	0	0	0	0	$5, \overline{30}, 0, \overline{25}$
501	(0025)	0	1	1	1	0	5, <del>30</del> , 1, <del>26</del>
502	(0025)	0	0	0	0	0	$5, \overline{30}, 2, \overline{27}$
503	(0025)	0	1	1	1	0	$5, \overline{30}, 3, \overline{28}$
504	(0025)	0	0	0	0	0	$5, \overline{30}, 4, \overline{29}$
505	(0025)	0	1	1	1	0	$5, \overline{30}, 5, \overline{30}$

510	(0024)	0	1	1	1	0	$5, \overline{29}, 0, \overline{24}$			
511	(0024)	0	0	0	0	0	$5, \overline{29}, 1, \overline{25}$			
512	(0024)	0	1	1	1	0	$5, \overline{29}, 2, \overline{26}$			
513	(0024)	0	0	0	0	0	$5, \overline{29}, 3, \overline{27}$			
514	(0024)	0	1	1	1	0	$5, \overline{29}, 4, \overline{28}$			
515	(0024)	0	0	0	0	0	$5, \overline{29}, 5, \overline{29}$			
520	(0023)	0	0	0	0	0	$5, \overline{28}, 0, \overline{23}$			
521	(0023)	0	1	1	1	0	$5, \overline{28}, 1, \overline{24}$			
$\frac{521}{522}$	(0023)	0	0	0	0	0	$5, \overline{28}, \overline{25}$			
$\frac{522}{523}$	(0023)	0	1	1	1	0	$5, \overline{28}, 2, \overline{26}$ $5, \overline{28}, 3, \overline{26}$			
	/									
524	(0023)	0	0	0	0	0	$5, \overline{28}, 4, \overline{27}$			
525	(0023)	0	1	1	1	0	$5, \overline{28}, 5, \overline{28}$			
530	(0022)	0	1	1	1	0	5, 27, 0, 22			
531	(0022)	0	0	0	0	0	$5, \overline{27}, 1, \overline{23}$			
532	(0022)	0	1	1	1	0	$5, \overline{27}, 2, \overline{24}$			
533	(0022)	0	0	0	0	0	$5, \overline{27}, 3, \overline{25}$			
534	(0022)	0	1	1	1	0	$5, \overline{27}, 4, \overline{26}$			
535	(0022)	0	0	0	0	0	$5, \overline{27}, 5, \overline{27}$			
540	(0021)	0	0	0	0	0	$5, \overline{26}, 0, \overline{21}$			
541	(0021)	0	1	1	1	0	$5, \overline{26}, 1, \overline{22}$			
542	(0021)	0	0	0	0	0	$5, \overline{26}, 2, \overline{23}$			
543	(0021)	0	1	1	1	0	$5, \overline{26}, 3, \overline{24}$			
544	(0021)	0	0	0	0	0	$5, \overline{26}, 4, \overline{25}$			
545	(0021)	0	1	1	1	0	$5,\overline{26},5,\overline{26}$			
550	(0020)	0	1	1	1	0	$5, \overline{25}, 0, \overline{20}$			
551	(0020)	0	0	0	0	0	$5, \overline{25}, 1, \overline{21}$			
$\frac{-551}{552}$	(0020)	0	1	1	1	0	$5, \overline{25}, \overline{1, 21}$			
553	(0020)	0	0	0	0	0	$5, \overline{25}, \overline{25}, \overline{3}, \overline{23}$			
555	(0020)	U	U	U	U	U				
EE 1	(0020)	Λ	1	1	1	0	F 0F 4 04			
554	(0020)	0	1	1	1	0	$5, \overline{25}, 4, \overline{24}$			
554 555	(0020)	0	0	0	0	0	$5, \overline{25}, 5, \overline{25}$			
555		0 191.242	$\frac{0}{P_c 6/mmm}$	0 1 Cla	0 assification	$= \mathbb{Z}_M^3$	$5, \overline{25}, 5, \overline{25}$ $X_{BS} = \mathbb{Z}_{12}$	$SI = z_{12}$		
		0	0	0	0	0	$5, \overline{25}, 5, \overline{25}$ $X_{BS} = \mathbb{Z}_{12}$		$Cm_{(2)}^{210}$	
555	(0020)	0 191.242	$\frac{0}{P_c 6/mmm}$	0 1 Cla	0 assification	$= \mathbb{Z}_M^3$	$5, \overline{25}, 5, \overline{25}$			<u> </u>
$\mathbb{Z}_{12}$	(0020) weak	$0 \\ 191.242 \\ \{1 00\frac{1}{2}\}*$	$\frac{0}{P_c6/mmm}$ $6^{001}$	0 n Cla 2 <sup>010</sup>	$\frac{0}{i}$	$0 = \mathbb{Z}_M^3$ $2^{110}$	$5, \overline{25}, 5, \overline{25}$ $X_{BS} = \mathbb{Z}_{12}$ $Cm_{(2)}^{100}$	$C\underline{m_{(6)}^{001}}$		
$ \begin{array}{c c} \hline  & 555 \\ \hline  & \mathbb{Z}_{12} \\ \hline  & 0 \end{array} $	(0020) weak (000)	$ \begin{array}{c} 0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \end{array} $	$ \begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \end{array} $	$ \begin{array}{c} 0 \\                                   $	0 assification: $i$ $0$	$ \begin{array}{c} 0 \\ = \mathbb{Z}_M^3 \\ 2^{110} \\ 0 \end{array} $	$5, \overline{25}, 5, \overline{25}$ $X_{BS} = \mathbb{Z}_{12}$ $Cm_{(2)}^{100}$ $12, \overline{12}$	$\frac{Cm_{(6)}^{001}}{12, \overline{12}, 0, 0}$	$12, \overline{12}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \end{array} $	weak (000) (000) (000)	$0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0$	$ \begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \end{array} $	0 n Cla 2 <sup>010</sup> 0	0 assification =  i 0 0	$ \begin{array}{c} 0 \\ = \mathbb{Z}_M^3 \\ 2^{110} \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm_{(2)}^{100} \\ \hline 12, \overline{12} \\ \hline 44 \\ \hline \overline{22} \\ \end{array}$	$ \begin{array}{r} Cm_{(6)}^{001} \\ 12, \overline{12}, 0, 0 \\ \overline{6600} \\ 0000 \end{array} $	$\frac{12,\overline{12}}{\overline{6}6}$	
$ \begin{array}{c c} \hline  & 555 \\ \hline  & \mathbb{Z}_{12} \\ \hline  & 0 \\  & 0 \\ \hline  & 0 \\ \hline  & 0 \end{array} $	weak (000) (000) (000) (000)	$0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \end{array} $	0 n Cla 2010 0 0 0 0	0 assification =	$ \begin{array}{c} 0 \\ = \mathbb{Z}_M^3 \\ 2^{110} \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ X_{\rm BS} = \mathbb{Z}_{12} \\ Cm_{(2)}^{100} \\ 12, \overline{12} \\ \overline{44} \\ \overline{22} \\ \overline{66} \end{array}$	$ \begin{array}{c} Cm_{(6)}^{001} \\ 12, \overline{12}, 0, 0 \\ \overline{6600} \\ 0000 \\ \overline{6600} \end{array} $	$ \begin{array}{r} 12, \overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \end{array} $	
$ \begin{array}{c c} \hline  & & \\  & & \\ \hline  & & \\  &$	weak (000) (000) (000) (000) (000)	$0\\191.242\\\{1 00\frac{1}{2}\}*\\0\\0\\0\\0\\1$	$ \begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	0 n Cla 2 <sup>010</sup> 0 0 0 0	0 assification:  i 0 0 0 0 0 1	$ \begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ X_{\rm BS} = \mathbb{Z}_{12} \\ Cm_{(2)}^{100} \\ 12, \overline{12} \\ \overline{44} \\ \overline{22} \\ \overline{66} \\ 1\overline{1} \end{array}$	$\begin{array}{c} Cm_{(6)}^{001} \\ 12, \overline{12}, 0, 0 \\ \hline 6600 \\ 0000 \\ \hline \overline{6600} \\ 1\overline{100} \\ \end{array}$	$   \begin{array}{c c}     \hline             12, \overline{12} \\             \hline             66 \\           $	
$ \begin{array}{c c} \hline  & & \\  & &$	weak (000) (000) (000) (000) (000) (000)	$0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0$	$ \begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	0 Cla 2010 O O O O O O O	0 assification:  i 0 0 0 0 1 0 0	$ \begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ X_{BS} = \mathbb{Z}_{12} \\ Cm_{(2)}^{100} \\ 12, \overline{12} \\ \overline{44} \\ \overline{22} \\ \overline{66} \\ 1\overline{1} \\ \overline{22} \\ \end{array}$	$\begin{array}{c} Cm^{001}_{(6)} \\ 12, \overline{12}, 0, 0 \\ \hline 6600 \\ 0000 \\ \overline{6600} \\ 1\overline{100} \\ 2\overline{2}00 \\ \end{array}$	$   \begin{array}{c c}     \hline             12, \overline{12} \\             \hline             66 \\           $	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ 2 \\ 9 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000)	$0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	0 a Cla 2010 0 0 0 0 0 0 0 0 0 0	0 assification:	$ \begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \overline{X}_{BS} = \mathbb{Z}_{12} \\ \overline{Cm_{(2)}^{100}} \\ 12, \overline{12} \\ \overline{44} \\ \overline{22} \\ \overline{66} \\ 1\overline{1} \\ \overline{22} \\ \overline{33} \\ \end{array}$	$\begin{array}{c} Cm_{(6)}^{001} \\ 12, \overline{12}, 0, 0 \\ \hline 6600 \\ 0000 \\ \hline 6600 \\ 1\overline{100} \\ 2\overline{2}00 \\ 3\overline{3}00 \\ \end{array}$	$   \begin{array}{r}     12, \overline{12} \\     \hline     66 \\     \hline     22 \\     \hline     44 \\     1\overline{1} \\     2\overline{2} \\     3\overline{3}   \end{array} $	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ 2 \\ 9 \\ 4 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ \hline 191.242 \\ \{1 00\frac{1}{2}\}* \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 Cla 2 Cla	0 assification:  i 0 0 0 0 1 1 0 1	$ \begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ 12, \overline{12} \\ \hline 44 \\ \overline{2}2 \\ \overline{66} \\ 1\overline{1} \\ \hline 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \end{array}$	$\begin{array}{c} Cm_{(6)}^{001} \\ 12, \overline{12}, 0, 0 \\ \hline 6600 \\ 0000 \\ \hline 6600 \\ 1\overline{100} \\ 2\overline{2}00 \\ 3\overline{3}00 \\ 4\overline{4}00 \\ \end{array}$	$   \begin{array}{c}     12, \overline{12} \\     \overline{66} \\     \overline{22} \\     \overline{44} \\     1\overline{1} \\     2\overline{2} \\     \overline{33} \\     4\overline{4}   \end{array} $	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ 2 \\ 9 \\ 4 \\ 11 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ \hline 191.242 \\ \{1 00\frac{1}{2}\}* \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 a Cla 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 assification:  i 0 0 0 0 1 1 0 1 0 1	$ \begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \overline{X}_{BS} = \mathbb{Z}_{12} \\ \overline{Cm_{(2)}^{100}} \\ 12, \overline{12} \\ \overline{44} \\ \overline{22} \\ \overline{66} \\ \overline{11} \\ \overline{22} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \end{array}$	$\begin{array}{c} Cm_{(6)}^{001} \\ \hline 12, \overline{12}, 0, 0 \\ \hline 6600 \\ \hline 0000 \\ \hline 6600 \\ \hline 1\overline{100} \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ \overline{22} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ \hline 2 \\ 9 \\ 4 \\ \hline 11 \\ 6 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ \hline 191.242 \\ \{1 00\frac{1}{2}\}* \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 n Cla 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 assification:  i 0 0 0 0 1 0 1 0 1 0 1 0 0	$ \begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \overline{X_{BS}} = \mathbb{Z}_{12} \\ \overline{Cm_{(2)}^{100}} \\ 12, \overline{12} \\ \overline{44} \\ \overline{22} \\ \overline{66} \\ \overline{11} \\ \overline{22} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \end{array}$	$\begin{array}{c} Cm_{(6)}^{001} \\ 12, \overline{12}, 0, 0 \\ \hline 6600 \\ 0000 \\ \hline 6600 \\ 1\overline{100} \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \hline 66 \\ \hline 22 \\ \hline 44 \\ \hline 1\overline{1} \\ \hline 2\overline{2} \\ \hline 3\overline{3} \\ \hline 4\overline{4} \\ \hline 5\overline{5} \\ \hline 6\overline{6} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ \hline 2 \\ 9 \\ 4 \\ 11 \\ 6 \\ 1 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ \hline 191.242 \\ \{1 00\frac{1}{2}\}* \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 n Cla 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 assification:  i 0 0 0 0 1 1 0 1 0 1 0 1 1 0 1	$ \begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ \hline 12, \overline{12} \\ \hline 44 \\ \hline \underline{22} \\ \overline{66} \\ \overline{11} \\ \hline \underline{22} \\ \overline{33} \\ \hline 44 \\ \hline 5\overline{5} \\ \overline{66} \\ \hline 77 \\ \\ \end{array}$	$\begin{array}{c} Cm^{001}_{(6)}\\ 12, \overline{12}, 0, 0\\ \hline 6600\\ 0000\\ \hline 6600\\ 1\overline{100}\\ 2\overline{200}\\ 3\overline{300}\\ 4\overline{400}\\ 5\overline{500}\\ 6\overline{600}\\ 7\overline{700}\\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \hline 66 \\ \hline 22 \\ \hline 44 \\ 1\overline{1} \\ 2\overline{2} \\ \hline 3\overline{3} \\ 4\overline{4} \\ 5\overline{5} \\ \overline{66} \\ 7\overline{7} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ 2 \\ 9 \\ 4 \\ \hline 11 \\ 6 \\ 1 \\ 8 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ \hline 191.242 \\ \{1 00\frac{1}{2}\}* \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 n Cla 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 assification:  i 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 0 0	$ \begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ 12, \overline{12} \\ \hline 44 \\ \hline 22 \\ \hline 66 \\ 1\overline{1} \\ \hline 2\overline{2} \\ \hline 3\overline{3} \\ \overline{44} \\ \hline 5\overline{5} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \end{array}$	$\begin{array}{c} Cm_{(6)}^{001} \\ 12, \overline{12}, 0, 0 \\ \hline 6600 \\ 0000 \\ \hline 6600 \\ 1\overline{100} \\ 2\overline{200} \\ 3\overline{3}00 \\ 4\overline{4}00 \\ 5\overline{5}00 \\ 6\overline{6}00 \\ 7\overline{7}00 \\ 8\overline{8}00 \\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \hline 66 \\ \hline 22 \\ \hline 44 \\ 1\overline{1} \\ 22 \\ \hline 3\overline{3} \\ \hline 4\overline{4} \\ \hline 5\overline{5} \\ \hline 6\overline{6} \\ \hline 7\overline{7} \\ \hline 8\overline{8} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ 2 \\ \hline 9 \\ 4 \\ \hline 11 \\ 6 \\ \hline 1 \\ 8 \\ \hline 3 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ \hline 191.242 \\ \{1 00\frac{1}{2}\}* \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 n Cla 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 assification:  i 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 0 1	$ \begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \overline{X_{\rm BS}} = \mathbb{Z}_{12} \\ \overline{Cm_{(2)}^{100}} \\ 12, \overline{12} \\ \overline{44} \\ \overline{22} \\ \overline{66} \\ \overline{11} \\ \overline{22} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ \end{array}$	$\begin{array}{c} Cm_{(6)}^{001} \\ 12, \overline{12}, 0, 0 \\ \hline 6600 \\ 0000 \\ \hline 6600 \\ 1\overline{100} \\ \hline 2\overline{200} \\ \hline 3\overline{3}00 \\ 4\overline{4}00 \\ \hline 5\overline{5}00 \\ \hline 6\overline{6}00 \\ \hline 7\overline{7}00 \\ 8\overline{8}00 \\ \hline 9\overline{9}00 \\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \hline 66 \\ \hline 22 \\ \hline 44 \\ 1\overline{1} \\ 2\overline{2} \\ 3\overline{3} \\ 4\overline{4} \\ \hline 5\overline{5} \\ 6\overline{6} \\ 7\overline{7} \\ 8\overline{8} \\ 99 \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ 2 \\ 9 \\ 4 \\ \hline 11 \\ 6 \\ 1 \\ 8 \\ 3 \\ \hline 10 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ \hline 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 n Cla 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 assification:  i 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	$\begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ 12, \overline{12} \\ \hline 44 \\ \overline{22} \\ \overline{66} \\ \overline{11} \\ \overline{22} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ \overline{10, \overline{10}} \\ \end{array}$	$\begin{array}{c} Cm_{(6)}^{001} \\ 12, \overline{12}, 0, 0 \\ \hline 6600 \\ 0000 \\ \hline 6600 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ 4\overline{4}00 \\ 5\overline{5}00 \\ 6\overline{6}00 \\ 7\overline{7}00 \\ 8\overline{8}00 \\ 9\overline{9}00 \\ 10, \overline{10}, 0, 0 \\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ 10,\overline{10} \\ \end{array}$	
$ \begin{array}{c c} \hline Z_{12} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ 2 \\ 9 \\ 4 \\ 11 \\ 6 \\ 1 \\ 8 \\ 3 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ \hline 191.242 \\ \{1 00\frac{1}{2}\}* \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 n Cla 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 assification =   i 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1	$\begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ 12, \overline{12} \\ \hline 44 \\ \hline 22 \\ \hline 66 \\ 1\overline{1} \\ \hline 22 \\ \hline 3\overline{3} \\ 4\overline{4} \\ \hline 5\overline{5} \\ \overline{66} \\ 7\overline{7} \\ \hline 8\overline{8} \\ \hline 9\overline{9} \\ \hline 10, \overline{10} \\ \hline 11, \overline{11} \\ \hline \end{array}$	$\begin{array}{c} Cm^{001}_{(6)}\\ \hline 12, \overline{12}, 0, 0\\ \hline 6600\\ \hline 0000\\ \hline 6600\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline 4\overline{4}00\\ \hline 5\overline{5}00\\ \hline 6\overline{6}00\\ \hline 7\overline{7}00\\ \hline 8\overline{8}00\\ \hline 9\overline{9}00\\ \hline 10, \overline{10}, 0, 0\\ \hline 11, \overline{11}, 0, 0\\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \hline 66 \\ \hline 22 \\ \hline 44 \\ 1\overline{1} \\ 2\overline{2} \\ 3\overline{3} \\ 4\overline{4} \\ \hline 5\overline{5} \\ 6\overline{6} \\ 7\overline{7} \\ 8\overline{8} \\ 99 \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ 0 \\ 0 \\ 0 \\ 0 \\ 7 \\ 2 \\ 9 \\ 4 \\ 11 \\ 6 \\ 1 \\ 8 \\ 3 \\ 10 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ \hline 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 n Cla 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 assification:  i 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	$ \begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ 12, \overline{12} \\ \hline 44 \\ \hline 22 \\ \hline 66 \\ 1\overline{1} \\ \hline 22 \\ \hline 3\overline{3} \\ 4\overline{4} \\ \hline 5\overline{5} \\ \overline{66} \\ 7\overline{7} \\ \hline 8\overline{8} \\ \hline 9\overline{9} \\ \hline 10, \overline{10} \\ \hline 11, \overline{11} \\ \hline X_{\rm BS} = \mathbb{Z}_6  {\rm SI} \end{array}$	$\begin{array}{c} Cm^{001}_{(6)}\\ \hline 12, \overline{12}, 0, 0\\ \hline 6600\\ \hline 0000\\ \hline 6600\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline 4\overline{4}00\\ \hline 5\overline{5}00\\ \hline 6\overline{6}00\\ \hline 7\overline{7}00\\ \hline 8\overline{8}00\\ \hline 9\overline{9}00\\ \hline 10, \overline{10}, 0, 0\\ \hline 11, \overline{11}, 0, 0\\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ 10,\overline{10} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ \hline 2 \\ 9 \\ 4 \\ \hline 11 \\ 6 \\ 1 \\ 8 \\ \hline 3 \\ \hline 10 \\ \hline 5 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ \hline 191.242 \\ \{1 00\frac{1}{2}\}* \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 n Cla 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ssification:  i 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	$ \begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ 12, \overline{12} \\ \hline 44 \\ \hline 22 \\ \hline 66 \\ 1\overline{1} \\ \hline 22 \\ \hline 3\overline{3} \\ 4\overline{4} \\ \hline 5\overline{5} \\ \overline{66} \\ 7\overline{7} \\ \hline 8\overline{8} \\ \hline 9\overline{9} \\ \hline 10, \overline{10} \\ \hline 11, \overline{11} \\ \hline X_{\rm BS} = \mathbb{Z}_6  {\rm SI} \end{array}$	$\begin{array}{c} Cm_{(6)}^{001} \\ 12, \overline{12}, 0, 0 \\ \hline 6600 \\ 0000 \\ \hline 6600 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ 4\overline{4}00 \\ 5\overline{5}00 \\ 6\overline{6}00 \\ 7\overline{7}00 \\ 8\overline{8}00 \\ 9\overline{9}00 \\ 10, \overline{10}, 0, 0 \\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ 10,\overline{10} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 7 \\ 2 \\ 9 \\ 4 \\ 11 \\ 6 \\ 1 \\ 8 \\ 3 \\ 10 \\ 5 \\ \hline \mathbb{Z}_{6} \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ \hline 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ P_c6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 n Class 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0 \\ \text{assification} : \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ \hline 12, \overline{12} \\ \hline 44 \\ \hline 22 \\ \hline 66 \\ \hline 1\overline{1} \\ \hline 2\overline{2} \\ \hline 3\overline{3} \\ \hline 44 \\ \hline 5\overline{5} \\ \hline 6\overline{6} \\ \hline 7\overline{7} \\ \hline 8\overline{8} \\ \hline 9\overline{9} \\ \hline 10, \overline{10} \\ \hline 11, \overline{11} \\ \hline X_{\rm BS} = \mathbb{Z}_6  {\rm SI} \\ Cm^{001}_{(6)} \\ \hline \end{array}$	$\begin{array}{c} Cm^{001}_{(6)}\\ \hline 12, \overline{12}, 0, 0\\ \hline 6600\\ \hline 0000\\ \hline 6600\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline 4\overline{4}00\\ \hline 5\overline{5}00\\ \hline 6\overline{6}00\\ \hline 7\overline{7}00\\ \hline 8\overline{8}00\\ \hline 9\overline{9}00\\ \hline 10, \overline{10}, 0, 0\\ \hline 11, \overline{11}, 0, 0\\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ 10,\overline{10} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 7 \\ 2 \\ 9 \\ 4 \\ 11 \\ 6 \\ 1 \\ 8 \\ 3 \\ 10 \\ 5 \\ \hline \mathbb{Z}_6 \\ 0 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ P_c6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 n Cla 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0 \\ \text{assification} : \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ \hline 12, \overline{12} \\ \hline 44 \\ \hline 22 \\ \hline 66 \\ \hline 1\overline{1} \\ \hline 2\overline{2} \\ \hline 3\overline{3} \\ \hline 44 \\ \hline 5\overline{5} \\ \hline 6\overline{6} \\ \hline 7\overline{7} \\ \hline 8\overline{8} \\ \hline 9\overline{9} \\ \hline 10, \overline{10} \\ \hline 11, \overline{11} \\ \hline X_{\rm BS} = \mathbb{Z}_6  {\rm SI} \\ \hline Cm^{001}_{(6)} \\ \hline 6\overline{6}00 \\ \hline \end{array}$	$\begin{array}{c} Cm^{001}_{(6)}\\ \hline 12, \overline{12}, 0, 0\\ \hline 6600\\ \hline 0000\\ \hline 6600\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline 4\overline{4}00\\ \hline 5\overline{5}00\\ \hline 6\overline{6}00\\ \hline 7\overline{7}00\\ \hline 8\overline{8}00\\ \hline 9\overline{9}00\\ \hline 10, \overline{10}, 0, 0\\ \hline 11, \overline{11}, 0, 0\\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ 10,\overline{10} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ 0 \\ 0 \\ 0 \\ 0 \\ 7 \\ 2 \\ 9 \\ 4 \\ 11 \\ 6 \\ 1 \\ 8 \\ 3 \\ 10 \\ 5 \\ \hline \mathbb{Z}_6 \\ 0 \\ 0 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ P_c6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 0 \\ \text{assification} : \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ 12, \overline{12} \\ \hline 44 \\ \hline 22 \\ \hline 66 \\ \hline 1\overline{1} \\ \hline 2\overline{2} \\ 3\overline{3} \\ \overline{44} \\ \hline 5\overline{5} \\ \overline{66} \\ \hline 7\overline{7} \\ 8\overline{8} \\ \overline{99} \\ \hline 10, \overline{10} \\ \overline{11}, \overline{11} \\ \hline X_{\rm BS} = \mathbb{Z}_6 \ \ {\rm SI} \\ \hline Cm^{001}_{(6)} \\ \hline \overline{6600} \\ \overline{0000} \\ \end{array}$	$\begin{array}{c} Cm^{001}_{(6)}\\ \hline 12, \overline{12}, 0, 0\\ \hline 6600\\ \hline 0000\\ \hline 6600\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline 4\overline{4}00\\ \hline 5\overline{5}00\\ \hline 6\overline{6}00\\ \hline 7\overline{7}00\\ \hline 8\overline{8}00\\ \hline 9\overline{9}00\\ \hline 10, \overline{10}, 0, 0\\ \hline 11, \overline{11}, 0, 0\\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ 10,\overline{10} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 7 \\ 2 \\ 9 \\ 4 \\ 11 \\ 6 \\ 1 \\ 8 \\ 3 \\ 10 \\ 5 \\ \hline \mathbb{Z}_6 \\ 0 \\ 0 \\ 1 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ P_c6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 0 \\ \text{assification} \\ \vdots \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ 12, \overline{12} \\ \hline 44 \\ \overline{22} \\ \overline{66} \\ 1\overline{1} \\ \overline{22} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ \overline{10, \overline{10}} \\ \overline{11, \overline{11}} \\ \hline X_{\rm BS} = \mathbb{Z}_6 \text{ SI} \\ \overline{Cm^{001}_{(6)}} \\ \overline{6600} \\ \overline{0000} \\ \overline{1100} \\ \end{array}$	$\begin{array}{c} Cm^{001}_{(6)}\\ \hline 12, \overline{12}, 0, 0\\ \hline 6600\\ \hline 0000\\ \hline 6600\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline 4\overline{4}00\\ \hline 5\overline{5}00\\ \hline 6\overline{6}00\\ \hline 7\overline{7}00\\ \hline 8\overline{8}00\\ \hline 9\overline{9}00\\ \hline 10, \overline{10}, 0, 0\\ \hline 11, \overline{11}, 0, 0\\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ 10,\overline{10} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 7 \\ 2 \\ 9 \\ 4 \\ 11 \\ 6 \\ 1 \\ 8 \\ 3 \\ 10 \\ 5 \\ \hline \mathbb{Z}_6 \\ 0 \\ 0 \\ 1 \\ 2 \\ \end{array} $	weak (000)	$\begin{array}{c} 0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ P_c6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0 \\ \text{assification} \\ \vdots \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$ \begin{array}{c} 0 \\ \hline = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ 12, \overline{12} \\ \hline 44 \\ \underline{22} \\ \overline{66} \\ 1\overline{1} \\ \underline{22} \\ \overline{33} \\ \overline{44} \\ \underline{55} \\ \overline{66} \\ 7\overline{7} \\ \overline{88} \\ \overline{99} \\ 10, \overline{10} \\ 11, \overline{11} \\ \hline X_{\rm BS} = \mathbb{Z}_6  {\rm SI} \\ \overline{Cm^{001}_{(6)}} \\ \overline{6600} \\ \overline{0000} \\ \overline{1100} \\ \overline{2200} \\ \end{array}$	$\begin{array}{c} Cm^{001}_{(6)}\\ \hline 12, \overline{12}, 0, 0\\ \hline 6600\\ \hline 0000\\ \hline 6600\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline 4\overline{4}00\\ \hline 5\overline{5}00\\ \hline 6\overline{6}00\\ \hline 7\overline{7}00\\ \hline 8\overline{8}00\\ \hline 9\overline{9}00\\ \hline 10, \overline{10}, 0, 0\\ \hline 11, \overline{11}, 0, 0\\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ 10,\overline{10} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ \hline 2 \\ 9 \\ 4 \\ \hline 11 \\ 6 \\ 1 \\ 8 \\ 3 \\ \hline 10 \\ 5 \\ \hline \mathbb{Z}_6 \\ 0 \\ 0 \\ 1 \\ 2 \\ 3 \\ \end{array} $	weak (000)	$\begin{array}{c} 0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 1 Class 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$ \begin{array}{c} 0 \\ \hline = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ 12, \overline{12} \\ \hline 44 \\ \hline 22 \\ \hline 66 \\ \hline 1\overline{1} \\ \hline 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \hline 5\overline{5} \\ \overline{66} \\ 7\overline{7} \\ \hline 8\overline{8} \\ \overline{99} \\ \hline 10, \overline{10} \\ \hline 11, \overline{11} \\ \hline X_{\rm BS} = \mathbb{Z}_6  {\rm SI} \\ \hline Cm^{001}_{(6)} \\ \overline{6600} \\ \overline{0000} \\ \overline{1100} \\ \overline{2\overline{2}00} \\ \overline{3300} \\ \end{array}$	$\begin{array}{c} Cm^{001}_{(6)}\\ \hline 12, \overline{12}, 0, 0\\ \hline 6600\\ \hline 0000\\ \hline 6600\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline 4\overline{4}00\\ \hline 5\overline{5}00\\ \hline 6\overline{6}00\\ \hline 7\overline{7}00\\ \hline 8\overline{8}00\\ \hline 9\overline{9}00\\ \hline 10, \overline{10}, 0, 0\\ \hline 11, \overline{11}, 0, 0\\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ 10,\overline{10} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ \hline 2 \\ 9 \\ 4 \\ 11 \\ 6 \\ 1 \\ 8 \\ 3 \\ 10 \\ \hline 5 \\ \hline \mathbb{Z}_6 \\ 0 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ \end{array} $	weak (000)	$\begin{array}{c} 0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ P_c6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$ \begin{array}{c} 0 \\ \hline = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ 12, \overline{12} \\ \hline 44 \\ \hline 22 \\ \hline 66 \\ 1\overline{1} \\ \hline 22 \\ \hline 3\overline{3} \\ 4\overline{4} \\ \hline 5\overline{5} \\ \overline{66} \\ 7\overline{7} \\ \hline 8\overline{8} \\ \hline 9\overline{9} \\ \hline 10, \overline{10} \\ \hline 11, \overline{11} \\ \hline X_{\rm BS} = \mathbb{Z}_6  {\rm SI} \\ \hline Cm^{001}_{(6)} \\ \hline 6\overline{6}00 \\ \hline 0000 \\ 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \overline{3}\overline{3}00 \\ \overline{4}\overline{4}00 \\ \hline \end{array}$	$\begin{array}{c} Cm^{001}_{(6)}\\ \hline 12, \overline{12}, 0, 0\\ \hline 6600\\ \hline 0000\\ \hline 6600\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline 4\overline{4}00\\ \hline 5\overline{5}00\\ \hline 6\overline{6}00\\ \hline 7\overline{7}00\\ \hline 8\overline{8}00\\ \hline 9\overline{9}00\\ \hline 10, \overline{10}, 0, 0\\ \hline 11, \overline{11}, 0, 0\\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ 10,\overline{10} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ \hline 2 \\ 9 \\ 4 \\ \hline 11 \\ 6 \\ 1 \\ 8 \\ 3 \\ \hline 10 \\ 5 \\ \hline \mathbb{Z}_6 \\ 0 \\ 0 \\ 1 \\ 2 \\ 3 \\ \end{array} $	weak (000)	$\begin{array}{c} 0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 1 Class 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$ \begin{array}{c} 0 \\ \hline = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ \hline 12, \overline{12} \\ \hline 44 \\ \hline 22 \\ \hline 66 \\ \hline 1\overline{1} \\ \hline 22 \\ \hline 33 \\ \hline 44 \\ \hline 55 \\ \hline 66 \\ \hline 77 \\ \hline 88 \\ \hline 99 \\ \hline 10, \overline{10} \\ \hline 11, \overline{11} \\ \hline X_{\rm BS} = \mathbb{Z}_6  \text{SI} \\ \hline Cm^{001}_{(6)} \\ \hline 6600 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4400 \\ 5500 \\ \hline \end{array}$	$\begin{array}{c} Cm_{(6)}^{001}\\ \hline 12, \overline{12}, 0, 0\\ \hline 6600\\ \hline 0000\\ \hline 6600\\ \hline 1\overline{100}\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline 4\overline{4}00\\ \hline 5\overline{5}00\\ \hline 6\overline{6}00\\ \hline 7\overline{7}00\\ \hline 8\overline{8}00\\ \hline 9\overline{9}00\\ \hline 10, \overline{10}, 0, 0\\ \hline 11, \overline{11}, 0, 0\\ \hline 1=z_{6m,0}^{+}\\ \hline \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ 10,\overline{10} \\ \end{array}$	
$ \begin{array}{c c} \hline \mathbb{Z}_{12} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 7 \\ \hline 2 \\ 9 \\ 4 \\ 11 \\ 6 \\ 1 \\ 8 \\ 3 \\ 10 \\ \hline 5 \\ \hline \mathbb{Z}_6 \\ 0 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ \end{array} $	weak (000)	$\begin{array}{c} 0 \\ 191.242 \\ \{1 00\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} 0 \\ P_c 6/mmm \\ 6^{001} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 1 Class 1 0 0 1 1 1 0 1	$\begin{array}{c} 0 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 0 \\ = \mathbb{Z}_{M}^{3} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 5, \overline{25}, 5, \overline{25} \\ \hline X_{\rm BS} = \mathbb{Z}_{12} \\ \hline Cm^{100}_{(2)} \\ 12, \overline{12} \\ \hline 44 \\ \hline 22 \\ \hline 66 \\ 1\overline{1} \\ \hline 22 \\ \hline 33 \\ 4\overline{4} \\ \hline 55 \\ \overline{66} \\ 77 \\ \hline 88 \\ \hline 99 \\ \hline 10, \overline{10} \\ \hline 11, \overline{11} \\ \hline X_{\rm BS} = \mathbb{Z}_6  \text{SI} \\ \hline Cm^{001}_{(6)} \\ \hline 6600 \\ \hline 0000 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 4400 \\ 5500 \\ \hline \end{array}$	$\begin{array}{c} Cm^{001}_{(6)}\\ \hline 12, \overline{12}, 0, 0\\ \hline 6600\\ \hline 0000\\ \hline 6600\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline 4\overline{4}00\\ \hline 5\overline{5}00\\ \hline 6\overline{6}00\\ \hline 7\overline{7}00\\ \hline 8\overline{8}00\\ \hline 9\overline{9}00\\ \hline 10, \overline{10}, 0, 0\\ \hline 11, \overline{11}, 0, 0\\ \end{array}$	$\begin{array}{c} 12,\overline{12} \\ \overline{66} \\ \overline{22} \\ \overline{44} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{88} \\ \overline{99} \\ 10,\overline{10} \\ \end{array}$	

$\mathbb{Z}_3$	weak	6 <sup>001</sup> *	$2_{00\frac{1}{2}}^{010}$	i*	$2_{00\frac{1}{2}}^{1\overline{10}}*$	$g_{00\frac{1}{2}}^{010}$	$Cm_{(3)}^{001}$		
$\frac{2}{0}$	(000)	1	$\frac{2_{00\frac{1}{2}}}{0}$	0	$\frac{2_{00\frac{1}{2}}}{1}$	$\frac{g_{00\frac{1}{2}}}{1}$	$\frac{3\overline{3}00}{3}$		
0	(000)	0	0	0	0	0	0000		
$\frac{3}{1}$	(000)	1	0	0	1	1	$\overline{1100}$		
2	(000)	0	0	0	0	0	$2\overline{2}00$		
	(000)	192.247	P6'/mcc'		sification =			$SI = z_{3m,0}^+$	
77-	rroolr	6001*		i*	$2_{00\frac{1}{2}}^{110}$		$\frac{A_{\rm BS} - Z_3}{Cm_{(3)}^{001}}$	$z_{3m,0}$	
$\mathbb{Z}_3$	weak		$2_{00\frac{1}{2}}^{010} *$			$g_{00\frac{1}{2}}^{010}*$			
0	(000)	1	1	0	0	0	3300		
0	(000)	0	0	0	0	0	0000		
$\frac{1}{2}$	(000)	1	1	0	0	0	$\frac{1\overline{1}00}{2\overline{2}00}$		
	(000)	0	0	0	0	0			
		192.248	P6'/m'c'		assification		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	6 <sup>001</sup> *	$2_{00\frac{1}{2}}^{010}*$	i	$2^{110}_{00\frac{1}{2}}$	$g_{00\frac{1}{2}}^{010}$			
0	(000)	0	0	0	0	0			
1	(000)	1	1	1	0	1			
		192.249	P6'/m'cc	c' Cl	assification		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	6001*	$2_{00\frac{1}{2}}^{010}$	i	$2^{110}_{00\frac{1}{2}}*$	$g_{00\frac{1}{2}}^{010}*$			
0	(000)	0	$\frac{00\frac{1}{2}}{0}$	0	$\frac{00\frac{1}{2}}{0}$	$\frac{-00\frac{1}{2}}{0}$			
1	(000)	1	0	1	1	0			
	192.2	50 P6/n	nc'c' Class	sificat	$ion = \mathbb{Z}_M \times$	$\mathbb{Z}$ X	$_{\mathrm{BS}}=\mathbb{Z}_{\mathrm{e.e.}}$	$SI = z_{6m,0}^+, z_6^+$	
$\mathbb{Z}_{6,6}$	weak	$\frac{6^{001}}{6^{001}}$	$2^{010}_{00\frac{1}{2}}*$	$\frac{i}{i}$	$\frac{2^{110}_{00\frac{1}{2}}*}{2^{110}_{00\frac{1}{2}}*}$	$g_{00\frac{1}{2}}^{010}*$	$Cm_{(6)}^{001}$	om,0;~6	$m,\pi$
$\frac{26,6}{00}$	(000)	0	$\frac{2_{00\frac{1}{2}}}{0}$	0	$\frac{2_{00\frac{1}{2}}}{0}$	$\frac{g_{00\frac{1}{2}}}{0}$	$\frac{6\overline{6}00}{6}$		
$\frac{00}{00}$	(000)	0	0	0	0	$\frac{\overline{6}}{6}$	0, 12, 6, 6		
00	(0012)	0	0	0	0	0	0,12,0,0		
01	(000)	0	0	1	0	$\frac{\sigma}{1}$	0211		
$\frac{01}{02}$	$(00\overline{4})$	0	0	0	0	$\frac{1}{2}$	0422		
03	$(00\overline{6})$	0	0	1	0	$\frac{-}{3}$	0633		
04	(008)	0	0	0	0	$\frac{3}{4}$	0844		
05	$(00\overline{10})$	0	0	1	0	5	0, 10, 5, 5		
10	(000)	0	1	1	1	0	$1\overline{1}00$		
11	$(00\overline{2})$	0	1	0	1	1	1111		
12	$(00\overline{4})$	0	1	1	1	$\overline{2}$	1322		
13	$(00\overline{6})$	0	1	0	1	$\overline{3}$	1533		
14	(008)	0	1	1	1	$\overline{4}$	1744		
15	$(00\overline{10})$	0	1	0	1	$\overline{5}$	1955		
20	(000)	0	0	0	0	0	$2\overline{2}00$		
21	$(00\bar{2})$	0	0	1	0	11	2011		
22	$(00\overline{4})$	0	0	0	0	$\frac{\overline{2}}{\overline{z}}$	2222		
23	$(00\overline{6})$	0	0	1	0	$\frac{\overline{3}}{4}$	2433		
24	$(00\overline{8})$	0	0	0	0	4 =	2644		
$\frac{25}{30}$	$(00\overline{10})$ $(000)$	0	0	$\frac{1}{1}$	0	5	$\frac{2855}{3\overline{3}00}$		
$\frac{30}{31}$	(000)	0	1 1	0	1 1	$\frac{0}{1}$	3 <del>1</del> 11		
$\frac{31}{32}$	$(002)$ $(00\overline{4})$	0	1	1	1	$\frac{1}{2}$	3111		
$\frac{32}{33}$	$(004)$ $(00\overline{6})$	0	1	0	1	$\frac{2}{3}$	3333		
$\frac{-33}{34}$	(008)	0	1	1	1	$\frac{3}{4}$	3544		
$\frac{-34}{35}$	$(00\overline{10})$	0	1	0	1	$\frac{1}{5}$	3755		
$\frac{-30}{40}$	(000)	0	0	0	0	0	$\frac{3799}{4\overline{4}00}$		
41	$(00\overline{2})$	0	0	1	0	$\frac{\sigma}{1}$	$4\overline{2}11$		
42	$(00\overline{4})$	0	0	0	0	$\frac{1}{2}$	4022		
43	$(00\overline{6})$	0	0	1	0	3	4233		
44	$(00\overline{8})$	0	0	0	0	$\overline{4}$	4444		
45	$(00\overline{10})$	0	0	1	0	5	4655		
50	(000)	0	1	1	1	0	$5\overline{5}00$		
51	$(00\overline{2})$	0	1	0	1	$\overline{1}$	$5\overline{3}11$		
52	$(00\overline{4})$	0	1	1	1	$\overline{2}$	$5\overline{1}22$		

53	$(00\overline{6})$	0	1	0	1	3	5133		
54	(008)	0	1	1	1	$\overline{4}$	5344		
55	$(00\overline{10})$	0	1	0	1	$\overline{5}$	5555		
		192.252	$P_c6/mcc$		fication =		$X_{BS} = \mathbb{Z}_6$	$SI = z_{6m,0}^+$	
$\mathbb{Z}_6$	weak	$\{1 00\frac{1}{2}\}*$	$6^{001}$	$2^{010}*$	i	$2^{110}*$	$m_{010}*$	$Cm_{(6)}^{001}$	
0	(000)	0	0	0	0	0	0	$6\overline{6}00$	
0	(000)	0	0	0	0	0	0	0000	
1	(000)	1	0	1	1	1	0	$1\overline{1}00$	
2	(000)	0	0	0	0	0	0	$\frac{2\overline{2}00}{2\overline{2}00}$	
3	(000)	1	0	1	1	1	0	3300	
$\frac{4}{5}$	(000)	0	0	0	0	0	0	$\frac{4\overline{4}00}{5\overline{5}00}$	
	(000)	193.253							
	rroolr		$\frac{P6_3/mcm}{2^{010}}$	$\frac{i}{i}$	$\frac{\text{sification} =}{2^{110}}$	$\frac{\mathbb{Z}_{M}}{Cm_{(2)}^{100}}$	$\frac{\Lambda_{\rm BS} = \mathbb{Z}_6}{Cm_{(6)}^{001}}$	$SI = z_{6m,0}^+$	
$\mathbb{Z}_6$	weak	$6^{001}_{00\frac{1}{2}}$	$2_{00\frac{1}{2}}^{010}$						
0	(000)	0	0	0	0	<u>66</u>	6600		
$\frac{0}{0}$	(000)	0	0	0	0	$\frac{2\overline{2}}{\overline{2}2}$	0000		
$\frac{0}{1}$	(000)	0	0	1	0	$\frac{22}{1\overline{1}}$	$\frac{0000}{1\overline{1}00}$		
$\frac{1}{2}$	(000)	0	0	0	0	$\frac{11}{2\overline{2}}$	$\frac{1100}{2\overline{2}00}$		
$\frac{2}{3}$	(000)	0	0	1	0	$\frac{22}{3\overline{3}}$	$\frac{2200}{3\overline{3}00}$		
$\frac{3}{4}$	(000)	0	0	0	0	$\frac{3\overline{4}}{4\overline{4}}$	$4\overline{4}00$		
5	(000)	0	0	1	0	$5\overline{5}$	$5\overline{5}00$		
	•	193.256	$P6_3'/mc'm$	a Class	sification =	$=\mathbb{Z}_M^2$	$X_{BS} = \mathbb{Z}_3$	$SI = z_{3m,0}^+$	
$\mathbb{Z}_3$	weak	$6_{00\frac{1}{2}}^{001} *$	$2_{00\frac{1}{2}}^{010}$	i*	$2^{110}*$	$Cm_{(0)}^{100}$	$Cm_{(3)}^{001}$	0111,0	
0	(000)	$\frac{00\overline{2}}{1}$	$\frac{00\overline{2}}{0}$	0	1	33	3300		
0	(000)	0	0	0	0	$2\overline{2}$	0000		
0	(000)	0	0	0	0	$\overline{2}2$	0000		
1	(000)	1	0	0	1	$1\overline{1}$	$1\overline{1}00$		
2	(000)	0	0	0	0	$2\overline{2}$	$2\overline{2}00$		
			$P6_3^{\prime}/mcm^{\prime}$	' Class	sification =	$=\mathbb{Z}_{M}$	$X_{BS} = \mathbb{Z}_3$	$SI = z_{3m,0}^+$	
$\mathbb{Z}_3$	weak	$6_{00\frac{1}{2}}^{001}*$	$2^{010}_{00\frac{1}{2}}*$	i*	$2^{110}$	$m_{010}*$	$Cm_{(3)}^{001}$		
0	(000)	1	1	0	0	0	$3\overline{3}00$		
0	(000)	0	0	0	0	0	0000		
1	(000)	1	1	0	0	0	$1\overline{1}00$		
2	(000)	0	0	0	0	0	$2\overline{2}00$		
		193.258	$P6_3/m'c'$		ssification	$=\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$6_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{010}*$	i	$2^{110}$	$Cm_{(2)}^{100}$			
0	(000)	0	0	0	0	$2\overline{2}$			
0	(000)	0	0	0	0	$2\overline{2}$			
1	(000)	1	1	1	0	11		GT '	
	,	193.259	$P6_3/m'cr$		assification $2^{110}*$		$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$6_{00\frac{1}{2}}^{001}*$	$2_{00\frac{1}{2}}^{010}$	i	$2^{110}*$	$m_{010}*$			
0									
	(000)	0	0	0	0	0			
1	(000)	0 1	0	1	1	0			
1	193.26	$ \begin{array}{c c} 0\\ 1\\ 60 & P6_3/n \end{array} $	0 $0$ $nc'm'$ Cla	1 assificat	$\frac{1}{\text{ion} = \mathbb{Z}_M}$	$0 \times \mathbb{Z}  \Sigma$	$X_{\mathrm{BS}} = \mathbb{Z}_{3,6}$	$SI = z_{3m,\pi}^+,$	$z_{6m,0}^{+}$
$\mathbb{Z}_{3,6}$	(000) 193.26 weak	$ \begin{array}{c c} \hline 0\\ \hline 1\\ \hline 60 & P6_3/n\\ \hline 6_{00\frac{1}{2}}^{001} \end{array} $	0	$\frac{1}{i}$	1	$ \begin{array}{c c} \hline 0 \\ \times \mathbb{Z} & \Sigma \\ \hline m_{010}* \end{array} $	$Cm_{(6)}^{001}$	$SI = z_{3m,\pi}^+,$	$z_{6m,0}^{+}$
$ \begin{array}{c} 1 \\ \hline \mathbb{Z}_{3,6} \\ 00 \end{array} $	(000) 193.26 weak (006)	$ \begin{array}{r} 0 \\ 1 \\ 60  P6_3/n \\ \hline 600\frac{1}{2} \\ 3 \end{array} $	$ \begin{array}{c c} 0 \\ \hline 0 \\ nc'm' & \text{Cla} \\ \hline 2_{00\frac{1}{2}}^{010} * \\ 1 \end{array} $	$ \begin{array}{c} 1 \\ \hline  assificat \\  i \\ \hline  0 \end{array} $	$ \frac{1}{\text{ion} = \mathbb{Z}_M} \\ 2^{110} * \\ 0 $	$ \begin{array}{c c} \hline 0 \\ \times \mathbb{Z} & \Sigma \\ \hline m_{010}* \\ \hline 0 \end{array} $	$\frac{Cm_{(6)}^{001}}{0\overline{633}}$		$z_{6m,0}^{+}$
$ \begin{array}{c c}  & 1 \\ \hline  & \mathbb{Z}_{3,6} \\ \hline  & 00 \\ \hline  & 00 \end{array} $	(000) 193.26 weak (006) (0012)	$ \begin{array}{r} 0 \\ 1 \\ 60  P6_3/n \\ 6_{00\frac{1}{2}}^{001} \\ 3 \\ 6 \end{array} $	$ \begin{array}{c c} 0 \\ 0 \\ nc'm' & Cla \\ 2_{00\frac{1}{2}}^{010} * \\ 1 \\ 0 \end{array} $	assification of the state of th	$ \begin{array}{c} 1 \\ \text{ion} = \mathbb{Z}_M \\ 2^{110} * \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} \hline 0 \\ \times \mathbb{Z} & \Sigma \\ \hline m_{010}* \\ \hline 0 \\ 0 \end{array} $	$ \begin{array}{r} Cm_{(6)}^{001} \\ \hline 0\overline{633} \\ \hline 30, 18, \overline{6}, 0 \end{array} $	6	$z_{6m,0}^{+}$
$ \begin{array}{c c}  & 1 \\ \hline  & \mathbb{Z}_{3,6} \\ \hline  & 00 \\ \hline  & 00 \\ \hline  & 00 \end{array} $	(000) 193.26 weak (006) (0012) (006)	$ \begin{array}{r} 0 \\ 1 \\ 60  P6_3/m \\ 6001 \\ 6001 \\ 3 \\ 6 \\ \hline 3 \end{array} $	$ \begin{array}{c c} 0 \\ \hline 0 \\ nc'm' & \text{Cla} \\ \hline 2^{010}_{00\frac{1}{2}} * \\ 1 \\ 0 \\ 1 \end{array} $	assificat  i  0  0  0	$ \begin{array}{c} 1 \\ \text{ion} = \mathbb{Z}_M \\ 2^{110} * \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} \hline 0 \\ \times \mathbb{Z} & \Sigma \\ \hline m_{010}* \\ \hline 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{r} Cm_{(6)}^{001} \\ \hline 0\overline{633} \\ \hline 30, 18, \overline{6}, \overline{0} \\ 12, \overline{6}, 3, 3 \end{array} $	6	$z_{6m,0}^{+}$
$ \begin{array}{c c}  & 1 \\ \hline  & \mathbb{Z}_{3,6} \\ \hline  & 00 \\ \hline  & 00 \\ \hline  & 00 \\ \hline  & 01 \\ \end{array} $	(000) 193.26 weak (006) (0012) (006) (002)	$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline 60 & P6_3/n \\ \hline 6_{00\frac{1}{2}}^{001} \\ \hline 3 \\ \hline 6 \\ \hline 3 \\ 1 \end{array} $	$ \begin{array}{c c} 0 \\ 0 \\ nc'm' & Cla \\ 200\frac{1}{2} * \\ 1 \\ 0 \\ 1 \\ 0 \end{array} $	1 assificat i 0 0 0 1	$ \begin{array}{c} 1\\ \text{ion} = \mathbb{Z}_M\\ 2^{110} *\\ 0\\ 0\\ 0\\ 1 \end{array} $	$ \begin{array}{c c} \hline 0 \\ \times \mathbb{Z} & \Sigma \\ \hline m_{010}* \\ \hline 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{r} Cm_{(6)}^{001} \\ \hline 0633 \\ \hline 30, 18, \overline{6}, \overline{6} \\ 12, \overline{6}, 3, 3 \\ \hline 53\overline{11} \end{array} $	<u>6</u>	$z_{6m,0}^{+}$
$ \begin{array}{c c}  & 1 \\ \hline  & \mathbb{Z}_{3,6} \\  & 00 \\  & 00 \\  & 00 \\  & 01 \\  & 02 \\ \end{array} $	(000) 193.26 weak (006) (0012) (006) (002) (004)	$ \begin{array}{c c} 0 \\ \hline 1 \\ 60 & P6_3/n \\ \hline 600\frac{1}{2} \\ \hline 3 \\ \hline 6 \\ \hline 3 \\ 1 \\ 2 \end{array} $	$ \begin{array}{c c} 0 \\ 0 \\ nc'm' & Cla \\ 2000\frac{1}{2} * \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \end{array} $	1 assificat i 0 0 0 1 0	$ \begin{array}{c} 1 \\ \text{ion} = \mathbb{Z}_M \\ 2^{110} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $	$ \begin{array}{c c} \hline 0 \\ \times \mathbb{Z} & \Sigma \\ \hline m_{010}* \\ \hline 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} Cm^{001}_{(6)}\\ \hline 0\overline{633}\\ \hline 30, 18, \overline{6}, \overline{6}\\ \hline 12, \overline{6}, 3, 3\\ \hline 53\overline{11}\\ \hline \overline{10}, 6, \overline{2}, \overline{2}\\ \end{array}$	6	$z_{6m,0}^+$
$ \begin{array}{c c} \hline  & \mathbb{Z}_{3,6} \\ \hline  & 00 \\ \hline  & 00 \\ \hline  & 00 \\ \hline  & 00 \\ \hline  & 01 \\ \hline  & 02 \\ \hline  & 03 \\ \hline \end{array} $	(000) 193.26 weak (006) (0012) (006) (002) (004) (006)	$ \begin{array}{c c} 0 \\ \hline 1 \\ 60 & P6_3/n \\ \hline 600\frac{1}{2} \\ \hline 3 \\ \hline 6 \\ \hline 3 \\ 1 \\ 2 \\ 3 \end{array} $	$ \begin{array}{c c} 0 \\ 0 \\                               $	1 assificat i 0 0 0 1 0 1	$ \frac{1}{2^{110}*} $ $ 0 $ $ 0 $ $ 0 $ $ 1 $ $ 0 $ $ 1 $	$ \begin{array}{c c} 0 \\ \times \mathbb{Z} & \Sigma \\ \hline                                  $	$Cm_{(6)}^{001}$ $0\overline{6}3\overline{3}$ $30, 18, \overline{6}, \overline{6}$ $12, \overline{6}, 3, 3$ $\overline{5}3\overline{1}\overline{1}$ $\overline{10}, 6, \overline{2}, \overline{2}$ $\overline{15}, 9, \overline{3}, \overline{3}$	6	$z_{6m,0}^+$
$ \begin{array}{c c}  & & & \\  & & & &$	(000) 193.26 weak (006) (0012) (006) (002) (004) (006) (008)	$ \begin{array}{c c} \hline 0 \\ \hline 1 \\ \hline 60 & P6_3/n \\ \hline 60_{00\frac{1}{2}} \\ \hline 3 \\ \hline 6 \\ \hline 3 \\ \hline 1 \\ 2 \\ \hline 3 \\ 4 \end{array} $	$ \begin{array}{c c} 0 \\ 0 \\ nc'm' & Cla \\ 2000\frac{1}{2} * \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \end{array} $	1 assificat i 0 0 0 1 0	$ \begin{array}{c} 1 \\ \text{ion} = \mathbb{Z}_M \\ 2^{110} * \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $	$ \begin{array}{c c} \hline 0 \\ \times \mathbb{Z} & \Sigma \\ \hline m_{010}* \\ \hline 0 \\ 0 \\ 0 \\ 0 \end{array} $	$Cm_{(6)}^{001}$ $0\overline{6}3\overline{3}$ $\overline{30}, 18, \overline{6}, \overline{6}$ $12, \overline{6}, 3, 3$ $\overline{5311}$ $\overline{10}, 6, \overline{2}, \overline{2}$ $\overline{15}, 9, \overline{3}, \overline{3}$ $\overline{20}, 12, \overline{4}, \overline{4}$	6 8 8 8 4	$z_{6m,0}^{+}$
$ \begin{array}{c c} \hline  & \mathbb{Z}_{3,6} \\ \hline  & 00 \\ \hline  & 00 \\ \hline  & 00 \\ \hline  & 00 \\ \hline  & 01 \\ \hline  & 02 \\ \hline  & 03 \\ \hline \end{array} $	(000) 193.26 weak (006) (0012) (006) (002) (004) (006)	$ \begin{array}{c c} 0 \\ \hline 1 \\ 60 & P6_3/n \\ \hline 600\frac{1}{2} \\ \hline 3 \\ \hline 6 \\ \hline 3 \\ 1 \\ 2 \\ 3 \end{array} $	$ \begin{array}{c c} 0 \\ 0 \\                               $	1 assificat i 0 0 0 1 0 1 0		$ \begin{array}{c c} 0 \\ \hline  \times \mathbb{Z} & \Sigma \\  m_{010}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$Cm_{(6)}^{001}$ $0\overline{6}3\overline{3}$ $30, 18, \overline{6}, \overline{6}$ $12, \overline{6}, 3, 3$ $\overline{5}3\overline{1}\overline{1}$ $\overline{10}, 6, \overline{2}, \overline{2}$ $\overline{15}, 9, \overline{3}, \overline{3}$	6 8 8 8 4	$z_{6m,0}^{+}$

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$\begin{array}{ c c c c c c c c c }\hline 21 & (006) & 3 & 0 & 1 & 1 & 0 & 5133 \\ \hline 22 & (008) & 4 & 0 & 0 & 0 & 0 & 10, 2, 4, 4 \\ \hline 23 & (0010) & 5 & 0 & 1 & 1 & 0 & 15, 5, 5, 5 \\ \hline 24 & (0012) & 6 & 0 & 0 & 0 & 0 & 20, 8, 6, 6 \\ \hline 25 & (0014) & 7 & 0 & 1 & 1 & 0 & 25, 11, 7, 7 \\ \hline & & & & & & & & & & & & & & & & & &$	
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$\begin{array}{ c c c c c c c c c }\hline 24 & (0012) & 6 & 0 & 0 & 0 & 0 & 20, 8, \overline{6}, \overline{6} \\ \hline 25 & (0014) & 7 & 0 & 1 & 1 & 0 & 25, 11, 7, 7 \\ \hline & & & & & & & & & & & & & & & & & &$	
$\begin{array}{ c c c c c c c c c }\hline 25 & (0014) & 7 & 0 & 1 & 1 & 0 & \overline{25,11,7,7}\\\hline & & & & & & & & & & & & & & & & & & &$	
$ \begin{array}{ c c c c c c c c } \hline & 193.262 & P_c 6_3/mcm & Classification = \mathbb{Z}_M^2 & X_{BS} = \mathbb{Z}_6 & SI = z_{000}^{+} \\ \hline \mathbb{Z}_6 & weak & \{1 00\frac{1}{2}\}* & 6^{001}* & 2_{00\frac{1}{2}}^{010} & i_{000\frac{1}{2}}* & 2_{00\frac{1}{2}}^{110}* & Cm_{(2)}^{100} & Cm_{(6)}^{000} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 66 & 6600 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 0 & 2\overline{2} & 00000 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 0 & 2\overline{2} & 00000 \\ \hline 1 & (000) & 1 & 1 & 0 & 0 & 1 & 1\overline{1} & 1\overline{1}000 \\ \hline 2 & (000) & 0 & 0 & 0 & 0 & 0 & 0 & 2\overline{2} & 2\overline{2}00 \\ \hline 3 & (000) & 1 & 1 & 0 & 0 & 1 & 3\overline{3} & 3\overline{3}00 \\ \hline 4 & (000) & 0 & 0 & 0 & 0 & 0 & 0 & 4\overline{4} & 4\overline{4}000 \\ \hline 5 & (000) & 1 & 1 & 0 & 0 & 1 & 55\overline{5} & 5\overline{5}00 \\ \hline \hline & 194.263 & P6_3/mmc & Classification = \mathbb{Z}_M^2 & X_{BS} = \mathbb{Z}_6 & SI = z_{6m}^{+} \\ \hline \mathbb{Z}_6 & weak & 6_{00\frac{1}{2}}^{001} & 2^{010} & i & 2_{00\frac{1}{2}}^{110} & g_{00\frac{1}{2}}^{010} & Cm_{(2)}^{110} & Cm_{(6)}^{00} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 66 & 6\overline{6}00 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 2\overline{2} & 0000 \\ \hline 1 & (000) & 0 & 0 & 0 & 0 & 0 & 2\overline{2} & 0000 \\ \hline 1 & (000) & 0 & 0 & 0 & 0 & 0 & 2\overline{2} & 2\overline{2}00 \\ \hline 3 & (000) & 0 & 0 & 1 & 0 & 1 & 1\overline{1} & 1\overline{1}00 \\ \hline 2 & (000) & 0 & 0 & 0 & 0 & 0 & 2\overline{2} & 2\overline{2}00 \\ \hline 3 & (000) & 0 & 0 & 0 & 0 & 0 & 2\overline{2} & 2\overline{2}00 \\ \hline 3 & (000) & 0 & 0 & 0 & 0 & 0 & 4\overline{4} & 4\overline{4}00 \\ \hline 5 & (000) & 0 & 0 & 1 & 0 & 1 & 3\overline{3} & 3\overline{3}00 \\ \hline 4 & (000) & 0 & 0 & 0 & 0 & 0 & 4\overline{4} & 4\overline{4}00 \\ \hline 5 & (000) & 0 & 0 & 0 & 0 & 0 & 4\overline{4} & 4\overline{4}00 \\ \hline 5 & (000) & 0 & 0 & 1 & 0 & 1 & 5\overline{5} & 5\overline{5}00 \\ \hline \hline & 194.266 & P6_3^{\prime}/mm^{\prime}c & Classification = \mathbb{Z}_M & X_{BS} = \mathbb{Z}_3 & SI = z_{3m}^{+} \\ \hline \mathbb{Z}_3 & weak & 6_{00\frac{1}{2}}^{00\frac{1}{2}} & 2^{010} & i* & 2_{00\frac{1}{2}}^{110} * & g_{00\frac{1}{2}}^{000\frac{1}{2}} & Cm_{(3)}^{001} \\ \hline \hline 0 & (000) & 1 & 0 & 1 & 1 & 3\overline{3}00 \\ \hline \end{array}$	
$\begin{array}{ c c c c c c c }\hline \mathbb{Z}_6 & \text{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^{100}_{(2)} & Cm^{100}_{(6)}\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 66 & 6600\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 0 & 22 & 0000\\\hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 0 & 22 & 0000\\\hline 1 & (000) & 1 & 1 & 0 & 0 & 1 & 11 & 1100\\\hline 2 & (000) & 0 & 0 & 0 & 0 & 0 & 0 & 22 & 2200\\\hline 3 & (000) & 1 & 1 & 0 & 0 & 1 & 33 & 3300\\\hline 4 & (000) & 0 & 0 & 0 & 0 & 0 & 0 & 44 & 4400\\\hline 5 & (000) & 1 & 1 & 0 & 0 & 1 & 55 & 5500\\\hline\hline & & & & & & & & & & & & & & & & & & $	
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$ \begin{array}{ c c c c c c c c } \hline & 194.263 & P6_3/mmc & Classification = \mathbb{Z}_M^2 & X_{BS} = \mathbb{Z}_6 & SI = z_{6m}^+ \\ \hline \mathbb{Z}_6 & weak & 6_{00\frac{1}{2}}^{001} & 2^{010} & i & 2_{00\frac{1}{2}}^{110} & g_{00\frac{1}{2}}^{010} & Cm_{(2)}^{110} & Cm_{(6)}^{000} \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 6\bar{6} & 6\bar{6}00 \\ 0 & (000) & 0 & 0 & 0 & 0 & 0 & 2\bar{2} & 0000 \\ \hline 0 & (000) & 0 & 0 & 0 & 0 & 0 & 2\bar{2} & 0000 \\ \hline 1 & (000) & 0 & 0 & 1 & 0 & 1 & 1\bar{1} & 1\bar{1}00 \\ \hline 2 & (000) & 0 & 0 & 0 & 0 & 0 & 2\bar{2} & 2\bar{2}00 \\ \hline 3 & (000) & 0 & 0 & 1 & 0 & 1 & 3\bar{3} & 3\bar{3}00 \\ \hline 4 & (000) & 0 & 0 & 0 & 0 & 0 & 4\bar{4} & 4\bar{4}00 \\ \hline 5 & (000) & 0 & 0 & 1 & 0 & 1 & 5\bar{5} & 5\bar{5}00 \\ \hline & & 194.266 & P6_3'/mm'c & Classification = \mathbb{Z}_M & X_{BS} = \mathbb{Z}_3 & SI = z_{3m}^+ \\ \hline \mathbb{Z}_3 & weak & 6_{00\frac{1}{2}}^{001} * & 2^{010} & i* & 2_{00\frac{1}{2}}^{110} * & g_{00\frac{1}{2}}^{010} & Cm_{(3)}^{001} \\ \hline \hline & & & & & & & & & & & & & & & & &$	
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194.267 $P6_3'/mmc'$ Classification = $\mathbb{Z}_M^2$ $X_{BS} = \mathbb{Z}_3$ $SI = z_{3m}^+$	^
$\mathbb{Z}_3$ weak $6^{001}_{00\frac{1}{2}}*$ $2^{010}*$ $i*$ $2^{110}_{00\frac{1}{2}}$ $g^{010}_{00\frac{1}{2}}*$ $Cm^{10}_{(0)}$ $Cm^{00}_{(3)}$	1,0 L
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194.268 $P6_3'/m'm'c$ Classification = $\mathbb{Z}_2$ $X_{BS} = \mathbb{Z}_2$ $SI = z_2'$	P
$\mathbb{Z}_2$ weak $6_{00\frac{1}{2}}^{001}*$ $2_{00\frac{1}{2}}^{010}*$ $i$ $2_{00\frac{1}{2}}^{110}$ $g_{00\frac{1}{2}}^{010}$	
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194.269 $P6_3'/m'mc'$ Classification = $\mathbb{Z}_M$ $X_{BS} = \mathbb{Z}_2$ $SI = z_2'$	
$\mathbb{Z}_2$ weak $6_{00\frac{1}{2}}^{001}*$ $2_{00\frac{1}{2}}^{010}$ $i$ $2_{00\frac{1}{2}}^{110}*$ $g_{00\frac{1}{2}}^{010}*$ $Cm_{(2)}^{110}$	P
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	P
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	(000)	0	0	0	1	0	0.699		
00	(006)	3	0	0	1	3	0633		
00	(0012)	6	0	0	0	6	$\overline{30}, 18, \overline{6}, \overline{6}$		
00	(006)	$\overline{3}$	0	0	1	$\overline{3}$	$12,\overline{6},3,3$		
01	(002)	1	1	1	0	1	$\overline{5}3\overline{11}$		
02	(004)	2	0	0	0	2	$\overline{10}, 6, \overline{2}, \overline{2}$		
03	(006)	3	1	1	0	3	$\overline{15}, 9, \overline{3}, \overline{3}$		
04	(008)	4	0	0	0	4	$\overline{20}, 12, \overline{4}, \overline{4}$		
05	(0010)	5	1	1	0	5	$\overline{25}, 15, \overline{5}, \overline{5}$		
10	(002)	1	0	0	1	1	$0\overline{211}$		
11	(004)	2	1	1	1	2	$\overline{5}1\overline{22}$		
12	(006)	3	0	0	1	3	$\frac{\overline{10,4,\overline{3},\overline{3}}}$		
13	(008)	4	1	1	1	4	$\frac{10, 1, 0, 0}{15, 7, \overline{4}, \overline{4}}$		
$\frac{15}{14}$	(0010)	5	0	0	1	5	$\frac{15, 7, 4, 4}{20, 10, \overline{5}, \overline{5}}$		
	/	6		1			$\frac{20, 10, 5, 5}{25, 13, \overline{6}, \overline{6}}$		
15	(0012)		1		1	6			
20	(004)	2	0	0	0	2	0422		
21	(006)	3	1	1	0	3	5133		
22	(008)	4	0	0	0	4	$\overline{10}, 2, \overline{4}, \overline{4}$		
23	(0010)	5	1	1	0	5	$\overline{15}, 5, \overline{5}, \overline{5}$		
24	(0012)	6	0	0	0	6	$\overline{20}, 8, \overline{6}, \overline{6}$		
25	(0014)	7	1	1	0	7	$\overline{25}, 11, \overline{7}, \overline{7}$		
		194.272	$P_c 6_3/mm$	c Clas	sification =	$=\mathbb{Z}_{M}^{2}$	$X_{BS} = \mathbb{Z}_6$	$SI = z_{6m,0}^+$	
$\mathbb{Z}_6$	weak	$\{1 00\frac{1}{2}\}*$	6001*	$2^{010}_{00\frac{1}{2}}*$	$i_{00\frac{1}{2}}*$	$2_{00\frac{1}{2}}^{110}$	$m_{010}*$	$\frac{\text{SI} = z_{6m,0}^+}{Cm_{(6)}^{001}}$	$Cm_{(2)}^{210}$
0	(000)	0	0	0	0	0	0	6600	$\frac{6\overline{6}}{\overline{9}}$
0	(000)	0	0	0	0	0	0	0000	$\overline{2}2$
0	(000)	0	0	0	0	0	0	0000	$2\overline{2}$
1	(000)	1	1	1	0	0	0	$1\overline{1}00$	$1\overline{1}$
2	(000)	0	0	0	0	0	0	$2\overline{2}00$	$2\overline{2}$
3	(000)	1	1	1	0	0	0	$3\overline{3}00$	$3\overline{3}$
4	(000)	0	0	0	0	0	0	$4\overline{4}00$	$4\overline{4}$
						-			
5	(000)	1	1	1	0	0	0	$5\overline{5}00$	$5\overline{5}$
5	(000)		1	1	0	0		$5\overline{5}00$	$5\overline{5}$
		200.14 F	1	1 assificati	$0 \\ on = \mathbb{Z}_M^2$	0	$0 = \mathbb{Z}_{2,4}  SI =$	$5\overline{5}00$	55
$\mathbb{Z}_{2,4}$	weak	$\frac{200.14}{3^{111}}$	$\frac{1}{2^{100}}$ Cla	$\frac{1}{i}$	$0$ on = $\mathbb{Z}_M^2$ $Cm_{(2)}^{100}$	0		$5\overline{5}00$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \end{array} $	weak (000)	200.14 <i>F</i> 3 <sup>111</sup> 0	$ \begin{array}{c c} \hline 1 \\ \hline 2^{100} \\ \hline 0 \end{array} $	$ \begin{array}{c} 1\\ \text{assificati}\\ i\\ 0 \end{array} $	$ 0 $ $ on = \mathbb{Z}_M^2 $ $ Cm_{(2)}^{100} $ $ \overline{2222} $	0		$5\overline{5}00$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \end{array} $	weak (000) (000)	200.14 <i>F</i> 3 <sup>111</sup> 0 0	$ \begin{array}{c c} \hline 1 \\ \hline Pm\overline{3} & Cla \\ \hline 2^{100} \\ \hline 0 \\ 0 \end{array} $	$ \begin{array}{c} 1\\ \text{assificati}\\ i\\ 0\\ 0 \end{array} $	$ \begin{array}{c} 0 \\ \text{on} = \mathbb{Z}_M^2 \\ \underline{Cm_{(2)}^{100}} \\ \hline 222\overline{2} \\ 4\overline{4}00 \end{array} $	0		$5\overline{5}00$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ \hline 00 \end{array} $	weak (000) (000) (000)	200.14 F 3 <sup>111</sup> 0 0 0	$ \begin{array}{c c} 1 & \hline 2 m \overline{3} & \text{Cla} \\ 2^{100} & \hline 0 & \hline 0 & \hline 0 & \hline 0 & \hline \end{array} $	1 assificati	$   \begin{array}{c}     0 \\     \hline     0                    $	0		$5\overline{5}00$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ \hline 00 \\ 03 \end{array} $	weak   (000)   (000)   (000)   (000)	200.14 F 3 <sup>111</sup> 0 0 0 0 0	1 2 <sup>100</sup> Cla 2 <sup>100</sup> 0 0 0	$ \begin{array}{c} 1\\ assificati\\ i\\ 0\\ 0\\ 0\\ 1 \end{array} $	$ \begin{array}{c} 0 \\                                   $	0		$5\overline{5}00$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ \hline 00 \\ 03 \\ \hline 02 \end{array} $	weak   (000)   (000)   (000)   (000)   (000)	200.14 <i>F</i> 3 <sup>111</sup> 0 0 0 0 0 0 0	1 2 <sup>100</sup> Clarent O O O O O O O O O O O O O O O O O O O	1 assificati i 0 0 0 1 0	$\begin{array}{c} 0\\ \hline on = \mathbb{Z}_{M}^{2}\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4\overline{4}00\\ \hline 22\overline{2}2\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \end{array}$	0		$5\overline{5}00$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ \hline 00 \\ \hline 03 \\ \hline 02 \\ 01 \end{array} $	weak	200.14 <i>F</i> 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0	1 2 <sup>100</sup> Cla 2 <sup>100</sup> 0 0 0 0 0 0	1 assificati	$\begin{array}{c} 0\\ \hline on = \mathbb{Z}_{M}^{2}\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4\overline{4}00\\ \hline 2\overline{2}\overline{2}2\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \end{array}$	0		$5\overline{5}00$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ \end{array} $	weak (000) (000) (000) (000) (000) (000) (000)	200.14	1 2100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 assificati  i 0 0 0 1 0 1 0	$\begin{array}{c} 0\\ \hline on = \mathbb{Z}_{M}^{2}\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4400\\ \hline 22\overline{2}2\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline \overline{1}11\overline{1}\\ \hline \end{array}$	0		$5\overline{5}00$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000)	200.14	1 Pm3 Class	1 assificati i 0 0 0 1 0 1 0 1	$\begin{array}{c} 0\\ \hline on = \mathbb{Z}_{M}^{2}\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4400\\ \hline 22\overline{2}2\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline \overline{1}11\overline{1}\\ \hline 001\overline{1} \\ \end{array}$	0		$5\overline{5}00$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000)	200.14	1 Pm3 Class	1 assificati i 0 0 0 1 0 1 0 1 0 1 0 0	$\begin{array}{c} 0\\ \hline on = \mathbb{Z}_{M}^{2}\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4400\\ \hline 2222\\ \hline 1\bar{1}00\\ \hline 2\bar{2}00\\ \hline 3\bar{3}00\\ \hline \bar{1}11\bar{1}\\ \hline 001\bar{1}\\ \hline 1\bar{1}1\bar{1}\\ \hline \end{array}$	0		$5\overline{5}00$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000)	200.14	1 Pm3 Class	1 assificati i 0 0 0 1 0 1 0 1	$\begin{array}{c} 0\\ \hline on = \mathbb{Z}_{M}^{2}\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4400\\ \hline 22\overline{2}2\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline \overline{1}11\overline{1}\\ \hline 001\overline{1} \\ \end{array}$	0		$5\overline{5}00$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000)	200.14	$ \begin{array}{c cccc}  & 1 & & \\ \hline Pm\overline{3} & Cla & \\ \hline 2^{100} & & \\ 0 & & \\ 0 & & \\ 0 & & \\ 0 & & \\ 0 & & \\ \hline 0 & & \\ 0 & & \\ \hline P_Im\overline{3} & Cla & \\ \hline \end{array} $	1 assificati i 0 0 0 1 0 1 0 1 0 1 1 0 1	$\begin{array}{c} 0\\ \text{on} = \mathbb{Z}_M^2\\ \overline{Cm_{(2)}^{100}}\\ \overline{2222}\\ \underline{4400}\\ \overline{2222}\\ \underline{1100}\\ \underline{2200}\\ \underline{3300}\\ \overline{1111}\\ \underline{0011}\\ \underline{1111}\\ \underline{2211}\\ \end{array}$	0 X <sub>BS</sub> =		$5\overline{5}00$ $z'_{2P,1}, z'_{4P}$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \\ 11 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000)	200.14 F 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 200.17	1 Pm3 Cla 2 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 assificati i 0 0 0 1 0 1 0 1 0 1 1 0 1	$\begin{array}{c} 0\\ \text{on} = \mathbb{Z}_M^2\\ \overline{Cm_{(2)}^{100}}\\ \overline{2222}\\ \underline{4400}\\ \overline{2222}\\ \underline{1100}\\ \underline{2200}\\ \underline{3300}\\ \overline{1111}\\ \underline{0011}\\ \underline{1111}\\ \underline{2211}\\ \end{array}$	$\frac{0}{X_{BS}} =$	$=\mathbb{Z}_{2,4}$ SI $=$	$5\overline{5}00$ $z'_{2P,1}, z'_{4P}$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ 00 \\ \hline 03 \\ 02 \\ \hline 01 \\ 10 \\ 13 \\ 12 \\ \hline 11 \\ \hline \mathbb{Z}_4 $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (weak	$ \begin{array}{c c} 200.14 & F \\ 3^{111} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 200.17 \\ \{1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	assificati $i$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$	$\begin{array}{c} 0 \\ \hline on = \mathbb{Z}_{M}^{2} \\ \hline Cm^{100}_{(2)} \\ \hline 2222 \\ 4\overline{4}00 \\ \hline 2222 \\ 1\overline{1}00 \\ 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 111\overline{1} \\ 001\overline{1} \\ 1\overline{1}1\overline{1} \\ \hline 2\overline{2}11 \\ \hline ication = 1 \\ \hline \end{array}$	$\frac{0}{X_{BS}} = \frac{1}{2} \frac{X_{BS}}{Cm_{(2)}^{010}}$	$=\mathbb{Z}_{2,4}$ SI $=$	$5\overline{5}00$ $z'_{2P,1}, z'_{4P}$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \\ 11 \hline \mathbb{Z}_4 \\ 0 $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 200.14 & F \\ 3^{111} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 200.17 \\ \{1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\ 0 & 0 \\ \end{array} $	$ \begin{array}{c c} 1 \\ \hline Pm\overline{3} & Cla \\ \hline 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline P_Im3 \\ 3^{111} \\ 0 \\ \end{array} $	$1$ assificati $i$ 0 0 0 1 0 1 0 1 Classifi $2^{100}$ 0	$\begin{array}{c} 0\\ \hline on = \mathbb{Z}_{M}^{2}\\ \hline Cm^{100}\\ \hline 2222\\ \hline 4\bar{4}00\\ \hline 2222\\ \hline 1\bar{1}00\\ \hline 2\bar{2}00\\ \hline 3\bar{3}00\\ \hline 111\bar{1}\\ \hline 001\bar{1}\\ \hline 1\bar{1}1\bar{1}\\ \hline 2\bar{2}1\bar{1}\\ \hline ication = 1\\ \hline 0\\ \end{array}$	$\frac{0}{X_{BS}} = \frac{1}{2}$ $\frac{Z_M}{Cm_{(2)}^{010}} = \frac{X}{4400}$	$=\mathbb{Z}_{2,4}$ SI $=$	$5\overline{5}00$ $z'_{2P,1}, z'_{4P}$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \\ 11 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 200.14 & F \\ 3^{111} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 200.17 \\ \{1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\ 0 & 0 \\ \end{array} $	$ \begin{array}{c c} 1 \\ \hline Pm\overline{3} & Cla \\ \hline 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline P_Im3 \\ 3^{111} \\ 0 \\ 0 \end{array} $	$1$ assificati $i$ 0 0 0 1 0 1 0 1 Classifi $2^{100}$ 0 0	$\begin{array}{c} 0 \\ \hline on = \mathbb{Z}_{M}^{2} \\ \hline Cm_{(2)}^{100} \\ \hline 2222 \\ \hline 4400 \\ \hline 2222 \\ \hline 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline \overline{1}11\overline{1} \\ \hline 001\overline{1} \\ \hline 1\overline{1}1\overline{1} \\ \hline 2\overline{2}1\overline{1} \\ \hline cation = 1 \\ \hline 0 \\ 0 \\ \hline \end{array}$	$\frac{0}{X_{BS}} = \frac{1}{2}$ $\frac{Z_M}{Cm_{(2)}^{010}} = \frac{X}{4400}$ $\frac{1}{2}$	$=\mathbb{Z}_{2,4}$ SI $=$	$5\overline{5}00$ $z'_{2P,1}, z'_{4P}$	55
$\begin{array}{c c} \hline & \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ 00 \\ \hline 03 \\ 02 \\ \hline 01 \\ 10 \\ \hline 13 \\ 12 \\ \hline 11 \\ \hline & \mathbb{Z}_4 \\ \hline 0 \\ 0 \\ 3 \\ \hline \end{array}$	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 200.14 & F \\ 3^{111} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 0 \\ 1 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 0 \\ 0$	1 Pm3 Class	$ \begin{array}{c} 1 \\ assificati \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline Classifi \\ 2^{100} \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ \hline on = \mathbb{Z}_{M}^{2} \\ \hline Cm_{(2)}^{100} \\ \hline 2222 \\ 4\overline{4}00 \\ \hline 22\overline{2}2 \\ 1\overline{1}00 \\ \hline 2\overline{2}00 \\ \hline 3\overline{3}00 \\ \hline 111\overline{1} \\ \hline 001\overline{1} \\ 1\overline{1}1\overline{1} \\ \hline 2\overline{2}1\overline{1} \\ \hline ication = 1 \\ 0 \\ 0 \\ 1 \\ \end{array}$	$ \frac{\mathbb{Z}_{M} \times X}{Cm_{(2)}^{010}} $ $ \frac{4400}{0000} $ $ 1\overline{100} $	$=\mathbb{Z}_{2,4}$ SI $=$	$5\overline{5}00$ $z'_{2P,1}, z'_{4P}$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \\ 11 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c c} 200.14 & F \\ 3^{111} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 1 & 2 & 1 & 2 & 1 \\ 0 & 0 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 1 & 0 & 0 \\ 0$	$ \begin{array}{c c} 1 \\ \hline Pm\overline{3} & Cla \\ 2^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline P_Im\overline{3} \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} 1 \\ assificati \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline Classifi \\ 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0\\ \hline on = \mathbb{Z}_{M}^{2}\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4400\\ \hline 2222\\ \hline 1\bar{1}00\\ \hline 2\bar{2}00\\ \hline 3\bar{3}00\\ \hline 111\bar{1}\\ \hline 001\bar{1}\\ \hline 1\bar{1}1\bar{1}\\ \hline 2\bar{2}1\bar{1}\\ \hline ication = 1\\ i\\ \hline 0\\ \hline 0\\ 1\\ \hline \end{array}$	$ \frac{\mathbb{Z}_{M} \times \mathbb{X}}{Cm_{(2)}^{010}} $ $ \frac{4400}{0000} $ $ \frac{1100}{2200} $	$=\mathbb{Z}_{2,4}$ SI $=$	$5\overline{5}00$ $z'_{2P,1}, z'_{4P}$	55
$\begin{array}{c c} \hline & \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ 00 \\ \hline 03 \\ 02 \\ \hline 01 \\ 10 \\ \hline 13 \\ 12 \\ \hline 11 \\ \hline & \mathbb{Z}_4 \\ \hline 0 \\ 0 \\ 3 \\ \hline \end{array}$	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c} 200.14 & F \\ 3^{111} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 0 \\ 1 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 &$	$ \begin{array}{c c} 1 \\ \hline Pm\overline{3} & Cli \\ \hline 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline P_Im\overline{3} \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	1 assificati $i$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} 0 \\ \hline on = \mathbb{Z}_M^2 \\ \hline Cm_{(2)}^{100} \\ \hline 2222 \\ \hline 4400 \\ \hline 2222 \\ \hline 1\bar{1}00 \\ \hline 2\bar{2}00 \\ \hline 3\bar{3}00 \\ \hline 111\bar{1} \\ \hline 001\bar{1} \\ \hline 1\bar{1}1\bar{1} \\ \hline 2\bar{2}1\bar{1} \\ \hline (cation = \frac{1}{2}) \\ \hline 0 \\ 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c c} 0 \\ \hline X_{BS} = \\ \hline \\ \hline Z_M & X \\ \hline Cm^{010}_{(2)} \\ \hline 4\bar{4}00 \\ \hline 0000 \\ \hline 1\bar{1}00 \\ \hline 2\bar{2}00 \\ \hline 3\bar{3}00 \\ \hline \end{array}$	$\mathbb{Z}_{2,4}$ $\mathbb{S}\mathbb{I}=\mathbb{Z}_{2,4}$ $\mathbb{S}\mathbb{I}=\mathbb{Z}_2$	$ \frac{5\overline{5}00}{z'_{2P,1}, z'_{4P}} \\ = z'_{4P} $	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \\ 11 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c} 200.14 & F \\ 3^{111} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 1 \\ 201.1 \\ 201.1 \\  \end{array} $	$ \begin{array}{c c} 1 \\ \hline Pm\overline{3} & Cli \\ \hline 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline P_Im3 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 8 & Pn\overline{3} \end{array} $	$1$ assificati $i$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ Classifi $2^{100}$ $0$ $0$ $0$ $0$ Classifi	$\begin{array}{c} 0\\ \hline on = \mathbb{Z}_{M}^{2}\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4400\\ \hline 2222\\ \hline 1\bar{1}00\\ \hline 2\bar{2}00\\ \hline 3\bar{3}00\\ \hline 111\bar{1}\\ \hline 001\bar{1}\\ \hline 1\bar{1}1\bar{1}\\ \hline 2\bar{2}1\bar{1}\\ \hline ication = 1\\ i\\ \hline 0\\ \hline 0\\ 1\\ \hline \end{array}$	$\begin{array}{c c} 0 \\ \hline X_{BS} = \\ \hline \\ \hline Z_M & X \\ \hline Cm^{010}_{(2)} \\ \hline 4\bar{4}00 \\ \hline 0000 \\ \hline 1\bar{1}00 \\ \hline 2\bar{2}00 \\ \hline 3\bar{3}00 \\ \hline \end{array}$	$\mathbb{Z}_{2,4}$ $\mathbb{S}\mathbb{I}=\mathbb{Z}_{2,4}$ $\mathbb{S}I$	$5\overline{5}00$ $z'_{2P,1}, z'_{4P}$	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \\ 11 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c} 200.14 & F \\ 3^{111} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 0 \\ 1 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 &$	$ \begin{array}{c c} 1 \\ \hline Pm\overline{3} & Cli \\ \hline 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline P_Im3 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 8 & Pn\overline{3} \end{array} $	1 assificati $i$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} 0 \\ \hline on = \mathbb{Z}_M^2 \\ \hline Cm_{(2)}^{100} \\ \hline 2222 \\ \hline 4400 \\ \hline 2222 \\ \hline 1\bar{1}00 \\ \hline 2\bar{2}00 \\ \hline 3\bar{3}00 \\ \hline 111\bar{1} \\ \hline 001\bar{1} \\ \hline 1\bar{1}1\bar{1} \\ \hline 2\bar{2}1\bar{1} \\ \hline (cation = \frac{1}{2}) \\ \hline 0 \\ 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c c} 0 \\ \hline X_{BS} = \\ \hline \\ \hline Z_M & X \\ \hline Cm^{010}_{(2)} \\ \hline 4\bar{4}00 \\ \hline 0000 \\ \hline 1\bar{1}00 \\ \hline 2\bar{2}00 \\ \hline 3\bar{3}00 \\ \hline \end{array}$	$\mathbb{Z}_{2,4}$ $\mathbb{S}\mathbb{I}=\mathbb{Z}_{2,4}$ $\mathbb{S}\mathbb{I}=\mathbb{Z}_2$	$ \frac{5\overline{5}00}{z'_{2P,1}, z'_{4P}} \\ = z'_{4P} $	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \\ 11 \hline \\ \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c} 200.14 & F \\ 3^{111} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 1 \\ 201.1 \\ 201.1 \\  \end{array} $	$ \begin{array}{c c} 1 \\ \hline Pm\overline{3} & Cli \\ \hline 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline P_Im\overline{3} \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$1$ assificati $i$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ Classifi $2^{100}$ $0$ $0$ $0$ $0$ Classifi	$\begin{array}{c} 0 \\ \hline on = \mathbb{Z}_M^2 \\ \hline Cm_{(2)}^{100} \\ \hline 2222 \\ \hline 4400 \\ \hline 2222 \\ \hline 1\bar{1}00 \\ \hline 2\bar{2}00 \\ \hline 3\bar{3}00 \\ \hline 111\bar{1} \\ \hline 001\bar{1} \\ \hline 1\bar{1}1\bar{1} \\ \hline 2\bar{2}1\bar{1} \\ \hline (cation = \frac{1}{2}) \\ \hline 0 \\ 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c c} 0 \\ \hline X_{BS} = \\ \hline \\ \hline Z_M & X \\ \hline Cm^{010}_{(2)} \\ \hline 4\bar{4}00 \\ \hline 0000 \\ \hline 1\bar{1}00 \\ \hline 2\bar{2}00 \\ \hline 3\bar{3}00 \\ \hline \end{array}$	$\mathbb{Z}_{2,4}$ $\mathbb{S}\mathbb{I}=\mathbb{Z}_{2,4}$ $\mathbb{S}\mathbb{I}=\mathbb{Z}_2$	$ \frac{5\overline{5}00}{z'_{2P,1}, z'_{4P}} \\ = z'_{4P} $	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ \hline 01 \\ 10 \\ 13 \\ 12 \\ 11 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c} 200.14 & F \\ 3^{111} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 0 \\ 0 & 1 \\ 0 & 1 \\ 3^{111} \end{array} $	$ \begin{array}{c c} 1 \\ \hline Pm\overline{3} & Cla \\ \hline 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline P_Im\overline{3} \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 8 & Pn\overline{3} \\ 2^{100}_{0\frac{1}{2}\frac{1}{2}} \end{array} $	assificati $i$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} 0 \\ \hline on = \mathbb{Z}_M^2 \\ \hline Cm_{(2)}^{100} \\ \hline 2222 \\ \hline 4400 \\ \hline 2222 \\ \hline 1\bar{1}00 \\ \hline 2\bar{2}00 \\ \hline 3\bar{3}00 \\ \hline 111\bar{1} \\ \hline 001\bar{1} \\ \hline 1\bar{1}1\bar{1} \\ \hline 2\bar{2}1\bar{1} \\ \hline (cation = \frac{1}{2}) \\ \hline 0 \\ 0 \\ 1 \\ \hline \end{array}$	$\begin{array}{c c} 0 \\ \hline X_{BS} = \\ \hline \\ \hline Z_M & X \\ \hline Cm^{010}_{(2)} \\ \hline 4\bar{4}00 \\ \hline 0000 \\ \hline 1\bar{1}00 \\ \hline 2\bar{2}00 \\ \hline 3\bar{3}00 \\ \hline \end{array}$	$\mathbb{Z}_{2,4}$ $\mathbb{S}\mathbb{I}=\mathbb{Z}_{2,4}$ $\mathbb{S}\mathbb{I}=\mathbb{Z}_2$	$ \frac{5\overline{5}00}{z'_{2P,1}, z'_{4P}} \\ = z'_{4P} $	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \\ 11 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c} 200.14 & F \\ 3^{111} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 1 & 0 \\ 1 & 0 \\ 1 & 0 \\ 1 & 3^{111} \\ 0 & 0 \\ 0 & 0 \\ \end{array} $	$\begin{array}{c c} 1 \\ \hline Pm\bar{3} & Cli \\ \hline 2^{100} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline $	assificati $i$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} 0\\ \hline \text{on} = \mathbb{Z}_{M}^{2}\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4400\\ \hline 2222\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline \overline{1}11\overline{1}\\ \hline 001\overline{1}\\ \hline 1\overline{1}1\overline{1}\\ \hline 2\overline{2}1\overline{1}\\ \hline \text{ication} = 1\\ \hline 0\\ \hline 0\\ \hline 1\\ \hline \text{cation} = 2\\ \hline \end{array}$	$ \frac{\mathbb{Z}_{M} \times \mathbb{X}}{X_{BS}} = \frac{\mathbb{Z}_{M} \times \mathbb{Z}}{2} \times \mathbb{Z}_{B} $ $ \frac{\mathbb{Z}_{M} \times \mathbb{X}}{Cm_{(2)}^{010}} \times \mathbb{Z}_{2} \times \mathbb{Z}_{B} $	$\mathbb{Z}_{2,4}$ $SI = \mathbb{Z}_{2,4}$ $SI = \mathbb{Z}_{3,4}$ $SI = \mathbb{Z}_{4,4}$	$ \frac{5\overline{5}00}{z'_{2P,1}, z'_{4P}} \\ = z'_{4P} \\ = z'_{2P} $	55
$ \begin{array}{c c} \hline \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \\ 11 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $	weak	$ \begin{array}{c} 200.14 & F \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 201.1 \\ 3^{111} \\ 0 \\ 0 \\ 201.2 \\ 0 $	$ \begin{array}{c c} 1 \\ \hline Pm\overline{3} & Cla \\ \hline 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline P_Im3 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 8 & Pn\overline{3} \\ 2^{100}_{0\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ 1 & P_In\overline{3} \end{array} $	assificati $i$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ Classifi $i$ $0$ $0$ Classifi $i$ $0$ $0$	$\begin{array}{c} 0\\ \text{on} = \mathbb{Z}_{M}^{2}\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4400\\ \hline 2222\\ \hline 1\overline{1}00\\ \hline 2\overline{2}00\\ \hline 3\overline{3}00\\ \hline 1\overline{1}\overline{1}\\ \hline 001\overline{1}\\ \hline 1\overline{1}\overline{1}\overline{1}\\ \hline 2\overline{2}\overline{1}\overline{1}\\ \hline \text{ication} = 2\\ \hline 0\\ \hline 0\\ \hline 1\\ \hline \text{cation} = 2\\ \hline \end{array}$	$ \frac{\mathbb{Z}_{M} \times \mathbb{X}}{X_{BS}} = \frac{\mathbb{Z}_{M} \times \mathbb{Z}}{2} \times \mathbb{Z}_{B} $ $ \frac{\mathbb{Z}_{M} \times \mathbb{X}}{Cm_{(2)}^{010}} \times \mathbb{Z}_{2} \times \mathbb{Z}_{B} $	$\mathbb{Z}_{2,4}$ $\mathbb{S}I = \mathbb{Z}_{2,4}$ $\mathbb{S}I = \mathbb{Z}_{2$	$ \frac{5\overline{5}00}{z'_{2P,1}, z'_{4P}} \\ = z'_{4P} $	55
$ \begin{array}{c c}  \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \\ 11 \end{array} $ $ \begin{array}{c c}  \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \end{array} $ $ \begin{array}{c c}  \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $	weak	$ \begin{array}{c} 200.14 & F \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c c} 1 \\ \hline Pm\overline{3} & Cla \\ \hline 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 1 \\ \text{assificati} \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ Classifi \\ 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ Classifi \\ i \\ 0 \\ 1 \\ Classifi \\ 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$\begin{array}{c} 0\\ \text{on} = \mathbb{Z}_M^2\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4400\\ \hline 2222\\ \hline 1\overline{100}\\ \hline 2\overline{200}\\ \hline 3\overline{3}00\\ \hline \overline{1}11\overline{1}\\ \hline 001\overline{1}\\ \hline 1\overline{1}1\overline{1}\\ \hline 2\overline{2}1\overline{1}\\ \hline \text{cation} = 2\\ \hline i\frac{1}{2}\frac{1}{2}\frac{1}{2}*\\ \\ \hline \end{array}$	$ \frac{\mathbb{Z}_{M} \times \mathbb{X}}{X_{BS}} = \frac{\mathbb{Z}_{M} \times \mathbb{Z}}{2} \times \mathbb{Z}_{B} $ $ \frac{\mathbb{Z}_{M} \times \mathbb{X}}{Cm_{(2)}^{010}} \times \mathbb{Z}_{2} \times \mathbb{Z}_{B} $	$\mathbb{Z}_{2,4}$ $SI = \mathbb{Z}_{2,4}$ $SI = \mathbb{Z}_{3,4}$ $SI = \mathbb{Z}_{4,4}$	$ \frac{5\overline{5}00}{z'_{2P,1}, z'_{4P}} \\ = z'_{4P} \\ = z'_{2P} $	55
$ \begin{array}{c c}  & \mathbb{Z}_{2,4} \\ \hline 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \\ 11 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \mathbb{Z}_2 \\ 0 \end{array} $	weak   (000)	$ \begin{array}{c} 200.14 & F \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c c} 1 \\ \hline Pm\overline{3} & Cla \\ \hline 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 1 \\ \text{assificati} \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ Classifi \\ 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ Classifi \\ i \\ 0 \\ 1 \\ Classifi \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 0\\ \text{on} = \mathbb{Z}_{M}^{2}\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4400\\ \hline 2222\\ \hline 1\overline{100}\\ \hline 2\overline{200}\\ \hline 3\overline{3}00\\ \hline 1\overline{1}\overline{1}\overline{1}\\ \hline 001\overline{1}\\ \hline 1\overline{1}\overline{1}\overline{1}\\ \hline 2\overline{2}\overline{1}\\ \hline \text{cation} = \overline{1}\\ \hline 0\\ \hline 1\\ \hline \text{cation} = \overline{1}\\ \hline \\ \frac{i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{0} \end{array}$	$ \frac{\mathbb{Z}_{M} \times \mathbb{X}}{X_{BS}} = \frac{\mathbb{Z}_{M} \times \mathbb{Z}}{2} \times \mathbb{Z}_{B} $ $ \frac{\mathbb{Z}_{M} \times \mathbb{X}}{Cm_{(2)}^{010}} \times \mathbb{Z}_{2} \times \mathbb{Z}_{B} $	$\mathbb{Z}_{2,4}$ $SI = \mathbb{Z}_{2,4}$ $SI = \mathbb{Z}_{3,4}$ $SI = \mathbb{Z}_{4,4}$	$ \frac{5\overline{5}00}{z'_{2P,1}, z'_{4P}} \\ = z'_{4P} \\ = z'_{2P} $	55
$ \begin{array}{c c}  \mathbb{Z}_{2,4} \\ 00 \\ 00 \\ 00 \\ 03 \\ 02 \\ 01 \\ 10 \\ 13 \\ 12 \\ 11 \end{array} $ $ \begin{array}{c c}  \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \end{array} $ $ \begin{array}{c c}  \mathbb{Z}_2 \\ 0 \\ 1 \\ \end{array} $	weak	$ \begin{array}{c} 200.14 & F \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c c} 1 \\ \hline Pm\overline{3} & Cla \\ \hline 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 1 \\ \text{assificati} \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ Classifi \\ 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ Classifi \\ i \\ 0 \\ 1 \\ Classifi \\ 2^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$\begin{array}{c} 0\\ \text{on} = \mathbb{Z}_M^2\\ \hline Cm_{(2)}^{100}\\ \hline 2222\\ \hline 4400\\ \hline 2222\\ \hline 1\overline{100}\\ \hline 2\overline{200}\\ \hline 3\overline{3}00\\ \hline \overline{1}11\overline{1}\\ \hline 001\overline{1}\\ \hline 1\overline{1}1\overline{1}\\ \hline 2\overline{2}1\overline{1}\\ \hline \text{cation} = 2\\ \hline i\frac{1}{2}\frac{1}{2}\frac{1}{2}*\\ \\ \hline \end{array}$	$ \frac{\mathbb{Z}_{M} \times \mathbb{X}}{X_{BS}} = \frac{\mathbb{Z}_{M} \times \mathbb{Z}}{2} \times \mathbb{Z}_{B} $ $ \frac{\mathbb{Z}_{M} \times \mathbb{X}}{Cm_{(2)}^{010}} \times \mathbb{Z}_{2} \times \mathbb{Z}_{B} $	$\mathbb{Z}_{2,4}$ $SI = \mathbb{Z}_{2,4}$ $SI = \mathbb{Z}_{3,4}$ $SI = \mathbb{Z}_{4,4}$	$ \frac{5\overline{5}00}{z'_{2P,1}, z'_{4P}} \\ = z'_{4P} \\ = z'_{2P} $	55

		202.22	$Fm\bar{3}$	Classif	ication =	7	X <sub>BS</sub> =	- 77.	ST	~′	
$\mathbb{Z}_4$	weak	3111	$\frac{171113}{2^{100}}$	i	$Cm_{(2)}^{001}$		ABS -	<i>–</i> ∠4	51	$-z_{4P}$	
0	(000)	0	0	0	$\frac{C m_{(2)}}{4\overline{4}}$						
0	(000)	0	0	0	00						
3	(000)	0	0	1	$\frac{\overline{11}}{11}$						
2	(000)	0	0	0	$2\overline{2}$						
1	(000)	0	0	1	$3\overline{3}$						
	/	202.25	$F_S m \bar{3}$	Classi	fication =	= 7/M	Хрс	= 7/4	SI	$\equiv z'_{AB}$	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2},\frac{1}{2},\frac{1}{2}\}*$	3111	$2^{100}$	$\frac{i}{i}$	C	$m_{(2)}^{100}$			~41	
0	(000)	0	0	0	0		44				
0	(000)	0	0	0	0		00				
3	(000)	1	0	0	1		$1\overline{1}$				
2	(000)	0	0	0	0		$2\overline{2}$				
1	(000)	1	0	0	1		$3\overline{3}$				
		203.2	$6 Fd\overline{3}$	Classif	ication =	$\mathbb{Z}_2$	$X_{BS} =$	$\mathbb{Z}_2$	SI =	$=z_{2P}'$	
$\mathbb{Z}_2$	weak	$3^{111}$	$2^{100}_{0\frac{1}{4}\frac{1}{4}}$	i						21	
0	(000)	0	$\frac{0_{44}}{0}$	0							
1	(000)	0	0	1							
		203.29	$F_S d\bar{3}$	Classi	fication =	= Zn	X <sub>BS</sub> =	= 7/2	SI:	$=z_{0D}'$	
$\overline{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$\frac{71345}{3^{111}}$	$2_{0\frac{1}{4}\frac{1}{4}}^{100}$	$\frac{i}{i}$	<u>~2</u>	- 60.	2	~1 ·	~2P	
$\frac{2}{0}$	(000)	0	0	$\frac{2_{0\frac{1}{4}\frac{1}{4}}}{0}$	0						
$\frac{0}{1}$	(000)	1	0	0	1						
	(000)	204.30			cation =	7	V	- 77 ·	CT.		
$\mathbb{Z}_4$	weak	3111	$\frac{1m_{5}}{2^{100}}$	i	$\frac{\text{cation} = }{Cm_{(2)}^{010}}$	<i>∠M</i>	X <sub>BS</sub> =	= //4	51	$= z_{4P}$	
$\frac{224}{0}$	(000)	0	0	0	$\frac{Cm_{(2)}}{4\overline{4}}$						
$\frac{0}{0}$	(000)	0	0	0	00						
3	(000)	0	0	1	$\frac{\overline{11}}{11}$						
2	(000)	0	0	0	$\frac{11}{2\overline{2}}$						
1	(000)	0	0	1	$\frac{-2}{3\overline{3}}$						
	,	205.3	$3 Pa\bar{3}$	Classif	ication =	7,2	X <sub>DC</sub> =	7,2	SI =	= 2'2 D	
$\overline{\mathbb{Z}_2}$	weak	3 <sup>111</sup>	$2^{100}_{\frac{1}{2}\frac{1}{2}0}$	$\frac{i}{i}$	ication	<i></i>	1103	##Z		~2P	
0	(000)	0	$\frac{-\frac{1}{2}\frac{1}{2}0}{0}$	0							
$\frac{0}{1}$	(000)	0	0	1							
	(000)	205.36		Classit	fication =	- 7.0	X <sub>DG</sub> -	- 7.0	ST -	- ~'	
$\overline{\mathbb{Z}_2}$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$		$2^{100}_{00\frac{1}{2}}*$			ABS -	- 422	D1 -	$- \sim_{2P}$	
			_ 4 4		$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$						
$\frac{0}{1}$	(000)	0 1	0	0	$\frac{0}{0}$						
	(000)					F77	37	F77	CIT	,	
	1 1	$\frac{206.3}{3^{111}}$			cation =	$\mathbb{Z}_2$	$X_{BS} =$	$\mathbb{Z}_2$	S1 =	$z_{2P}$	
$\mathbb{Z}_2$	weak		$2^{100}_{00\frac{1}{2}}$	i							 
0	(000)	0	0	0							
1	(000)	0	0	1							
		215.70	$P\bar{4}3m$	Classif	ication =	$\mathbb{Z}_M$	X <sub>BS</sub> =	$=\mathbb{Z}_2$	SI	$= z_{2,S_4}$	
$\mathbb{Z}_2$	weak	3 <sup>111</sup>	$\bar{4}^{100}$	$Cm_{(0)}^{110}$							
0	(000)	0	0	$\frac{2\overline{2}}{2\overline{2}}$							
0	(000)	0	0	$2\overline{2}$							
1	(000)	0	1	11							
	-	215.73	$P_I \bar{4}3m$	Classif	ication =		$X_{BS}$	$=\mathbb{Z}_2$	SI	$= z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$3^{111}$	$\bar{4}^{100}$	$Cm_{\underline{(0)}}^{011}$						
0	(000)	0	0	0	$\frac{2\overline{2}}{\overline{2}}$						
0	(000)	0	0	0	$2\overline{2}$						
1	(000)	1	0	1	11						 
		216.74	$F\overline{4}3m$		ication =	$\mathbb{Z}_M$	$X_{BS}$	$=\overline{\mathbb{Z}_2}$	$\overline{SI}$	$= z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$3^{111}$	$\bar{4}^{100}$	$Cm_{(0)}^{10\bar{1}}$							
0	(000)	0	0	$2\overline{2}$							
0	(000)	0	0	$2\overline{2}$							

1	(000)	0	1	11							
	(000)	216.77	$F_S \overline{43m}$		ication =	7	V	- 7 -	CI.	$= z_{2,S_4}$	
$\overline{\mathbb{Z}_2}$	weak	$\frac{210.77}{\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*}$	$\frac{F_S 43771}{3^{111}}$	$\frac{\overline{4}^{100}}{4}$	$\frac{Cm_{(0)}^{110}}{Cm_{(0)}^{110}}$	<i>∠ M</i>	ABS	$S = \mathbb{Z}_2$	S1 -	$-z_{2,S_4}$	
$\frac{2}{0}$	(000)	$\frac{1}{0}$	0	0	$\frac{2\overline{2}}{2}$						
0	(000)	0	0	0	$\frac{2\overline{2}}{2\overline{2}}$						
$\frac{0}{1}$	(000)	1	0	1	$\frac{22}{11}$						
	(000)	217.78	$I\overline{4}3m$		cation =	7	V	$=\mathbb{Z}_2$	CT _	$z_{2,S_4}$	
$-\mathbb{Z}_2$	weak	3 <sup>111</sup>	$\frac{143771}{4^{100}}$	$Cm_{(0)}^{011}$	cation —	ΔM	$\Lambda_{\mathrm{BS}}$	<i>—</i> ∠2	51 -	$-z_{2,S_{4}}$	
$\frac{2}{0}$	(000)	0	0	$\frac{Cm_{(0)}}{2\overline{2}}$							
0	(000)	0	0	$\frac{2\overline{2}}{2\overline{2}}$							
$\frac{0}{1}$	(000)	0	1	$\frac{22}{11}$							
	(000)	218.81			cation =	7.	Yna	$=\mathbb{Z}_2$	SI –	$z_{2,S_4}$	
$\overline{\mathbb{Z}_2}$	weak	3 <sup>111</sup>	$\frac{143n}{4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$	cation –	<i>∠</i> 12	ABS	<i>—</i> ∠2	51 —	$z_{2,S_4}$	
$\frac{0}{1}$	(000)	0	$\frac{0}{1}$	0							
	(000)				. , .	F77	37	F7/	CIT		
	1	218.84	$\frac{P_I \bar{4}3n}{3^{111}}$	$\frac{\text{Classif}}{\bar{4}^{100}*}$	ication =	$\mathbb{Z}_2$	$\Lambda_{\mathrm{BS}}$	$=\mathbb{Z}_2$	S1 =	$z_{2,S_4}$	
$\frac{\mathbb{Z}_2}{0}$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$			$m_{110}*$						
$\frac{0}{1}$	(000)	0 1	0	0	0						
	(000)					<b>7</b> 77	37	F77	CIT		
	1.	$\frac{219.85}{3^{111}}$			cation =	$\mathbb{Z}_2$	$X_{BS}$	$=\mathbb{Z}_2$	51 =	$z_{2,S_4}$	
$\mathbb{Z}_2$	weak		$\bar{4}^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110}$							
0	(000)	0	0	0							
1	(000)	0	1	1							
		219.88	$F_S \bar{4}3c$		ication =	$\mathbb{Z}_2$	$X_{BS}$	$=\mathbb{Z}_2$	SI =	$z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	3 <sup>111</sup>	$\bar{4}^{100}*$	$m_{110}*$						
0	(000)	0	0	0	0						
1	(000)	1	0	0	0						
		220.89		Classific	cation =	$\mathbb{Z}_2$	$X_{BS}$	$=\mathbb{Z}_2$	SI =	$z_{2,S_4}$	
$\overline{\mathbb{Z}_2}$	weak	$\frac{220.89}{3^{111}}$		$\frac{\text{Classific}}{g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}}$	cation =	$\mathbb{Z}_2$	X <sub>BS</sub> =	$=\mathbb{Z}_2$	SI =	$z_{2,S_4}$	
$\frac{\mathbb{Z}_2}{0}$	(000)		$ \begin{array}{c c} 143d \\ \hline 4^{100}_{\frac{1}{4},\frac{1}{4},\frac{1}{4}} \\ 0 \end{array} $	Classific $g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}$	cation =	$\mathbb{Z}_2$	X <sub>BS</sub> =	$=\mathbb{Z}_2$	SI =	$z_{2,S_4}$	
		3 <sup>111</sup>	$\bar{4}^{100}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	$g_{rac{1}{4}rac{1}{4}rac{1}{4}}^{110}$	cation =	$\mathbb{Z}_2$	X <sub>BS</sub> =	$=\mathbb{Z}_2$	SI =	$z_{2,S_4}$	
0	(000)	3 <sup>111</sup> 0 0 0 221.92 P	$ \begin{array}{c} \bar{4}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ 1 \end{array} $	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110} \\ 0 \\ 1 \end{array}$	$\frac{\text{cation} = 1}{\text{tion} = \mathbb{Z}^2}$	3 M	$X_{BS} =$	$=\mathbb{Z}_{4,8}$	SI =	$z_{4m,\pi}^+,z$	8
0 1	(000)	3 <sup>111</sup> 0 0	$ \begin{array}{c} \bar{4}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ 1 \end{array} $	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110} \\ 0 \\ 1 \end{array}$		3 M		$=\mathbb{Z}_{4,8}$	SI =	$z_{4m,\pi}^+,z$	8
0	(000)	3 <sup>111</sup> 0 0 0 221.92 P	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110} \\ 0 \\ 1 \\ \end{array}$	$tion = \mathbb{Z}_2^2$	3 M = 4	$X_{BS} =$		SI =		8
$ \begin{array}{c c} 0\\ 1\\ \hline \mathbb{Z}_{4,8} \end{array} $	(000) (000) weak	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup>	$ \begin{array}{c c} \bar{4}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{100} \\ 0 \\ 1 \\ \hline 2m\bar{3}m \\ 4^{100} \end{array} $	$g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{110}$ 0 1 Classifica $i$	$\frac{\text{tion} = \mathbb{Z}^2}{2^{110}}$	3 M - 4	$X_{BS} = 100$	$Cm_0^1$	$\frac{\text{SI}}{\frac{000}{4}} = \frac{1}{4, \overline{4}}$	$z_{4m,\pi}^+, z_{Cm_{(2)}^{011}}^+$	8
$ \begin{array}{c c} 0 \\ 1 \\ \hline  & \\ \hline  & \\  & \\ \hline  & \\  & \\  & \\  $	(000) (000) (000) weak (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{4}\frac{1}{4}} \\ 0 \\ 1 \\ \text{Classifica} \\ i \\ 0 \\ 0 \\ \end{array}$		$\frac{3}{M}$	$X_{\rm BS} = 0$	$ \frac{Cm_0^1}{20,20,} $ $ \frac{880}{884} $	$ SI =  00 4) 4, \overline{4} 0 4 4 $	$\begin{array}{c} z_{4m,\pi}^+, z_{4m,\pi}^-, z_{4m,\pi}^-,$	68
$ \begin{array}{c c} \hline 0\\ \hline 1\\ \hline Z_{4,8}\\ \hline 00\\ 00\\ \hline 00\\ \hline 00\\ 00\\ \end{array} $	(000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{4}\frac{1}{4}} \\ 0 \\ 1 \\ \hline Classifica \\ i \\ 0 \\ \end{array}$	$ \begin{array}{c} \text{tion} = \mathbb{Z}^{110} \\ 2^{110} \\ 0 \\ 0 \\ 0 \end{array} $	$\frac{3}{M}$ $\frac{1}{4}$	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$	$ \begin{array}{c} \hline Cm_0^1\\ \hline 20, 20, \\ 880\\ \hline 884\\ \hline 440 \end{array} $	$ SI = \frac{000}{40} $ $ 4, \overline{4} $ $ 0 $ $ 4 $ $ 0 $	$ \begin{array}{c} z_{4m,\pi}^+, z \\ Cm_{(2)}^{011} \\ \hline 24, 24 \\ 88 \\ \hline 66 \\ \hline 22 \end{array} $	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline Z_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 00\\ 03\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{110}} \\ 0 \\ 1 \\ \text{Classifica} \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ \end{array}$	$ \begin{array}{c} \text{tion} = \mathbb{Z} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	3 M 4	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$ $1$	$ \begin{array}{c}                                     $	$ SI = 000 \\ 40 \\ 4, \overline{4} $ 0 4 0 0	$ \begin{array}{c} z_{4m,\pi}^+, z \\ Cm_{(2)}^{011} \\ \overline{24, 24} \\ 88 \\ \overline{66} \\ \overline{22} \\ 1\overline{1} \end{array} $	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline Z_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{110}} = 0$ 1  Classifica  i  0  0  0  1  0	$ \begin{array}{c} \text{tion} = \mathbb{Z} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\frac{3}{M}$ $\bar{4}$	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$ \begin{array}{c} \overline{\mathbb{Z}_{4,8}} \\ Cm_0^1 \\ \overline{20}, 20, \\ 8\overline{80} \\ 88\overline{4} \\ \overline{440} \\ 1\overline{10} \\ 220 \end{array} $	$ SI = \frac{00}{40} \\ 4, \overline{4} \\ 0 \\ 4 0 0 0 0 0 $	$ \begin{array}{c} z_{4m,\pi}^+, z \\ Cm_{(2)}^{011} \\ \overline{24, 24} \\ 8\overline{8} \\ \overline{66} \\ \overline{22} \\ 1\overline{1} \\ 2\overline{2} \end{array} $	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline Z_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$g_{rac{1}{4}}^{rac{110}{4}rac{1}{4}rac{1}{4}} = 0$ 1 Classifica $i$ 0 0 0 1 0 1		$\frac{3}{M}$	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$	$ \begin{array}{c}                                     $	$ SI = \frac{000}{40} \\ 4, \overline{4} \\ 0 \\ 0 \\ 0 \\ 0 $	$\begin{array}{c} z_{4m,\pi}^+, z\\ Cm_{(2)}^{011}\\ \overline{24,24}\\ \underline{88}\\ \overline{66}\\ \overline{22}\\ \underline{11}\\ \underline{22}\\ \underline{33}\\ \end{array}$	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline Z_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ 04\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{110}} \\ 0 \\ 1 \\ \text{Classifica} \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ \end{array}$		3 M 4	$X_{BS} = \frac{1000}{0}$ $0$ $0$ $0$ $0$ $0$ $1$ $0$ $0$	$ \begin{array}{c}                                     $	$ \begin{array}{c} SI = \\ 00 \\ 4) \\ 4, \overline{4} \end{array} $ $ \begin{array}{c} 0 \\ 4 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} z_{4m,\pi}^+, z\\ Cm_{(2)}^{011}\\ \overline{24,24}\\ \underline{88}\\ \overline{66}\\ \overline{22}\\ \underline{11}\\ \underline{22}\\ \underline{33}\\ \underline{44} \end{array}$	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline \mathbb{Z}_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ 04\\ 07\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c c} \overline{4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{100}} \\ \hline 4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{100} \\ \hline 0 \\ \hline \end{array}$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{110}} \\ 0 \\ 1 \\ \\ \text{Classifica} \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$	$     \begin{array}{c}                                     $	$\frac{3}{M}$ $\frac{3}{4}$	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$	$\begin{array}{c} = \mathbb{Z}_{4,8} \\ \hline Cm_0^1 \\ \hline \hline 20, 20, \\ 880 \\ \hline 884 \\ 440 \\ \hline 110 \\ 220 \\ 330 \\ 440 \\ \hline 550 \\ \end{array}$	$ \begin{array}{c} SI = \\ \hline 000 \\ 4) \\ 4, \overline{4} \end{array} $ $ \begin{array}{c} 0 \\ 4 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} z_{4m,\pi}^+, z\\ Cm_{(2)}^{011}\\ \overline{24,24}\\ \underline{88}\\ \overline{66}\\ \overline{22}\\ \underline{11}\\ \underline{22}\\ \underline{33}\\ \underline{44}\\ \underline{55}\\ \end{array}$	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline \mathbb{Z}_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ 04\\ 07\\ 02\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c c} \overline{4_{\frac{100}{4}\frac{1}{4}}^{100}} \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 4^{100} \\ \hline 0 \\ 0 \\$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{110}} \\ 0 \\ 1 \\ \hline \\ Classifica \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ \end{array}$		$\frac{3}{M}$	$     \begin{array}{c}       X_{BS} = \\       0 \\       0 \\       0 \\       0 \\       0 \\       1 \\       0 \\       1 \\       0 \\       0     \end{array} $	$\begin{array}{c} = \mathbb{Z}_{4,8} \\ \hline Cm_0^1 \\ \hline 20, 20, \\ 880 \\ \hline 884 \\ 440 \\ \hline 110 \\ 220 \\ \hline 330 \\ 440 \\ \hline 550 \\ \hline 660 \\ \end{array}$	$ \begin{array}{r} SI = \\ 00 \\ 4) \\ 4, \overline{4} \\ 0 \\ 4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} z_{4m,\pi}^+, z\\ Cm_{(2)}^{011}\\ \overline{24,24}\\ 8\overline{8}\\ \overline{66}\\ \overline{22}\\ 1\overline{1}\\ \underline{22}\\ 3\overline{3}\\ 4\overline{4}\\ 5\overline{5}\\ \overline{66}\\ \end{array}$	· · · · · · · · · · · · · · · · · · ·
$ \begin{array}{c c} 0\\ \hline 1\\ \hline  & \\  & \\  & \\  & \\  & \\  & \\  & \\  $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c c} \overline{4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{100}} \\ \hline 4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{100} \\ \hline 0 \\ \hline 4_{\frac{100}{4}}^{100} \\ \hline 0 \\ \hline $	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{110}} \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$		<del>3</del> <del>3</del> <del>4</del>	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$	$ \begin{array}{c} = \mathbb{Z}_{4,8} \\ \hline Cm_0^1 \\ \hline 20, 20, \\ 880 \\ \hline 884 \\ \hline 440 \\ 220 \\ 330 \\ 440 \\ \hline 550 \\ \hline 660 \\ 770 \\ \hline \end{array} $	SI = 0000 + 100000000000000000000000000000	$\begin{array}{c} z_{4m,\pi}^+,z\\ Cm_{(2)}^{011}\\ \overline{24,24}\\ \underline{88}\\ \overline{66}\\ \overline{22}\\ \underline{11}\\ \underline{22}\\ \underline{33}\\ \underline{44}\\ \underline{55}\\ \underline{66}\\ 7\overline{7}\\ \end{array}$	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline  & \\ 00\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ 04\\ 07\\ 02\\ 05\\ 10\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c c} \overline{4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{100}} \\ \hline 4_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{100} \\ \hline 0 \\ \hline 4_{\frac{100}{4}}^{100} \\ \hline 0 \\ \hline $	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{110}} \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$		3 3 4	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$	$ \begin{array}{c} = \mathbb{Z}_{4,8} \\ \hline Cm_0^1 \\ \hline 20, 20, \\ 880 \\ \hline 884 \\ \hline 440 \\ \hline 110 \\ \hline 220 \\ \hline 330 \\ \hline 440 \\ \hline 550 \\ \hline 660 \\ \hline 770 \\ \hline 551 \\ \hline \end{array} $	SI =	$\begin{array}{c} z_{4m,\pi}^+,z\\ Cm_{(2)}^{011}\\ \overline{24,24}\\ 8\overline{8}\\ \overline{66}\\ \overline{22}\\ 1\overline{1}\\ \overline{22}\\ \overline{33}\\ \overline{44}\\ \overline{55}\\ \overline{66}\\ \overline{77}\\ \overline{66}\\ \end{array}$	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline 2_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ 04\\ 07\\ 02\\ 05\\ 10\\ 13\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{110}} \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$		3 3 4	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$	$ \begin{array}{c}                                     $	SI =  000 44 44 40 0 44 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} z^+_{4m,\pi}, z\\ Cm^{011}_{(2)}\\ \hline 24, 24\\ \hline 88\\ \hline 66\\ \hline 22\\ \hline 1\overline{1}\\ \hline 2\overline{2}\\ \hline 3\overline{3}\\ \hline 4\overline{4}\\ \hline 5\overline{5}\\ \hline 66\\ \hline 7\overline{7}\\ \hline \overline{6}6\\ \hline \overline{5}5\\ \end{array}$	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline 2_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ 04\\ 07\\ 02\\ 05\\ 10\\ 13\\ 16\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{110}} \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$		4	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$	$\begin{array}{c} \overline{} = \mathbb{Z}_{4,8} \\ \underline{} Cm_0^1 \\ \overline{} \overline{}$	$ \frac{SI = 0000}{44, 4, 4} $ $ 00 $ $ 00 $ $ 00 $ $ 00 $ $ 0 $ $ 0 $ $ 1 $ $ 1 $	$\begin{array}{c} z_{4m,\pi}^+, z\\ Cm_{(2)}^{011}\\ \hline 24, 24\\ \hline 88\\ \hline 66\\ \hline 22\\ \hline 11\\ \hline 22\\ \hline \hline 33\\ \hline 44\\ \hline 5\overline{5}\\ \hline 66\\ \hline 7\overline{7}\\ \hline \hline 66\\ \hline \overline{5}5\\ \hline \overline{4}4\\ \end{array}$	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline Z_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ 04\\ 07\\ 02\\ 05\\ 10\\ 13\\ 16\\ 11\\ 11 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{4}\frac{1}{4}} \\ 0 \\ 1 \\ \\ Classifica \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0$		<del>3</del> <del>3</del> <del>4</del>	$X_{BS} = \frac{1000}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$	$\begin{array}{c} = \mathbb{Z}_{4,8} \\ Cm_0^1 \\ \hline 20, 20, \\ 880 \\ \hline 884 \\ \hline 440 \\ 110 \\ 220 \\ \hline 330 \\ \hline 440 \\ \hline 550 \\ \hline 660 \\ \hline 770 \\ \hline 551 \\ \hline 441 \\ \hline 331 \\ \hline 221 \\ \end{array}$	$ \frac{SI = 000}{44} $ $ \frac{4}{4}, \frac{4}{4} $ $ 00 $ $ 00 $ $ 00 $ $ 00 $ $ 0 $ $ 0 $ $ 1 $ $ 1 $ $ 1 $	$\begin{array}{c} z_{4m,\pi}^+,z\\ Cm_{(2)}^{011}\\ \hline 24,24\\ \hline 88\\ \hline 66\\ \hline 22\\ \hline 1\overline{1}\\ \hline 2\overline{2}\\ \hline 3\overline{3}\\ \hline 4\overline{4}\\ \hline 5\overline{5}\\ \hline 66\\ \hline 7\overline{7}\\ \hline 66\\ \hline 55\\ \hline 44\\ \hline 33\\ \end{array}$	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline 2_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ 04\\ 07\\ 02\\ 05\\ 10\\ 13\\ 16\\ 11\\ 14\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{4}\frac{1}{4}} \\ 0 \\ 1 \\ \\ \text{Classifica} \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$ \begin{array}{c} \text{tion} &= \mathbb{Z} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	<del>3</del> <del>3</del> <del>4</del> <del>4</del>	$X_{BS} = \frac{1000}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$ $0$	$\begin{array}{c} = \mathbb{Z}_{4,8} \\ Cm_0^1 \\ \hline 20, 20, \\ \hline 880 \\ \hline 884 \\ \hline 440 \\ \hline 110 \\ \hline 220 \\ \hline 330 \\ \hline 440 \\ \hline 550 \\ \hline 660 \\ \hline 770 \\ \hline 551 \\ \hline 441 \\ \hline 331 \\ \hline 221 \\ \hline 111 \\ \end{array}$	$ \frac{SI = 000}{000} $ $ \frac{4}{4}, \overline{4} $ $ 0$ $ 0$ $ 0$ $ 0$ $ 0$ $ 0$ $ 0$	$\begin{array}{c} z_{4m,\pi}^+,z\\ Cm_{(2)}^{011}\\ \hline 24,24\\ \hline 88\\ \hline 66\\ \hline 22\\ \hline 11\\ \hline 2\overline{2}\\ \hline 3\overline{3}\\ \hline 4\overline{4}\\ \hline 5\overline{5}\\ \hline 6\overline{6}\\ \hline 7\overline{7}\\ \hline 6\overline{6}\\ \hline 5\overline{5}\\ \hline 44\\ \hline 3\overline{3}\\ \hline 2\overline{2}\\ \end{array}$	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline Z_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ 04\\ 07\\ 02\\ 05\\ 10\\ 13\\ 16\\ 11\\ 14\\ 17\\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$g_{rac{1}{4}}^{rac{110}{4}rac{1}{4}rac{1}{4}} = 0$ 1 Classifica $i$ 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1		<del>3</del> <del>3</del> <del>4</del> <del>4</del>	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$	$\begin{array}{c} \overline{} \\ \overline{} \\$	$ \frac{SI = 000}{44} \frac{4\sqrt{4}}{4\sqrt{4}} 0 \frac{4\sqrt{4}}{4\sqrt{4}} 0 0 0 0 0 0 0 0 1 1 1 1 1$	$\begin{array}{c} z_{4m,\pi}^+, z\\ Cm_{(2)}^{011}\\ \overline{24,24}\\ 88\\ \overline{66}\\ \overline{22}\\ 1\overline{1}\\ 2\overline{2}\\ 3\overline{3}\\ 4\overline{4}\\ \overline{55}\\ \overline{66}\\ 7\overline{7}\\ \overline{66}\\ \overline{55}\\ \overline{44}\\ \overline{33}\\ \overline{22}\\ \overline{11}\\ \end{array}$	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline Z_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ 04\\ 07\\ 02\\ 05\\ 10\\ 13\\ 16\\ 11\\ 14\\ 17\\ 12\\ \end{array} $	(000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{110}} \\ 0 \\ 1 \\ \\ Classifica \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$     \begin{array}{c}         \text{tion} &= \mathbb{Z} \\         2^{110} \\         0 \\         0 \\         0 \\         $	$\frac{3}{4}$	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$	$\begin{array}{c} \overline{\cdot} \; \mathbb{Z}_{4,8} \\ \hline Cm_0^1 \\ \hline \overline{20}, 20, \\ 880 \\ \hline 884 \\ 440 \\ \hline 110 \\ 220 \\ \hline 330 \\ 4\overline{40} \\ \hline 550 \\ \hline 770 \\ \hline 551 \\ \hline 441 \\ \hline 331 \\ \hline 221 \\ \hline 111 \\ \hline 001 \\ \hline 1\overline{1}1 \\ \end{array}$		$\begin{array}{c} z_{4m,\pi}^+, z\\ Cm_{(2)}^{011}\\ \overline{24,24}\\ \underline{88}\\ \overline{66}\\ \overline{22}\\ \underline{11}\\ \underline{22}\\ \underline{33}\\ \underline{44}\\ \underline{55}\\ \overline{66}\\ \overline{77}\\ \overline{66}\\ \underline{55}\\ \underline{44}\\ \underline{33}\\ \underline{22}\\ \overline{11}\\ \underline{00}\\ \end{array}$	· · · · · · · · · · · · · · · · · · ·
$ \begin{array}{c c} 0\\ \hline 1\\ \hline Z_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ 04\\ 07\\ 02\\ 05\\ 10\\ 13\\ 16\\ 11\\ 14\\ 17\\ 12\\ 15\\ \end{array} $	(000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{10}} \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0$	$ \begin{array}{c} \text{tion} &= \mathbb{Z} \\ 2^{110} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\frac{3}{4}$	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$	$\begin{array}{c} \overline{\cdot} \; \mathbb{Z}_{4,8} \\ \hline Cm_0^1 \\ \hline 20, 20, \\ 880 \\ \hline 884 \\ 440 \\ \hline 110 \\ 2\overline{2}0 \\ 3\overline{3}0 \\ 4\overline{4}0 \\ \hline 550 \\ \hline 770 \\ \hline 551 \\ 441 \\ \hline 331 \\ \hline 221 \\ \hline 111 \\ 001 \\ \hline 1\overline{1}1 \\ \hline 2\overline{2}1 \\ \end{array}$		$\begin{array}{c} z_{4m,\pi}^+, z\\ Cm_{(2)}^{011}\\ \overline{24,24}\\ \underline{88}\\ \overline{66}\\ \overline{22}\\ \underline{11}\\ \underline{22}\\ \underline{33}\\ \underline{44}\\ \underline{55}\\ \overline{66}\\ \underline{77}\\ \overline{66}\\ \underline{55}\\ \underline{44}\\ \underline{33}\\ \underline{22}\\ \overline{11}\\ \underline{00}\\ \underline{11}\\ \end{array}$	· · · · · · · · · · · · · · · · · · ·
$ \begin{array}{c c} 0\\ \hline 1\\ \hline \mathbb{Z}_{4,8}\\ 00\\ 00\\ 00\\ 00\\ 03\\ 06\\ 01\\ 04\\ 07\\ 02\\ 05\\ 10\\ 13\\ 16\\ 11\\ 14\\ 17\\ 12\\ 15\\ 20\\ \end{array} $	(000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{110}} \\ 0 \\ 1 \\ \\ Classifica \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$     \begin{array}{c}         \text{tion} &= \mathbb{Z} \\         2^{110} \\         0 \\         0 \\         0 \\         $	$\frac{3}{4}$	$X_{BS} = \frac{100}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$	$\begin{array}{c} \overline{}  \overline{} $	$\begin{array}{c} SI = \\ 000 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} z_{4m,\pi}^+, z\\ Cm_{(2)}^{011}\\ \overline{24,24}\\ 8\overline{8}\\ \overline{66}\\ \overline{22}\\ 1\overline{1}\\ 2\overline{2}\\ 3\overline{3}\\ 4\overline{4}\\ 5\overline{5}\\ \overline{66}\\ 7\overline{7}\\ \overline{66}\\ \overline{55}\\ \overline{44}\\ \overline{33}\\ \overline{22}\\ \overline{11}\\ 00\\ 1\overline{1}\\ \overline{12,12}\\ \end{array}$	· · · · · · · · · · · · · · · · · · ·
$ \begin{array}{c c} 0\\ \hline 1\\ \hline  & \\  & \\  & \\  & \\  & \\  & \\  & \\  $	(000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}1}^{\frac{110}{4}\frac{1}{4}\frac{1}{4}} \\ 0 \\ 1 \\ \\ \text{Classifica} \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0$	$     \begin{array}{c}                                     $	$\frac{3}{4}$	$X_{BS} = \frac{1000}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$	$\begin{array}{c} \overline{}  \overline{} $		$\begin{array}{c} z_{4m,\pi}^+, z\\ Cm_{(2)}^{011}\\ \overline{24,24}\\ 8\overline{8}\\ \overline{66}\\ \overline{22}\\ \overline{11}\\ \underline{22}\\ \overline{33}\\ \overline{44}\\ \overline{55}\\ \overline{66}\\ \overline{77}\\ \overline{66}\\ \overline{55}\\ \overline{44}\\ \overline{33}\\ \overline{22}\\ \overline{11}\\ 00\\ \underline{11}\\ \overline{12,12}\\ \overline{11,11}\\ \end{array}$	8
$ \begin{array}{c c} 0\\ \hline 1\\ \hline  & \\  & \\  & \\  & \\  & \\  & \\  & \\  $	(000) (000)	3 <sup>111</sup> 0 0 221.92 P 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} g_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}^{\frac{1}{4}\frac{1}{4}} \\ 0 \\ 1 \\ \\ Classifica \\ i \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$     \begin{array}{c}         \text{tion} &= \mathbb{Z} \\         2^{110} \\         0 \\         0 \\         0 \\         $	$\frac{3}{4}$	$X_{BS} = \frac{1000}{0}$ $0$ $0$ $0$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $1$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c} \overline{}  \overline{} $		$\begin{array}{c} z_{4m,\pi}^+, z\\ Cm_{(2)}^{011}\\ \overline{24,24}\\ 8\overline{8}\\ \overline{66}\\ \overline{22}\\ 1\overline{1}\\ 2\overline{2}\\ 3\overline{3}\\ 4\overline{4}\\ 5\overline{5}\\ \overline{66}\\ 7\overline{7}\\ \overline{66}\\ \overline{55}\\ \overline{44}\\ \overline{33}\\ \overline{22}\\ \overline{11}\\ 00\\ 1\overline{1}\\ \overline{12,12}\\ \end{array}$	8

	(000)	0	0	0	0	0	$\overline{6}62\overline{2}$	88		—
$\frac{24}{27}$	(000)	0	0	1	0	1	$\frac{\overline{5522}}{\overline{5}}$	$\frac{33}{77}$		
$\frac{21}{22}$	(000)	0	0	0	0	0	$\frac{\overline{4422}}{\overline{4}}$	$\frac{66}{6}$		
25	(000)	0	0	1	0	1	$\frac{\overline{3322}}{\overline{3}}$	$\frac{55}{5}$		
30	(000)	0	0	0	0	0	$\overline{15}, 15, 3, \overline{3}$	18, 18		
33	(000)	0	0	1	0	1	$\overline{14}, 14, 3, \overline{3}$	17, 17		
36	(000)	0	0	0	0	0	$\overline{13}, 13, 3, \overline{3}$	16, 16		
31	(000)	0	0	1	0	1	$\overline{12}$ , 12, 3, $\overline{3}$	$\overline{15}, 15$		
34	(000)	0	0	0	0	0	$\overline{11}, 11, 3, \overline{3}$	$\overline{14}, 14$		
37	(000)	0	0	1	0	1	$\overline{10}, 10, 3, \overline{3}$	$\overline{13}, 13$		
32	(000)	0	0	0	0	0	$\overline{9}93\overline{3}$	$\overline{12}, 12$		
35	(000)	0	0	1	0	1	$\overline{8}83\overline{3}$	$\overline{11}, 11$		
		221.94	$Pm'\bar{3}'m$	Classi	fication =	$\mathbb{Z}_M$ X <sub>I</sub>	$_{\mathrm{BS}}=\mathbb{Z}_{2}$ SI	$= z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$3^{111}$	$4^{100}*$	i*	$2^{110}*$	$\bar{4}^{100}$	$Cm_{(0)}^{011}$			
0	(000)	0	0	0	0	0	$2\overline{2}$			
0	(000)	0	0	0	0	0	$2\overline{2}$			
1	(000)	0	1	0	1	1	$1\overline{1}$			
		221.95 Pr	$m\bar{3}m'$ Cl	assifica	tion = $\mathbb{Z}_M^2$	X <sub>BS</sub> =	$=\mathbb{Z}_{2,4}$ $SI=$	$z'_{2P,1}, z'_{4}$	P	
$\mathbb{Z}_{2,4}$	weak	3 <sup>111</sup>	$4^{100}*$	i	2110*	$\bar{4}^{100}*$	$m_{101}*$	$Cm_{(2)}^{100}$		
00	(000)	0	0	0	0	0	0	$\overline{2}22\overline{2}$		
00	(000)	0	0	0	0	0	0	$4\overline{4}00$		
00	(000)	0	0	0	0	0	0	$\overline{2}2\overline{2}2$		
03	(000)	0	1	1	1	0	0	$1\overline{1}00$		
02	(000)	0	0	0	0	0	0	$2\overline{2}00$		
01	(000)	0	1	1	1	0	0	3300		
10	(000)	0	0	0	0	0	0	<u>1111</u>		
13	(000)	0	1	1	1	0	0	$001\overline{1}$		
12	(000)	0	0	0	0	0	0	$1\overline{1}1\overline{1}$		
- 11	(000)	^	-	- 1	-1	0		0011		
11	(000)	0	1	1	1	0	0	$2\overline{2}1\overline{1}$		_
		221.97	$P_I m \bar{3} m$	Class	sification =	$\mathbb{Z}_M^2$ X	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_8  \mathrm{SI}$	$=z_8$	~ 001	<u> </u>
$\mathbb{Z}_8$	weak	$221.97 \\ \{1 \frac{1}{2},\frac{1}{2},\frac{1}{2}\}*$	$\frac{P_I m \bar{3} m}{3^{111}}$	Class 4 <sup>100</sup>	$\frac{\text{sification}}{i} = \frac{1}{i}$	$\mathbb{Z}_{M}^{2}$ $\mathbb{X}_{110}$	$X_{\rm BS} = \mathbb{Z}_8$ Sl $\overline{4}^{100}$	$Cm_{\underline{(2)}}^{011}$	$Cm_{(4)}^{001}$	<u> </u>
$\frac{\mathbb{Z}_8}{0}$	weak (000)	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \end{array} $	$ \begin{array}{c} P_I m \bar{3} m \\ 3^{111} \\ 0 \end{array} $	Class $4^{100}$	$ \frac{i}{0} $	$ \begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \hline 2^{110} & \\ 0 \end{array} $	$X_{\rm BS} = \mathbb{Z}_8$ Si $\overline{4}^{100}$ 0	$ \begin{array}{c}                                     $	8800	
$ \begin{array}{c c} \hline \mathbb{Z}_8 \\ \hline 0 \\ \hline 0 \end{array} $	weak   (000)   (000)	$ \begin{array}{c} 221.97 \\ \{1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} P_I m \overline{3} m \\ 3^{111} \\ 0 \\ 0 \end{array} $	Class 4 <sup>100</sup> 0 0	$ \begin{array}{c} \text{sification} = \\ i \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} \mathbb{Z}_M^2 & X \\ \mathbb{Z}^{110} \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} \mathbf{Z}_{\mathrm{BS}} = \mathbb{Z}_8 & \mathrm{SI} \\ \hline 4^{100} & \\ 0 & \\ 0 \end{array} $	$ \begin{array}{c}                                     $	$\frac{8\overline{8}00}{\overline{4}400}$	
$ \begin{array}{c c} \hline \mathbb{Z}_8 \\ \hline 0 \\ \hline 0 \\ \hline 0 \end{array} $	weak (000) (000) (000)	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} P_{I}m\bar{3}m \\ 3^{111} \\ 0 \\ 0 \\ 0 \end{array} $	Class 4 <sup>100</sup> 0 0 0	$ \begin{array}{c} sification = \\ i \\ 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}^{110} \\ \hline 0 \\ 0 \\ 0 \end{array} $	$ \begin{array}{c} \mathbf{K}_{\mathrm{BS}} = \mathbb{Z}_8 & \mathrm{SI} \\ \overline{4}^{100} & 0 \\ 0 & 0 \end{array} $	$ \begin{array}{c} I = z_8 \\ Cm_{(2)}^{011} \\ \hline 88 \\ \hline 22 \\ \hline 66 \end{array} $		
$ \begin{array}{c c} \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \end{array} $	weak   (000)   (000)   (000)   (000)	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \end{array} $	$ \begin{array}{c} P_{I}m\bar{3}m\\ 3^{111}\\ 0\\ 0\\ 0\\ 0\\ \end{array} $	Class 4 <sup>100</sup> 0 0 0 0	sification =	$ \begin{array}{c c} \mathbb{Z}_{M}^{2} & X \\ \mathbb{Z}^{110} & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	$ \begin{array}{c c} \overline{L}_{BS} = \overline{Z}_8 & \overline{SI} \\ \hline 4^{100} & 0 \\ 0 & 0 \\ \hline 0 & 1 \end{array} $	$ \begin{array}{c} I = z_8 \\ \hline Cm_{(2)}^{011} \\ \hline 88 \\ \hline \overline{2}2 \\ \hline \overline{6}6 \\ \hline 1\overline{1} \end{array} $	$   \begin{array}{r}     8800 \\     \hline     4400 \\     \hline     4400 \\     \hline     1\overline{1}00   \end{array} $	
$ \begin{array}{c c} \hline \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 3 \\ 6 \end{array} $	weak   (000)   (000)   (000)   (000)	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} P_{I}m\bar{3}m \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	Class 4 <sup>100</sup> 0 0 0 0 0	sification =	$\begin{array}{c c} \mathbb{Z}_{M}^{2} & X \\ \mathbb{Z}^{110} & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ \end{array}$		$ \begin{array}{c} I = z_8 \\ \hline Cm_{(2)}^{011} \\ 88 \\ \hline 22 \\ \hline 66 \\ 1\overline{1} \\ 2\overline{2} \end{array} $	$   \begin{array}{r}     8800 \\     \hline     4400 \\     \hline     4400 \\     \hline     1100 \\     \hline     2200 \\   \end{array} $	
$ \begin{array}{c c} \hline \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 3 \\ \hline 6 \\ 1 \end{array} $	weak   (000)	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} P_{I}m\overline{3}m \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0	sification =	$\begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}^{110} & \\ \hline 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ \end{array}$		$ \begin{array}{c}                                     $	8800 4400 4400 1100 2200 3300	
	weak	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} P_{I}m\overline{3}m \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0	sification =	$\begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}^{110} & \\ \hline 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ \end{array}$		$ \begin{array}{c}                                     $	$ \begin{array}{r} 8800 \\ \hline 4400 \\ \hline 4400 \\ \hline 1100 \\ 2200 \\ 3300 \\ 4400 \\ \end{array} $	
$ \begin{array}{c c}  \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} P_{I}m\overline{3}m \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 0 0	sification =	$\begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}^{110} & \\ \hline 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ \end{array}$		$ \begin{array}{c}                                     $	$ \begin{array}{r} 8800 \\ \hline 4400 \\ \hline 4400 \\ \hline 1100 \\ 2200 \\ 3300 \\ 4400 \\ 5500 \\ \end{array} $	
	weak	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} P_{I}m\overline{3}m \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0	sification =	$\begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}^{110} & \\ \hline 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ \end{array}$		$ \begin{array}{c c}                                    $	8800       4400       4400       1100       2200       3300       4400       5500       6600	
$ \begin{array}{c c} \hline \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ \hline 3 \\ 6 \\ 1 \\ 4 \\ \hline 7 \\ 2 \end{array} $	weak	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} P_{I}m\overline{3}m \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	sification =	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		$ \begin{array}{c c}                                    $	$ \begin{array}{r} 8800 \\ \hline 4400 \\ \hline 4400 \\ \hline 1100 \\ 2200 \\ 3300 \\ 4400 \\ 5500 \\ \end{array} $	
Z <sub>8</sub> 0 0 0 3 6 1 4 7 2 5	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 222.98 \end{array} $	$\begin{array}{c} P_{I}m\overline{3}m \\ 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 Classi	sification =	$ \begin{array}{c c} \hline \mathbb{Z}_{M}^{2} & X \\ \hline 2^{110} & 0 \\ \hline 0 & 0 \\ \hline Z_{2} & X_{BS} \end{array} $		$ \begin{array}{c c}                                    $	8800       4400       4400       1100       2200       3300       4400       5500       6600	
	weak	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 222.98\\ 3^{111} \end{array} $	$\begin{array}{c} P_{I}m\bar{3}m \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 Classi i	sification = $\frac{i}{0}$ 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}^{110} & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ 0 & \\ \hline{2}_{2} & \mathbb{X}_{BS} \\ \overline{4}_{100}^{100} & \\ 0 & \\ \hline{2}_{10} & \\ \hline{4}_{10}^{100} & \\ \hline{2}_{10} & \\ \hline{4}_{10}^{100} & \\ \hline{2}_{10} & \\ $	$\begin{array}{c} \mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_{8} & \mathrm{SI} \\ \overline{4}^{100} & \\ 0 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & $	$ \begin{array}{c c}                                    $	8800       4400       4400       1100       2200       3300       4400       5500       6600	
$ \begin{array}{c c}  \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \\ \mathbb{Z}_2 \\ 0 \end{array} $	weak	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 222.98 \\ 3^{111}\\ 0\\ \end{array} $	$\begin{array}{c} P_{I}m\overline{3}m \\ \hline P_{I}m\overline{3}m \\ \hline 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 Classi i 0	sification = $\frac{i}{0}$ 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	$ \begin{array}{c c} \hline \mathbb{Z}_{M}^{2} & X \\ \hline 2^{110} & 0 \\ \hline 0 & 0 \\ \hline Z_{2} & X_{BS} \end{array} $		$ \begin{array}{c c}                                    $	8800       4400       4400       1100       2200       3300       4400       5500       6600	
	weak	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 222.98 \\ 3^{111}\\ 0\\ 0\\ 0 \end{array} $	$\begin{array}{c} P_{I}m\overline{3}m \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 0 Classi i 0 1	sification = $\frac{i}{0}$ 0 0 1 0 1 0 1 0 1 0 1 0 2 1 0 0 0 0 0 0	$\begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}^{110} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \mathbb{Z}_{2} & \mathbb{X}_{BS} \\ \overline{4}_{0\frac{1}{2}0}^{100} & 0 \\ 1 & 0 \\ \end{array}$	$\begin{array}{c} T_{\rm BS} = \mathbb{Z}_8 & {\rm SI} \\ \hline 4^{100} & 0 \\ \hline 0 & 0 \\ \hline 0 & 1 \\ \hline 1 & 0 \\ \hline 0 & 1 \\ \hline 1 & 0 \\ \hline 1 $	$ \begin{array}{c}                                     $	8800       4400       4400       1100       2200       3300       4400       5500       6600	
$ \begin{array}{c c} \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	weak	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 222.98 \\ 3^{111} \\ 0 \\ 0 \\ 222.100 $	$\begin{array}{c} P_{I}m\overline{3}m \\ \hline P_{I}m\overline{3}m \\ \hline 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 Classi i Class	sification = $ \begin{array}{c} i \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}^{110} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \mathbb{Z}_{2} & \mathbb{X}_{BS} \\ \mathbb{Z}_{100} & 0 \\ 0 & 0 \\ \mathbb{Z}_{2} & \mathbb{X}_{BS} \\ \mathbb{Z}_{2} & \mathbb{X}_{BS} \\ \mathbb{Z}_{2} & \mathbb{X}_{BS} \\ \mathbb{Z}_{2} & \mathbb{X}_{BS} \\ \mathbb{Z}_{3} & \mathbb{X}_{BS} \\ \mathbb{Z}_{4} & \mathbb{Z}_{2} & \mathbb{Z}_{3} \\ \mathbb{Z}_{4} & \mathbb{Z}_{3} & \mathbb{Z}_{3} \\ \mathbb{Z}_{4} & \mathbb{Z}_{4} & \mathbb{Z}_{4} \\ \mathbb{Z}_{5} & \mathbb{Z}_{5} & \mathbb{Z}_{5} \\ \mathbb{Z}_{5} & \mathbb{Z}_{5} \\ \mathbb{Z}_{5} & \mathbb{Z}_{5} & \mathbb{Z}_{5} \\ \mathbb{Z}_{5} \\ \mathbb{Z}_{5} & \mathbb{Z}_{5} \\ $	$\begin{array}{c} T_{\rm BS} = \mathbb{Z}_8 & {\rm SI} \\ \hline 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 1 \\ 0 \\ \hline 1 \\ 0 \\ 1 \\ 0 \\ \hline 1 \\ 0 \\ 5 = \mathbb{Z}_2 & {\rm SI} = \\ g_{0\frac{1}{2}0}^{101} \\ 0 \\ 1 \\ \end{array}$	$ \begin{array}{c c}                                    $	8800       4400       4400       1100       2200       3300       4400       5500       6600	
$ \begin{array}{c c}  \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \end{array} $	weak	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 3^{111} \end{array} $	$\begin{array}{c} P_{I}m\overline{3}m \\ \hline P_{I}m\overline{3}m \\ 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 Classi i Class:	$\begin{array}{c} \text{sification} = \\ i\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \text{fication} = \\ 2_{00\frac{1}{2}}^{110}\\ 0\\ 0\\ \text{dification} = \\ 2_{00\frac{1}{2}}^{110} * \\ 0\\ 0\\ \text{dification} = \\ 2_{00\frac{1}{2}}^{110} * \\ 0\\ 0\\ \text{dification} = \\ 0\\ 0\\ 0\\ \text{dification} = \\ 0\\ 0\\ 0\\ 0\\ \text{dification} = \\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0$	$\begin{array}{c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}_{M}^{110} & \mathbb{X} \\ \mathbb{Z}^{110} & \mathbb{Z} \\ \mathbb{Z}_{M}^{110} & \mathbb{Z} \\ \mathbb{Z}_{M}^{2} & \mathbb{Z}_{M}^{100} \\ \mathbb{Z}_{M}^{2} & \mathbb{Z}_{M}^{2} \\ \mathbb{Z}_{M}^{2} \\ \mathbb{Z}_{M}^{2} & \mathbb{Z}_{M}^{2} \\ \mathbb{Z}_{M}^{2} \\$	$\begin{array}{c} z_{\rm BS} = \mathbb{Z}_8 & {\rm SI} \\ \hline 4^{100} & \\ & \\ 0 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ $	$ \begin{array}{c}                                     $	8800       4400       4400       1100       2200       3300       4400       5500       6600	
$ \begin{array}{c c} \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \end{array} $	weak	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 222.98 \\ 3^{111} \\ 0 \\ 0 \\ 222.100 \\ 3^{111} \\ 0 $	$\begin{array}{c} P_{I}m\overline{3}m \\ \hline P_{I}m\overline{3}m \\ 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 Classi i Class i* 0	$\begin{array}{c} \text{sification} = \\ i\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}_{M}^{110} & \mathbb{X} \\ \mathbb{Z}^{110} & \mathbb{Z} \\ \mathbb{Z}_{M}^{110} & \mathbb{Z}_{M}^{110} & \mathbb{Z}_{M}^{1100} \\ \mathbb{Z}_{2} & \mathbb{X}_{BS} \\ \mathbb{Z}_{0\frac{1}{2}0} & \mathbb{Z}_{0\frac{1}{2}0} \\ \mathbb{Z}_{2} & \mathbb{X}_{BS} \\ \mathbb{Z}_{0\frac{1}{2}0} & \mathbb{Z}_{0\frac{1}{2}0} \\ \mathbb{Z}_{0} & \mathbb{Z}_{0} \\ \mathbb{Z}_{0} & \mathbb{Z}_{0} \\ \mathbb{Z}_{0} & \mathbb{Z}_{0} \\ \mathbb{Z}_{0} & \mathbb{Z}_{0} \\ $	$\begin{array}{c} z_{\rm BS} = \mathbb{Z}_8 & {\rm SI} \\ \hline 4^{100} & \\ & \\ 0 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ S = \mathbb{Z}_2 & {\rm SI} = \\ g_{0\frac{1}{2}0}^{101} & \\ 0 & \\ 1 & \\ S = \mathbb{Z}_2 & {\rm SI} = \\ g_{0\frac{1}{2}0}^{101} & \\ 0 & \\ $	$ \begin{array}{c}                                     $	8800       4400       4400       1100       2200       3300       4400       5500       6600	
	weak	$\begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	$\begin{array}{c} P_I m \overline{3} m \\ \hline P_I m \overline{3} m \\ \hline 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 0 Classi i Class: i* 0 0	$\begin{array}{c} \text{sification} = \\ i\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \text{fication} = \\ \frac{2_{00\frac{1}{2}}^{110}}{0}\\ 0\\ 0\\ \text{ification} = \\ \frac{2_{00\frac{1}{2}}^{110}}{0}\\ 0\\ 1\\ 1\\ \end{array}$	$\begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}^{110} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \mathbb{Z}_{2} & \mathbb{X}_{BS} \\ \overline{4}_{0\frac{1}{2}0}^{100} & 0 \\ 1 & \mathbb{Z}_{2} & \mathbb{X}_{B} \\ \hline \mathbf{Z}_{100} & 0 \\ 0 & 0 \\ 1 & \mathbb{Z}_{2} & \mathbb{X}_{B} \\ \end{array}$	$\begin{array}{c} I_{\rm BS} = \mathbb{Z}_8 & {\rm SI} \\ \hline 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 1 \\ 0 \\ \hline 1 \\ S = \mathbb{Z}_2 & {\rm SI} = \\ \hline g_{0\frac{1}{2}0}^{101} \\ 0 \\ \hline 1 \\ S = \mathbb{Z}_2 & {\rm SI} = \\ \hline 0 \\ 1 \\ 1 \\ \hline 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	$ \begin{array}{r} I = z_8 \\ Cm_{(2)}^{011} \\ 88 \\ \hline 22 \\ \hline 66 \\ 11 \\ 22 \\ \hline 33 \\ 44 \\ \hline 55 \\ 66 \\ 77 \\ = z'_{2P} \end{array} $	8800       4400       4400       1100       2200       3300       4400       5500       6600	
	weak	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 222.98 \\ 3^{111} \\ 0 \\ 0 \\ 222.100 \\ 3^{111} \\ 0 \\ 0 \\ 222.100 $	$\begin{array}{c} P_{I}m\overline{3}m \\ \hline P_{I}m\overline{3}m \\ 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 0 Classi i* 0 Class i* 0 Class	$\begin{array}{c} \text{sification} = \\ i\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \text{fication} = \\ 2_{00\frac{1}{2}}^{110}\\ 0\\ 0\\ \text{dification} = \\ 2_{00\frac{1}{2}}^{110} * \\ 0\\ \text{dification} = \\ 1\\ \text{diffication} = \\ 1\\ $	$\begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}^{110} & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \hline 0 & 0 \\ \hline 2_{2} & \mathbb{X}_{B8} \\ \hline 4_{0\frac{1}{2}0}^{100} & 0 \\ 1 & \hline \mathbb{Z}_{2} & \mathbb{X}_{B} \\ \hline 0 & 1 & \hline \mathbb{Z}_{2} & \mathbb{X}_{B} \\ \hline \mathbb{Z}_{3} & \mathbb{X}_{4} \\ \hline \mathbb{Z}_{4} & \mathbb{Z}_{5} \\ \hline \mathbb{Z}_{5} & \mathbb{Z}_{5} \\ \hline \mathbb{Z}_{7} & \mathbb{Z}_{8} \\ \hline \mathbb{Z}_{8} & \mathbb{Z}_{8} \\ \hline \mathbb{Z}_{8} & \mathbb{Z}_{8} \\ \hline \mathbb{Z}_{8} & \mathbb{Z}_{8} \\ \hline \mathbb{Z}_{9} & \mathbb{Z}_{9} \\ \hline \mathbb{Z}_{9} \\ \hline \mathbb{Z}_{9} & \mathbb{Z}_{9} \\ \hline \mathbb{Z}_{9} \\ \hline \mathbb{Z}_{9} & \mathbb{Z}_{9} \\ \hline \mathbb{Z}_{9} & \mathbb{Z}_{9} \\ \hline \mathbb{Z}_{9} \\ \hline \mathbb{Z}_{9} & \mathbb{Z}_{9} \\ \hline \mathbb{Z}_{9} \\ \hline \mathbb{Z}_{9} & \mathbb{Z}_{9} \\ \hline \mathbb{Z}_{9} \\ \hline \mathbb{Z}_{9} \\ \hline \mathbb{Z}_{9} \\ \mathbb{Z}_{9} \\ \hline $	$\begin{array}{c} z_{\rm BS} = \mathbb{Z}_8 & {\rm SI} \\ \hline 4^{100} & \\ & \\ 0 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ S = \mathbb{Z}_2 & {\rm SI} = \\ g_{0\frac{1}{2}0}^{101} & \\ 0 & \\ 1 & \\ S = \mathbb{Z}_2 & {\rm SI} = \\ g_{0\frac{1}{2}0}^{101} & \\ 0 & \\ 1 & \\ S = \mathbb{Z}_2 & {\rm SI} = \\ g_{0\frac{1}{2}0}^{101} & \\ 0 & \\ 1 & \\ S = \mathbb{Z}_2 & {\rm SI} = \\ g_{0\frac{1}{2}0}^{101} & \\ 0 & \\ 1 & \\ S = \mathbb{Z}_2 & {\rm SI} = \\ g_{0\frac{1}{2}0}^{101} & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ $	$ \begin{array}{c}                                     $	8800       4400       4400       1100       2200       3300       4400       5500       6600	
	weak	$ \begin{array}{c} 221.97 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 222.98 \\ 3^{111} \\ 0 \\ 0 \\ 222.100 \\ 3^{111} \\ 0 \\ 0 \\ 222.101 \\ 3^{111} \end{array} $	$\begin{array}{c} P_{I}m\overline{3}m \\ \hline P_{I}m\overline{3}m \\ 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 0 Classi i* 0 0 Class i*	$\begin{array}{c} \text{sification} = \\ i\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \text{fication} = \\ 2^{110}_{00\frac{1}{2}}\\ 0\\ 0\\ \text{dification} = \\ 2^{110}_{00\frac{1}{2}}*\\ 0\\ 1\\ \text{dification} = \\ 2^{110}_{00\frac{1}{2}}*\\ 0\\ 1\\ \text{dification} = \\ 2^{110}_{00\frac{1}{2}}*\\ 0\\ 1\\ \text{dification} = \\ 2^{110}_{00\frac{1}{2}}*\\ 0\\ 0\\ 1\\ \text{dification} = \\ 2^{110}_{00\frac{1}{2}}*\\ 0\\ 0\\ 1\\ \text{dification} = \\ 2^{110}_{00\frac{1}{2}}*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} \mathbb{Z}_{2M}^{2} & \mathbb{X} \\ \mathbb{Z}_{M}^{110} & \mathbb{X} \\ \mathbb{Z}^{110} & \mathbb{Z}_{2M}^{110} & \mathbb{Z}_{2M}^{110} \\ \mathbb{Z}_{2M}^{110} & \mathbb{Z}_{2M}^{1100} & \mathbb{Z}_{2M}^{1100} \\ \mathbb{Z}_{2M}^{1100} & \mathbb{Z}_{2M}^{1100} & \mathbb{Z}_{2M}^{1100} & \mathbb{Z}_{2M}^{1100} \\ \mathbb{Z}_{2M}^{1100} & \mathbb{Z}_{$	$\begin{array}{c} z_{\rm BS} = \mathbb{Z}_8 & {\rm SI} \\ \hline 4^{100} & 0 \\ 0 & 0 \\ 0 & 1 \\ 0 $	$ \begin{array}{r} I = z_8 \\ Cm_{(2)}^{011} \\ 88 \\ \hline 22 \\ \hline 66 \\ 11 \\ 22 \\ \hline 33 \\ 44 \\ \hline 55 \\ 66 \\ 77 \\ = z'_{2P} \end{array} $	8800       4400       4400       1100       2200       3300       4400       5500       6600	
	weak	$\begin{array}{c} 221.97\\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 222.98\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} P_{I}m\overline{3}m\\ \hline P_{I}m\overline{3}m\\ 3^{111}\\ \hline 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 0 Classi i* 0 Class i* 0 Class i 0	$\begin{array}{c} \text{sification} = \\ i\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ \frac{1}{2}\\ 0\\ 0\\ \frac{1}{2}\\ 0\\ 0\\ \frac{1}{2}\\ 0\\ 0\\ \frac{1}{2}\\ 0\\ 0\\ 1\\ \text{ification} = \\ \frac{2^{110}}{2^{00\frac{1}{2}}}*\\ 0\\ 1\\ \text{ification} = \\ \frac{2^{110}}{2^{00\frac{1}{2}}}*\\ 0\\ 0\\ 1\\ \end{array}$	$\begin{array}{c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}_{M}^{110} & \mathbb{X} \\ \mathbb{Z}^{110} & \mathbb{Z} \\ \mathbb{Z}_{M}^{110} & \mathbb{Z}_{M}^{1100} \\ \mathbb{Z}_{2} & \mathbb{X}_{BS} \\ \mathbb{Z}_{0}^{\frac{1}{2}0} & \mathbb{Z}_{0}^{\frac{1}{2}0} \\ \mathbb{Z}_{2} & \mathbb{X}_{B} \\ \mathbb{Z}_{2} & \mathbb{X}_{B} \\ \mathbb{Z}_{1}^{100} & \mathbb{Z}_{2} & \mathbb{Z}_{B} \\ \mathbb{Z}_{2} & \mathbb{Z}_{2} & \mathbb{Z}_{2} \\ \mathbb{Z}_{3}^{100} & \mathbb{Z}_{3}^{100} & \mathbb{Z}_{3}^{100} \\ \mathbb{Z}_{4}^{100} & \mathbb{Z}_{2}^{100} & \mathbb{Z}_{2}^{100} & \mathbb{Z}_{2}^{100} \\ \mathbb{Z}_{3}^{100} & \mathbb{Z}_{3}^{100} & \mathbb{Z}_{3}^{100} & \mathbb{Z}_{3}^{100} \\ \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} \\ \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} \\ \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} \\ \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} \\ \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000} & \mathbb{Z}_{4}^{1000$	$\begin{array}{c} \mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_{8} & \mathrm{SI} \\ \overline{4}^{100} & \\ 0 & \\ 0 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ 0 & \\ 1 & \\ S = \mathbb{Z}_{2} & \mathrm{SI} = \\ g_{0\frac{1}{2}0}^{101} & \\ 0 & \\ 1 & \\ g_{0\frac{1}{2}0}^{101} & \\ 0 & \\ 1 & \\ 0 & \\ 0 & \\ 1 & \\ 0 &$	$ \begin{array}{r} I = z_8 \\ Cm_{(2)}^{011} \\ 88 \\ \hline 22 \\ \hline 66 \\ 11 \\ 22 \\ \hline 33 \\ 44 \\ \hline 55 \\ 66 \\ 77 \\ = z'_{2P} \end{array} $	8800       4400       4400       1100       2200       3300       4400       5500       6600	
	weak	$\begin{array}{c} 221.97\\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 222.98\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} -\frac{1}{P_{I}m\overline{3}m} \\ -\frac{1}{2} \\ -\frac{1}$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 0 Classi i* 0 0 Class i* 0 1 Class i 1	$\begin{array}{c} \text{sification} = \\ i\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \text{fication} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0}\\ 0\\ 0\\ \frac{1}{1000\frac{1}{2}}\\ 0\\ 0\\ 1\\ \text{ification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0}\\ 0\\ 1\\ 1\\ \text{ification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0}\\ 1\\ 1\\ \end{array}$	$\begin{array}{c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}_{M}^{110} & \mathbb{X} \\ \mathbb{Z}^{110} & \mathbb{Z} \\ \mathbb{Z}_{M}^{110} & \mathbb{Z} \\ \mathbb{Z}_{M}^{2} & \mathbb{Z} \\ \mathbb{Z}_{M}^{2} & \mathbb{Z} \\ \mathbb{Z}_{M}^{2} & \mathbb{Z}_{M}^{2} \\ \mathbb{Z}_{M}^{2} \\ \mathbb{Z}_{M}^{2} \\ \mathbb{Z}_{M}^{2} & \mathbb{Z}_{M}^{2} \\ \mathbb{Z}_{M}^{2} \\ $	$\begin{array}{c} \zeta_{\rm BS} = \mathbb{Z}_8 & {\rm SI} \\ \hline 4^{100} & 0 \\ \hline 0 & 0 \\ \hline 0 & 1 \\ \hline 0 $		8800       4400       4400       1100       2200       3300       4400       5500       6600	
	weak	$\begin{array}{c} 221.97\\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} P_{I}m\overline{3}m \\ \hline P_{I}m\overline{3}m \\ 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 0 Classi i* 0 0 Class i* 0 Class i Class i Class	$\begin{array}{c} \text{sification} = \\ i\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \text{fication} = \\ 2_{00\frac{1}{2}}^{110}\\ 0\\ 0\\ 0\\ \text{sification} = \\ 2_{00\frac{1}{2}}^{110}*\\ 0\\ 1\\ \text{sification} = \\ 2_{00\frac{1}{2}}^{110}*\\ 0\\ 1\\ \text{sification} = \\ 1\\ \text{sification} $	$\begin{array}{c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}_{M}^{110} & \mathbb{X} \\ \mathbb{Z}^{110} & \mathbb{Z}_{M}^{110} & \mathbb{Z}_{M}^{110} \\ \mathbb{Z}_{2} & \mathbb{X}_{B} \\ \mathbb{Z}_{2} & \mathbb{X}_{B} \\ \mathbb{Z}_{2} & \mathbb{X}_{B} \\ \mathbb{Z}_{2} & \mathbb{X}_{B} \\ \mathbb{Z}_{3} & \mathbb{Z}_{4} \\ \mathbb{Z}_{2} & \mathbb{Z}_{5} \\ \mathbb{Z}_{4} & \mathbb{Z}_{5} \\ \mathbb{Z}_{5} & \mathbb{Z}_{5} \\ \mathbb{Z}_{7} & \mathbb{Z}_{8} \\ \mathbb{Z}_{7} & \mathbb{Z}_{7} \\ \mathbb{Z}_{7} \\ \mathbb{Z}_{7} & \mathbb{Z}_{7} \\ \mathbb{Z}_{7} \\ \mathbb{Z}_{7} \\$	$\begin{array}{c} \zeta_{\rm BS} = \mathbb{Z}_8 & {\rm SI} \\ \hline 4^{100} & 0 \\ \hline 0 & 0 \\ \hline 0 & 1 \\ \hline 0 $		8800       4400       4400       1100       2200       3300       4400       5500       6600	
$ \begin{array}{c c} \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \end{array} $	weak	$\begin{array}{c} 221.97\\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 222.98\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} -\frac{1}{P_{I}m\overline{3}m} \\ -\frac{1}{2} \\ -\frac{1}$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 0 Classi i* 0 0 Class i* 0 1 Class i 1	$\begin{array}{c} \text{sification} = \\ i\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \text{fication} = \\ 2_{00\frac{1}{2}}^{110}\\ 0\\ 0\\ 0\\ \text{sification} = \\ 2_{00\frac{1}{2}}^{110}*\\ 0\\ 1\\ \text{sification} = \\ 2_{00\frac{1}{2}}^{110}*\\ 0\\ 1\\ \text{sification} = \\ 1\\ \text{sification} $	$\begin{array}{c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}_{M}^{110} & \mathbb{X} \\ \mathbb{Z}^{110} & \mathbb{Z} \\ \mathbb{Z}_{M}^{110} & \mathbb{Z} \\ \mathbb{Z}_{M}^{2} & \mathbb{Z} \\ \mathbb{Z}_{M}^{2} & \mathbb{Z} \\ \mathbb{Z}_{M}^{2} & \mathbb{Z}_{M}^{2} \\ \mathbb{Z}_{M}^{2} \\ \mathbb{Z}_{M}^{2} \\ \mathbb{Z}_{M}^{2} & \mathbb{Z}_{M}^{2} \\ \mathbb{Z}_{M}^{2} \\ $	$\begin{array}{c} \zeta_{\rm BS} = \mathbb{Z}_8 & {\rm SI} \\ \hline 4^{100} & 0 \\ \hline 0 & 0 \\ \hline 0 & 1 \\ \hline 0 $		8800       4400       4400       1100       2200       3300       4400       5500       6600	
	weak	$\begin{array}{c} 221.97\\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 0\\ 222.100\\ 3^{111}\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} P_{I}m\overline{3}m \\ \hline P_{I}m\overline{3}m \\ 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	Class 4 <sup>100</sup> 0 0 0 0 0 0 0 0 0 0 0 Classi i* 0 0 Class i* 0 Class i Class i Class	$\begin{array}{c} \text{sification} = \\ i\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \text{fication} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0}\\ 0\\ 0\\ \frac{1}{1000\frac{1}{2}}\\ 0\\ 0\\ 1\\ \text{ification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0}\\ 0\\ 1\\ 1\\ \text{ification} = \\ \frac{2^{110}_{00\frac{1}{2}}}{0}\\ 1\\ 1\\ \end{array}$	$\begin{array}{c c} \mathbb{Z}_{M}^{2} & \mathbb{X} \\ \mathbb{Z}_{M}^{110} & \mathbb{X} \\ \mathbb{Z}^{110} & \mathbb{Z}_{M}^{110} & \mathbb{Z}_{M}^{110} \\ \mathbb{Z}_{2} & \mathbb{X}_{BS} \\ \mathbb{Z}_{0\frac{1}{2}0}^{100} & \mathbb{Z}_{2} & \mathbb{X}_{BS} \\ \mathbb{Z}_{0\frac{1}{2}0}^{100} & \mathbb{Z}_{2} & \mathbb{X}_{E} \\ \mathbb{Z}_{0\frac{1}{2}0}^{110} & \mathbb{Z}_{2} & \mathbb{X}_{E} \\ \mathbb{Z}_{2}^{110} & \mathbb{Z}_{2} & \mathbb{Z}_{E} \\ \mathbb{Z}_{2}^{110} & \mathbb{Z}_{2} & \mathbb{Z}_{2} \\ \mathbb{Z}_{2}^{110} & \mathbb{Z}_{2} \\ \mathbb{Z}$	$\begin{array}{c} \zeta_{\rm BS} = \mathbb{Z}_8 & {\rm SI} \\ \hline 4^{100} & 0 \\ \hline 0 & 0 \\ \hline 0 & 1 \\ \hline 0 $		8800       4400       4400       1100       2200       3300       4400       5500       6600	

1	(000)	1	0	0	0	0	0	0	
		223.104		Classi	fication =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$	
$\mathbb{Z}_4$	weak	3111	$4^{100}_{\frac{1}{2},\frac{1}{2},\frac{1}{2}}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$\bar{4}^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$g^{101}_{rac{1}{2}rac{1}{2}rac{1}{2}}$	$Cm_{(4)}^{100}$	
0	(000)	0	0	0	0	0	0	$4\overline{4}00$	
0	(000)	0	0	0	0	0	0	0000	
3	(000)	0	0	1	0	1	1	$1\overline{1}00$	
2	(000)	0	0	0	0	0	0	$2\overline{2}00$	
1	(000)	0	0	1	0	1	1	3300	
		223.106	$Pm'\bar{3}'n$	Class	ification =	$\mathbb{Z}_2$ $\Sigma$	$X_{\mathrm{BS}} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	3111	$4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	i*	$2^{110}_{\frac{1}{2},\frac{1}{2},\frac{1}{2}}*$	$\bar{4}^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}$	$g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}$		
0	(000)	0	0	0	0	0	0		
1	(000)	0	1	0	1	1	1		
		223.107		Class	ification =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$	
$\mathbb{Z}_4$	weak	3 <sup>111</sup>	$4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$\bar{4}^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}$ *	$g_{rac{1}{2}rac{1}{2}rac{1}{2}}^{101}*$	$Cm_{(2)}^{100}$	
0	(000)	0	$\frac{222}{0}$	0	0	$\frac{222}{0}$	0	$4\overline{4}00$	
0	(000)	0	0	0	0	0	0	0000	
3	(000)	0	1	1	1	0	0	$1\overline{1}00$	
2	(000)	0	0	0	0	0	0	$2\overline{2}00$	
1	(000)	0	1	1	1	0	0	$3\overline{3}00$	
		223.109		Class	ification =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$	
$\mathbb{Z}_4$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$3^{111}$	$4^{100}*$	i	$2^{110}*$	$\bar{4}^{100}*$	$m_{101}*$	$Cm_{(4)}^{001}$
0	(000)	0	0	0	0	0	0	0	$4\overline{4}00$
0	(000)	0	0	0	0	0	0	0	0000
3	(000)	1	0	1	1	1	0	0	$1\overline{1}00$
2	(000)	0	0	0	0	0	0	0	$2\overline{2}00$
1	(000)	1	0	1	1	1	0	0	$3\overline{3}00$
		224.110	$Pn\bar{3}m$	Classi	fication =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$3^{111}$	$\frac{4^{100}_{\frac{1}{2}0^{\frac{1}{2}}}$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}$	$\bar{4}^{100}_{\frac{1}{2}0\frac{1}{2}}$	$Cm_{(2)}^{011}$		
0	(000)	0	0	0	0	0	$2\overline{2}$		
0	(000)	0	0	0	0	0	$2\overline{2}$		
1	(000)	0	0	1	0	1	$1\overline{1}$		
		224.112	$Pn'\bar{3}'m$	Classi	ification =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$3^{111}$	$4^{100}_{\frac{1}{2}0\frac{1}{2}}*$	i*	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{100}_{\frac{1}{2}0\frac{1}{2}}$	$Cm_{(0)}^{011}$		
0	(000)	0	0	0	0	0	$2\overline{2}$		
0	(000)	0	0	0	0	0	$2\overline{2}$		
1	(000)	0	1	0	1	1	$1\overline{1}$		
_		224.113		Class	sification =	$=\overline{\mathbb{Z}_2}$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	3 <sup>111</sup>	$4^{100}_{\frac{1}{2}0\frac{1}{2}}*$	i	$2^{110}_{\frac{1}{2}\frac{1}{2}0}*$	$\bar{4}^{100}_{\frac{1}{2}0\frac{1}{2}}*$	$g_{\frac{1}{2}0\frac{1}{2}}^{101}*$		
0	(000)	0	$\frac{202}{0}$	0	0	0	0		
1	(000)	0	1	1	1	0	0		
	*	224.115	$P_I n \bar{3} m$	Class	ification =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	3111	$4_{0\frac{1}{2}0}^{100}*$	$i_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*$	$2^{110}_{00\frac{1}{2}}*$		$Cm_{(2)}^{011}$	
0	(000)	0	0	0 20	$\frac{\overline{2}\ \overline{2}\ \overline{2}}{0}$	00 ½	$\frac{1}{2}0\frac{1}{2}$	$\frac{2\overline{2}}{2\overline{2}}$	
0	(000)	0	0	0	0	0	0	$\frac{22}{2\overline{2}}$	
$\frac{3}{1}$	(000)	1	0	1	0	1	1	11	
		225.116	$\overline{5}  Fm\overline{3}n$	. Class	sification =	$=\mathbb{Z}_{M}^{2}$	$X_{BS} = \mathbb{Z}_8$	$SI = z_8$	
$\mathbb{Z}_8$	weak	3 <sup>111</sup>	$\frac{3^{100}}{4^{100}}$	$\frac{i}{i}$	$\frac{2^{110}}{2^{110}}$	$\frac{-2I_{M}}{4^{100}}$	$\frac{R_{\rm BS} - Z_8}{Cm_{(4)}^{001}}$	$Cm_{(2)}^{101}$	
0	(000)	0	0	0	0	0	$\frac{88}{88}$	88	
0	(000)	0	0	0	0	0	$\frac{\overline{2}2}{2}$	$\frac{\overline{44}}{44}$	
0	(000)	0	0	0	0	0	<del></del> <del></del> <del></del> <del></del>	$\overline{44}$	
3	(000)	0	0	1	0	1	11	11	
6	(000)	0	0	0	0	0	$2\overline{2}$	$2\overline{2}$	
1	(000)	0	0	1	0	1	$3\overline{3}$	$3\overline{3}$	
4	(000)	0	0	0	0	0	$4\overline{4}$	$4\overline{4}$	
7	(000)	0	0	1	0	1	$5\overline{5}$	$5\overline{5}$	

2	(000)	0	0	0	0	0	66	66		
5	(000)	0	0	1	0	1	$7\overline{7}$	$7\overline{7}$		
		225.118	$Fm'\bar{3}'m$	Classi	fication =	$\mathbb{Z}_M$	$X_{BS} = \mathbb{Z}_2$	$SI = z_{2,S_4}$		
$\mathbb{Z}_2$	weak	$3^{111}$	$4^{100}*$	i*	$2^{110}*$	$\bar{4}^{100}$	$Cm_{(0)}^{101}$	, <del>*</del>		
0	(000)	0	0	0	0	0	$\frac{\overline{22}}{2}$			
0	(000)	0	0	0	0	0	$2\overline{2}$			
1	(000)	0	1	0	1	1	$1\overline{1}$			
		225.119	$Fm\bar{3}m'$	Class	ification =	= Z <sub>M</sub>	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$		
$\mathbb{Z}_4$	weak	3111	4 <sup>100</sup> *	i	2110*	$\frac{1}{4^{100}}*$		$Cm_{(2)}^{001}$		
0	(000)	0	0	0	0	0	0	$\frac{(2)}{4\overline{4}}$		
0	(000)	0	0	0	0	0	0	00		
3	(000)	0	1	1	1	0	0	$1\overline{1}$		
2	(000)	0	0	0	0	0	0	$2\overline{2}$		
1	(000)	0	1	1	1	0	0	$3\overline{3}$		
		225.121	$F_S m \bar{3} m$	Clas	sification	$=\mathbb{Z}_{M}^{2}$	$X_{BS} = \mathbb{Z}_8$	$SI = z_8$		
$\mathbb{Z}_8$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	3 <sup>111</sup>	4 <sup>100</sup>	i	$2^{110}$	$\bar{4}^{100}$	$Cm_{(4)}^{100}$	$Cm_{(2)}^{011}$	
0	(000)	$\frac{112225^{\pi}}{0}$	0	0	0	0	0	$\frac{6m_{(4)}}{8\overline{8}}$	$\frac{88}{88}$	
0	(000)	0	0	0	0	0	0	$\frac{-}{44}$	$\frac{\overline{66}}{66}$	
0	(000)	0	0	0	0	0	0	$\frac{44}{44}$	$\frac{\overline{2}}{2}$	
3	(000)	1	0	0	1	0	1	11	$\frac{22}{11}$	
6	(000)	0	0	0	0	0	0	$\frac{11}{2\overline{2}}$	$\frac{11}{2\overline{2}}$	
1	(000)	1	0	0	1	0	1	$3\overline{3}$	33	
4	(000)	0	0	0	0	0	0	$\frac{3\overline{4}}{4\overline{4}}$	$\frac{35}{4\overline{4}}$	
7	(000)	1	0	0	1	0	1	55	55	
2	(000)	0	0	0	0	0	0	66	66	
5	(000)	1	0	0	1	0	1	$7\overline{7}$	$7\overline{7}$	
	1 \ /	226.122	$Fm\bar{3}c$	Classi	fication =	Z <sub>M</sub>	$X_{BS} = \mathbb{Z}_4$	$SI = z'_{4P}$		
$\mathbb{Z}_4$	weak	3111	$\frac{4^{100}}{4^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	i	$\frac{2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$\frac{Z_M}{4^{100}_{\frac{1}{2}^{\frac{1}{2}^{\frac{1}{2}}}}$	$\frac{A_{\rm BS} - Z_4}{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}}$	$\frac{S1 - z_4 P}{Cm_{(4)}^{001}}$		
0	(000)	0	0	0	0	0	0	00		
3	(000)	0	0	1	0	1	1	$\frac{00}{1\overline{1}}$		
	(000)	U	U							
٠,	(000)	0	Ω	Ω	Ω	()	Ω	٠,٠,		
1	(000)	0	0	0	0	0	0	$\frac{2\overline{2}}{3\overline{3}}$		
1	(000)	0	0	1	0	1	1	$3\overline{3}$		
1	(000)	0 226.124	$\frac{0}{Fm'\bar{3}'c}$	1 Classi	0 fication =	$\mathbb{Z}_2$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ S			
$\mathbb{Z}_2$	(000) weak	0 226.124 3 <sup>111</sup>	$\frac{0}{\frac{Fm'\bar{3}'c}{4\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	1 Classi	$ \frac{0}{\text{flication} = \frac{2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}} * $	$\frac{1}{\frac{1}{4^{100}}}$	$\frac{1}{X_{\text{BS}} = \mathbb{Z}_2} \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}}{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}}$	$3\overline{3}$		
$\mathbb{Z}_2$	(000) weak (000)	0 226.124 3 <sup>111</sup> 0	$ \frac{0}{Fm'\bar{3}'c} 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * 0 $	1 Classi	$ \frac{0}{2 \frac{110}{2} \frac{1}{2} \frac{1}{2} *} \\ 0 $	$ \begin{array}{c c} 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & \overline{4}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\  & 0 \end{array} $	$\frac{1}{X_{\text{BS}} = \mathbb{Z}_2} \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}}{0}$	$3\overline{3}$		
$\mathbb{Z}_2$	(000) weak	0 226.124 3 <sup>111</sup> 0 0	$   \begin{array}{r}     0 \\     \hline     Fm'\overline{3}'c \\     4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\     0 \\     \hline     1   \end{array} $	1 Class: i* 0 0	$ \begin{array}{c} 0 \\ \hline \text{fication} = \\ 2\frac{110}{2\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \end{array} $	$ \begin{array}{c c} 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & \overline{4}_{100}^{100} \\ \hline  & 0 \\ \hline  & 1 \end{array} $	$ \begin{array}{c} 1 \\ X_{\text{BS}} = \mathbb{Z}_2 & S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 1 \end{array} $	$\frac{3\overline{3}}{\text{SI} = z_{2,S_4}}$		
$ \begin{array}{c} 1 \\ \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	(000) weak (000) (000)	0 226.124 3 <sup>111</sup> 0 0 226.125		1 Classi	$0$ fication = $2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} *$ $0$ $1$ fication =	$ \begin{array}{c c} 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & \overline{4}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ \hline  & 0 \\ \hline  & 1 \end{array} $	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_4 \end{array}$	$\overline{SI} = z_{2,S_4}$ $\overline{SI} = z'_{4P}$		
$\mathbb{Z}_2$	(000) weak (000)	0 226.124 3 <sup>111</sup> 0 0 226.125	$   \begin{array}{r}     0 \\     \hline     Fm'\overline{3}'c \\     4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\     0 \\     \hline     1   \end{array} $	1 Class: i* 0 0	$ \begin{array}{c} 0 \\ \hline \text{fication} = \\ 2\frac{110}{2\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \end{array} $	$ \begin{array}{c c} 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & \overline{4}_{100} \\ \hline  & \underline{1}_{2}_{2}_{2}_{2} \\ \hline  & 0 \\ 1 \end{array} $	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_4 \end{array}$	$\overline{SI} = z_{2,S_4}$ $\overline{SI} = z'_{4P}$		
$ \begin{array}{c} 1 \\ \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $	(000)  weak (000) (000)  weak (000)	0 226.124 3 <sup>111</sup> 0 0 226.125		1 Classi	$0$ fication = $2\frac{110}{\frac{1}{2}\frac{1}{2}\frac{1}{2}} *$ $0$ $1$ fication =	$ \begin{array}{c c} 1 \\ \hline  & \mathbb{Z}_2 \\ \hline  & \overline{4}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ \hline  & 0 \\ \hline  & 1 \end{array} $	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_4 \end{array}$	$\overline{SI} = z_{2,S_4}$ $\overline{SI} = z'_{4P}$		
$ \begin{array}{c} 1\\ \mathbb{Z}_2\\ 0\\ 1\\ \mathbb{Z}_4 \end{array} $	(000)  weak (000) (000)  weak (000) (000)	0 226.124 3 <sup>111</sup> 0 0 226.125 3 <sup>111</sup>	$ \frac{6}{Fm'\bar{3}'c} \frac{4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} *}{0} \frac{1}{1} \frac{1}{Fm\bar{3}c'} \frac{4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} *}{1} *} $	1 Classi i* 0 0 Classi i	$0$ distance = $\frac{2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{2^{\frac{1}{2}\frac{1}{2}}} = 0$ $1$ fication = $\frac{2^{110}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}{2^{\frac{1}{2}\frac{1}{2}\frac{1}{2}}}$	$ \begin{array}{c c} 1 \\ \hline 4 & 2 \\ \hline 4 & 2 \\ \hline 4 & 2 \\ \hline 2 & 2 \\ \hline 0 \\ \hline 1 \\ \hline Z_M \\ \hline 4 & 100 \\ \hline 2 & 1 \\ \hline 2 & 2 \\ 2 & 2 \\ \hline 2 & 2 \\ 2 & 2 \\ \hline 2 & 2 \\ 2 & 2 \\ \hline 2 & 2 \\ 2 $	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 & S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ k & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \end{array}$	$3\overline{3}$ $\overline{SI} = z_{2,S_4}$ $\overline{SI} = z'_{4P}$ $Cm_{(2)}^{001}$		
$ \begin{array}{c} 1\\ \mathbb{Z}_2\\ 0\\ 1\\ \mathbb{Z}_4\\ 0 \end{array} $	weak (000) (000) (000) (000) (000)	0 226.124 3 <sup>111</sup> 0 0 226.125 3 <sup>111</sup>	$\begin{array}{c} 0 \\ \hline Fm'3'c \\ 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 1 \\ \hline Fm\bar{3}c' \\ 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \end{array}$	1 Classi i* 0 0 Classi i 0 0	$\begin{array}{c} 0 \\ \hline \text{fication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}} \\ 0 \\ \hline 1 \\ \hline \text{fication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}} \\ 0 \\ \end{array}$	$ \begin{array}{c c} 1 \\ \hline 4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ \hline 1 \\ \hline Z_M \\ 4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ \end{array} $	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 & S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 & 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ * & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 & 0 \end{array}$	$ \frac{3\overline{3}}{\text{SI} = z_{2,S_{4}}} $ $ \frac{\overline{\text{SI}} = z'_{4P}}{Cm^{001}_{(2)}} $ $ \frac{4\overline{4}}{00} $ $ 1\overline{1} $		
	weak (000) (000) (000) (000) (000) (000) (000)	0 226.124 3 <sup>111</sup> 0 0 226.125 3 <sup>111</sup> 0 0 0	$\begin{array}{c} 0\\ \hline Fm'3'c\\ \hline 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ \hline 1\\ \hline Fm\bar{3}c'\\ \hline 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}*\\ 0\\ 0\\ \end{array}$	1 Classi i* 0 0 Classi i 0 0	$ \begin{array}{c} 0 \\ \hline \text{flication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}} * \\ 0 \\ 1 \\ \hline \text{flication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2}} * \\ 0 \\ 0 \end{array} $	$ \begin{array}{c c} 1 \\ \hline 1 \\ \hline 4 \\ \hline 1 \\ \hline 2 \\ \hline 3 \\ \hline 2 \\ \hline 3 \\ \hline 4 \\ \hline 4 \\ \hline 1 \\ \hline 2 \\ \hline 2 \\ \hline 2 \\ \hline 3 \\ \hline 3 \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 & S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ * & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 0 \\ \end{array}$	$ \frac{\overline{SI} = z_{2,S_{4}}}{\overline{SI} = z_{4P}} $ $ \frac{\overline{SI} = z_{4P}'}{Cm_{(2)}^{001}} $ $ \frac{\overline{44}}{00} $ $ \frac{\overline{11}}{2\overline{2}} $		
$ \begin{array}{c c}  & \mathbb{Z}_2 \\ 0 \\ 1 \\ \hline  & \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ \end{array} $	weak (000) (000) (000) (000) (000)	0 226.124 3 <sup>111</sup> 0 0 226.125 3 <sup>111</sup> 0 0	$\begin{array}{c} 0 \\ \hline Fm'3'c \\ 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \hline 1 \\ \hline Fm\bar{3}c' \\ 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \end{array}$	1 Classi i* 0 0 Classi i 0 0 1	$ \begin{array}{c} 0 \\ \hline \text{flication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}} * \\ 0 \\ 1 \\ \hline \text{flication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}} * \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c c} 1 \\ \hline & \mathbb{Z}_2 \\ \hline & 4^{100} \\ \hline & 4^{\frac{1}{2} \frac{1}{2} \frac{1}{2}} \\ 0 \\ \hline & 1 \\ \hline & \mathbb{Z}_M \\ \hline & 4^{\frac{100}{100}} \\ \hline & 0 \\ \hline & 0 \\ \end{array}$	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 & S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ * & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 0 \\ \end{array}$	$ \frac{3\overline{3}}{\text{SI} = z_{2,S_{4}}} $ $ \frac{\overline{\text{SI}} = z'_{4P}}{Cm^{001}_{(2)}} $ $ \frac{4\overline{4}}{00} $ $ 1\overline{1} $		
	weak (000) (000) (000) (000) (000) (000) (000)	0 226.124 3 <sup>111</sup> 0 0 226.125 3 <sup>111</sup> 0 0 0	$ \begin{array}{c} 0 \\ \hline Fm'3'c \\ 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}*} \\ 0 \\ 1 \\ \hline Fm3c' \\ 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}*} \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline Fsm3c \\  $	Classi $i*$ Classi $i$ Classi $i$ 0  0  1  0  1	$\begin{array}{c} 0 \\ \hline \text{fication} = \\ \hline 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} * \\ 0 \\ \hline 1 \\ \hline \text{fication} = \\ \hline 2_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{110} * \\ 0 \\ \hline 0 \\ \hline 1 \\ 0 \\ \end{array}$	$\begin{array}{c c} 1 \\ \hline 1 \\ \hline 2 \\ \hline 4 \\ \hline 100 \\ \hline 2 \\ 2 \\$	$\begin{array}{c} 1\\ X_{\rm BS} = \mathbb{Z}_2 & S\\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}}{0}\\ 0\\ 1\\ X_{\rm BS} = \mathbb{Z}_4\\ *& \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}}{0}\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_4\\ \end{array}$	$ \frac{3\overline{3}}{\text{SI} = z_{2,S_{4}}} $ $ \frac{\overline{\text{SI}} = z'_{4P}}{Cm^{001}_{(2)}} $ $ \frac{4\overline{4}}{00} $ $ \frac{1\overline{1}}{2\overline{2}} $ $ 3\overline{3} $		
	weak (000) (000) (000) (000) (000) (000) (000)	0 226.124 3 <sup>111</sup> 0 0 226.125 3 <sup>111</sup> 0 0 0 0 226.127	$\begin{array}{c} 0 \\ \hline Fm'3'c \\ 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \hline 1 \\ \hline Fm3c' \\ 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$	Classi $i*$ Classi $i$ Classi $i$ 0  0  1  0  1	$0 \\ \frac{2^{110}}{2^{12}} = \frac{2^{110}}{2^{12}} = \frac{2^{110}}{2^{110}} = \frac{2^{110}}{2^{110}$	$\begin{array}{c c} 1 \\ \hline 1 \\ \hline 2 \\ \hline 4 \\ \hline 100 \\ \hline 2 \\ 2 \\$	$\begin{array}{c} 1\\ X_{\rm BS} = \mathbb{Z}_2 & S\\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}}{0}\\ 0\\ 1\\ X_{\rm BS} = \mathbb{Z}_4\\ *& \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}}{0}\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_4\\ \end{array}$	$ \frac{\overline{SI} = z_{2,S_{4}}}{\overline{SI} = z_{4P}} $ $ \frac{\overline{SI} = z_{4P}'}{Cm_{(2)}^{001}} $ $ \frac{\overline{44}}{00} $ $ \frac{\overline{11}}{2\overline{2}} $	$Cm_{(4)}^{100}$	
$ \begin{array}{c c} 1 & \\ \mathbb{Z}_2 & \\ 0 & \\ 1 & \\ \end{array} $ $ \begin{array}{c c} \mathbb{Z}_4 & \\ 0 & \\ 0 & \\ 3 & \\ 2 & \\ 1 & \\ \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000)	0 226.124 3 <sup>111</sup> 0 0 226.125 3 <sup>111</sup> 0 0 0 0	$ \begin{array}{c} 0 \\ \hline Fm'3'c \\ 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}*} \\ 0 \\ 1 \\ \hline Fm3c' \\ 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}*} \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline Fsm3c \\  $	$\begin{array}{c} 1 \\ \text{Class:} \\ i* \\ 0 \\ 0 \\ \text{Class:} \\ i \\ 0 \\ 0 \\ 1 \\ \text{Class:} \\ \end{array}$	$\begin{array}{c} 0 \\ \hline \text{fication} = \\ \frac{2^{110}}{2^{\frac{1}{2}} \frac{1}{2} \frac{1}{2}} * \\ 0 \\ \hline 1 \\ \hline \text{fication} = \\ \frac{2^{110}}{2^{\frac{1}{2}} \frac{1}{2} \frac{1}{2}} * \\ 0 \\ 0 \\ \hline 1 \\ \hline \text{fication} = \\ \end{array}$	$\begin{array}{c c} 1 \\ \hline 1 \\ \hline 2 \\ \hline 4 \\ \hline 100 \\ \hline 2 \\ 2 \\$	$\begin{array}{c} 1\\ X_{\rm BS} = \mathbb{Z}_2 & S\\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}}{0}\\ 0\\ 1\\ X_{\rm BS} = \mathbb{Z}_4\\ *& \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}}{0}\\ 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_4\\ \end{array}$	$ \frac{3\overline{3}}{\text{SI} = z_{2,S_4}} $ $ \frac{\overline{\text{SI}} = z'_{4P}}{Cm^{(01)}_{(2)}} $ $ \frac{4\overline{4}}{00} $ $ 1\overline{1} $ $ 2\overline{2} $ $ 3\overline{3} $ $ \overline{\text{SI}} = z'_{4P} $	$\frac{Cm_{(4)}^{100}}{44}$	
$\mathbb{Z}_2$ $0$ $1$ $\mathbb{Z}_4$ $0$ $0$ $3$ $2$ $1$	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{r} 0 \\ 226.124 \\ 3^{111} \\ 0 \\ 0 \\ 226.125 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 226.127 \\ \{1 \frac{1}{2},\frac{1}{2},\frac{1}{2}\}* \end{array} $	$\begin{array}{c} 0 \\ \hline Fm'3'c \\ \hline 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \hline 1 \\ \hline Fm\bar{3}c' \\ \hline 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \hline 1 \\ 0 \\ \hline 1 \\ \hline F_Sm\bar{3}c \\ \hline 3^{111} \\ \end{array}$	$\begin{array}{c} 1 \\ \text{Classi} \\ i* \\ 0 \\ 0 \\ \text{Classi} \\ i \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \text{Classi} \\ 4^{100}* \end{array}$	$ \begin{array}{c} 0 \\ \hline \text{fication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}} * \\ 0 \\ 1 \\ \hline \text{fication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline \text{fication} = \\ i \end{array} $	$\begin{array}{c c} 1 \\ \hline 1 \\ \hline Z_2 \\ \hline 4 \\ \hline 100 \\ \hline 0 \\ \hline 1 \\ \hline Z_M \\ \hline 4 \\ \hline 1 \\ \hline 1 \\ \hline 2 \\ \hline 0 \\ \hline \end{array}$	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 & S \\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}}{0} \\ 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ * & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 0 \\ 0 \\ 0 \\ X_{\rm BS} = \mathbb{Z}_4 \\ \frac{1}{4}^{100} * \end{array}$	$ \frac{3\overline{3}}{\text{SI} = z_{2,S_{4}}} $ $ \frac{\overline{\text{SI}} = z'_{4P}}{Cm_{(2)}^{001}} $ $ \frac{4\overline{4}}{00} $ $ 1\overline{1} $ $ 2\overline{2} $ $ 3\overline{3} $ $ \overline{\text{SI}} = z'_{4P} $ $ m_{101}* $		
$ \begin{array}{c c}  & \mathbb{Z}_2 \\ \hline 0 \\ 1 \\ \hline  & \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \hline  & \mathbb{Z}_4 \\ 0 \\ 0 \end{array} $	weak (000) (	$ \begin{array}{r} 0 \\ 226.124 \\ 3^{111} \\ 0 \\ 0 \\ 226.125 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 226.127 \\ \{1 \frac{1}{2},\frac{1}{2},\frac{1}{2}\}* \\ 0 \end{array} $	$\begin{array}{c} 0 \\ \hline Fm'3'c \\ 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \hline 1 \\ \hline Fm3c' \\ 4^{\frac{100}{2}\frac{1}{2}\frac{1}{2}} \\ 0 \\ 0 \\ \hline 1 \\ 0 \\ 1 \\ \hline Fsm3c \\ 3^{111} \\ 0 \\ \end{array}$	$\begin{array}{c} 1 \\ \text{Classi} \\ i* \\ 0 \\ 0 \\ \text{Classi} \\ i \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \text{Classi} \\ 4^{100}* \\ 0 \\ \end{array}$	$ \begin{array}{c} 0 \\ \hline \text{fication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}} * \\ 0 \\ 1 \\ \hline \text{fication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline \text{fication} = \\ i \\ 0 \end{array} $	$ \begin{array}{c c} 1 \\ \hline   & \mathbb{Z}_2 \\ \hline   & \overline{4}_{\frac{100}{2}}^{100} \\   & 1 \\ \hline   & \mathbb{Z}_M \\ \hline   & 4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\   & 0 \\ \hline   &$	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 & S \\ \frac{g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101}}{0} \\ 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ * & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 0 \\ 0 \\ 0 \\ X_{\rm BS} = \mathbb{Z}_4 \\ \frac{1}{4}^{100} * \\ 0 \\ \end{array}$	$ \frac{3\overline{3}}{\text{SI} = z_{2,S_{4}}} $ $ \frac{\overline{\text{SI}} = z'_{4P}}{Cm_{(2)}^{001}} $ $ \frac{4\overline{4}}{00} $ $ 1\overline{1} $ $ 2\overline{2} $ $ 3\overline{3} $ $ \overline{\text{SI}} = z'_{4P} $ $ m_{101}* $ $ 0 $	$ \begin{array}{c} 4\overline{4} \\ 00 \\ 1\overline{1} \end{array} $	
$ \begin{array}{c c}  & \mathbb{Z}_2 \\ \hline 0 & 1 \\ \hline  & \mathbb{Z}_4 \\ 0 & 0 \\ 3 & 2 \\ 1 & \\ \hline  & \mathbb{Z}_4 \\ 0 & 0 \\ 0 & \\ \end{array} $	weak (000)	$ \begin{array}{r} 0 \\ 226.124 \\ 3^{111} \\ 0 \\ 0 \\ 226.125 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 226.127 \\ 1   \frac{1}{2} \frac{1}{2} \frac{1}{2} \} * \\ 0 \\ 0 \\ 0 \end{array} $	$\begin{array}{c} 0 \\ \hline Fm'3'c \\ \hline 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}* \\ 0 \\ \hline 1 \\ \hline Fm3c' \\ 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}* \\ 0 \\ 0 \\ \hline 1 \\ 0 \\ \hline 1 \\ \hline Fsm3c \\ 3^{111} \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 1 \\ \text{Classi} \\ i* \\ 0 \\ 0 \\ \text{Classi} \\ i \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \text{Classi} \\ 4^{100}* \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ \hline \text{fication} = \\ 2\frac{110}{2}\frac{1}{2}\frac{1}{2}* \\ 0 \\ 1 \\ \hline \text{fication} = \\ 2\frac{1}{2}\frac{1}{2}\frac{1}{2}* \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline \text{fication} = \\ i \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c c} 1 \\ \hline  \mathbb{Z}_2 & 2 \\ \hline  4 \frac{100}{2} & 2 \\ \hline  0 & 1 \\ \hline  \mathbb{Z}_M \\  4 \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \hline  0 & 0 \\  0 & 0 \\ \hline  0 & 0 \\ \hline  2^{110} * \\ \hline  0 & 0 \\ \hline  0 & 0 \\ \end{array}$	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 & S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} & 0 \\ & 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ * & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 & 0 \\ & 0 \\ & 0 \\ \hline X_{\rm BS} = \mathbb{Z}_4 \\ & 4^{100} * \\ & 0 \\ & 0 \\ \end{array}$	$ \frac{3\overline{3}}{\text{SI} = z_{2,S_{4}}} $ $ \frac{\overline{\text{SI}} = z'_{4P}}{Cm^{001}_{(2)}} $ $ \frac{4\overline{4}}{2\overline{2}} $ $ \frac{3\overline{3}}{3\overline{3}} $ $ \overline{\text{SI}} = z'_{4P} $ $ m_{101}* $ $ 0 $	$\frac{4\overline{4}}{00}$	
$ \begin{array}{c c}  & \mathbb{Z}_2 \\ \hline 0 & 1 \\ \hline  & \mathbb{Z}_4 \\ 0 & 0 \\ 3 & 2 \\ 1 & \\ \hline  & \mathbb{Z}_4 \\ 0 & 0 \\ 3 & 3 \\ \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{r} 0 \\ \hline 226.124 \\ 3^{111} \\ 0 \\ 0 \\ \hline 226.125 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 226.127 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ \hline Fm'3'c \\ \hline 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ \hline 1 \\ \hline Fm3c' \\ \hline 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}} * \\ 0 \\ 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline Fsm3c \\ 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 1 \\ \text{Classi} \\ i* \\ 0 \\ 0 \\ \\ \text{Classi} \\ i \\ 0 \\ 0 \\ 1 \\ \\ \text{Classi} \\ 4^{100}* \\ 0 \\ 0 \\ 1 \\ \end{array}$	$ \begin{array}{c} 0 \\ \hline \text{flication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}} \\ 0 \\ 1 \\ \hline \text{flication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}} \\ 0 \\ 0 \\ 1 \\ \hline \text{flication} = \\ i \\ 0 \\ 0 \\ 1 \end{array} $	$\begin{array}{c c} 1 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ 2 \\$	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 & S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 & 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ * & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 & 0 \\ 0 & 0 \\ \hline X_{\rm BS} = \mathbb{Z}_4 \\ \frac{1}{4}^{100} * \\ 0 & 0 \\ 0 & 0 \\ \end{array}$	$ \frac{3\overline{3}}{SI} = z_{2,S_4} $ $ \frac{SI = z'_{4P}}{Cm^{001}_{(2)}} $ $ \frac{4\overline{4}}{00} $ $ \frac{1\overline{1}}{2\overline{2}} $ $ \frac{3\overline{3}}{3\overline{3}} $ $ \frac{SI = z'_{4P}}{m_{101}*} $ $ 0 $ $ 0 $	$ \begin{array}{c} 4\overline{4} \\ 00 \\ 1\overline{1} \end{array} $	
$ \begin{array}{c c} 1 \\ \mathbb{Z}_2 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \end{array} $ $ \begin{array}{c c} \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{r} 0 \\ \hline 226.124 \\ 3^{111} \\ 0 \\ 0 \\ \hline 226.125 \\ 3^{111} \end{array} $ $ \begin{array}{r} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 226.127 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 227.128 \end{array} $	$\begin{array}{c} 0 \\ \hline Fm'3'c \\ \hline 4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ \hline 1 \\ \hline \hline Fm3c' \\ 4_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{100} \\ \hline 0 \\ 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline Fsm3c \\ \hline 3^{111} \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline \end{array}$	$\begin{array}{c} 1 \\ \text{Classi} \\ i* \\ 0 \\ 0 \\ \\ \text{Classi} \\ i \\ 0 \\ 0 \\ 1 \\ \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$	$ \frac{0}{\text{effication}} = \frac{2\frac{110}{12}\frac{1}{2}}{2\frac{11}{2}\frac{1}{2}} * 0 $ $ \frac{1}{1} = \frac{2\frac{110}{12}\frac{1}{2}}{0} = \frac{1}{0} $ $ \frac{1}{1} = \frac{0}{0} $	$\begin{array}{c c} 1 \\ \hline 1 \\ \hline Z_2 \\ \hline 4 \\ \hline 10 \\ \hline 2 \\ \hline 2 \\ \hline 1 \\ \hline Z_M \\ \hline 4 \\ \hline 10 \\ \hline 2 \\ 2 \\$	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 & S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ * & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 0 \\ 0 \\ X_{\rm BS} = \mathbb{Z}_4 \\ \hline 4^{100} * \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$ \frac{3\overline{3}}{\text{SI} = z_{2,S_{4}}} $ $ \frac{\overline{\text{SI}} = z_{4P}'}{Cm_{(2)}^{001}} $ $ \frac{4\overline{4}}{2\overline{2}} $ $ \frac{3\overline{3}}{3\overline{3}} $ $ \overline{\text{SI}} = z_{4P}' $ $ \frac{m_{101}*}{0} $ $0 $ $0 $ $0 $	$ \begin{array}{r} 4\overline{4} \\ 00 \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 1 \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$ \begin{array}{r} 0 \\ \hline 226.124 \\ 3^{111} \\ 0 \\ 0 \\ \hline 226.125 \\ 3^{111} \end{array} $ $ \begin{array}{r} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 226.127 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} 0 \\ \hline Fm'3'c \\ \hline 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}* \\ 0 \\ \hline 1 \\ \hline Fm3c' \\ \hline 4^{\frac{100}{2}\frac{1}{2}\frac{1}{2}}* \\ 0 \\ 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline Fsm3c \\ \hline 3^{111} \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline Fd3m \\ \end{array}$	$\begin{array}{c} 1 \\ \text{Classi} \\ i* \\ 0 \\ 0 \\ \\ \text{Classi} \\ i \\ 0 \\ 0 \\ 1 \\ \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \end{array}$	$ \begin{array}{c} 0 \\ \hline \text{flication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}} * \\ 0 \\ 1 \\ \hline \text{flication} = \\ 2\frac{110}{2 \cdot \frac{1}{2} \cdot \frac{1}{2}} * \\ 0 \\ 0 \\ 1 \\ \hline \text{flication} = \\ i \\ 0 \\ 0 \\ 1 \\ \hline \text{flication} = \\ 0 \\ 1 \\ \hline \text{flication} = \\ \hline \text{flication} = \\ 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ \hline \text{flication} = \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c c} 1 \\ \hline Z_2 & Z \\ \hline 4 \frac{100}{12} \\ \hline 2 \frac{1}{2} \frac{1}{2} \\ 0 \\ \hline 1 \\ \hline Z_M \\ \hline 4 \frac{101}{12} \frac{1}{2} \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline Z_M \\ \hline 2^{110} * \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline Z_M \\ \hline \end{array}$	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 & S \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} & 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ * & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ * & 0 \\ 0 \\ 0 \\ 0 \\ X_{\rm BS} = \mathbb{Z}_4 \\ \hline 4^{100} * \\ 0 \\ 0 \\ 0 \\ 0 \\ X_{\rm BS} = \mathbb{Z}_2 \\ \end{array}$	$ \frac{\overline{SI} = z_{4P}}{SI} = z_{4P} $ $ \frac{\overline{SI} = z_{4P}'}{Cm_{(2)}^{001}} $ $ \frac{\overline{44}}{22} $ $ \frac{\overline{33}}{33} $ $ \underline{SI} = z_{4P}' $ $ m_{101}* $ $0 $ $0 $ $0 $	$ \begin{array}{r} 4\overline{4} \\ 00 \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 1 \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \end{array} $	weak   (000)   weak   (000)	$ \begin{array}{c} 0 \\ \hline 226.124 \\ 3^{111} \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 226.125 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 227.128 \\ 3^{111} \end{array} $	$\begin{array}{c} 0 \\ \hline Fm'3'c \\ \hline 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}* \\ 0 \\ \hline 1 \\ \hline Fm3c' \\ \hline 4^{\frac{100}{1}}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}* \\ 0 \\ 0 \\ \hline 1 \\ 0 \\ \hline 1 \\ \hline Fsm3c \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ \hline $	$ \begin{array}{c} 1 \\ \text{Classi} \\ i* \\ 0 \\ 0 \\ \text{Classi} \\ i \\ 0 \\ 0 \\ 1 \\ \text{Classi} \\ 4^{100}* \\ 0 \\ 0 \\ 1 \\ 0 \\ \text{Classi} \\ i \\ \end{array} $	$\begin{array}{c} 0 \\ \hline \text{fication} = \\ 2\frac{110}{2 \frac{1}{2} \frac{1}{2} \frac{1}{2}} * \\ 0 \\ \hline 1 \\ \hline \text{fication} = \\ 2\frac{110}{2 \frac{1}{2} \frac{1}{2} \frac{1}{2}} * \\ 0 \\ 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline \text{fication} = \\ i \\ 0 \\ \hline 0 \\ 1 \\ \hline \text{fication} = \\ 2\frac{110}{4 \frac{1}{4} 0} * \\ \hline \end{array}$	$\begin{array}{c c} 1 \\ \hline \mathbb{Z}_2 & 2 \\ \hline 4 \\ \hline 100 \\ \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_M \\ \hline 4 \\ \hline 100 \\ \hline 2 \\ \hline 0 \\ \hline 2 \\ \hline M \\ \hline 2^{110} * \\ \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_M \\ \hline 0 \\ \hline 1 \\ \hline 0 $	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ * g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 0 \\ 0 \\ 0 \\ X_{\rm BS} = \mathbb{Z}_4 \\ \hline 4^{100} * \\ 0 \\ 0 \\ 0 \\ X_{\rm BS} = \mathbb{Z}_2 \\ Cm_{(2)}^{011} \end{array}$	$ \frac{3\overline{3}}{\text{SI} = z_{2,S_{4}}} $ $ \frac{\overline{\text{SI}} = z_{4P}'}{Cm_{(2)}^{001}} $ $ \frac{4\overline{4}}{2\overline{2}} $ $ \frac{3\overline{3}}{3\overline{3}} $ $ \overline{\text{SI}} = z_{4P}' $ $ \frac{m_{101}*}{0} $ $0 $ $0 $ $0 $	$ \begin{array}{r} 4\overline{4} \\ 00 \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c}  & \mathbb{Z}_2 \\ \hline 0 & 1 \\ \hline  & \mathbb{Z}_4 \\ 0 & 0 \\ 3 & 2 \\ 1 & \\ \hline  & \mathbb{Z}_4 \\ 0 & 0 \\ 3 & 2 \\ 1 & \\ \hline  & \mathbb{Z}_2 \\ 0 & \\ \end{array} $	weak (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ \hline 226.124 \\ 3^{111} \\ \hline 0 \\ 0 \\ \hline \\ 226.125 \\ 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 226.127 \\ \{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}* \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 227.128 \\ 3^{111} \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ \hline Fm'3'c \\ \hline 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}* \\ 0 \\ \hline 1 \\ \hline Fm3c' \\ 4^{\frac{100}{1}\frac{1}{2}\frac{1}{2}}* \\ 0 \\ 0 \\ \hline 1 \\ \hline 0 \\ 1 \\ \hline Fsm3c \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ \hline 4^{\frac{100}{4}\frac{1}{4}0\frac{1}{4}} \\ 0 \\ \end{array}$	$\begin{array}{c} 1 \\ \text{Classi} \\ i* \\ 0 \\ 0 \\ \text{Classi} \\ i \\ 0 \\ 0 \\ 1 \\ \text{Classi} \\ 4^{100}* \\ 0 \\ 0 \\ 1 \\ 0 \\ \text{Classi} \\ i \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ \hline \text{fication} = \\ 2\frac{110}{2 \frac{1}{2} \frac{1}{2} \frac{1}{2} *}{0} \\ \hline 1 \\ \hline \text{fication} = \\ 2\frac{110}{2 \frac{1}{2} \frac{1}{2} \frac{1}{2} *}{0} \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline \text{fication} = \\ \hline i \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline \\ \text{fication} = \\ 2\frac{110}{4 \frac{1}{4} 0} \\ \hline \end{array}$	$\begin{array}{c c} 1 \\ \hline 1 \\ \hline \mathbb{Z}_2 \\ \hline 2 \\ \hline 4 \\ \hline 100 \\ \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_M \\ \hline 4 \\ \hline 101 \\ \hline 1 \\ \hline 2 \\ \hline 0 \\ 0 \\$	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 & S \\ \hline g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} & 0 \\ \hline 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ * & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ * & g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline X_{\rm BS} = \mathbb{Z}_4 \\ \hline 4^{100} * \\ \hline 0 \\ \hline 0 \\ \hline X_{\rm BS} = \mathbb{Z}_2 \\ \hline Cm_{(2)}^{011} \\ \hline 22 \\ \end{array}$	$ \frac{3\overline{3}}{\text{SI} = z_{2,S_{4}}} $ $ \frac{\overline{\text{SI}} = z_{4P}'}{Cm_{(2)}^{001}} $ $ \frac{4\overline{4}}{2\overline{2}} $ $ \frac{3\overline{3}}{3\overline{3}} $ $ \overline{\text{SI}} = z_{4P}' $ $ \frac{m_{101}*}{0} $ $0 $ $0 $ $0 $	$ \begin{array}{r} 4\overline{4} \\ 00 \\ 1\overline{1} \\ 2\overline{2} \end{array} $	
$ \begin{array}{c c} 1 \\ \mathbb{Z}_2 \\ 0 \\ 1 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \\ \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 2 \\ 1 \end{array} $	weak   (000)   weak   (000)	$ \begin{array}{c} 0 \\ \hline 226.124 \\ 3^{111} \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 226.125 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 227.128 \\ 3^{111} \end{array} $	$\begin{array}{c} 0 \\ \hline Fm'3'c \\ \hline 4^{100}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}* \\ 0 \\ \hline 1 \\ \hline Fm3c' \\ \hline 4^{\frac{100}{1}}_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}* \\ 0 \\ 0 \\ \hline 1 \\ 0 \\ \hline 1 \\ \hline Fsm3c \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ \hline $	$ \begin{array}{c} 1 \\ \text{Classi} \\ i* \\ 0 \\ 0 \\ \text{Classi} \\ i \\ 0 \\ 0 \\ 1 \\ \text{Classi} \\ 4^{100}* \\ 0 \\ 0 \\ 1 \\ 0 \\ \text{Classi} \\ i \\ \end{array} $	$\begin{array}{c} 0 \\ \hline \text{fication} = \\ 2\frac{110}{2 \frac{1}{2} \frac{1}{2} \frac{1}{2}} * \\ 0 \\ \hline 1 \\ \hline \text{fication} = \\ 2\frac{110}{2 \frac{1}{2} \frac{1}{2} \frac{1}{2}} * \\ 0 \\ 0 \\ \hline 1 \\ \hline 0 \\ \hline 1 \\ \hline \text{fication} = \\ i \\ 0 \\ \hline 0 \\ 1 \\ \hline \text{fication} = \\ 2\frac{110}{4 \frac{1}{4} 0} * \\ \hline \end{array}$	$\begin{array}{c c} 1 \\ \hline \mathbb{Z}_2 & 2 \\ \hline 4 \\ \hline 100 \\ \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_M \\ \hline 4 \\ \hline 100 \\ \hline 2 \\ \hline 0 \\ \hline 2 \\ \hline M \\ \hline 2^{110} * \\ \hline 0 \\ \hline 1 \\ \hline \mathbb{Z}_M \\ \hline 0 \\ \hline 1 \\ \hline 0 $	$\begin{array}{c} 1 \\ X_{\rm BS} = \mathbb{Z}_2 \\ g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 1 \\ X_{\rm BS} = \mathbb{Z}_4 \\ * g_{\frac{1}{2}\frac{1}{2}\frac{1}{2}}^{101} \\ 0 \\ 0 \\ 0 \\ 0 \\ X_{\rm BS} = \mathbb{Z}_4 \\ \hline 4^{100} * \\ 0 \\ 0 \\ 0 \\ X_{\rm BS} = \mathbb{Z}_2 \\ Cm_{(2)}^{011} \end{array}$	$ \frac{3\overline{3}}{\text{SI} = z_{2,S_{4}}} $ $ \frac{\overline{\text{SI}} = z_{4P}'}{Cm_{(2)}^{001}} $ $ \frac{4\overline{4}}{2\overline{2}} $ $ \frac{3\overline{3}}{3\overline{3}} $ $ \overline{\text{SI}} = z_{4P}' $ $ \frac{m_{101}*}{0} $ $0 $ $0 $ $0 $	$ \begin{array}{r} 4\overline{4} \\ 00 \\ 1\overline{1} \\ 2\overline{2} \end{array} $	

		227.130	$Fd'\bar{3}'m$	Classi	figation -	7 V	$\mathbb{Z}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{S}_2$	T — ~	
$\mathbb{Z}_2$	weak	$\frac{227.130}{3^{111}}$	$\frac{4^{100}_{100}}{4^{100}_{40}}*$	i*	$\frac{2_{\frac{1}{4}\frac{1}{4}0}^{110}}{2_{\frac{1}{4}\frac{1}{4}0}^{110}} *$	$\frac{Z_M}{4^{100}}$	$\frac{L_{\rm BS} = \mathbb{Z}_2}{Cm_{(0)}^{011}}$	$1 = z_{2,S_4}$	
			$\frac{1}{4}0\frac{1}{4}$				$\frac{2\overline{2}}{2\overline{2}}$		
0	(000)	0	0	0	0	0	$\frac{22}{2\overline{2}}$		
$\frac{0}{1}$	/ /	0	0	0	0	1	$\frac{22}{1\overline{1}}$		
1	(000)							- <i>'</i>	
		227.13			ification =	$= \mathbb{Z}_2  X$	$\mathbb{I}_{\mathrm{BS}} = \mathbb{Z}_2  \mathrm{S}$	$I = z'_{2P}$	
$\mathbb{Z}_2$	weak	3 <sup>111</sup>	$4^{100}_{\frac{1}{4}0\frac{1}{4}}*$	i	$\frac{2^{110}_{\frac{1}{4}\frac{1}{4}0}*}{2^{110}_{\frac{1}{4}\frac{1}{4}0}}$	$\bar{4}^{100}_{\frac{1}{4}0\frac{1}{4}}*$	$g_{\frac{1}{4}0\frac{1}{4}}^{101}*$		
0	(000)	0	0	0	0	0	0		
1	(000)	0	1	1	1	0	0		
		227.133	~	Classi	fication =	$\mathbb{Z}_M$ $\Sigma$	$X_{\mathrm{BS}} = \mathbb{Z}_2$ S	$SI = z'_{2P}$	
$\mathbb{Z}_2$	weak	$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$	$3^{111}$	$4^{100}_{\frac{1}{4}0\frac{1}{4}}$	i	$2^{110}_{\frac{1}{4}\frac{1}{4}0}$	$\frac{100}{4_{\frac{1}{4}0_{\frac{1}{4}}}^{100}}$	$Cm_{(2)}^{011}$	
0	(000)	0	0	0	0	0	0	$2\overline{2}$	
0	(000)	0	0	0	0	0	0	$2\overline{2}$	
1	(000)	1	0	0	1	0	1	$1\overline{1}$	
	/	228.13	$\overline{34}$ $Fd\overline{3}c$	Classit	fication =	7. Y-	$_{\mathrm{SS}}=\mathbb{Z}_{2}$ SI	$=z'_{2P}$	
$\mathbb{Z}_2$	weak	3 <sup>111</sup>	$\frac{4^{100}}{4^{1}_{1}^{1}_{1}}$	i	$\frac{110011}{2_{111}^{110}}$	$\frac{2}{4^{100}}$	$\frac{g_{\frac{1}{4}\frac{1}{2}\frac{1}{4}}^{101}}{g_{\frac{1}{4}\frac{1}{2}\frac{1}{4}}^{101}}$	$-z_{2P}$	
			4 2 4		4 4 2	4 2 4			
0	(000)	0	0	0	0	0	0		
1	(000)	0	0	1	0	1	1		
		228.136					$_{\mathrm{BS}} = \mathbb{Z}_2$ SI	$= z_{2,S_4}$	
$\mathbb{Z}_2$	weak	$3^{111}$	$4^{100}_{rac{1}{4}rac{1}{2}rac{1}{4}}*$	i*	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{2}}*$	$\bar{4}^{100}_{rac{1}{4}rac{1}{2}rac{1}{4}}$	$g_{rac{1}{4}rac{1}{2}rac{1}{4}}^{101}$		
0	(000)	0	0	0	0	0	0		
1	(000)	0	1	0	1	1	1		
		228.13	$\overline{37}$ $Fd\overline{3}c'$	Classi	fication =	$\mathbb{Z}_2$ $\mathbb{X}_1$	$_{\mathrm{BS}}=\mathbb{Z}_{2}$ SI	$z'_{2P}$	
$\mathbb{Z}_2$	weak	3111	$4^{100}_{rac{1}{4}rac{1}{2}rac{1}{4}}*$	i	$2^{110}_{\frac{1}{4},\frac{1}{4},\frac{1}{2}}*$	$\frac{100}{4^{\frac{100}{4}}}$	$g_{\frac{1}{4}\frac{1}{2}\frac{1}{4}}^{101}*$	21	
0	(000)	0	$\frac{\frac{1}{4}\frac{1}{2}\frac{1}{4}}{0}$	0	$\frac{\frac{1}{4}\frac{1}{4}\frac{1}{2}}{0}$	$\frac{\frac{1}{4}\frac{1}{2}\frac{1}{4}}{0}$	$\frac{3\frac{1}{4}\frac{1}{2}\frac{1}{4}}{0}$		
1	(000)	0	1	1	1	0	0		
	1 (000)								
$\mathbb{Z}_2$		228.13			fication =	$- \omega_2 = \Lambda$	$BS = \mathbb{Z}_2$ 51	$I=z_{2P}'$	
// (5)	TTTCO Ir	$f_1   1   1   1   1   1   1   1   1   1  $	$_{2}111$	₁010	ċ			m - ·	
		$\{1 \frac{1}{2}\frac{1}{2}\frac{1}{2}\}*$		$4^{010}_{\frac{1}{4}\frac{1}{4}0} *$	i	$2^{110}_{\frac{1}{4}\frac{1}{4}0}*$	$\bar{4}^{010}_{rac{1}{4}rac{1}{4}0}*$	$m_{0\bar{1}1}*$	
0	(000)	0	0	0	0	$\begin{array}{c} 2^{110}_{\frac{1}{4}\frac{1}{4}0} * \\ 0 \end{array}$	$\frac{\bar{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*}{0}$	0	
		0	0	0	0	$ \begin{array}{c} 2^{110}_{\frac{1}{4}\frac{1}{4}0} * \\ 0 \\ 1 \end{array} $	$\begin{array}{c} \bar{4}^{010}_{\frac{1}{4}\frac{1}{4}0} * \\ 0 \\ 0 \\ \end{array}$	0	
0	(000)	0 1 229.14	$ \begin{array}{c} 0\\0\\\hline 40 & Im\bar{3}m \end{array} $	0 1 Class	0 1 ification =	$ \begin{array}{c} 2_{\frac{1}{4}\frac{1}{4}0}^{110} * \\ 0 \\ 1 \\ = \mathbb{Z}_{M}^{2}  \Sigma \end{array} $		$0 \\ 0 \\ \text{SI} = z_8$	
0	(000)	0	0	0	0	$ \begin{array}{c} 2^{110}_{\frac{1}{4}\frac{1}{4}0} * \\ 0 \\ 1 \end{array} $	$\begin{array}{c} \bar{4}^{010}_{\frac{1}{4}\frac{1}{4}0} * \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c} 0\\ 0\\ \overline{SI} = z_8\\ Cm_{(4)}^{001} \end{array} $	
0	(000) (000) weak (000)	0 1 229.14	$ \begin{array}{c} 0\\0\\\hline 40 & Im\bar{3}m \end{array} $	0 1 Class	$ \begin{array}{r} 0\\ 1\\  \hline 1\\  \hline 2^{110}\\ 0 \end{array} $	$ \begin{array}{c} 2_{\frac{1}{4}\frac{1}{4}0}^{110} * \\ 0 \\ 1 \\ = \mathbb{Z}_{M}^{2}  \Sigma \end{array} $	$ \frac{\bar{4}_{110}^{010}*}{0}* $ $ 0 $ $ X_{BS} = Z_8 $ $ Cm_{(2)}^{011} $ $ 8\overline{8} $	$0 \\ 0 \\ \text{SI} = z_8$	
$0$ $1$ $\mathbb{Z}_8$	(000) (000) weak (000) (000)	$0 \\ 1 \\ 229.14 \\ 3^{111} \\ 0 \\ 0$	$ \begin{array}{c} 0 \\ 0 \\ 40 \\ \hline 4^{100} \\ 0 \\ 0 \end{array} $	0 1 Class i 0 0	0 1 ification = 2 <sup>110</sup> 0	$ \begin{array}{c} 2_{\frac{1}{4}\frac{1}{4}0}^{110} * \\ 0 \\ 1 \\ = \mathbb{Z}_{M}^{2} \\ \bar{4}^{100} \end{array} $	$ \frac{\bar{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*}{0} \\ X_{BS} = \mathbb{Z}_{8} \\ Cm_{(2)}^{011} $	$ \begin{array}{c} 0\\ 0\\ \overline{SI} = z_8\\ Cm_{(4)}^{001} \end{array} $	
$\begin{bmatrix} 0 \\ 1 \\ \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \end{bmatrix}$	(000) (000) (000) (000) (000) (000)	$0$ $1$ $229.14$ $3^{111}$ $0$	$   \begin{array}{r}     0 \\     \hline     0 \\     \hline     40 & Im\bar{3}m \\     4^{100} \\     \hline     0   \end{array} $	0 1 Class i 0	0 1 iffication = 2 <sup>110</sup> 0 0	$ \begin{array}{c} 2_{\frac{1}{4}\frac{1}{4}0}^{110} * \\ 0 \\ 1 \\ = \mathbb{Z}_{M}^{2} \\ \overline{4}^{100} \\ 0 \end{array} $	$ \frac{\bar{4}_{110}^{010}*}{0}* $ $ 0 $ $ X_{BS} = Z_8 $ $ Cm_{(2)}^{011} $ $ 8\overline{8} $		
$ \begin{array}{c} 0 \\ 1 \\ \mathbb{Z}_8 \\ 0 \\ 0 \end{array} $	(000) (000) weak (000) (000)	$0 \\ 1 \\ 229.14 \\ 3^{111} \\ 0 \\ 0$	$ \begin{array}{c} 0 \\ 0 \\ 40 \\ \hline 4^{100} \\ 0 \\ 0 \end{array} $	0 1 Class i 0 0	0 1 ification = 2 <sup>110</sup> 0	$ \begin{array}{c} 2\frac{110}{4}\frac{4}{4}0* \\ 0 \\ 1 \\ = \mathbb{Z}_{M}^{2} \\ \hline 4^{100} \\ 0 \\ 0 \end{array} $	$ \frac{\bar{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*}{0} \\ 0 \\ X_{BS} = \mathbb{Z}_{8} \\ \underline{Cm_{(2)}^{011}} \\ \underline{88} \\ \underline{22} $	$ \begin{array}{c} 0\\ 0\\ \overline{SI} = z_8\\ \underline{Cm_{(4)}^{001}}\\ \underline{88}\\ \overline{44} \end{array} $	
$\begin{bmatrix} 0 \\ 1 \\ \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \end{bmatrix}$	(000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0	$ \begin{array}{ccc} 0 & & & & \\ 0 & & & & & \\ 10 & Im\bar{3}m & & \\ 4^{100} & & & & \\ 0 & & & & \\ 0 & & & & \\ 0 & & & & \\ 0 & & & & \\ 0 & & & & \\ \end{array} $	0 1 Class i 0 0	0 1 ification = 2 <sup>110</sup> 0 0 0 0	$ \begin{array}{c} 2\frac{110}{4}\frac{4}{4}0* \\ 0 \\ 1 \\ = \mathbb{Z}_{M}^{2} \\ \hline 4^{100} \\ 0 \\ 0 \end{array} $	$ \frac{\bar{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*}{0} $ $ 0 $ $ X_{BS} = \mathbb{Z}_{8}  S $ $ \frac{Cm_{(2)}^{011}}{88} $ $ \frac{88}{22} $ $ \frac{66}{11} $ $ \frac{1}{22} $		
$\begin{bmatrix} 0 \\ 1 \end{bmatrix}$ $\begin{bmatrix} \mathbb{Z}_8 \\ 0 \\ 0 \end{bmatrix}$ $\begin{bmatrix} 0 \\ 3 \end{bmatrix}$	(000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0	$ \begin{array}{c c} \hline 0 \\ 0 \\ \hline 40 & Im \overline{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	0 1 Class i 0 0 0 1 0	0 1 ification = 2 <sup>110</sup> 0 0 0 0 0	$ \begin{array}{c} 2_{\frac{1}{4}}^{110} \\ \frac{1}{4}_{\frac{1}{4}}^{10} \\ 0 \end{array} $ $ \begin{array}{c} 1 \\ \overline{4}^{100} \\ 0 \\ 0 \\ 0 \end{array} $	$ \frac{\bar{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*}{0} $ $ 0 $ $ X_{BS} = \mathbb{Z}_{8} $ $ \frac{Cm_{(2)}^{011}}{8\overline{8}} $ $ \frac{\overline{2}2}{\overline{6}6} $ $ \frac{1\overline{1}}{2\overline{2}} $ $ 3\overline{3} $	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ \hline SI = z_8 \\ Cm_{(4)}^{001} \\ \hline 88 \\ \hline 44 \\ \hline 44 \\ \hline 11 \\ \hline 22 \\ \hline 33 \\ \hline \end{array} $	
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0 0 0 0	$ \begin{array}{c c} \hline 0 \\ 0 \\ \hline 40 & Im \overline{3}m \\ \hline 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	0 1 Class i 0 0 0 1	0 1 ification = 2 <sup>110</sup> 0 0 0 0 0 0	$ \begin{array}{c} 2_{\frac{1}{4}}^{10} \\ \frac{1}{4}_{\frac{1}{4}}^{10} \\ 0 \end{array} $ $ \begin{array}{c} 1 \\ = \mathbb{Z}_{M}^{2} \\ \overline{4}^{100} \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \end{array} $	$ \frac{\bar{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*}{0} \\ 0 \\ X_{BS} = \mathbb{Z}_{8} \\ \underline{Cm_{(2)}^{011}} \\ 8\overline{8} \\ \underline{22} \\ \underline{66} \\ 1\overline{1} \\ \underline{22} \\ 3\overline{3} \\ 4\overline{4} $	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 8I = z_8 \\ Cm_{(4)}^{001} \\ 88 \\ \hline 44 \\ \hline 44 \\ 11 \\ \hline 22 \\ \hline 33 \\ 44 \\ \hline \end{array} $	
$\begin{bmatrix} 0 \\ 1 \\ \end{bmatrix}$ $\begin{bmatrix} \mathbb{Z}_8 \\ 0 \\ 0 \\ \end{bmatrix}$ $\begin{bmatrix} 0 \\ 3 \\ 6 \\ \end{bmatrix}$	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0 0 0	$ \begin{array}{c c} \hline 0 \\ 0 \\ \hline 40 & Im \overline{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	0 1 Class i 0 0 0 1 0	0 1 ification = 2 <sup>110</sup> 0 0 0 0 0 0 0	$ \begin{array}{c} 2\frac{110}{4}\frac{1}{4}0* \\ 0 \\ 1 \\ = \mathbb{Z}_{M}^{2} \\ \hline 4^{100} \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} \overline{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*\\ \hline 0\\ 0\\ \hline \\ X_{\rm BS} = \mathbb{Z}_8\\ \hline Cm_{(2)}^{011}\\ \hline 88\\ \hline \overline{2}2\\ \hline \overline{66}\\ \hline 1\overline{1}\\ \hline \underline{22}\\ \hline 3\overline{3}\\ \hline 4\overline{4}\\ \hline 5\overline{5}\\ \end{array}$	$ \begin{array}{c} 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	
$\begin{bmatrix} \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \end{bmatrix}$	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0 0 0 0 0 0	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 40 & Im \overline{3}m \\ \hline 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	0 1 Class i 0 0 0 1 0 1 0 1	0 1 ification = 2 <sup>110</sup> 0 0 0 0 0 0 0 0	$ \begin{array}{c} 2\frac{110}{4}\frac{1}{4}0 * \\ 0 \\ 1 \\ = \overline{Z}_{M}^{2} \\ \overline{4}^{100} \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \end{array} $	$\begin{array}{c} \overline{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*\\ 0\\ 0\\ \overline{X}_{BS} = \overline{\mathbb{Z}}_{8}\\ \overline{C}m_{(2)}^{011}\\ \overline{88}\\ \overline{2}2\\ \overline{66}\\ \overline{11}\\ \overline{22}\\ \overline{33}\\ \overline{44}\\ \overline{55}\\ \overline{66}\\ \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	
$\begin{bmatrix} 0 \\ 1 \end{bmatrix}$ $\begin{bmatrix} \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \end{bmatrix}$ $\begin{bmatrix} 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \end{bmatrix}$	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0 0 0 0 0	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 40 & Im \overline{3}m \\ \hline 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	0 1 Class i 0 0 0 1 0 1	0 1 ification = 2 <sup>110</sup> 0 0 0 0 0 0 0	$ \begin{array}{c} 2\frac{110}{4}\frac{1}{40} * \\ 0 \\ 1 \\ = \frac{\mathbb{Z}_{M}^{2}}{4^{100}} \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} \overline{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*\\ \hline 0\\ 0\\ \hline \\ X_{\rm BS} = \mathbb{Z}_8\\ \hline Cm_{(2)}^{011}\\ \hline 88\\ \hline \overline{2}2\\ \hline \overline{66}\\ \hline 1\overline{1}\\ \hline \underline{22}\\ \hline 3\overline{3}\\ \hline 4\overline{4}\\ \hline 5\overline{5}\\ \end{array}$	$ \begin{array}{c} 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 40 & Im\bar{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ Im'\bar{3}'m \end{array} $	0 1 Class i 0 0 0 1 0 1 0 1 0	0 1 iffication = 2 <sup>110</sup> 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c} 2\frac{110}{4}\frac{1}{40} * \\ 0 \\ 1 \\ \hline = \mathbb{Z}_{M}^{2} \\ \hline 4^{100} \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$ \frac{\bar{4}_{\frac{1}{4}\frac{1}{4}0}^{010}}{0} * \frac{\bar{4}_{\frac{1}{4}\frac{1}{4}0}^{010}}{0} * \frac{\bar{3}_{\frac{1}{4}\frac{1}{4}0}}{0} * \frac{\bar{3}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}0}}{0} * \frac{\bar{3}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}}}{\frac{22}{55}} \frac{\bar{6}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}}}{\frac{55}{66}} \frac{\bar{6}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}}{\frac{55}{66}\frac{1}{6}} \frac{\bar{6}_{\frac{1}{4}$	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	
$ \begin{array}{c c} 0 \\ 1 \\ \hline \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 40 & Im\bar{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	0 1 Class i 0 0 0 1 0 1 0 1 0	0 1 iffication = 2 <sup>110</sup> 0 0 0 0 0 0 0 0 0	$ \begin{array}{c} 2\frac{110}{4}\frac{1}{40}*\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1 \end{array} $	$ \frac{\bar{4}_{\frac{1}{4}\frac{1}{4}0}^{010}}{0} * \frac{\bar{4}_{\frac{1}{4}\frac{1}{4}0}^{010}}{0} * \frac{\bar{3}_{\frac{1}{4}\frac{1}{4}0}}{0} * \frac{\bar{3}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}0}}{0} * \frac{\bar{3}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}}}{\frac{22}{55}} \frac{\bar{6}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}}}{\frac{55}{66}} \frac{\bar{6}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}}{\frac{55}{66}\frac{1}{6}} \frac{\bar{6}_{\frac{1}{4}$	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \end{array} $ $ SI = z_8 \\ Cm_{(4)}^{001} \\ \hline 88 \\ \hline 44 \\ \hline 44 \\ \hline 11 \\ 22 \\ \hline 33 \\ \hline 44 \\ \hline 55 \\ \hline 66 \\ 77 $	
$ \begin{array}{c c} 0 \\ 1 \\ \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 40 & Im\bar{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ Im'\bar{3}'m \end{array} $	0 1 Class i 0 0 0 1 0 1 0 1 0 1 Class	0 1 iffication = 2 <sup>110</sup> 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c} 2\frac{110}{4}\frac{1}{40} * \\ 0 \\ 1 \\ \hline = \mathbb{Z}_{M}^{2} \\ \hline 4^{100} \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \end{array} $	$\begin{array}{c} \overline{4_{\frac{1}{4},\frac{1}{4}0}^{010}} * \\ 0 \\ 0 \\ \overline{X}_{BS} = \overline{Z}_{8} \\ \overline{C} m_{(2)}^{011} \\ 8\overline{8} \\ \overline{22} \\ \overline{66} \\ 1\overline{1} \\ 2\overline{2} \\ 3\overline{3} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ 7\overline{7} \\ \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \end{array} $ $ SI = z_8 \\ Cm_{(4)}^{001} \\ \hline 88 \\ \hline 44 \\ \hline 44 \\ \hline 11 \\ 22 \\ \hline 33 \\ \hline 44 \\ \hline 55 \\ \hline 66 \\ 77 $	
$\begin{bmatrix} 0 \\ 1 \end{bmatrix}$ $\begin{bmatrix} \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \end{bmatrix}$ $\begin{bmatrix} 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \end{bmatrix}$	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 229.142 3 <sup>111</sup>	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 40 & Im\bar{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	0 1 Class i 0 0 0 1 0 1 0 1 0 1 Class i i	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c} 2\frac{110}{4}\frac{1}{40} \\ 0 \\ 1 \\ \hline                                $	$\begin{array}{c} \overline{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*\\ \hline 0\\ 0\\ X_{\rm BS} = \mathbb{Z}_{8} \\ \hline Cm_{(2)}^{011}\\ \hline 8\overline{8}\\ \hline 2\overline{2}\\ \hline 6\overline{6}\\ \hline 1\overline{1}\\ \hline 2\overline{2}\\ \hline 3\overline{3}\\ \hline 4\overline{4}\\ \hline 5\overline{5}\\ \hline 6\overline{6}\\ \hline 7\overline{7}\\ \hline X_{\rm BS} = \mathbb{Z}_{2} \\ \hline Cm_{(0)}^{011}\\ \hline \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \end{array} $ $ SI = z_8 \\ Cm_{(4)}^{001} \\ \hline 88 \\ \hline 44 \\ \hline 44 \\ \hline 11 \\ 22 \\ \hline 33 \\ \hline 44 \\ \hline 55 \\ \hline 66 \\ 77 $	
$\begin{bmatrix} 0 \\ 1 \end{bmatrix}$ $\begin{bmatrix} \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \end{bmatrix}$ $\begin{bmatrix} 6 \\ 1 \\ 4 \\ 7 \\ 2 \end{bmatrix}$ $\begin{bmatrix} 5 \\ \end{bmatrix}$	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 229.142 3 <sup>111</sup>	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 40 & Im\bar{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	0 1 Class i 0 0 0 1 1 0 1 0 1 Classi i* 0	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c c} 2\frac{110}{4}\frac{1}{40} & \times \\ 0 & 1 \\ \hline  & 2\frac{1}{4}\frac{1}{40} & \times \\ 0 & 1 \\ \hline  & 0 \\ 0 & 0 \\ 0 & 1 \\ 0 & 1 \\ \hline  & 0 \\ 0 & 1 \\ \hline  & 0 \\ \hline  \\ $	$\begin{array}{c} \overline{4_{\frac{1}{4}\frac{1}{4}0}^{010}} * \\ 0 \\ 0 \\ \overline{X_{\text{BS}}} = \mathbb{Z}_{8} \\ \overline{Cm_{(2)}^{011}} \\ 8\overline{8} \\ \overline{22} \\ \overline{66} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ 7\overline{7} \\ \overline{X_{\text{BS}}} = \mathbb{Z}_{2} \\ \overline{X_{\text{C}}} \\ \overline{Cm_{(0)}^{011}} \\ \overline{22} \\ \end{array}$	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \end{array} $ $ SI = z_8 \\ Cm_{(4)}^{001} \\ \hline 88 \\ \hline 44 \\ \hline 44 \\ \hline 11 \\ 22 \\ \hline 33 \\ \hline 44 \\ \hline 55 \\ \hline 66 \\ 77 $	
$ \begin{array}{c} 0 \\ 1 \\ \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 0 $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 10 \\ \hline Im \overline{3}m \\ 4^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	0 1 Class i 0 0 0 1 1 0 1 0 1 1 0 1 Classi i* 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c} 2\frac{110}{4}\frac{1}{40} \times \\ 0 \\ 1 \\ \hline                                $	$\begin{array}{c} \overline{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*\\ \hline 0\\ \hline 0\\ \hline \\ X_{\rm BS} = \mathbb{Z}_8\\ \hline Cm_{(2)}^{011}\\ \hline 88\\ \hline \overline{2}2\\ \hline 66\\ \hline 1\overline{1}\\ \hline 2\overline{2}\\ \hline 33\\ \hline 4\overline{4}\\ \hline 5\overline{5}\\ \hline 66\\ \hline 7\overline{7}\\ \hline \\ X_{\rm BS} = \mathbb{Z}_2\\ \hline Cm_{(0)}^{011}\\ \hline 2\overline{2}\\ \hline \\ 2\overline{2}\\ \hline \\ 2\overline{2}\\ \hline \end{array}$	$ \begin{array}{c} 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	
$ \begin{array}{c} 0 \\ 1 \\ \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ 1 \\ \hline 229.14 \\ 3^{111} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\$	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 40 & Im \overline{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	0 1 Class i 0 0 0 1 0 1 0 1 1 Classi i* 0 0 0 Classi	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$ \begin{array}{c c} 2\frac{110}{4}\frac{1}{40} \times \\ 0 \\ 1 \\ \hline                                $	$\begin{array}{c} \overline{4_{\frac{1}{4}\frac{1}{4}0}^{010}} * \\ 0 \\ 0 \\ \overline{X}_{BS} = \mathbb{Z}_8 \\ \underline{C}m_{(2)}^{011} \\ \underline{88} \\ \underline{22} \\ \underline{66} \\ 1\overline{1} \\ \underline{22} \\ \underline{33} \\ \underline{44} \\ \underline{55} \\ \underline{66} \\ 7\overline{7} \\ \underline{X}_{BS} = \mathbb{Z}_2 \\ \underline{C}m_{(0)}^{011} \\ \underline{22} \\ \underline{22} \\ \underline{11} \\ \underline{X}_{BS} = \mathbb{Z}_4 \\ \underline{S} \\$	$ \begin{array}{c} 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	
$ \begin{array}{c} 0 \\ 1 \\  \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \\  \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \mathbb{Z}_4 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 40 & Im\bar{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline Im'\bar{3}'m \\ 4^{100}* \\ \hline 0 \\ 0 \\ 1 \\ \hline 3 & Im\bar{3}m' \\ 4^{100}* \\ \end{array} $	$ \begin{array}{c} 0 \\ 1 \\ \hline Class \\ i \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ Class \\ i \\ i \\ class \\ i \\ i \\ class \\ clas$	$\begin{array}{c} 0 \\ 1 \\ \hline 1 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 2\frac{110}{4}\frac{1}{40}*\\ 2\frac{110}{4}\frac{1}{40}*\\ 0\\ 1\\ \hline 2\\ \hline 4^{100}\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \hline 2\\ M\\ \hline 4^{100}\\ 0\\ 0\\ 1\\ \hline 2\\ M\\ \hline 4^{100}*\\ \end{array}$	$\begin{array}{c} \overline{4_{\frac{1}{4}\frac{1}{4}0}^{010}} * \\ 0 \\ 0 \\ \overline{X}_{BS} = \mathbb{Z}_8 \\ \underline{C} \\ \underline{R}_{(2)} \\ 88 \\ \underline{22} \\ \overline{66} \\ 1\overline{1} \\ \underline{22} \\ 3\overline{3} \\ \underline{44} \\ \underline{55} \\ \underline{66} \\ 7\overline{7} \\ \underline{C}_{BS} = \mathbb{Z}_2 \\ \underline{C} \\ \underline{C}$	$\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $SI = z_8\\ Cm_{(4)}^{001}\\ 88\\ \hline 44\\ \hline 44\\ \hline 1\overline{1}\\ 2\overline{2}\\ 3\overline{3}\\ \hline 4\overline{4}\\ \hline 5\overline{5}\\ \overline{66}\\ 7\overline{7}\\ I = z_2, s_4\\ \end{array}$ $SI = z_{4P}'\\ Cm_{(2)}^{001}$	
$ \begin{array}{c} 0 \\ 1 \\ \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \mathbb{Z}_4 \\ 0 \\ 0 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{matrix} 0 \\ 1 \\ 229.14 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 229.142 \\ 3^{111} \\ 0 \\ 0 \\ 229.145 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 10 & Im\bar{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline 1 \\ 3 & Im\bar{3}m' \\ 4^{100}* \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	0 1 Class i 0 0 0 1 1 0 1 0 1 1 0 1 Classi i* 0 0 Classi i 0 0	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\frac{110}{4}\frac{1}{40}*\\ 0\\ 1\\ \hline 1\\ \hline 2\\ \hline 4^{100}\\ 0\\ 0\\ 0\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ \hline 2\\ \hline M\\ 4^{100}\\ X\\ \hline 4^{100}*\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} \overline{4_{\frac{1}{4},\frac{1}{4}0}^{010}} * \\ 0 \\ 0 \\ \overline{X}_{\mathrm{BS}} = \overline{\mathbb{Z}}_{8} \\ \overline{Cm_{(2)}^{011}} \\ 88 \\ \overline{22} \\ \overline{66} \\ 1\overline{1} \\ 2\overline{2} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ 7\overline{7} \\ \overline{X}_{\mathrm{BS}} = \overline{\mathbb{Z}}_{2} \\ \overline{Cm_{(01)}^{011}} \\ \overline{22} \\ \overline{22} \\ \overline{11} \\ \overline{X}_{\mathrm{BS}} = \overline{\mathbb{Z}}_{4} \\ \overline{S} \\ \overline{m_{101}*} \\ 0 \\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ \end{array}$ $\begin{array}{c} 0\\ 0\\ \end{array}$ $\begin{array}{c} SI = z_8\\ Cm_{(4)}^{001}\\ \hline 88\\ \hline 44\\ \hline 44\\ \hline 1\overline{1}\\ \hline 2\overline{2}\\ \hline 3\overline{3}\\ \hline 4\overline{4}\\ \hline 5\overline{5}\\ \hline 6\overline{6}\\ \hline 7\overline{7}\\ \end{array}$ $\begin{array}{c} 1\\ I = z_2, s_4\\ \hline \end{array}$ $\begin{array}{c} SI = z_{4P}'\\ Cm_{(2)}^{001}\\ \hline 4\overline{4}\\ \end{array}$	
$ \begin{array}{c} 0 \\ 1 \\ \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \\ \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \mathbb{Z}_4 \\ 0 \\ 0 \\ 0 \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ 1 \\ \hline 229.14 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 229.142 \\ 3^{111} \\ 0 \\ 0 \\ \hline 229.145 \\ 3^{111} \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 10 & Im\bar{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline Im'\bar{3}'m \\ 4^{100}* \\ \hline 0 \\ 0 \\ 1 \\ 3 & Im\bar{3}m' \\ 4^{100}* \\ \hline 0 \\ 0 \\ 0 \end{array} $	Class  i 0 0 0 1 Class  i 0 0 1 0 1 0 1 0 1 Classi  i* 0 0 Classi i 0 0	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\frac{110}{4}\frac{1}{40} \\ 0 \\ 1 \\ \hline 1 \\ \hline 2 \\ \hline 2 \\ \hline 4^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 0 \\ 1 \\ \hline 2 \\ \hline M \\ \hline X \\ \hline 4^{100} \\ 0 \\ \hline 0 \\ 1 \\ \hline \hline 2 \\ M \\ \hline X \\ \hline 4^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$\begin{array}{c} \overline{4}_{\frac{1}{4}\frac{1}{4}0}^{110}* \\ 0 \\ 0 \\ \overline{X}_{\mathrm{BS}} = \mathbb{Z}_{8} \\ \overline{C}m_{(2)}^{011} \\ \overline{88} \\ \overline{22} \\ \overline{66} \\ \overline{11} \\ \overline{22} \\ \overline{33} \\ \overline{44} \\ \overline{55} \\ \overline{66} \\ \overline{77} \\ \overline{\zeta}_{\mathrm{BS}} = \mathbb{Z}_{2} \\ \overline{\zeta}_{\mathrm{BS}} = \mathbb{Z}_{2} \\ \overline{X}_{\mathrm{BS}} = \mathbb{Z}_{2} \\ \overline{11} \\ \overline{\zeta}_{\mathrm{BS}} = \mathbb{Z}_{4} \\ \overline{\zeta}_{\mathrm{BS}} = \mathbb{Z}_{5} \\ \overline{\zeta}_{\mathrm{BS}} = \mathbb{Z}_{5} \\ \overline{\zeta}_{\mathrm{BS}} = \mathbb{Z}_{6} \\ \overline{\zeta}_{\mathrm{BS}} = \mathbb{Z}_{7} \\ \overline{\zeta}_{\mathrm{BS}} = \mathbb{Z}_{8} \\ \overline{\zeta}_{\mathrm{BS}} = \mathbb{Z}$	$ \begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \end{array} $ $ SI = z_8 \\ Cm_{(4)}^{001} \\ 88 \\ \hline 44 \\ \hline 44 \\ \hline 11 \\ 2\overline{2} \\ 3\overline{3} \\ 4\overline{4} \\ 5\overline{5} \\ 6\overline{6} \\ 7\overline{7} $ $ I = z_2, s_4 $ $ SI = z'_{4P} \\ Cm_{(2)}^{001} \\ 4\overline{4} \\ 00 $	
$ \begin{array}{c} 0 \\ 1 \\ \hline \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \\ \hline \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \hline \mathbb{Z}_4 \\ 0 \\ 0 \\ 3 \\ 3 \\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ 1 \\ \hline 229.14 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 229.142 \\ 3^{111} \\ 0 \\ 0 \\ \hline 229.145 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 10 & Im\bar{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \hline 1 & 3 & Im\bar{3}m' \\ 4^{100}* \\ \hline 0 \\ 0 \\ 1 \\ \end{array} $	Class  i 0 0 0 1 Class  i 0 0 1 0 1 0 1 0 1 Classi  i* 0 0 Classi  i 0 0 1	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\frac{110}{4}\frac{1}{40} \\ & \\ 1 \\ \hline & \\ & \\ \hline & \\ & \\ & \\ & \\ & \\ & \\ &$	$\begin{array}{c} \overline{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*\\ \overline{4}_{\frac{1}{4}\frac{1}{4}0}^{10}*\\ 0\\ 0\\ \overline{0}\\ X_{\rm BS} = \mathbb{Z}_8 & S\\ \underline{C}m_{(1)}^{011}\\ \underline{88}\\ \underline{22}\\ \underline{66}\\ 1\overline{1}\\ \underline{22}\\ \underline{33}\\ \underline{44}\\ \underline{55}\\ \underline{66}\\ 7\overline{7}\\ \overline{C}_{\rm BS} = \mathbb{Z}_2 & S\\ \underline{C}m_{(0)}^{011}\\ \underline{22}\\ \underline{22}\\ \underline{11}\\ \overline{1}\\ \overline{X}_{\rm BS} = \mathbb{Z}_4 & S\\ \underline{m_{101}}*\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \\$	
$ \begin{array}{c} 0 \\ 1 \\ \mathbb{Z}_8 \\ 0 \\ 0 \\ 0 \\ 3 \\ 6 \\ 1 \\ 4 \\ 7 \\ 2 \\ 5 \\ \end{array} $ $ \begin{array}{c} \mathbb{Z}_2 \\ 0 \\ 0 \\ 1 \\ \end{array} $ $ \begin{array}{c} 0 \\ 0 \\ 3 \\ 2 \\ \end{array} $	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	0 1 229.14 3 <sup>111</sup> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 10 & Im\bar{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ \hline 3 & Im\bar{3}m' \\ 4^{100}* \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 1 \end{array} $	Class i 0 0 0 1 Class i 0 0 1 0 1 0 1 0 1 Classi i* 0 0 0 Classi i 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\frac{110}{4}\frac{1}{40} \times \\ 0 \\ 1 \\ \hline 1 \\ \hline 2 \\ \hline 4^{100} \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ \hline 2 \\ \hline M \\ 4^{100} \\ 0 \\ \hline 1 \\ \hline 2 \\ \hline M \\ 4^{100} \\ \hline 2 \\ \hline M \\ 4^{100} \times \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} \overline{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*\\ \overline{4}_{\frac{1}{4}\frac{1}{4}0}^{10}*\\ 0\\ 0\\ \overline{0}\\ X_{\rm BS} = \mathbb{Z}_8 & S\\ \underline{C}m_{(2)}^{011}\\ \underline{88}\\ \underline{22}\\ \overline{66}\\ \underline{11}\\ \underline{22}\\ \underline{33}\\ \underline{44}\\ \underline{55}\\ \underline{66}\\ 77\\ \overline{C}_{\rm BS} = \mathbb{Z}_2 & S\\ \underline{C}m_{(0)}^{011}\\ \underline{22}\\ \underline{22}\\ \underline{11}\\ \overline{X}_{\rm BS} = \mathbb{Z}_4 & S\\ \underline{m_{101}}*\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ \\\hline 0\\ 0\\ \\\hline 0\\ \\\hline 0\\ \\\hline 0\\ 0\\ \\\hline 0\\ \\\hline 0\\ 0\\ 0\\ \\\hline 0\\ 0\\ 0\\ 0\\ \\\hline 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	
$ \begin{array}{c c} 0 & 1 \\ \hline  & 1 \\ \hline  & 2 \\ 0 & 0 \\ \hline  & 3 \\ 6 & 1 \\ 4 & 7 \\ \hline  & 2 \\ \hline  & 5 \\ \hline  & 2 \\ \hline  & 0 \\ 0 & 1 \\ \hline  & 2 \\ \hline  & 0 \\ 0 & 3 \\ \hline  & 4 \\ \hline  & 4 \\ \hline  & 7 \\ \hline  & 2 \\ \hline  & 5 \\ \hline  & 0 \\ \hline  & 3 \\ \hline  & 0 \\$	(000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000) (000)	$\begin{array}{c} 0 \\ 1 \\ \hline 229.14 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 229.142 \\ 3^{111} \\ 0 \\ 0 \\ \hline 229.145 \\ 3^{111} \\ 0 \\ 0 \\ 0 \\ \end{array}$	$ \begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 10 & Im\bar{3}m \\ 4^{100} \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 1 \end{array} $ $ \begin{array}{c c} \hline 1 & 3 & Im\bar{3}m' \\ 4^{100}* \\ \hline 0 \\ 0 \\ 1 \\ \end{array} $	Class  i 0 0 0 1 Class  i 0 0 1 0 1 0 1 0 1 Classi  i* 0 0 Classi  i 0 0 1	$ \begin{array}{c} 0 \\ 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2\frac{110}{4}\frac{1}{40} \\ & \\ 1 \\ \hline & \\ & \\ \hline & \\ & \\ & \\ & \\ & \\ & \\ &$	$\begin{array}{c} \overline{4}_{\frac{1}{4}\frac{1}{4}0}^{010}*\\ \overline{4}_{\frac{1}{4}\frac{1}{4}0}^{10}*\\ 0\\ 0\\ \overline{0}\\ X_{\rm BS} = \mathbb{Z}_8 & S\\ \underline{C}m_{(1)}^{011}\\ \underline{88}\\ \underline{22}\\ \underline{66}\\ 1\overline{1}\\ \underline{22}\\ \underline{33}\\ \underline{44}\\ \underline{55}\\ \underline{66}\\ 7\overline{7}\\ \overline{C}_{\rm BS} = \mathbb{Z}_2 & S\\ \underline{C}m_{(0)}^{011}\\ \underline{22}\\ \underline{22}\\ \underline{11}\\ \overline{1}\\ \overline{X}_{\rm BS} = \mathbb{Z}_4 & S\\ \underline{m_{101}}*\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ 0 \\ \hline 0 \\ 0 \\$	

$\mathbb{Z}_2$	weak	3 <sup>111</sup>	$4^{100}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	i	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$\bar{4}^{100}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}$	$g^{101}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	_
0	(000)	0	0	0	0	0	0	
1	(000)	0	0	1	0	1	1	
-		230.1		Class	ification =	$\mathbb{Z}_2$ $X_{BS}$	$S_{\mathrm{S}}=\mathbb{Z}_{2}\mathrm{SI}=z_{2,S_{4}}$	_
$\mathbb{Z}_2$	weak	3111	$4^{100}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	i*	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$\bar{4}^{100}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	$g^{101}_{rac{1}{4}rac{1}{4}rac{1}{4}}$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	0	1	1	1	
		230.		Class	sification =	$\mathbb{Z}_2$ $X_B$	$_{ ext{S}}=\mathbb{Z}_{2} ext{SI}=z_{2P}^{\prime}$	_
$\mathbb{Z}_2$	weak	3111	$4^{100}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	i	$2^{110}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$\bar{4}^{100}_{\frac{1}{4}\frac{1}{4}\frac{1}{4}}*$	$g_{rac{1}{4}rac{1}{4}rac{1}{4}}^{101}*$	
0	(000)	0	0	0	0	0	0	
1	(000)	0	1	1	1	0	0	