

1	P1	1	$(1   0 0 0)$
2	$\bar{P1}$	$\bar{1}$	$(\bar{1}   0 0 0)$
3	P2	2	$(2_y   0 0 0)$
4	$P_{2_1}$	$2_1$	$(2_y   0 1/2 0)$
5	C2	2	$(2_y   0 0 0)$
6	Pm	m	$(m_y   0 0 0)$
7	Pc	c	$(m_y   0 0 1/2)$
8	Cm	m	$(m_y   0 0 0)$
9	Cc	c	$(m_y   0 0 1/2)$
10	$P2/m$	2	$(2_y   0 0 0)$
		/	$(1   0 0 0)$
		m	$(m_y   0 0 0)$
11	$P_{2_1}/m$	$2_1$	$(2_y   0 1/2 0)$
		/	$(1   0 0 0)$
		m	$(m_y   0 1/2 0)$
12	$C2/m$	2	$(2_y   0 0 0)$
		/	$(1   0 0 0)$
		m	$(m_y   0 0 0)$
13	$P2/c$	2	$(2_y   0 0 1/2)$
		/	$(1   0 0 0)$
		c	$(m_y   0 0 1/2)$
14	$P_{2_1}/c$	$2_1$	$(2_y   0 1/2 1/2)$
		/	$(1   0 0 0)$
		c	$(m_y   0 1/2 1/2)$
15	$C2/c$	2	$(2_y   0 0 1/2)$
		/	$(1   0 0 0)$
		c	$(m_y   0 0 1/2)$
16	$P222$	2	$(2_x   0 0 0)$
		2	$(2_y   0 0 0)$
		2	$(2_z   0 0 0)$
17	$P222_{1_1}$	2	$(2_x   0 0 0)$
		2	$(2_y   0 0 1/2)$
		$2_1$	$(2_z   0 0 1/2)$
18	$P_{2_1}2_{1_2}$	$2_1$	$(2_x   1/2 1/2 0)$
		$2_1$	$(2_y   1/2 1/2 0)$
		2	$(2_z   0 0 0)$

		$2_1$	$(2_x   1/2 \ 1/2 \ 0)$
19	P <sub>2</sub> 12 <sub>1</sub> 2 <sub>1</sub>	$2_1$	$(2_y   0 \ 1/2 \ 1/2)$
		$2_1$	$(2_z   1/2 \ 0 \ 1/2)$
20	C222 <sub>1</sub>	2	$(2_x   0 \ 0 \ 0)$
		2	$(2_y   0 \ 0 \ 1/2)$
		$2_1$	$(2_z   0 \ 0 \ 1/2)$
21	C222	2	$(2_x   0 \ 0 \ 0)$
		2	$(2_y   0 \ 0 \ 0)$
		2	$(2_z   0 \ 0 \ 0)$
22	F222	2	$(2_x   0 \ 0 \ 0)$
		2	$(2_y   0 \ 0 \ 0)$
		2	$(2_z   0 \ 0 \ 0)$
23	I222	2	$(2_x   0 \ 0 \ 0)$
		2	$(2_y   0 \ 0 \ 0)$
		2	$(2_z   0 \ 0 \ 0)$
24	I <sub>2</sub> 12 <sub>1</sub> 2 <sub>1</sub>	$2_1$	$(2_x   1/2 \ 1/2 \ 0)$
		$2_1$	$(2_y   0 \ 1/2 \ 1/2)$
		$2_1$	$(2_z   1/2 \ 0 \ 1/2)$
25	Pmm2	m	$(m_x   0 \ 0 \ 0)$
		m	$(m_y   0 \ 0 \ 0)$
		2	$(2_z   0 \ 0 \ 0)$
26	Pmc2 <sub>1</sub>	m	$(m_x   0 \ 0 \ 0)$
		c	$(m_y   0 \ 0 \ 1/2)$
		$2_1$	$(2_z   0 \ 0 \ 1/2)$
27	Pcc2	c	$(m_x   0 \ 0 \ 1/2)$
		c	$(m_y   0 \ 0 \ 1/2)$
		2	$(2_z   0 \ 0 \ 0)$
28	Pma2	m	$(m_x   1/2 \ 0 \ 0)$
		a	$(m_y   1/2 \ 0 \ 0)$
		2	$(2_z   0 \ 0 \ 0)$
29	Pca2 <sub>1</sub>	c	$(m_x   1/2 \ 0 \ 1/2)$
		a	$(m_y   1/2 \ 0 \ 0)$
		$2_1$	$(2_z   0 \ 0 \ 1/2)$
30	Pnc2	n	$(m_x   0 \ 1/2 \ 1/2)$
		c	$(m_y   0 \ 1/2 \ 1/2)$
		2	$(2_z   0 \ 0 \ 0)$
31	Pmn2 <sub>1</sub>	m	$(m_x   0 \ 0 \ 0)$
		n	$(m_y   1/2 \ 0 \ 1/2)$
		$2_1$	$(2_z   1/2 \ 0 \ 1/2)$

32	Pba2	b a 2	(m <sub>x</sub>   1/2 1/2 0) (m <sub>y</sub>   1/2 1/2 0) (2 <sub>z</sub>   0 0 0)
33	Pna2 <sub>1</sub>	n a 2 <sub>1</sub>	(m <sub>x</sub>   1/2 1/2 1/2) (m <sub>y</sub>   1/2 1/2 0) (2 <sub>z</sub>   0 0 1/2)
34	Pnn2	n n 2	(m <sub>x</sub>   1/2 1/2 1/2) (m <sub>y</sub>   1/2 1/2 1/2) (2 <sub>z</sub>   0 0 0)
35	Cmm2	m m 2	(m <sub>x</sub>   0 0 0) (m <sub>y</sub>   0 0 0) (2 <sub>z</sub>   0 0 0)
36	Cmc2 <sub>1</sub>	m c 2 <sub>1</sub>	(m <sub>x</sub>   0 0 0) (m <sub>y</sub>   0 0 1/2) (2 <sub>z</sub>   0 0 1/2)
37	Ccc2	c c 2	(m <sub>x</sub>   0 0 1/2) (m <sub>y</sub>   0 0 1/2) (2 <sub>z</sub>   0 0 0)
38	Amm2	m m 2	(m <sub>x</sub>   0 0 0) (m <sub>y</sub>   0 0 0) (2 <sub>z</sub>   0 0 0)
39	Abm2	b m 2	(m <sub>x</sub>   0 1/2 0) (m <sub>y</sub>   0 1/2 0) (2 <sub>z</sub>   0 0 0)
40	Ama2	m a 2	(m <sub>x</sub>   1/2 0 0) (m <sub>y</sub>   1/2 0 0) (2 <sub>z</sub>   0 0 0)
41	Aba2	b a 2	(m <sub>x</sub>   1/2 1/2 0) (m <sub>y</sub>   1/2 1/2 0) (2 <sub>z</sub>   0 0 0)
42	Fmm2	m m 2	(m <sub>x</sub>   0 0 0) (m <sub>y</sub>   0 0 0) (2 <sub>z</sub>   0 0 0)
43	Fdd2	d d 2	(m <sub>x</sub>   1/4 1/4 1/4) (m <sub>y</sub>   1/4 1/4 1/4) (2 <sub>z</sub>   0 0 0)
44	Imm2	m m 2	(m <sub>x</sub>   0 0 0) (m <sub>y</sub>   0 0 0) (2 <sub>z</sub>   0 0 0)

45	Iba2	b	$(m_x   1/2 \ 1/2 \ 0)$
		a	$(m_y   1/2 \ 1/2 \ 0)$
		2	$(2_z   0 \ 0 \ 0)$
46	Ima2	m	$(m_x   1/2 \ 0 \ 0)$
		a	$(m_y   1/2 \ 0 \ 0)$
		2	$(2_z   0 \ 0 \ 0)$
47	Pmmm	m	$(m_x   0 \ 0 \ 0)$
		m	$(m_y   0 \ 0 \ 0)$
		m	$(m_z   0 \ 0 \ 0)$
48	Pnnn	n	$(m_x   0 \ 1/2 \ 1/2)$
		n	$(m_y   1/2 \ 0 \ 1/2)$
		n	$(m_z   1/2 \ 1/2 \ 0)$
49	Pccm	c	$(m_x   0 \ 0 \ 1/2)$
		c	$(m_y   0 \ 0 \ 1/2)$
		m	$(m_z   0 \ 0 \ 0)$
50	Pban	b	$(m_x   0 \ 1/2 \ 0)$
		a	$(m_y   1/2 \ 0 \ 0)$
		n	$(m_z   1/2 \ 1/2 \ 0)$
51	Pmma	m	$(m_x   1/2 \ 0 \ 0)$
		m	$(m_y   0 \ 0 \ 0)$
		a	$(m_z   1/2 \ 0 \ 0)$
52	Pnna	n	$(m_x   0 \ 1/2 \ 1/2)$
		n	$(m_y   1/2 \ 1/2 \ 1/2)$
		a	$(m_z   1/2 \ 0 \ 0)$
53	Pmna	m	$(m_x   0 \ 0 \ 0)$
		n	$(m_y   1/2 \ 0 \ 1/2)$
		a	$(m_z   1/2 \ 0 \ 1/2)$
54	Pcca	c	$(m_x   1/2 \ 0 \ 1/2)$
		c	$(m_y   0 \ 0 \ 1/2)$
		a	$(m_z   1/2 \ 0 \ 0)$
55	Pbam	b	$(m_x   1/2 \ 1/2 \ 0)$
		a	$(m_y   1/2 \ 1/2 \ 0)$
		m	$(m_z   0 \ 0 \ 0)$
56	Pccn	c	$(m_x   1/2 \ 0 \ 1/2)$
		c	$(m_y   0 \ 1/2 \ 1/2)$
		n	$(m_z   1/2 \ 1/2 \ 0)$
57	Pbcm	b	$(m_x   0 \ 1/2 \ 0)$
		c	$(m_y   0 \ 1/2 \ 1/2)$
		m	$(m_z   0 \ 0 \ 1/2)$

58	Pnnm	n n m	(m <sub>x</sub>   1/2 1/2 1/2) (m <sub>y</sub>   1/2 1/2 1/2) (m <sub>z</sub>   0 0 0)
59	Pmmn	m m n	(m <sub>x</sub>   1/2 0 0) (m <sub>y</sub>   0 1/2 0) (m <sub>z</sub>   1/2 1/2 0)
60	Pbcn	b c n	(m <sub>x</sub>   1/2 1/2 0) (m <sub>y</sub>   0 0 1/2) (m <sub>z</sub>   1/2 1/2 1/2)
61	Pbca	b c a	(m <sub>x</sub>   1/2 1/2 0) (m <sub>y</sub>   0 1/2 1/2) (m <sub>z</sub>   1/2 0 1/2)
62	Pnma	n m a	(m <sub>x</sub>   1/2 1/2 1/2) (m <sub>y</sub>   0 1/2 0) (m <sub>z</sub>   1/2 0 1/2)
63	Cmcm	m c m	(m <sub>x</sub>   0 0 0) (m <sub>y</sub>   0 0 1/2) (m <sub>z</sub>   0 0 1/2)
64	Cmca	m c a	(m <sub>x</sub>   0 0 0) (m <sub>y</sub>   0 1/2 1/2) (m <sub>z</sub>   1/2 0 1/2)
65	Cmmm	m m m	(m <sub>x</sub>   0 0 0) (m <sub>y</sub>   0 0 0) (m <sub>z</sub>   0 0 0)
66	Cccm	c c m	(m <sub>x</sub>   0 0 1/2) (m <sub>y</sub>   0 0 1/2) (m <sub>z</sub>   0 0 0)
67	Cmma	m m a	(m <sub>x</sub>   0 0 0) (m <sub>y</sub>   0 1/2 0) (m <sub>z</sub>   1/2 0 0)
68	Ccca	c c a	(m <sub>x</sub>   1/2 0 1/2) (m <sub>y</sub>   0 0 1/2) (m <sub>z</sub>   1/2 0 0)
69	Fmmm	m m m	(m <sub>x</sub>   0 0 0) (m <sub>y</sub>   0 0 0) (m <sub>z</sub>   0 0 0)
70	Fddd	d d d	(m <sub>x</sub>   0 1/4 1/4) (m <sub>y</sub>   1/4 0 1/4) (m <sub>z</sub>   1/4 1/4 0)

71	Immm	m m m	(m <sub>x</sub>   0 0 0) (m <sub>y</sub>   0 0 0) (m <sub>z</sub>   0 0 0)
72	Ibam	b a m	(m <sub>x</sub>   1/2 1/2 0) (m <sub>y</sub>   1/2 1/2 0) (m <sub>z</sub>   0 0 0)
73	Ibca	b c a	(m <sub>x</sub>   1/2 1/2 0) (m <sub>y</sub>   0 1/2 1/2) (m <sub>z</sub>   1/2 0 1/2)
74	Imma	m m a	(m <sub>x</sub>   0 0 0) (m <sub>y</sub>   0 1/2 0) (m <sub>z</sub>   1/2 0 1/2)
75	P4	4	(4 <sub>z</sub>   0 0 0)
76	P4 <sub>1</sub>	4 <sub>1</sub>	(4 <sub>z</sub>   0 0 1/4)
77	P4 <sub>2</sub>	4 <sub>2</sub>	(4 <sub>z</sub>   0 0 1/2)
78	P4 <sub>3</sub>	4 <sub>3</sub>	(4 <sub>z</sub>   0 0 3/4)
79	I4	4	(4 <sub>z</sub>   0 0 0)
80	I4 <sub>1</sub>	4 <sub>1</sub>	(4 <sub>z</sub>   0 1/2 1/4)
81	P4̄	4̄	(4̄ <sub>z</sub>   0 0 0)
82	I4̄	4̄	(4̄ <sub>z</sub>   0 0 0)
83	P4/m	4 / m	(4 <sub>z</sub>   0 0 0)   (1   0 0 0)   (m <sub>z</sub>   0 0 0)
84	P4 <sub>2</sub> /m	4 <sub>2</sub> / m	(4 <sub>z</sub>   0 0 1/2)   (1   0 0 0)   (m <sub>z</sub>   0 0 0)
85	P4/n	4 / n	(4 <sub>z</sub>   1/2 0 0)   (1   0 0 0)   (m <sub>z</sub>   1/2 1/2 0)
86	P4 <sub>2</sub> /n	4 <sub>2</sub> / n	(4 <sub>z</sub>   0 1/2 1/2)   (1   0 0 0)   (m <sub>z</sub>   1/2 1/2 0)
87	I4/m	4 / m	(4 <sub>z</sub>   0 0 0)   (1   0 0 0)   (m <sub>z</sub>   0 0 0)
88	I4 <sub>1</sub> /a	4 <sub>1</sub> / a	(4 <sub>z</sub>   3/4 1/4 1/4)   (1   0 0 0)   (m <sub>z</sub>   1/2 0 1/2)

89	P422	4 2 2	(4 <sub>z</sub>   0 0 0) (2 <sub>x</sub>   0 0 0) (2 <sub>xy</sub>   0 0 0)
90	P42 <sub>1</sub> 2	4 2 <sub>1</sub> 2	(4 <sub>z</sub>   1/2 1/2 0) (2 <sub>x</sub>   1/2 1/2 0) (2 <sub>xy</sub>   0 0 0)
91	P4 <sub>1</sub> 22	4 <sub>1</sub> 2 2	(4 <sub>z</sub>   0 0 1/4) (2 <sub>x</sub>   0 0 1/2) (2 <sub>xy</sub>   0 0 3/4)
92	P4 <sub>1</sub> 2 <sub>1</sub> 2	4 <sub>1</sub> 2 <sub>1</sub> 2	(4 <sub>z</sub>   1/2 1/2 1/4) (2 <sub>x</sub>   1/2 1/2 3/4) (2 <sub>xy</sub>   0 0 0)
93	P4 <sub>2</sub> 22	4 <sub>2</sub> 2 2	(4 <sub>z</sub>   0 0 1/2) (2 <sub>x</sub>   0 0 0) (2 <sub>xy</sub>   0 0 1/2)
94	P4 <sub>2</sub> 2 <sub>1</sub> 2	4 <sub>2</sub> 2 <sub>1</sub> 2	(4 <sub>z</sub>   1/2 1/2 1/2) (2 <sub>x</sub>   1/2 1/2 1/2) (2 <sub>xy</sub>   0 0 0)
95	P4 <sub>3</sub> 22	4 <sub>3</sub> 2 2	(4 <sub>z</sub>   0 0 3/4) (2 <sub>x</sub>   0 0 1/2) (2 <sub>xy</sub>   0 0 1/4)
96	P4 <sub>3</sub> 2 <sub>1</sub> 2	4 <sub>3</sub> 2 <sub>1</sub> 2	(4 <sub>z</sub>   1/2 1/2 3/4) (2 <sub>x</sub>   1/2 1/2 1/4) (2 <sub>xy</sub>   0 0 0)
97	I422	4 2 2	(4 <sub>z</sub>   0 0 0) (2 <sub>x</sub>   0 0 0) (2 <sub>xy</sub>   0 0 0)
98	I4 <sub>1</sub> 22	4 <sub>1</sub> 2 2	(4 <sub>z</sub>   0 1/2 1/4) (2 <sub>x</sub>   0 1/2 1/4) (2 <sub>xy</sub>   0 0 0)
99	P4mm	4 m m	(4 <sub>z</sub>   0 0 0) (m <sub>x</sub>   0 0 0) (m <sub>xy</sub>   0 0 0)
100	P4bm	4 b m	(4 <sub>z</sub>   0 0 0) (m <sub>x</sub>   1/2 1/2 0) (m <sub>xy</sub>   1/2 1/2 0)
101	P4 <sub>2</sub> cm	4 <sub>2</sub> c m	(4 <sub>z</sub>   0 0 1/2) (m <sub>x</sub>   0 0 1/2) (m <sub>xy</sub>   0 0 0)

102	P4 <sub>2</sub> nm	4 <sub>2</sub> n m	(4 <sub>z</sub>   1/2 1/2 1/2) (m <sub>x</sub>   1/2 1/2 1/2) (m <sub>xy</sub>   0 0 0)
103	P4cc	4 c c	(4 <sub>z</sub>   0 0 0) (m <sub>x</sub>   0 0 1/2) (m <sub>xy</sub>   0 0 1/2)
104	P4nc	4 n c	(4 <sub>z</sub>   0 0 0) (m <sub>x</sub>   1/2 1/2 1/2) (m <sub>xy</sub>   1/2 1/2 1/2)
105	P4 <sub>2</sub> mc	4 <sub>2</sub> m c	(4 <sub>z</sub>   0 0 1/2) (m <sub>x</sub>   0 0 0) (m <sub>xy</sub>   0 0 1/2)
106	P4 <sub>2</sub> bc	4 <sub>2</sub> b c	(4 <sub>z</sub>   0 0 1/2) (m <sub>x</sub>   1/2 1/2 0) (m <sub>xy</sub>   1/2 1/2 1/2)
107	I4mm	4 m m	(4 <sub>z</sub>   0 0 0) (m <sub>x</sub>   0 0 0) (m <sub>xy</sub>   0 0 0)
108	I4cm	4 c m	(4 <sub>z</sub>   0 0 0) (m <sub>x</sub>   0 0 1/2) (m <sub>xy</sub>   1/2 1/2 0)
109	I4 <sub>1</sub> md	4 <sub>1</sub> m d	(4 <sub>z</sub>   0 1/2 1/4) (m <sub>x</sub>   0 0 0) (m <sub>xy</sub>   1/2 0 3/4)
110	I4 <sub>1</sub> cd	4 <sub>1</sub> c d	(4 <sub>z</sub>   0 1/2 1/4) (m <sub>x</sub>   0 0 1/2) (m <sub>xy</sub>   0 1/2 3/4)
111	P $\bar{4}$ 2m	4 2 m	( $\bar{4}_z$   0 0 0) (2 <sub>x</sub>   0 0 0) (m <sub>xy</sub>   0 0 0)
112	P $\bar{4}$ 2c	4 2 c	( $\bar{4}_z$   0 0 0) (2 <sub>x</sub>   0 0 1/2) (m <sub>xy</sub>   0 0 1/2)
113	P $\bar{4}$ 2 <sub>1</sub> m	4 2 <sub>1</sub> m	( $\bar{4}_z$   0 0 0) (2 <sub>x</sub>   1/2 1/2 0) (m <sub>xy</sub>   1/2 1/2 0)
114	P $\bar{4}$ 2 <sub>1</sub> c	4 2 <sub>1</sub> c	( $\bar{4}_z$   0 0 0) (2 <sub>x</sub>   1/2 1/2 1/2) (m <sub>xy</sub>   1/2 1/2 1/2)

115	P $\bar{4}$ m2	4 m 2	( $\bar{4}_z$   0 0 0) (m <sub>x</sub>   0 0 0) (2 <sub>xy</sub>   0 0 0)
116	P $\bar{4}$ c2	$\bar{4}$ c 2	( $\bar{4}_z$   0 0 0) (m <sub>x</sub>   0 0 1/2) (2 <sub>xy</sub>   0 0 1/2)
117	P $\bar{4}$ b2	$\bar{4}$ b 2	( $\bar{4}_z$   0 0 0) (m <sub>x</sub>   1/2 1/2 0) (2 <sub>xy</sub>   1/2 1/2 0)
118	P $\bar{4}$ n2	$\bar{4}$ n 2	( $\bar{4}_z$   0 0 0) (m <sub>x</sub>   1/2 1/2 1/2) (2 <sub>xy</sub>   1/2 1/2 1/2)
119	I $\bar{4}$ m2	$\bar{4}$ m 2	( $\bar{4}_z$   0 0 0) (m <sub>x</sub>   0 0 0) (2 <sub>xy</sub>   0 0 0)
120	I $\bar{4}$ c2	$\bar{4}$ c 2	( $\bar{4}_z$   0 0 0) (m <sub>x</sub>   0 0 1/2) (2 <sub>xy</sub>   0 0 1/2)
121	I $\bar{4}2$ m	$\bar{4}$ 2 m	( $\bar{4}_z$   0 0 0) (2 <sub>x</sub>   0 0 0) (m <sub>xy</sub>   0 0 0)
122	I $\bar{4}2$ d	$\bar{4}$ 2 d	( $\bar{4}_z$   0 0 0) (2 <sub>x</sub>   0 1/2 1/4) (m <sub>xy</sub>   0 1/2 1/4)
123	P4/mmm	4 / m m m	(4 <sub>z</sub>   0 0 0) (1   0 0 0) (m <sub>z</sub>   0 0 0) (m <sub>x</sub>   0 0 0) (m <sub>xy</sub>   0 0 0)
124	P4/mcc	4 / m c c	(4 <sub>z</sub>   0 0 0) (1   0 0 0) (m <sub>z</sub>   0 0 0) (m <sub>x</sub>   0 0 1/2) (m <sub>xy</sub>   0 0 1/2)

		$4$	$(4_z   1/2 0 0)$
		$/$	$(1   0 0 0)$
125	P4/nbm	$n$	$(m_z   1/2 1/2 0)$
		$b$	$(m_x   0 1/2 0)$
		$m$	$(m_{xy}   0 0 0)$
		$4$	$(4_z   1/2 0 0)$
		$/$	$(1   0 0 0)$
126	P4/nnc	$n$	$(m_z   1/2 1/2 0)$
		$n$	$(m_x   0 1/2 1/2)$
		$c$	$(m_{xy}   0 0 1/2)$
		$4$	$(4_z   0 0 0)$
		$/$	$(1   0 0 0)$
127	P4/mbm	$m$	$(m_z   0 0 0)$
		$b$	$(m_x   1/2 1/2 0)$
		$m$	$(m_{xy}   1/2 1/2 0)$
		$4$	$(4_z   0 0 0)$
		$/$	$(1   0 0 0)$
128	P4/mnc	$m$	$(m_z   0 0 0)$
		$n$	$(m_x   1/2 1/2 1/2)$
		$c$	$(m_{xy}   1/2 1/2 1/2)$
		$4$	$(4_z   1/2 0 0)$
		$/$	$(1   0 0 0)$
129	P4/nmm	$n$	$(m_z   1/2 1/2 0)$
		$m$	$(m_x   1/2 0 0)$
		$m$	$(m_{xy}   1/2 1/2 0)$
		$4$	$(4_z   1/2 0 0)$
		$/$	$(1   0 0 0)$
130	P4/ncc	$n$	$(m_z   1/2 1/2 0)$
		$c$	$(m_x   1/2 0 1/2)$
		$c$	$(m_{xy}   1/2 1/2 1/2)$
		$4_2$	$(4_z   0 0 1/2)$
		$/$	$(1   0 0 0)$
131	P4 <sub>2</sub> /mmc	$m$	$(m_z   0 0 0)$
		$m$	$(m_x   0 0 0)$
		$c$	$(m_{xy}   0 0 1/2)$
		$4_2$	$(4_z   0 0 1/2)$
		$/$	$(1   0 0 0)$
132	P4 <sub>2</sub> /mcm	$m$	$(m_z   0 0 0)$
		$c$	$(m_x   0 0 1/2)$
		$m$	$(m_{xy}   0 0 0)$

		$4_2$	( $4_z   1/2 \ 0 \ 1/2$ )
		/	( $1   0 \ 0 \ 0$ )
133	P4 <sub>2</sub> /nbc	n	( $m_z   1/2 \ 1/2 \ 0$ )
		b	( $m_x   0 \ 1/2 \ 0$ )
		c	( $m_{xy}   0 \ 0 \ 1/2$ )
		$4_2$	( $4_z   1/2 \ 0 \ 1/2$ )
		/	( $1   0 \ 0 \ 0$ )
134	P4 <sub>2</sub> /nnm	n	( $m_z   1/2 \ 1/2 \ 0$ )
		n	( $m_x   0 \ 1/2 \ 1/2$ )
		m	( $m_{xy}   0 \ 0 \ 0$ )
		$4_2$	( $4_z   0 \ 0 \ 1/2$ )
		/	( $1   0 \ 0 \ 0$ )
135	P4 <sub>2</sub> /mbc	m	( $m_z   0 \ 0 \ 0$ )
		b	( $m_x   1/2 \ 1/2 \ 0$ )
		c	( $m_{xy}   1/2 \ 1/2 \ 1/2$ )
		$4_2$	( $4_z   1/2 \ 1/2 \ 1/2$ )
		/	( $1   0 \ 0 \ 0$ )
136	P4 <sub>2</sub> /mmn	m	( $m_z   0 \ 0 \ 0$ )
		n	( $m_x   1/2 \ 1/2 \ 1/2$ )
		m	( $m_{xy}   0 \ 0 \ 0$ )
		$4_2$	( $4_z   1/2 \ 0 \ 1/2$ )
		/	( $1   0 \ 0 \ 0$ )
137	P4 <sub>2</sub> /nmc	n	( $m_z   1/2 \ 1/2 \ 0$ )
		m	( $m_x   1/2 \ 0 \ 0$ )
		c	( $m_{xy}   1/2 \ 1/2 \ 1/2$ )
		$4_2$	( $4_z   1/2 \ 0 \ 1/2$ )
		/	( $1   0 \ 0 \ 0$ )
138	P4 <sub>2</sub> /ncm	n	( $m_z   1/2 \ 1/2 \ 0$ )
		c	( $m_x   1/2 \ 0 \ 1/2$ )
		m	( $m_{xy}   1/2 \ 1/2 \ 0$ )
		4	( $4_z   0 \ 0 \ 0$ )
		/	( $1   0 \ 0 \ 0$ )
139	I4/mmm	m	( $m_z   0 \ 0 \ 0$ )
		m	( $m_x   0 \ 0 \ 0$ )
		m	( $m_{xy}   0 \ 0 \ 0$ )
		4	( $4_z   0 \ 0 \ 0$ )
		/	( $1   0 \ 0 \ 0$ )
140	I4/mcm	m	( $m_z   0 \ 0 \ 0$ )
		c	( $m_x   0 \ 0 \ 1/2$ )
		m	( $m_{xy}   1/2 \ 1/2 \ 0$ )

		$4_1$	( $4_z   1/4 \ 3/4 \ 1/4$ )
		/	( $1   0 \ 0 \ 0$ )
		$a$	( $m_z   1/2 \ 0 \ 1/2$ )
		$m$	( $m_x   0 \ 0 \ 0$ )
		$d$	( $m_{xy}   1/4 \ 3/4 \ 1/4$ )
141	$I4_1/amd$	$4_1$	( $4_z   1/4 \ 3/4 \ 1/4$ )
		/	( $1   0 \ 0 \ 0$ )
142	$I4_1/acd$	$a$	( $m_z   1/2 \ 0 \ 1/2$ )
		$c$	( $m_x   0 \ 0 \ 1/2$ )
		$d$	( $m_{xy}   1/4 \ 3/4 \ 3/4$ )
143	P3	3	( $3_z   0 \ 0 \ 0$ )
144	$P3_1$	$3_1$	( $3_z   0 \ 0 \ 1/3$ )
145	$P3_2$	$3_2$	( $3_z   0 \ 0 \ 2/3$ )
146	R3	3	( $3_z   0 \ 0 \ 0$ )
147	$P\bar{3}$	$\bar{3}$	( $\bar{3}_z   0 \ 0 \ 0$ )
148	$R\bar{3}$	$\bar{3}$	( $\bar{3}_z   0 \ 0 \ 0$ )
149	$P312$	3	( $3_z   0 \ 0 \ 0$ )
		1	( $1   0 \ 0 \ 0$ )
		2	( $2_{xy}   0 \ 0 \ 0$ )
150	$P321$	3	( $3_z   0 \ 0 \ 0$ )
		2	( $2_{xy}   0 \ 0 \ 0$ )
		1	( $1   0 \ 0 \ 0$ )
151	$P3_112$	$3_1$	( $3_z   0 \ 0 \ 1/3$ )
		1	( $1   0 \ 0 \ 0$ )
		2	( $2_{xy}   0 \ 0 \ 2/3$ )
152	$P3_121$	$3_1$	( $3_z   0 \ 0 \ 1/3$ )
		2	( $2_{xy}   0 \ 0 \ 0$ )
		1	( $1   0 \ 0 \ 0$ )
153	$P3_212$	$3_2$	( $3_z   0 \ 0 \ 2/3$ )
		1	( $1   0 \ 0 \ 0$ )
		2	( $2_{xy}   0 \ 0 \ 1/3$ )
154	$P3_221$	$3_2$	( $3_z   0 \ 0 \ 2/3$ )
		2	( $2_{xy}   0 \ 0 \ 0$ )
		1	( $1   0 \ 0 \ 0$ )
155	R32	3	( $3_z   0 \ 0 \ 0$ )
		2	( $2_{xy}   0 \ 0 \ 0$ )
156	$P3m1$	3	( $3_z   0 \ 0 \ 0$ )
		$m$	( $m_{xy}   0 \ 0 \ 0$ )
		1	( $1   0 \ 0 \ 0$ )

157	P31m	3 1 m	(3 <sub>z</sub>   0 0 0) (1   0 0 0) (m <sub>xy</sub>   0 0 0)
158	P3c1	3 c 1	(3 <sub>z</sub>   0 0 0) (m <sub>xy</sub>   0 0 1/2) (1   0 0 0)
159	P31c	3 1 c	(3 <sub>z</sub>   0 0 0) (1   0 0 0) (m <sub>xy</sub>   0 0 1/2)
160	R3m	3 m	(3 <sub>z</sub>   0 0 0) (m <sub>xy</sub>   0 0 0)
161	R3c	3 c	(3 <sub>z</sub>   0 0 0) (m <sub>xy</sub>   0 0 1/2)
162	P $\bar{3}$ 1m	$\bar{3}$ 1 m	( $\bar{3}_z$   0 0 0) (1   0 0 0) (m <sub>xy</sub>   0 0 0)
163	P $\bar{3}$ 1c	$\bar{3}$ 1 c	( $\bar{3}_z$   0 0 0) (1   0 0 0) (m <sub>xy</sub>   0 0 1/2)
164	P $\bar{3}$ m1	$\bar{3}$ m 1	( $\bar{3}_z$   0 0 0) (m <sub>xy</sub>   0 0 0) (1   0 0 0)
165	P $\bar{3}$ c1	$\bar{3}$ c 1	( $\bar{3}_z$   0 0 0) (m <sub>xy</sub>   0 0 1/2) (1   0 0 0)
166	R $\bar{3}$ m	$\bar{3}$ m	( $\bar{3}_z$   0 0 0) (m <sub>xy</sub>   0 0 0)
167	R $\bar{3}$ c	$\bar{3}$ c	( $\bar{3}_z$   0 0 0) (m <sub>xy</sub>   0 0 1/2)
168	P6	6	(6 <sub>z</sub>   0 0 0)
169	P6 <sub>1</sub>	6 <sub>1</sub>	(6 <sub>z</sub>   0 0 1/6)
170	P6 <sub>5</sub>	6 <sub>5</sub>	(6 <sub>z</sub>   0 0 5/6)
171	P6 <sub>2</sub>	6 <sub>2</sub>	(6 <sub>z</sub>   0 0 1/3)
172	P6 <sub>4</sub>	6 <sub>4</sub>	(6 <sub>z</sub>   0 0 2/3)
173	P6 <sub>3</sub>	6 <sub>3</sub>	(6 <sub>z</sub>   0 0 1/2)
174	P $\bar{6}$	$\bar{6}$	( $\bar{6}_z$   0 0 0)

175	P6/m	6 / m	(6 <sub>z</sub>   0 0 0) (1   0 0 0) (m <sub>z</sub>   0 0 0)
176	P6 <sub>3</sub> /m	6 <sub>3</sub> / m	(6 <sub>z</sub>   0 0 1/2) (1   0 0 0) (m <sub>z</sub>   0 0 1/2)
177	P622	6 2 2	(6 <sub>z</sub>   0 0 0) (2 <sub>x</sub>   0 0 0) (2 <sub>xy</sub>   0 0 0)
178	P6 <sub>1</sub> 22	6 <sub>1</sub> 2 2	(6 <sub>z</sub>   0 0 1/6) (2 <sub>x</sub>   0 0 0) (2 <sub>xy</sub>   0 0 5/6)
179	P6 <sub>5</sub> 22	6 <sub>5</sub> 2 2	(6 <sub>z</sub>   0 0 5/6) (2 <sub>x</sub>   0 0 0) (2 <sub>xy</sub>   0 0 1/6)
180	P6 <sub>2</sub> 22	6 <sub>2</sub> 2 2	(6 <sub>z</sub>   0 0 1/3) (2 <sub>x</sub>   0 0 0) (2 <sub>xy</sub>   0 0 2/3)
181	P6 <sub>4</sub> 22	6 <sub>4</sub> 2 2	(6 <sub>z</sub>   0 0 2/3) (2 <sub>x</sub>   0 0 0) (2 <sub>xy</sub>   0 0 1/3)
182	P6 <sub>3</sub> 22	6 <sub>3</sub> 2 2	(6 <sub>z</sub>   0 0 1/2) (2 <sub>x</sub>   0 0 0) (2 <sub>xy</sub>   0 0 1/2)
183	P6mm	6 m m	(6 <sub>z</sub>   0 0 0) (m <sub>x</sub>   0 0 0) (m <sub>xy</sub>   0 0 0)
184	P6cc	6 c c	(6 <sub>z</sub>   0 0 0) (m <sub>x</sub>   0 0 1/2) (m <sub>xy</sub>   0 0 1/2)
185	P6 <sub>3</sub> cm	6 <sub>3</sub> c m	(6 <sub>z</sub>   0 0 1/2) (m <sub>x</sub>   0 0 1/2) (m <sub>xy</sub>   0 0 0)
186	P6 <sub>3</sub> mc	6 <sub>3</sub> m c	(6 <sub>z</sub>   0 0 1/2) (m <sub>x</sub>   0 0 0) (m <sub>xy</sub>   0 0 1/2)
187	P $\bar{6}$ m2	$\bar{6}$ m 2	( $\bar{6}_z$   0 0 0) (m <sub>x</sub>   0 0 0) (2 <sub>xy</sub>   0 0 0)

188	P $\bar{6}$ c2	6 c 2	( $\bar{6}_z$   0 0 1/2) (m <sub>x</sub>   0 0 1/2) (2 <sub>xy</sub>   0 0 0)
189	P $\bar{6}2m$	$\bar{6}$ 2 m	( $\bar{6}_z$   0 0 0) (2 <sub>x</sub>   0 0 0) (m <sub>x<math>\bar{y}</math></sub>   0 0 0)
190	P $\bar{6}2c$	$\bar{6}$ 2 c	( $\bar{6}_z$   0 0 1/2) (2 <sub>x</sub>   0 0 0) (m <sub>x<math>\bar{y}</math></sub>   0 0 1/2)
191	P6/mmm	6 / m m m	(6 <sub>z</sub>   0 0 0) (1   0 0 0) (m <sub>z</sub>   0 0 0) (m <sub>x</sub>   0 0 0) (m <sub>x<math>\bar{y}</math></sub>   0 0 0)
192	P6/mcc	6 / m c c	(6 <sub>z</sub>   0 0 0) (1   0 0 0) (m <sub>z</sub>   0 0 0) (m <sub>x</sub>   0 0 1/2) (m <sub>x<math>\bar{y}</math></sub>   0 0 1/2)
193	P6 <sub>3</sub> /mcm	6 <sub>3</sub> / m c m	(6 <sub>z</sub>   0 0 1/2) (1   0 0 0) (m <sub>z</sub>   0 0 1/2) (m <sub>x</sub>   0 0 1/2) (m <sub>x<math>\bar{y}</math></sub>   0 0 0)
194	P6 <sub>3</sub> /mmc	6 <sub>3</sub> / m m c	(6 <sub>z</sub>   0 0 1/2) (1   0 0 0) (m <sub>z</sub>   0 0 1/2) (m <sub>x</sub>   0 0 0) (m <sub>x<math>\bar{y}</math></sub>   0 0 1/2)
195	P23	2 3	(2 <sub>z</sub>   0 0 0) (3 <sub>xyz</sub>   0 0 0)
196	F23	2 3	(2 <sub>z</sub>   0 0 0) (3 <sub>xyz</sub>   0 0 0)
197	I23	2 3	(2 <sub>z</sub>   0 0 0) (3 <sub>xyz</sub>   0 0 0)
198	P2 <sub>1</sub> 3	2 <sub>1</sub> 3	(2 <sub>z</sub>   1/2 0 1/2) (3 <sub>xyz</sub>   0 0 0)
199	I2 <sub>1</sub> 3	2 <sub>1</sub> 3	(2 <sub>z</sub>   1/2 0 1/2) (3 <sub>xyz</sub>   0 0 0)

200	Pm $\bar{3}$	m $\bar{3}$	(m <sub>z</sub>   0 0 0) ( $\bar{3}_{xyz}$   0 0 0)
201	Pn $\bar{3}$	n $\bar{3}$	(m <sub>z</sub>   1/2 1/2 0) ( $\bar{3}_{xyz}$   0 0 0)
202	Fm $\bar{3}$	m $\bar{3}$	(m <sub>z</sub>   0 0 0) ( $\bar{3}_{xyz}$   0 0 0)
203	Fd $\bar{3}$	d $\bar{3}$	(m <sub>z</sub>   1/4 1/4 0) ( $\bar{3}_{xyz}$   0 0 0)
204	I $\bar{m}\bar{3}$	m $\bar{3}$	(m <sub>z</sub>   0 0 0) ( $\bar{3}_{xyz}$   0 0 0)
205	Pa $\bar{3}$	a $\bar{3}$	(m <sub>z</sub>   1/2 0 1/2) ( $\bar{3}_{xyz}$   0 0 0)
206	Ia $\bar{3}$	a $\bar{3}$	(m <sub>z</sub>   1/2 0 1/2) ( $\bar{3}_{xyz}$   0 0 0)
207	P432	4 3 2	(4 <sub>z</sub>   0 0 0) (3 <sub>xyz</sub>   0 0 0) (2 <sub>x<math>\bar{y}</math></sub>   0 0 0)
208	P4 <sub>2</sub> 32	4 <sub>2</sub> 3 2	(4 <sub>z</sub>   1/2 1/2 1/2) (3 <sub>xyz</sub>   0 0 0) (2 <sub>x<math>\bar{y}</math></sub>   1/2 1/2 1/2)
209	F432	4 3 2	(4 <sub>z</sub>   0 0 0) (3 <sub>xyz</sub>   0 0 0) (2 <sub>x<math>\bar{y}</math></sub>   0 0 0)
210	F4 <sub>1</sub> 32	4 <sub>1</sub> 3 2	(4 <sub>z</sub>   3/4 3/4 1/4) (3 <sub>xyz</sub>   0 0 0) (2 <sub>x<math>\bar{y}</math></sub>   1/4 1/4 1/4)
211	I432	4 3 2	(4 <sub>z</sub>   0 0 0) (3 <sub>xyz</sub>   0 0 0) (2 <sub>x<math>\bar{y}</math></sub>   0 0 0)
212	P4 <sub>3</sub> 32	4 <sub>3</sub> 3 2	(4 <sub>z</sub>   3/4 1/4 3/4) (3 <sub>xyz</sub>   0 0 0) (2 <sub>x<math>\bar{y}</math></sub>   1/4 1/4 1/4)
213	P4 <sub>1</sub> 32	4 <sub>1</sub> 3 2	(4 <sub>z</sub>   1/4 3/4 1/4) (3 <sub>xyz</sub>   0 0 0) (2 <sub>x<math>\bar{y}</math></sub>   3/4 3/4 3/4)
214	I4 <sub>1</sub> 32	4 <sub>1</sub> 3 2	(4 <sub>z</sub>   1/4 3/4 1/4) (3 <sub>xyz</sub>   0 0 0) (2 <sub>x<math>\bar{y}</math></sub>   3/4 3/4 3/4)

215	P $\bar{4}$ 3m	$\bar{4}$ 3 m	( $\bar{4}_z$   0 0 0) ( $3_{xyz}$   0 0 0) ( $m_{x\bar{y}}$   0 0 0)
216	F $\bar{4}$ 3m	$\bar{4}$ 3 m	( $\bar{4}_z$   0 0 0) ( $3_{xyz}$   0 0 0) ( $m_{x\bar{y}}$   0 0 0)
217	I $\bar{4}$ 3m	$\bar{4}$ 3 m	( $\bar{4}_z$   0 0 0) ( $3_{xyz}$   0 0 0) ( $m_{x\bar{y}}$   0 0 0)
218	P $\bar{4}$ 3n	$\bar{4}$ 3 n	( $\bar{4}_z$   1/2 1/2 1/2) ( $3_{xyz}$   0 0 0) ( $m_{x\bar{y}}$   1/2 1/2 1/2)
219	F $\bar{4}$ 3c	$\bar{4}$ 3 c	( $\bar{4}_z$   1/2 1/2 1/2) ( $3_{xyz}$   0 0 0) ( $m_{x\bar{y}}$   0 0 1/2)
220	I $\bar{4}$ 3d	$\bar{4}$ 3 d	( $\bar{4}_z$   3/4 1/4 3/4) ( $3_{xyz}$   0 0 0) ( $m_{x\bar{y}}$   1/4 1/4 1/4)
221	Pm $\bar{3}$ m	$m$ $\bar{3}$ m	( $m_z$   0 0 0) ( $\bar{3}_{xyz}$   0 0 0) ( $m_{x\bar{y}}$   0 0 0)
222	Pn $\bar{3}$ n	$n$ $\bar{3}$ n	( $m_z$   1/2 1/2 0) ( $\bar{3}_{xyz}$   0 0 0) ( $m_{x\bar{y}}$   1/2 1/2 1/2)
223	Pm $\bar{3}$ n	$m$ $\bar{3}$ n	( $m_z$   0 0 0) ( $\bar{3}_{xyz}$   0 0 0) ( $m_{x\bar{y}}$   1/2 1/2 1/2)
224	Pn $\bar{3}$ m	$n$ $\bar{3}$ m	( $m_z$   1/2 1/2 0) ( $\bar{3}_{xyz}$   0 0 0) ( $m_{x\bar{y}}$   0 0 0)
225	Fm $\bar{3}$ m	$m$ $\bar{3}$ m	( $m_z$   0 0 0) ( $\bar{3}_{xyz}$   0 0 0) ( $m_{x\bar{y}}$   0 0 0)
226	Fm $\bar{3}$ c	$m$ $\bar{3}$ c	( $m_z$   0 0 0) ( $\bar{3}_{xyz}$   0 0 0) ( $m_{x\bar{y}}$   0 0 1/2)

		d	$(m_z   1/4 \ 1/4 \ 0)$
227	Fd $\bar{3}$ m	$\bar{3}$	$(\bar{3}_{xyz}   0 \ 0 \ 0)$
		m	$(m_{x\bar{y}}   0 \ 0 \ 0)$
228	Fd $\bar{3}$ c	d	$(m_z   1/4 \ 1/4 \ 0)$
		$\bar{3}$	$(\bar{3}_{xyz}   0 \ 0 \ 0)$
		c	$(m_{x\bar{y}}   0 \ 0 \ 1/2)$
229	I $\bar{m}\bar{3}$ m	m	$(m_z   0 \ 0 \ 0)$
		$\bar{3}$	$(\bar{3}_{xyz}   0 \ 0 \ 0)$
		m	$(m_{x\bar{y}}   0 \ 0 \ 0)$
230	Ia $\bar{3}$ d	a	$(m_z   1/2 \ 0 \ 1/2)$
		$\bar{3}$	$(\bar{3}_{xyz}   0 \ 0 \ 0)$
		d	$(m_{x\bar{y}}   1/4 \ 1/4 \ 1/4)$