

Among the total 775 (3+1)-dimensional superspace groups there are 229 space groups, of which symmetry operations derived by *SPGR4D* are different from that listed by Orlov. However these symmetry operations can be made coincident with that of Orlov via the following operation:

$$S_{Orlov} = T^{-1} S_{SPGR4D} T \quad .$$

$$\text{Where } S_{Orlov} = \begin{pmatrix} R_{Orlov} & \mathbf{t}_{Orlov} \\ \mathbf{o} & 1 \end{pmatrix}, \quad S_{SPGR4D} = \begin{pmatrix} R_{SPGR4D} & \mathbf{t}_{SPGR4D} \\ \mathbf{o} & 1 \end{pmatrix}, \quad T = \begin{pmatrix} R & \mathbf{t} \\ \mathbf{o} & 1 \end{pmatrix} \text{ are } 5 \times 5$$

matrixes, $\{R_{Orlov} | \mathbf{t}_{Orlov}\}$ and $\{R_{SPGR4D} | \mathbf{t}_{SPGR4D}\}$ are four-dimensional symmetry operations

listed by Orlov and that derived from *SPGR4D* respectively, $\{R | \mathbf{t}\}$ is a 4-dimensional operation defining the shift of unit-cell origin and/or the direction choice of the 4th axis, and $\mathbf{o} = (0, 0, 0, 0)$. The rotation matrix R can only be one of the following:

$$R_0 = \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix}, \quad R_1 = \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 \end{pmatrix} \text{ and } R_2 = \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 1 & 1 & 1 & -1 \end{pmatrix} \quad .$$

In the following table, one-line symbols of the 775 non-equivalent (3+1)-dimensional superspace groups are listed alongside of the two-line symbols. R , \mathbf{t} for origin shift and direction choice of the 4th axis are also given when it is necessary.

There are two special space groups:

1. The space group $P4_2/nmm(1/21/2\gamma)q0q0$ (No. 651), of which symmetry operations derived from *SPGR4D* and transformed as described above, coincide with that of $P4_2/nmm(1/21/2\gamma)q0qs$ (No. 652) listed by Orlov.
2. The space group $P4_2/nmm(1/21/2\gamma)q0qs$ (No. 652), of which symmetry operations derived from *SPGR4D* and transformed as described above, coincide with that of $P4_2/nmm(1/21/2\gamma)q0q0$ (No. 651) listed by Orlov.

In the following table, characters in space-group symbols are all in uppercase and α , β and γ are respectively replaced by A, B and G.

(3+1)-dimensional superspace-group symbols

No.	One-line symbol	Two-line symbol	<i>R, t</i>
<i>Triclinic</i>			
1	P 1 (A B G)	P[P 1]1	
2	P -1 (A B G)	P[P -1]-1	
<i>Monoclinic</i>			
3	P 2 (A B 0)	P[P 2]-1	
4	P 2 (A B 1/2)	C[P 2]-1	
5	P 2 (0 0 G)	P[P 2]1	
6	P 2 (0 0 G) S	P[P 2]S	
7	P 2 (1/2 0 G)	A[P 2]1	
8	P 21 (A B 0)	P[P 21]-1	
9	P 21 (0 0 G)	P[P 21]1	
10	P 21 (1/2 0 G)	A[P 21]1	
11	B 2 (A B 0)	P[B 2]-1	
12	B 2 (0 0 G)	P[B 2]1	
13	B 2 (0 0 G) S	P[B 2]S	
14	B 2 (0 1/2 G)	B[B 2]1	
15	P M (A B 0)	P[P M]1	
16	P M (A B 0) S	P[P M]S	
17	P M (A B 1/2)	C[P M]1	
18	P M (0 0 G)	P[P M]-1	
19	P M (1/2 0 G)	A[P M]-1	
20	P B (A B 0)	P[P B]1	
21	P B (A B 1/2)	C[P B]1	
22	P B (0 0 G)	P[P B]-1	
23	P B (1/2 0 G)	A[P B]-1	
24	B M (A B 0)	P[B M]1	
25	B M (A B 0) S	P[B M]S	
26	B M (0 0 G)	P[B M]-1	

27	B M (0 1/2 G)	B[B M]-1
28	B B (A B 0)	P[B B]1
29	B B (0 0 G)	P[B B]-1
30	P 2/M (A B 0)	P[P 2/M]-1 1
31	P 2/M (A B 0) 0 S	P[P 2/M]-1 S
32	P 2/M (A B 1/2)	C[P 2/M]-1 1
33	P 2/M (0 0 G)	P[P 2/M]1 -1
34	P 2/M (0 0 G) S 0	P[P 2/M]S -1
35	P 2/M (1/2 0 G)	A[P 2/M]1 -1
36	P 21/M (A B 0)	P[P 21/M]-1 1
37	P 21/M (A B 0) 0 S	P[P 21/M]-1 S
38	P 21/M (0 0 G)	P[P 21/M]1 -1
39	P 21/M (1/2 0 G)	A[P 21/M]1 -1
40	B 2/M (A B 0)	P[B 2/M]-1 1
41	B 2/M (A B 0) 0 S	P[B 2/M]-1 S
42	B 2/M (0 0 G)	P[B 2/M]1 -1
43	B 2/M (0 0 G) S 0	P[B 2/M]S -1
44	B 2/M (0 1/2 G)	B[B 2/M]1 -1
45	P 2/B (A B 0)	P[P 2/B]-1 1
46	P 2/B (A B 1/2)	C[P 2/B]-1 1
47	P 2/B (0 0 G)	P[P 2/B]1 -1
48	P 2/B (0 0 G) S 0	P[P 2/B]S -1
49	P 2/B (1/2 0 G)	A[P 2/B]1 -1
50	P 21/B (A B 0)	P[P 21/B]-1 1
51	P 21/B (0 0 G)	P[P 21/B]1 -1
52	P 21/B (1/2 0 G)	A[P 21/B]1 -1
53	B 2/B (A B 0)	P[B 2/B]-1 1
54	B 2/B (0 0 G)	P[B 2/B]1 -1
55	B 2/B (0 0 G) S 0	P[B 2/B]S -1

Orthorhombic

56	P 2 2 2 (0 0 G)	P[P 2 2 2]-1 -1 1
57	P 2 2 2 (0 0 G) 0 0 S	P[P 2 2 2]-1 -1 S

58	P 2 2 2 (0 1/2 G)	B[P 2 2 2]-1 -1 1	
59	P 2 2 2 (1/2 1/2 G)	W[P 2 2 2]-1 -1 1	
60	P 2 2 2 1 (0 0 G)	P[P 2 2 2 1]-1 -1 1	
61	P 2 2 2 1 (0 1/2 G)	B[P 2 2 2 1]-1 -1 1	
62	P 2 2 2 1 (1/2 1/2 G)	W[P 2 2 2 1]-1 -1 1	
63	P 2 1 2 2 (0 0 G)	P[P 2 1 2 2]-1 -1 1	
64	P 2 1 2 2 (0 0 G) 0 0 S	P[P 2 1 2 2]-1 -1 S	
65	P 2 1 2 2 (0 1/2 G)	B[P 2 1 2 2]-1 -1 1	
66	P 2 1 2 1 2 (0 0 G)	P[P 2 1 2 1 2]-1 -1 1	
67	P 2 1 2 1 2 (0 0 G) 0 0 S	P[P 2 1 2 1 2]-1 -1 S	
68	P 2 1 2 2 1 (0 0 G)	P[P 2 1 2 2 1]-1 -1 1	$R_0, (0,0,3/4,0)$
69	P 2 1 2 2 1 (0 1/2 G)	B[P 2 1 2 2 1]-1 -1 1	$R_0, (0,0,3/4,0)$
70	P 2 1 2 1 2 1 (0 0 G)	P[P 2 1 2 1 2 1]-1 -1 1	
71	C 2 2 2 1 (0 0 G)	P[C 2 2 2 1]-1 -1 1	
72	C 2 2 2 1 (1 0 G)	L[C 2 2 2 1]-1 -1 1	
73	A 2 1 2 2 (0 0 G)	P[A 2 1 2 2]-1 -1 1	
74	A 2 1 2 2 (0 0 G) 0 0 S	P[A 2 1 2 2]-1 -1 S	
75	C 2 2 2 (0 0 G)	P[C 2 2 2]-1 -1 1	
76	C 2 2 2 (0 0 G) 0 0 S	P[C 2 2 2]-1 -1 S	
77	C 2 2 2 (1 0 G)	L[C 2 2 2]-1 -1 1	
78	C 2 2 2 (1 0 G) 0 0 S	L[C 2 2 2]-1 -1 S	
79	A 2 2 2 (0 0 G)	P[A 2 2 2]-1 -1 1	
80	A 2 2 2 (0 0 G) 0 0 S	P[A 2 2 2]-1 -1 S	
81	A 2 2 2 (1/2 0 G)	A[A 2 2 2]-1 -1 1	
82	F 2 2 2 (0 0 G)	P[F 2 2 2]-1 -1 1	
83	F 2 2 2 (0 0 G) 0 0 S	P[F 2 2 2]-1 -1 S	
84	F 2 2 2 (1 0 G)	L[F 2 2 2]-1 -1 1	
85	I 2 2 2 (0 0 G)	P[I 2 2 2]-1 -1 1	
86	I 2 2 2 (0 0 G) 0 0 S	P[I 2 2 2]-1 -1 S	
87	I 2 1 2 1 2 1 (0 0 G)	P[I 2 1 2 1 2 1]-1 -1 1	
88	I 2 1 2 1 2 1 (0 0 G) 0 0 S	P[I 2 1 2 1 2 1]-1 -1 S	
89	P M M 2 (0 0 G)	P[P M M 2]1 1 1	

90	P M M 2 (0 0 G) S 0 S	P [P M M 2] S 1 S	
91	P M M 2 (0 0 G) S S 0	P [P M M 2] S S 1	
92	P M M 2 (0 1/2 G)	B [P M M 2] 1 1 1	
93	P M M 2 (0 1/2 G) S 0 S	B [P M M 2] S 1 S	
94	P M M 2 (1/2 1/2 G)	W [P M M 2] 1 1 1	
95	P M 2 M (0 1/2 G)	B [P M 2 M] 1 -1 -1	
96	P M 2 M (0 1/2 G) S 0 0	B [P M 2 M] S -1 -1	
97	P 2 M M (0 0 G)	P [P 2 M M] -1 1 -1	
98	P 2 M M (0 0 G) 0 S 0	P [P 2 M M] -1 S -1	$R_0, (0,0,0,3/4)$
99	P 2 M M (0 1/2 G)	B [P 2 M M] -1 1 -1	
100	P 2 M M (1/2 1/2 G)	W [P 2 M M] -1 1 -1	
101	P M C 21 (0 0 G)	P [P M C 21] 1 1 1	
102	P M C 21 (0 0 G) S 0 S	P [P M C 21] S 1 S	
103	P M C 21 (0 1/2 G)	B [P M C 21] 1 1 1	
104	P M C 21 (0 1/2 G) S 0 S	B [P M C 21] S 1 S	
105	P C M 21 (0 1/2 G)	B [P C M 21] 1 1 1	
106	P M C 21 (1/2 1/2 G)	W [P M C 21] 1 1 1	
107	P 21 A M (0 0 G)	P [P 21 A M] -1 1 -1	
108	P 21 A M (0 0 G) 0 S 0	P [P 21 A M] -1 S -1	$R_0, (0,0,0,3/4)$
109	P 21 M A (0 0 G)	P [P 21 M A] -1 1 -1	
110	P 21 M A (0 0 G) 0 S 0	P [P 21 M A] -1 S -1	$R_0, (0,0,0,3/4)$
111	P 21 A M (0 1/2 G)	B [P 21 A M] -1 1 -1	
112	P 21 M A (0 1/2 G)	B [P 21 M A] -1 1 -1	
113	P C C 2 (0 0 G)	P [P C C 2] 1 1 1	
114	P C C 2 (0 0 G) S 0 S	P [P C C 2] S 1 S	
115	P C C 2 (0 1/2 G)	B [P C C 2] 1 1 1	
116	P C C 2 (1/2 1/2 G)	W [P C C 2] 1 1 1	
117	P 2 A A (0 0 G)	P [P 2 A A] -1 1 -1	
118	P 2 A A (0 0 G) 0 S 0	P [P 2 A A] -1 S -1	$R_0, (0,0,0,3/4)$
119	P 2 A A (0 1/2 G)	B [P 2 A A] -1 1 -1	
120	P M A 2 (0 0 G)	P [P M A 2] 1 1 1	
121	P M A 2 (0 0 G) S 0 S	P [P M A 2] S 1 S	

122	P M A 2 (0 0 G) S S 0	P[P M A 2]S S 1	
123	P M A 2 (0 0 G) 0 S S	P[P M A 2]1 S S	
124	P M A 2 (0 1/2 G)	B[P M A 2]1 1 1	
125	P M A 2 (0 1/2 G) S 0 S	B[P M A 2]S 1 S	
126	P M 2 A (0 1/2 G)	B[P M 2 A]1 -1 -1	$R_0, (3/4,0,0,0)$
127	P M 2 A (0 1/2 G) S 0 0	B[P M 2 A]S -1 -1	$R_0, (3/4,0,0,0)$
128	P C 2 M (0 1/2 G)	B[P C 2 M]1 -1 -1	$R_0, (0,0,3/4,0)$
129	P 2 C M (0 0 G)	P[P 2 C M]-1 1 -1	$R_0, (0,0,3/4,0)$
130	P 2 M B (0 0 G)	P[P 2 M B]-1 1 -1	$R_0, (0,3/4,0,0)$
131	P 2 M B (0 0 G) 0 S 0	P[P 2 M B]-1 S -1	$R_0, (0,3/4,0,3/4)$
132	P 2 C M (0 1/2 G)	B[P 2 C M]-1 1 -1	$R_0, (0,0,3/4,0)$
133	P 2 C M (1/2 1/2 G)	W[P 2 C M]-1 1 -1	$R_0, (0,0,3/4,0)$
134	P C A 21 (0 0 G)	P[P C A 21]1 1 1	
135	P C A 21 (0 0 G) 0 S S	P[P C A 21]1 S S	
136	P C A 21 (0 1/2 G)	B[P C A 21]1 1 1	
137	P 21 C A (0 0 G)	P[P 21 C A]-1 1 -1	$R_0, (0,0,3/4,0)$
138	P 21 A B (0 0 G)	P[P 21 A B]-1 1 -1	$R_0, (0,3/4,0,0)$
139	P 21 A B (0 0 G) 0 S 0	P[P 21 A B]-1 S -1	$R_0, (0,3/4,0,3/4)$
140	P 21 C A (0 1/2 G)	B[P 21 C A]-1 1 -1	$R_0, (0,0,3/4,0)$
141	P C N 2 (0 0 G)	P[P C N 2]1 1 1	$R_0, (3/4,0,0,0)$
142	P C N 2 (0 0 G) S 0 S	P[P C N 2]S 1 S	$R_0, (3/4,0,0,0)$
143	P C N 2 (0 1/2 G)	B[P C N 2]1 1 1	$R_0, (3/4,0,0,0)$
144	P 2 N A (0 0 G)	P[P 2 N A]-1 1 -1	$R_0, (0,0,3/4,0)$
145	P 2 A N (0 0 G)	P[P 2 A N]-1 1 -1	$R_0, (0,3/4,0,0)$
146	P 2 A N (0 0 G) 0 S 0	P[P 2 A N]-1 S -1	$R_0, (0,3/4,0,3/4)$
147	P 2 N A (0 1/2 G)	B[P 2 N A]-1 1 -1	$R_0, (0,0,3/4,0)$
148	P 2 A N (1/2 1/2 G) 0 Q 0	W[P 2 A N]-1 Q -1	$R_0, (0,3/4,0,0)$
149	P M N 21 (0 0 G)	P[P M N 21]1 1 1	
150	P M N 21 (0 0 G) S 0 S	P[P M N 21]S 1 S	
151	P M N 21 (0 1/2 G)	B[P M N 21]1 1 1	
152	P M N 21 (0 1/2 G) S 0 S	B[P M N 21]S 1 S	
153	P 21 N M (0 0 G)	P[P 21 N M]-1 1 -1	

154	P 21 M N (0 0 G)	P[P 21 M N]-1 1 -1	
155	P 21 M N (0 0 G) 0 S 0	P[P 21 M N]-1 S -1	$R_0, (0,0,0,3/4)$
156	P 21 N M (0 1/2 G)	B[P 21 N M]-1 1 -1	
157	P B A 2 (0 0 G)	P[P B A 2]1 1 1	
158	P B A 2 (0 0 G) S 0 S	P[P B A 2]S 1 S	
159	P B A 2 (0 0 G) S S 0	P[P B A 2]S S 1	
160	P B A 2 (1/2 1/2 G) Q Q 0	W[P B A 2]Q Q 1	
161	P C 2 A (0 1/2 G)	B[P C 2 A]1 -1 -1	$R_0, (3/4,0,3/4,0)$
162	P 2 C B (0 0 G)	P[P 2 C B]-1 1 -1	$R_0, (0,3/4,3/4,0)$
163	P B N 21 (0 0 G)	P[P B N 21]1 1 1	$R_0, (3/4,3/4,0,0)$
164	P B N 21 (0 0 G) S 0 S	P[P B N 21]S 1 S	$R_0, (3/4,3/4,0,0)$
165	P B N 21 (1/2 1/2 G) Q Q 0	W[P B N 21]Q Q 1	$R_0, (3/4,3/4,0,0)$
166	P 21 N B (0 0 G)	P[P 21 N B]-1 1 -1	$R_0, (0,3/4,3/4,0)$
167	P 21 C N (0 0 G)	P[P 21 C N]-1 1 -1	$R_0, (0,3/4,3/4,0)$
168	P N N 2 (0 0 G)	P[P N N 2]1 1 1	
169	P N N 2 (0 0 G) S 0 S	P[P N N 2]S 1 S	
170	P N N 2 (1/2 1/2 G) Q Q 0	W[P N N 2]Q Q 1	
171	P 2 N N (0 0 G)	P[P 2 N N]-1 1 -1	$R_0, (0,3/4,3/4,0)$
172	P 2 N N (1/2 1/2 G) 0 Q 0	W[P 2 N N]-1 Q -1	$R_0, (0,3/4,3/4,0)$
173	C M M 2 (0 0 G)	P[C M M 2]1 1 1	
174	C M M 2 (0 0 G) S 0 S	P[C M M 2]S 1 S	
175	C M M 2 (0 0 G) S S 0	P[C M M 2]S S 1	
176	C M M 2 (1 0 G)	L[C M M 2]1 1 1	
177	C M M 2 (1 0 G) S 0 S	L[C M M 2]S 1 S	
178	C M M 2 (1 0 G) S S 0	L[C M M 2]S S 1	
179	A 2 M M (0 0 G)	P[A 2 M M]-1 1 -1	
180	A 2 M M (0 0 G) 0 S 0	P[A 2 M M]-1 S -1	$R_0, (0,0,0,3/4)$
181	A 2 M M (1/2 0 G)	A[A 2 M M]-1 1 -1	
182	A 2 M M (1/2 0 G) 0 S 0	A[A 2 M M]-1 S -1	$R_0, (0,0,0,3/4)$
183	C M C 21 (0 0 G)	P[C M C 21]1 1 1	
184	C M C 21 (0 0 G) S 0 S	P[C M C 21]S 1 S	
185	C M C 21 (1 0 G)	L[C M C 21]1 1 1	

186	C M C 21 (1 0 G) S 0 S	L[C M C 21]S 1 S	
187	A 21 A M (0 0 G)	P[A 21 A M]-1 1 -1	
188	A 21 A M (0 0 G) 0 S 0	P[A 21 A M]-1 S -1	$R_0, (0,0,0,3/4)$
189	A 21 M A (0 0 G)	P[A 21 M A]-1 1 -1	
190	A 21 M A (0 0 G) 0 S 0	P[A 21 M A]-1 S -1	$R_0, (0,0,0,3/4)$
191	C C C 2 (0 0 G)	P[C C C 2]1 1 1	
192	C C C 2 (0 0 G) S 0 S	P[C C C 2]S 1 S	
193	C C C 2 (1 0 G)	L[C C C 2]1 1 1	
194	C C C 2 (1 0 G) S 0 S	L[C C C 2]S 1 S	
195	A 2 A A (0 0 G)	P[A 2 A A]-1 1 -1	
196	A 2 A A (0 0 G) 0 S 0	P[A 2 A A]-1 S -1	$R_0, (0,0,0,3/4)$
197	C 2 M M (0 0 G)	P[C 2 M M]-1 1 -1	
198	C 2 M M (0 0 G) 0 S 0	P[C 2 M M]-1 S -1	$R_0, (0,0,0,3/4)$
199	C 2 M M (1 0 G)	L[C 2 M M]-1 1 -1	
200	C 2 M M (1 0 G) 0 S 0	L[C 2 M M]-1 S -1	$R_0, (0,0,0,3/4)$
201	A M M 2 (0 0 G)	P[A M M 2]1 1 1	
202	A M M 2 (0 0 G) S 0 S	P[A M M 2]S 1 S	
203	A M M 2 (0 0 G) S S 0	P[A M M 2]S S 1	
204	A M M 2 (0 0 G) 0 S S	P[A M M 2]1 S S	
205	A M M 2 (1/2 0 G)	A[A M M 2]1 1 1	
206	A M M 2 (1/2 0 G) 0 S S	A[A M M 2]1 S S	
207	A M 2 M (0 0 G)	P[A M 2 M]1 -1 -1	
208	A M 2 M (0 0 G) S 0 0	P[A M 2 M]S -1 -1	
209	A M 2 M (1/2 0 G)	A[A M 2 M]1 -1 -1	
210	C 2 M B (0 0 G)	P[C 2 M B]-1 1 -1	$R_0, (0,3/4,0,0)$
211	C 2 M B (0 0 G) 0 S 0	P[C 2 M B]-1 S -1	$R_0, (0,3/4,0,3/4)$
212	C 2 M B (1 0 G)	L[C 2 M B]-1 1 -1	$R_0, (0,3/4,0,3/4)$
213	C 2 M B (1 0 G) 0 S 0	L[C 2 M B]-1 S -1	$R_0, (0,3/4,0,0)$
214	A B M 2 (0 0 G)	P[A B M 2]1 1 1	
215	A B M 2 (0 0 G) S 0 S	P[A B M 2]S 1 S	
216	A B M 2 (0 0 G) S S 0	P[A B M 2]S S 1	
217	A B M 2 (0 0 G) 0 S S	P[A B M 2]1 S S	

218	A B M 2 (1/2 0 G)	A[A B M 2]1 1 1	
219	A B M 2 (1/2 0 G) 0 S S	A[A B M 2]1 S S	
220	A B 2 M (0 0 G)	P[A B 2 M]1 -1 -1	$R_0, (0,0,3/4,0)$
221	A B 2 M (0 0 G) S 0 0	P[A B 2 M]S -1 -1	$R_0, (0,0,3/4,0)$
222	A B 2 M (1/2 0 G)	A[A B 2 M]1 -1 -1	$R_0, (0,0,3/4,0)$
223	C 2 C M (0 0 G)	P[C 2 C M]-1 1 -1	$R_0, (0,0,3/4,0)$
224	C 2 C M (1 0 G)	L[C 2 C M]-1 1 -1	$R_0, (0,0,3/4,0)$
225	A M A 2 (0 0 G)	P[A M A 2]1 1 1	
226	A M A 2 (0 0 G) S 0 S	P[A M A 2]S 1 S	
227	A M A 2 (0 0 G) S S 0	P[A M A 2]S S 1	
228	A M A 2 (0 0 G) 0 S S	P[A M A 2]1 S S	
229	A M 2 A (0 0 G)	P[A M 2 A]1 -1 -1	$R_0, (3/4,0,0,0)$
230	A M 2 A (0 0 G) S 0 0	P[A M 2 A]S -1 -1	$R_0, (3/4,0,0,0)$
231	C 2 C B (0 0 G)	P[C 2 C B]-1 1 -1	$R_0, (0,3/4,3/4,0)$
232	C 2 C B (1 0 G)	L[C 2 C B]-1 1 -1	$R_0, (0,3/4,3/4,3/4)$
233	A B A 2 (0 0 G)	P[A B A 2]1 1 1	
234	A B A 2 (0 0 G) S 0 S	P[A B A 2]S 1 S	
235	A B A 2 (0 0 G) S S 0	P[A B A 2]S S 1	
236	A B A 2 (0 0 G) 0 S S	P[A B A 2]1 S S	
237	A B 2 A (0 0 G)	P[A B 2 A]1 -1 -1	$R_0, (3/4,0,3/4,0)$
238	A B 2 A (0 0 G) S 0 0	P[A B 2 A]S -1 -1	$R_0, (3/4,0,3/4,0)$
239	F M M 2 (0 0 G)	P[F M M 2]1 1 1	
240	F M M 2 (0 0 G) S 0 S	P[F M M 2]S 1 S	
241	F M M 2 (0 0 G) S S 0	P[F M M 2]S S 1	
242	F M M 2 (1 0 G)	L[F M M 2]1 1 1	
243	F M M 2 (1 0 G) S 0 S	L[F M M 2]S 1 S	
244	F M M 2 (1 0 G) S S 0	L[F M M 2]S S 1	
245	F 2 M M (0 0 G)	P[F 2 M M]-1 1 -1	
246	F 2 M M (0 0 G) 0 S 0	P[F 2 M M]-1 S -1	$R_0, (0,0,0,3/4)$
247	F 2 M M (1 0 G)	L[F 2 M M]-1 1 -1	
248	F 2 M M (1 0 G) 0 S 0	L[F 2 M M]-1 S -1	$R_0, (0,0,0,3/4)$
249	F D D 2 (0 0 G)	P[F D D 2]1 1 1	

250	F D D 2 (0 0 G) S 0 S	P[F D D 2]S 1 S	
251	F 2 D D (0 0 G)	P[F 2 D D]-1 1 -1	$R_0, (0,7/8,7/8,0)$
252	I M M 2 (0 0 G)	P[I M M 2]1 1 1	
253	I M M 2 (0 0 G) S 0 S	P[I M M 2]S 1 S	
254	I M M 2 (0 0 G) S S 0	P[I M M 2]S S 1	
255	I 2 M M (0 0 G)	P[I 2 M M]-1 1 -1	
256	I 2 M M (0 0 G) 0 S 0	P[I 2 M M]-1 S -1	$R_0, (0,0,0,3/4)$
257	I B A 2 (0 0 G)	P[I B A 2]1 1 1	
258	I B A 2 (0 0 G) S 0 S	P[I B A 2]S 1 S	
259	I B A 2 (0 0 G) S S 0	P[I B A 2]S S 1	
260	I 2 C B (0 0 G)	P[I 2 C B]-1 1 -1	$R_0, (0,3/4,3/4,0)$
261	I 2 C B (0 0 G) 0 S 0	P[I 2 C B]-1 S -1	$R_0, (0,3/4,3/4,3/4)$
262	I M A 2 (0 0 G)	P[I M A 2]1 1 1	
263	I M A 2 (0 0 G) S 0 S	P[I M A 2]S 1 S	
264	I M A 2 (0 0 G) S S 0	P[I M A 2]S S 1	
265	I M A 2 (0 0 G) 0 S S	P[I M A 2]1 S S	
266	I 2 M B (0 0 G)	P[I 2 M B]-1 1 -1	$R_0, (0,3/4,0,0)$
267	I 2 M B (0 0 G) 0 S 0	P[I 2 M B]-1 S -1	$R_0, (0,3/4,0,3/4)$
268	I 2 C M (0 0 G)	P[I 2 C M]-1 1 -1	$R_0, (0,0,3/4,0)$
269	I 2 C M (0 0 G) 0 S 0	P[I 2 C M]-1 S -1	$R_0, (0,0,3/4,3/4)$
270	P M M M (0 0 G)	P[P M M M]1 1 -1	
271	P M M M (0 0 G) S 0 0	P[P M M M]S 1 -1	
272	P M M M (0 0 G) S S 0	P[P M M M]S S -1	
273	P M M M (0 1/2 G)	B[P M M M]1 1 -1	
274	P M M M (0 1/2 G) S 0 0	B[P M M M]S 1 -1	
275	P M M M (1/2 1/2 G)	W[P M M M]1 1 -1	
276	P N N N (0 0 G)	P[P N N N]1 1 -1	$R_0, (3/4,3/4,3/4,0)$
277	P N N N (0 0 G) S 0 0	P[P N N N]S 1 -1	$R_0, (3/4,3/4,3/4,0)$
278	P N N N (1/2 1/2 G) Q Q 0	W[P N N N]Q Q -1	$R_0, (1/4,14,1/4,0)$
279	P C C M (0 0 G)	P[P C C M]1 1 -1	
280	P C C M (0 0 G) S 0 0	P[P C C M]S 1 -1	
281	P M A A (0 0 G)	P[P M A A]1 1 -1	

282	P M A A (0 0 G) S 0 0	P[P M A A]S 1 -1	
283	P M A A (0 0 G) S S 0	P[P M A A]S S -1	
284	P M A A (0 0 G) 0 S 0	P[P M A A]1 S -1	
285	P C C M (0 1/2 G)	B[P C C M]1 1 -1	
286	P M A A (0 1/2 G)	B[P M A A]1 1 -1	
287	P M A A (0 1/2 G) S 0 0	B[P M A A]S 1 -1	
288	P C C M (1/2 1/2 G)	W[P C C M]1 1 -1	
289	P B A N (0 0 G)	P[P B A N]1 1 -1	$R_0, (3/4,3/4,0,0)$
290	P B A N (0 0 G) S 0 0	P[P B A N]S 1 -1	$R_0, (3/4,3/4,0,0)$
291	P B A N (0 0 G) S S 0	P[P B A N]S S -1	$R_0, (3/4,3/4,0,0)$
292	P C N A (0 0 G)	P[P C N A]1 1 -1	$R_0, (3/4,0,3/4,0)$
293	P C N A (0 0 G) S 0 0	P[P C N A]S 1 -1	$R_0, (3/4,0,3/4,0)$
294	P C N A (0 1/2 G)	B[P C N A]1 1 -1	$R_0, (3/4,0,3/4,0)$
295	P B A N (1/2 1/2 G) Q Q 0	W[P B A N]Q Q -1	$R_0, (1/4,1/4,0,0)$
296	P M M A (0 0 G)	P[P M M A]1 1 -1	
297	P M M A (0 0 G) S 0 0	P[P M M A]S 1 -1	
298	P M M A (0 0 G) S S 0	P[P M M A]S S -1	
299	P M M A (0 0 G) 0 S 0	P[P M M A]1 S -1	
300	P M A M (0 0 G)	P[P M A M]1 1 -1	
301	P M A M (0 0 G) S 0 0	P[P M A M]S 1 -1	
302	P M A M (0 0 G) S S 0	P[P M A M]S S -1	
303	P M A M (0 0 G) 0 S 0	P[P M A M]1 S -1	
304	P M C M (0 0 G)	P[P M C M]1 1 -1	
305	P M C M (0 0 G) S 0 0	P[P M C M]S 1 -1	
306	P M M A (0 1/2 G)	B[P M M A]1 1 -1	
307	P M M A (0 1/2 G) S 0 0	B[P M M A]S 1 -1	
308	P M A M (0 1/2 G)	B[P M A M]1 1 -1	
309	P M A M (0 1/2 G) S 0 0	B[P M A M]S 1 -1	
310	P M C M (0 1/2 G)	B[P M C M]1 1 -1	
311	P M C M (0 1/2 G) S 0 0	B[P M C M]S 1 -1	
312	P C M M (0 1/2 G)	B[P C M M]1 1 -1	
313	P C M M (1/2 1/2 G)	W[P C M M]1 1 -1	

314	P N N A (0 0 G)	P [P N N A] 1 1 - 1
315	P N N A (0 0 G) S 0 0	P [P N N A] S 1 - 1
316	P B N N (0 0 G)	P [P B N N] 1 1 - 1
317	P B N N (0 0 G) S 0 0	P [P B N N] S 1 - 1
318	P C N N (0 0 G)	P [P C N N] 1 1 - 1
319	P C N N (0 0 G) S 0 0	P [P C N N] S 1 - 1
320	P B N N (1 / 2 1 / 2 G) Q Q 0	W [P B N N] Q Q - 1
321	P M N A (0 0 G)	P [P M N A] 1 1 - 1
322	P M N A (0 0 G) S 0 0	P [P M N A] S 1 - 1
323	P C N M (0 0 G)	P [P C N M] 1 1 - 1
324	P C N M (0 0 G) S 0 0	P [P C N M] S 1 - 1
325	P B M N (0 0 G)	P [P B M N] 1 1 - 1
326	P B M N (0 0 G) S 0 0	P [P B M N] S 1 - 1
327	P B M N (0 0 G) S S 0	P [P B M N] S S - 1
328	P B M N (0 0 G) 0 S 0	P [P B M N] 1 S - 1
329	P M N A (0 1 / 2 G)	B [P M N A] 1 1 - 1
330	P M N A (0 1 / 2 G) S 0 0	B [P M N A] S 1 - 1
331	P C N M (0 1 / 2 G)	B [P C N M] 1 1 - 1
332	P C C A (0 0 G)	P [P C C A] 1 1 - 1
333	P C C A (0 0 G) S 0 0	P [P C C A] S 1 - 1
334	P C A A (0 0 G)	P [P C A A] 1 1 - 1
335	P C A A (0 0 G) 0 S 0	P [P C A A] 1 S - 1
336	P B A B (0 0 G)	P [P B A B] 1 1 - 1
337	P B A B (0 0 G) S 0 0	P [P B A B] S 1 - 1
338	P B A B (0 0 G) S S 0	P [P B A B] S S - 1
339	P B A B (0 0 G) 0 S 0	P [P B A B] 1 S - 1
340	P C C A (0 1 / 2 G)	B [P C C A] 1 1 - 1
341	P C A A (0 1 / 2 G)	B [P C A A] 1 1 - 1
342	P B A M (0 0 G)	P [P B A M] 1 1 - 1
343	P B A M (0 0 G) S 0 0	P [P B A M] S 1 - 1
344	P B A M (0 0 G) S S 0	P [P B A M] S S - 1
345	P C M A (0 0 G)	P [P C M A] 1 1 - 1

346	PCMA(00G)0S0	P[PCMA]1S-1	
347	PCMA(01/2G)	B[PCMA]11-1	
348	PCCN(00G)	P[PCCN]11-1	
349	PCCN(00G)S00	P[PCCN]S1-1	
350	PBNB(00G)	P[PBNB]11-1	
351	PBNB(00G)S00	P[PBNB]S1-1	
352	PCAM(00G)	P[PCAM]11-1	
353	PCAM(00G)0S0	P[PCAM]1S-1	
354	PMCA(00G)	P[PMCA]11-1	
355	PMCA(00G)S00	P[PMCA]S1-1	
356	PBMA(00G)	P[PBMA]11-1	
357	PBMA(00G)S00	P[PBMA]S1-1	
358	PBMA(00G)SS0	P[PBMA]SS-1	
359	PBMA(00G)0S0	P[PBMA]1S-1	
360	PCAM(01/2G)	B[PCAM]11-1	
361	PMCA(01/2G)	B[PMCA]11-1	
362	PMCA(01/2G)S00	B[PMCA]S1-1	
363	PNNM(00G)	P[PNNM]11-1	
364	PNNM(00G)S00	P[PNNM]S1-1	
365	PMNN(00G)	P[PMNN]11-1	
366	PMNN(00G)S00	P[PMNN]S1-1	
367	PMMN(00G)	P[PMMN]11-1	$R_0, (3/4, 3/4, 0, 0)$
368	PMMN(00G)S00	P[PMMN]S1-1	$R_0, (3/4, 3/4, 0, 0)$
369	PMMN(00G)SS0	P[PMMN]SS-1	$R_0, (3/4, 3/4, 0, 0)$
370	PMNM(00G)	P[PMNM]11-1	$R_0, (3/4, 0, 3/4, 0)$
371	PMNM(00G)S00	P[PMNM]S1-1	$R_0, (3/4, 0, 3/4, 0)$
372	PMNM(01/2G)	B[PMNM]11-1	$R_0, (3/4, 0, 3/4, 0)$
373	PMNM(01/2G)S00	B[PMNM]S1-1	$R_0, (3/4, 0, 3/4, 0)$
374	PBCN(00G)	P[PBCN]11-1	
375	PBCN(00G)S00	P[PBCN]S1-1	
376	PNCA(00G)	P[PNCA]11-1	
377	PNCA(00G)S00	P[PNCA]S1-1	

378	P B N A (0 0 G)	P [P B N A] 1 1 - 1	
379	P B N A (0 0 G) S 0 0	P [P B N A] S 1 - 1	
380	P B C A (0 0 G)	P [P B C A] 1 1 - 1	
381	P B C A (0 0 G) S 0 0	P [P B C A] S 1 - 1	
382	P N M A (0 0 G)	P [P N M A] 1 1 - 1	
383	P N M A (0 0 G) 0 S 0	P [P N M A] 1 S - 1	
384	P B N M (0 0 G)	P [P B N M] 1 1 - 1	
385	P B N M (0 0 G) S 0 0	P [P B N M] S 1 - 1	
386	P M C N (0 0 G)	P [P M C N] 1 1 - 1	
387	P M C N (0 0 G) S 0 0	P [P M C N] S 1 - 1	
388	C M C M (0 0 G)	P [C M C M] 1 1 - 1	
389	C M C M (0 0 G) S 0 0	P [C M C M] S 1 - 1	
390	C M C M (1 0 G)	L [C M C M] 1 1 - 1	
391	C M C M (1 0 G) S 0 0	L [C M C M] S 1 - 1	
392	A M A M (0 0 G)	P [A M A M] 1 1 - 1	
393	A M A M (0 0 G) S 0 0	P [A M A M] S 1 - 1	
394	A M A M (0 0 G) S S 0	P [A M A M] S S - 1	
395	A M A M (0 0 G) 0 S 0	P [A M A M] 1 S - 1	
396	A M M A (0 0 G)	P [A M M A] 1 1 - 1	
397	A M M A (0 0 G) S 0 0	P [A M M A] S 1 - 1	
398	A M M A (0 0 G) S S 0	P [A M M A] S S - 1	
399	A M M A (0 0 G) 0 S 0	P [A M M A] 1 S - 1	
400	C M C B (0 0 G)	P [C M C B] 1 1 - 1	
401	C M C B (0 0 G) S 0 0	P [C M C B] S 1 - 1	
402	C M C B (1 0 G)	L [C M C B] 1 1 - 1	
403	C M C B (1 0 G) S 0 0	L [C M C B] S 1 - 1	
404	A B M A (0 0 G)	P [A B M A] 1 1 - 1	$R_0, (0,3/4,3/4,0)$
405	A B M A (0 0 G) S 0 0	P [A B M A] S 1 - 1	$R_0, (0,3/4,3/4,0)$
406	A B M A (0 0 G) S S 0	P [A B M A] S S - 1	$R_0, (0,3/4,3/4,0)$
407	A B M A (0 0 G) 0 S 0	P [A B M A] 1 S - 1	$R_0, (0,3/4,3/4,0)$
408	A B A M (0 0 G)	P [A B A M] 1 1 - 1	
409	A B A M (0 0 G) S 0 0	P [A B A M] S 1 - 1	

410	A B A M (0 0 G) S S 0	P[A B A M]S S -1	
411	A B A M (0 0 G) 0 S 0	P[A B A M]1 S -1	
412	C M M M (0 0 G)	P[C M M M]1 1 -1	
413	C M M M (0 0 G) S 0 0	P[C M M M]S 1 -1	
414	C M M M (0 0 G) S S 0	P[C M M M]S S -1	
415	C M M M (1 0 G)	L[C M M M]1 1 -1	
416	C M M M (1 0 G) S 0 0	L[C M M M]S 1 -1	
417	C M M M (1 0 G) S S 0	L[C M M M]S S -1	
418	A M M M (0 0 G)	P[A M M M]1 1 -1	
419	A M M M (0 0 G) S 0 0	P[A M M M]S 1 -1	
420	A M M M (0 0 G) S S 0	P[A M M M]S S -1	
421	A M M M (0 0 G) 0 S 0	P[A M M M]1 S -1	
422	A M M M (1/2 0 G)	A[A M M M]1 1 -1	
423	A M M M (1/2 0 G) 0 S 0	A[A M M M]1 S -1	
424	C C C M (0 0 G)	P[C C C M]1 1 -1	
425	C C C M (0 0 G) S 0 0	P[C C C M]S 1 -1	
426	C C C M (1 0 G)	L[C C C M]1 1 -1	
427	C C C M (1 0 G) S 0 0	L[C C C M]S 1 -1	
428	A M A A (0 0 G)	P[A M A A]1 1 -1	
429	A M A A (0 0 G) S 0 0	P[A M A A]S 1 -1	
430	A M A A (0 0 G) S S 0	P[A M A A]S S -1	
431	A M A A (0 0 G) 0 S 0	P[A M A A]1 S -1	
432	C M M B (0 0 G)	P[C M M B]1 1 -1	
433	C M M B (0 0 G) S 0 0	P[C M M B]S 1 -1	
434	C M M B (0 0 G) S S 0	P[C M M B]S S -1	
435	C M M B (1 0 G)	L[C M M B]1 1 -1	
436	C M M B (1 0 G) S 0 0	L[C M M B]S 1 -1	
437	C M M B (1 0 G) S S 0	L[C M M B]S S -1	
438	A B M M (0 0 G)	P[A B M M]1 1 -1	$R_0, (0,3/4,3/4,0)$
439	A B M M (0 0 G) S 0 0	P[A B M M]S 1 -1	$R_0, (0,3/4,3/4,0)$
440	A B M M (0 0 G) S S 0	P[A B M M]S S -1	$R_0, (0,3/4,3/4,0)$
441	A B M M (0 0 G) 0 S 0	P[A B M M]1 S -1	$R_0, (0,3/4,3/4,0)$

442	ABMM (1/2 0 G)	A[ABMM]1 1 -1	$R_0, (0,3/4,3/4,0)$
443	ABMM (1/2 0 G) 0 S 0	A[ABMM]1 S -1	$R_0, (0,3/4,3/4,0)$
444	CCCB (0 0 G)	P[CCCB]1 1 -1	$R_0, (0,3/4,3/4,0)$
445	CCCB (0 0 G) S 0 0	P[CCCB]S 1 -1	$R_0, (0,3/4,3/4,0)$
446	CCCB (1 0 G)	L[CCCB]1 1 -1	$R_0, (3/4,0,3/4,0)$
447	CCCB (1 0 G) S 0 0	L[CCCB]S 1 -1	$R_0, (3/4,0,3/4,0)$
448	ABAA (0 0 G)	P[ABAA]1 1 -1	$R_0, (3/4,3/4,0,0)$
449	ABAA (0 0 G) S 0 0	P[ABAA]S 1 -1	$R_0, (3/4,3/4,0,0)$
450	ABAA (0 0 G) S S 0	P[ABAA]S S -1	$R_0, (3/4,3/4,0,0)$
451	ABAA (0 0 G) 0 S 0	P[ABAA]1 S -1	$R_0, (3/4,3/4,0,0)$
452	FMMM (0 0 G)	P[FMMM]1 1 -1	
453	FMMM (0 0 G) S 0 0	P[FMMM]S 1 -1	
454	FMMM (0 0 G) S S 0	P[FMMM]S S -1	
455	FMMM (1 0 G)	L[FMMM]1 1 -1	
456	FMMM (1 0 G) S 0 0	L[FMMM]S 1 -1	
457	FMMM (1 0 G) S S 0	L[FMMM]S S -1	
458	FDDD (0 0 G)	P[FDDD]1 1 -1	$R_0, (7/8,7/8,7/8,0)$
459	FDDD (0 0 G) S 0 0	P[FDDD]S 1 -1	$R_0, (7/8,7/8,7/8,0)$
460	IMMM (0 0 G)	P[IMMM]1 1 -1	
461	IMMM (0 0 G) S 0 0	P[IMMM]S 1 -1	
462	IMMM (0 0 G) S S 0	P[IMMM]S S -1	
463	IBAM (0 0 G)	P[IBAM]1 1 -1	
464	IBAM (0 0 G) S 0 0	P[IBAM]S 1 -1	
465	IBAM (0 0 G) S S 0	P[IBAM]S S -1	
466	IMCB (0 0 G)	P[IMCB]1 1 -1	
467	IMCB (0 0 G) S 0 0	P[IMCB]S 1 -1	
468	IMCB (0 0 G) S S 0	P[IMCB]S S -1	
469	IMCB (0 0 G) 0 S 0	P[IMCB]1 S -1	
470	IBCA (0 0 G)	P[IBCA]1 1 -1	
471	IBCA (0 0 G) S 0 0	P[IBCA]S 1 -1	
472	IBCA (0 0 G) S S 0	P[IBCA]S S -1	
473	IMMA (0 0 G)	P[IMMA]1 1 -1	

474	IMMA (00G)S00	P[IMMA]S 1 -1	
475	IMMA (00G)SS0	P[IMMA]S S -1	
476	IBMM (00G)	P[IBMM]1 1 -1	$R_0, (3/4,3/4,3/4,0)$
477	IBMM (00G)S00	P[IBMM]S 1 -1	$R_0, (3/4,3/4,3/4,0)$
478	IBMM (00G)SS0	P[IBMM]S S -1	$R_0, (3/4,3/4,3/4,0)$
479	IBMM (00G)0S0	P[IBMM]1 S -1	$R_0, (3/4,3/4,3/4,0)$

Tetragonal

480	P4 (00G)	P[P4]1	
481	P4 (00G)Q	P[P4]Q	
482	P4 (00G)S	P[P4]S	
483	P4 (1/2 1/2 G)	W[P4]1	
484	P4 (1/2 1/2 G)Q	W[P4]Q	
485	P41 (00G)	P[P41]1	
486	P41 (1/2 1/2 G)	W[P41]1	
487	P42 (00G)	P[P42]1	
488	P42 (00G)Q	P[P42]Q	
489	P42 (1/2 1/2 G)	W[P42]1	
490	P42 (1/2 1/2 G)Q	W[P42]Q	
491	P43 (00G)	P[P43]1	
492	P43 (1/2 1/2 G)	W[P43]1	
493	I4 (00G)	P[I4]1	
494	I4 (00G)Q	P[I4]Q	
495	I4 (00G)S	P[I4]S	
496	I41 (00G)	P[I41]1	
497	I41 (00G)Q	P[I41]Q	
498	P-4 (00G)	P[P-4]-1	
499	P-4 (1/2 1/2 G)	W[P-4]-1	
500	I-4 (00G)	P[I-4]-1	
501	P4/M (00G)	P[P4/M]1 -1	
502	P4/M (00G)S0	P[P4/M]S -1	
503	P4/M (1/2 1/2 G)	W[P4/M]1 -1	
504	P42/M (00G)	P[P42/M]1 -1	

505	P 42/M (1/2 1/2 G)	W[P 42/M]1 -1	
506	P 4/N (0 0 G)	P[P 4/N]1 -1	$R_0, (1/4, 3/4, 0, 0)$
507	P 4/N (0 0 G) S 0	P[P 4/N]S -1	$R_0, (1/4, 3/4, 0, 0)$
508	P 4/N (1/2 1/2 G) Q 0	W[P 4/N]Q -1	$R_0, (3/4, 1/4, 0, 3/4)$
509	P 42/N (0 0 G)	P[P 42/N]1 -1	$R_0, (3/4, 3/4, 3/4, 0)$
510	P 42/N (1/2 1/2 G) Q 0	W[P 42/N]Q -1	$R_0, (3/4, 3/4, 3/4, 0)$
511	I 4/M (0 0 G)	P[I 4/M]1 -1	
512	I 4/M (0 0 G) S 0	P[I 4/M]S -1	
513	I 41/A (0 0 G)	P[I 41/A]1 -1	$R_0, (3/4, 0, 5/8, 0)$
514	P 4 2 2 (0 0 G)	P[P 4 2 2]1 -1 -1	
515	P 4 2 2 (0 0 G) Q 0 0	P[P 4 2 2]Q -1 -1	$R_1, (0, 0, 0, 0)$
516	P 4 2 2 (0 0 G) S 0 0	P[P 4 2 2]S -1 -1	
517	P 4 2 2 (1/2 1/2 G)	W[P 4 2 2]1 -1 -1	
518	P 4 2 2 (1/2 1/2 G) Q 0 0	W[P 4 2 2]Q -1 -1	$R_0, (1/2, 1/2, 0, 3/4)$
519	P 4 21 2 (0 0 G)	P[P 4 21 2]1 -1 -1	
520	P 4 21 2 (0 0 G) Q 0 0	P[P 4 21 2]Q -1 -1	$R_1, (0, 0, 0, 0)$
521	P 4 21 2 (0 0 G) S 0 0	P[P 4 21 2]S -1 -1	
522	P 41 2 2 (0 0 G)	P[P 41 2 2]1 -1 -1	
523	P 41 2 2 (1/2 1/2 G)	W[P 41 2 2]1 -1 -1	
524	P 41 21 2 (0 0 G)	P[P 41 21 2]1 -1 -1	
525	P 42 2 2 (0 0 G)	P[P 42 2 2]1 -1 -1	
526	P 42 2 2 (0 0 G) Q 0 0	P[P 42 2 2]Q -1 -1	$R_1, (0, 0, 0, 0)$
527	P 42 2 2 (1/2 1/2 G)	W[P 42 2 2]1 -1 -1	
528	P 42 2 2 (1/2 1/2 G) Q 0 0	W[P 42 2 2]Q -1 -1	$R_0, (1/2, 1/2, 0, 3/4)$
529	P 42 21 2 (0 0 G)	P[P 42 21 2]1 -1 -1	
530	P 42 21 2 (0 0 G) Q 0 0	P[P 42 21 2]Q -1 -1	$R_1, (0, 0, 0, 0)$
531	P 43 2 2 (0 0 G)	P[P 43 2 2]1 -1 -1	
532	P 43 2 2 (1/2 1/2 G)	W[P 43 2 2]1 -1 -1	
533	P 43 21 2 (0 0 G)	P[P 43 21 2]1 -1 -1	
534	I 4 2 2 (0 0 G)	P[I 4 2 2]1 -1 -1	
535	I 4 2 2 (0 0 G) Q 0 0	P[I 4 2 2]Q -1 -1	$R_1, (0, 0, 0, 0)$
536	I 4 2 2 (0 0 G) S 0 0	P[I 4 2 2]S -1 -1	

537	I 41 2 2 (0 0 G)	P[I 41 2 2]1 -1 -1	
538	I 41 2 2 (0 0 G) Q 0 0	P[I 41 2 2]Q -1 -1	$R_1, (0,0,0,0)$
539	P 4 M M (0 0 G)	P[P 4 M M]1 1 1	
540	P 4 M M (0 0 G) S S 0	P[P 4 M M]S S 1	
541	P 4 M M (0 0 G) 0 S S	P[P 4 M M]1 S S	
542	P 4 M M (0 0 G) S 0 S	P[P 4 M M]S 1 S	
543	P 4 M M (1/2 1/2 G)	W[P 4 M M]1 1 1	
544	P 4 M M (1/2 1/2 G) 0 S S	W[P 4 M M]1 S S	
545	P 4 B M (0 0 G)	P[P 4 B M]1 1 1	$R_0, (1/4,1/4,0,0)$
546	P 4 B M (0 0 G) S S 0	P[P 4 B M]S S 1	$R_0, (1/4,1/4,0,0)$
547	P 4 B M (0 0 G) 0 S S	P[P 4 B M]1 S S	$R_0, (1/4,1/4,0,0)$
548	P 4 B M (0 0 G) S 0 S	P[P 4 B M]S 1 S	$R_0, (1/4,1/4,0,0)$
549	P 4 B M (1/2 1/2 G) Q Q 0	W[P 4 B M]Q Q 1	$R_0, (1/4,1/4,0,0)$
550	P 4 B M (1/2 1/2 G) Q Q S	W[P 4 B M]Q Q S	$R_0, (3/4,3/4,0,0)$
551	P 42 C M (0 0 G)	P[P 42 C M]1 1 1	
552	P 42 C M (0 0 G) 0 S S	P[P 42 C M]1 S S	
553	P 42 C M (1/2 1/2 G)	W[P 42 C M]1 1 1	
554	P 42 C M (1/2 1/2 G) 0 S S	W[P 42 C M]1 S S	
555	P 42 N M (0 0 G)	P[P 42 N M]1 1 1	
556	P 42 N M (0 0 G) 0 S S	P[P 42 N M]1 S S	
557	P 42 N M (1/2 1/2 G) Q Q 0	W[P 42 N M]Q Q 1	
558	P 42 N M (1/2 1/2 G) Q Q S	W[P 42 N M]Q Q S	$R_0, (1/2,1/2,0,0)$
559	P 4 C C (0 0 G)	P[P 4 C C]1 1 1	
560	P 4 C C (0 0 G) S S 0	P[P 4 C C]S S 1	
561	P 4 C C (1/2 1/2 G)	W[P 4 C C]1 1 1	
562	P 4 N C (0 0 G)	P[P 4 N C]1 1 1	
563	P 4 N C (0 0 G) S S 0	P[P 4 N C]S S 1	
564	P 4 N C (1/2 1/2 G) Q Q 0	W[P 4 N C]Q Q 1	$R_0, (1/2,1/2,0,0)$
565	P 42 M C (0 0 G)	P[P 42 M C]1 1 1	
566	P 42 M C (0 0 G) S S 0	P[P 42 M C]S S 1	
567	P 42 M C (1/2 1/2 G)	W[P 42 M C]1 1 1	
568	P 42 B C (0 0 G)	P[P 42 B C]1 1 1	$R_0, (3/4,3/4,0,0)$

569	P 42 B C (0 0 G) S S 0	P[P 42 B C]S S 1	$R_0, (3/4,3/4,0,0)$
570	P 42 B C (1/2 1/2 G) Q Q 0	W[P 42 B C]Q Q 1	$R_0, (3/4,3/4,0,0)$
571	I 4 M M (0 0 G)	P[I 4 M M]1 1 1	
572	I 4 M M (0 0 G) S S 0	P[I 4 M M]S S 1	
573	I 4 M M (0 0 G) 0 S S	P[I 4 M M]1 S S	
574	I 4 M M (0 0 G) S 0 S	P[I 4 M M]S 1 S	
575	I 4 C M (0 0 G)	P[I 4 C M]1 1 1	
576	I 4 C M (0 0 G) S S 0	P[I 4 C M]S S 1	
577	I 4 C M (0 0 G) 0 S S	P[I 4 C M]1 S S	
578	I 4 C M (0 0 G) S 0 S	P[I 4 C M]S 1 S	
579	I 41 M D (0 0 G)	P[I 41 M D]1 1 1	
580	I 41 M D (0 0 G) S S 0	P[I 41 M D]S S 1	
581	I 41 C D (0 0 G)	P[I 41 C D]1 1 1	$R_0, (3/4,0,0,0)$
582	I 41 C D (0 0 G) S S 0	P[I 41 C D]S S 1	$R_0, (3/4,0,0,0)$
583	P -4 2 M (0 0 G)	P[P -4 2 M]-1 -1 1	
584	P -4 2 M (0 0 G) 0 0 S	P[P -4 2 M]-1 -1 S	
585	P -4 2 M (1/2 1/2 G)	W[P -4 2 M]-1 -1 1	
586	P -4 2 M (1/2 1/2 G) 0 0 S	W[P -4 2 M]-1 -1 S	
587	P -4 2 C (0 0 G)	P[P -4 2 C]-1 -1 1	
588	P -4 2 C (1/2 1/2 G)	W[P -4 2 C]-1 -1 1	
589	P -4 21 M (0 0 G)	P[P -4 21 M]-1 -1 1	
590	P -4 21 M (0 0 G) 0 0 S	P[P -4 21 M]-1 -1 S	
591	P -4 21 C (0 0 G)	P[P -4 21 C]-1 -1 1	
592	P -4 M 2 (0 0 G)	P[P -4 M 2]-1 1 1 -1	
593	P -4 M 2 (0 0 G) 0 S 0	P[P -4 M 2]-1 S -1	
594	P -4 M 2 (1/2 1/2 G)	W[P -4 M 2]-1 1 1 -1	
595	P -4 C 2 (0 0 G)	P[P -4 C 2]-1 1 1 -1	
596	P -4 C 2 (1/2 1/2 G)	W[P -4 C 2]-1 1 1 -1	
597	P -4 B 2 (0 0 G)	P[P -4 B 2]-1 1 1 -1	$R_0, (3/4,1/4,0,0)$
598	P -4 B 2 (0 0 G) 0 S 0	P[P -4 B 2]-1 S -1	$R_0, (3/4,1/4,0,0)$
599	P -4 B 2 (1/2 1/2 G) 0 Q 0	W[P -4 B 2]-1 Q -1	$R_0, (3/4,1/4,0,7/8)$
600	P -4 N 2 (0 0 G)	P[P -4 N 2]-1 1 1 -1	

601	P-4 N 2 (1/2 1/2 G) 0 Q 0	W[P-4 N 2]-1 Q -1	$R_0, (0,0,0,7/8)$
602	I-4 M 2 (0 0 G)	P[I-4 M 2]-1 1 -1	
603	I-4 M 2 (0 0 G) 0 S 0	P[I-4 M 2]-1 S -1	
604	I-4 C 2 (0 0 G)	P[I-4 C 2]-1 1 -1	
605	I-4 C 2 (0 0 G) 0 S 0	P[I-4 C 2]-1 S -1	
606	I-4 2 M (0 0 G)	P[I-4 2 M]-1 -1 1	
607	I-4 2 M (0 0 G) 0 0 S	P[I-4 2 M]-1 -1 S	
608	I-4 2 D (0 0 G)	P[I-4 2 D]-1 -1 1	
609	P 4/M M M (0 0 G)	P[P 4/M M M]1 -1 1 1	
610	P 4/M M M (0 0 G) S 0 S 0	P[P 4/M M M]S -1 S 1	
611	P 4/M M M (0 0 G) 0 0 S S	P[P 4/M M M]1 -1 S S	
612	P 4/M M M (0 0 G) S 0 0 S	P[P 4/M M M]S -1 1 S	
613	P 4/M M M (1/2 1/2 G)	W[P 4/M M M]1 -1 1 1	
614	P 4/M M M (1/2 1/2 G) 0 0 S S	W[P 4/M M M]1 -1 S S	
615	P 4/M C C (0 0 G)	P[P 4/M C C]1 -1 1 1	
616	P 4/M C C (0 0 G) S 0 S 0	P[P 4/M C C]S -1 S 1	
617	P 4/M C C (1/2 1/2 G)	W[P 4/M C C]1 -1 1 1	
618	P 4/N B M (0 0 G)	P[P 4/N B M]1 -1 1 1	$R_0, (3/4,3/4,0,0)$
619	P 4/N B M (0 0 G) S 0 S 0	P[P 4/N B M]S -1 S 1	$R_0, (3/4,3/4,0,0)$
620	P 4/N B M (0 0 G) 0 0 S S	P[P 4/N B M]1 -1 S S	$R_0, (3/4,3/4,0,0)$
621	P 4/N B M (0 0 G) S 0 0 S	P[P 4/N B M]S -1 1 S	$R_0, (3/4,3/4,0,0)$
622	P 4/N B M (1/2 1/2 G) Q 0 Q 0	W[P 4/N B M]Q -1 Q 1	$R_0, (3/4,3/4,0,3/4)$
623	P 4/N B M (1/2 1/2 G) Q 0 Q S	W[P 4/N B M]Q -1 Q S	$R_0, (1/4,1/4,0,1/4)$
624	P 4/N N C (0 0 G)	P[P 4/N N C]1 -1 1 1	$R_0, (3/4,3/4,3/4,0)$
625	P 4/N N C (0 0 G) S 0 S 0	P[P 4/N N C]S -1 S 1	$R_0, (3/4,3/4,3/4,0)$
626	P 4/N N C (1/2 1/2 G) Q 0 Q 0	W[P 4/N N C]Q -1 Q 1	$R_0, (3/4,3/4,3/4,3/4)$
627	P 4/M B M (0 0 G)	P[P 4/M B M]1 -1 1 1	
628	P 4/M B M (0 0 G) S 0 S 0	P[P 4/M B M]S -1 S 1	
629	P 4/M B M (0 0 G) 0 0 S S	P[P 4/M B M]1 -1 S S	
630	P 4/M B M (0 0 G) S 0 0 S	P[P 4/M B M]S -1 1 S	
631	P 4/M N C (0 0 G)	P[P 4/M N C]1 -1 1 1	
632	P 4/M N C (0 0 G) S 0 S 0	P[P 4/M N C]S -1 S 1	

633	P 4/N M M (0 0 G)	P[P 4/N M M]1 -1 1 1	$R_0, (3/4, 1/4, 0, 0)$
634	P 4/N M M (0 0 G) S 0 S 0	P[P 4/N M M]S -1 S 1	$R_0, (3/4, 1/4, 0, 0)$
635	P 4/N M M (0 0 G) 0 0 S S	P[P 4/N M M]1 -1 S S	$R_0, (3/4, 1/4, 0, 0)$
636	P 4/N M M (0 0 G) S 0 0 S	P[P 4/N M M]S -1 1 S	$R_0, (3/4, 1/4, 0, 0)$
637	P 4/N C C (0 0 G)	P[P 4/N C C]1 -1 1 1	$R_0, (3/4, 1/4, 0, 0)$
638	P 4/N C C (0 0 G) S 0 S 0	P[P 4/N C C]S -1 S 1	$R_0, (3/4, 1/4, 0, 0)$
639	P 42/M M C (0 0 G)	P[P 42/M M C]1 -1 1 1	
640	P 42/M M C (0 0 G) S 0 S 0	P[P 42/M M C]S -1 S 1	
641	P 42/M M C (1/2 1/2 G)	W[P 42/M M C]1 -1 1 1	
642	P 42/M C M (0 0 G)	P[P 42/M C M]1 -1 1 1	
643	P 42/M C M (0 0 G) 0 0 S S	P[P 42/M C M]1 -1 S S	
644	P 42/M C M (1/2 1/2 G)	W[P 42/M C M]1 -1 1 1	
645	P 42/M C M (1/2 1/2 G) 0 0 S S	W[P 42/M C M]1 -1 S S	
646	P 42/N B C (0 0 G)	P[P 42/N B C]1 -1 1 1	$R_0, (3/4, 1/4, 3/4, 0)$
647	P 42/N B C (0 0 G) S 0 S 0	P[P 42/N B C]S -1 S 1	$R_0, (3/4, 1/4, 3/4, 0)$
648	P 42/N B C (1/2 1/2 G) Q 0 Q 0	W[P 42/N B C]Q -1 Q 1	$R_2, (3/4, 1/4, 3/4, 0)$
649	P 42/N N M (0 0 G)	P[P 42/N N M]1 -1 1 1	$R_0, (3/4, 1/4, 3/4, 0)$
650	P 42/N N M (0 0 G) 0 0 S S	P[P 42/N N M]1 -1 S S	$R_0, (3/4, 1/4, 3/4, 0)$
651	P 42/N N M (1/2 1/2 G) Q 0 Q 0	W[P 42/N N M]Q -1 Q 1	$R_2, (3/4, 1/4, 3/4, 0)$
652	P 42/N N M (1/2 1/2 G) Q 0 Q S	W[P 42/N N M]Q -1 Q S	$R_1, (3/4, 1/4, 3/4, 1/4)$
653	P 42/M B C (0 0 G)	P[P 42/M B C]1 -1 1 1	
654	P 42/M B C (0 0 G) S 0 S 0	P[P 42/M B C]S -1 S 1	
655	P 42/M N M (0 0 G)	P[P 42/M N M]1 -1 1 1	
656	P 42/M N M (0 0 G) 0 0 S S	P[P 42/M N M]1 -1 S S	
657	P 42/N M C (0 0 G)	P[P 42/N M C]1 -1 1 1	$R_0, (3/4, 1/4, 3/4, 0)$
658	P 42/N M C (0 0 G) S 0 S 0	P[P 42/N M C]S -1 S 1	$R_0, (3/4, 1/4, 3/4, 0)$
659	P 42/N C M (0 0 G)	P[P 42/N C M]1 -1 1 1	$R_0, (3/4, 1/4, 3/4, 0)$
660	P 42/N C M (0 0 G) 0 0 S S	P[P 42/N C M]1 -1 S S	$R_0, (3/4, 1/4, 3/4, 0)$
661	I 4/M M M (0 0 G)	P[I 4/M M M]1 -1 1 1	
662	I 4/M M M (0 0 G) S 0 S 0	P[I 4/M M M]S -1 S 1	
663	I 4/M M M (0 0 G) 0 0 S S	P[I 4/M M M]1 -1 S S	
664	I 4/M M M (0 0 G) S 0 0 S	P[I 4/M M M]S -1 1 S	

665	I4/M C M (0 0 G)	P[I 4/M C M]1 -1 1 1	
666	I4/M C M (0 0 G) S 0 S 0	P[I 4/M C M]S -1 S 1	
667	I4/M C M (0 0 G) 0 0 S S	P[I 4/M C M]1 -1 S S	
668	I4/M C M (0 0 G) S 0 0 S	P[I 4/M C M]S -1 1 S	
669	I41/A M D (0 0 G)	P[I 41/A M D]1 -1 1 1	$R_0, (0,3/4,7/8,0)$
670	I41/A M D (0 0 G) S 0 S 0	P[I 41/A M D]S -1 S 1	$R_0, (0,3/4,7/8,0)$
671	I41/A C D (0 0 G)	P[I 41/A C D]1 -1 1 1	$R_0, (0,3/4,7/8,0)$
672	I41/A C D (0 0 G) S 0 S 0	P[I 41/A C D]S -1 S 1	$R_0, (0,3/4,7/8,0)$

Trigonal

673	P 3 (1/3 1/3 G)	R[P 3]1	
674	P 3 (0 0 G)	P[P 3]1	
675	P 3 (0 0 G) T	P[P 3]T	
676	P 31 (1/3 1/3 G)	R[P 31]1	
677	P 31 (0 0 G)	P[P 31]1	
678	P 32 (1/3 1/3 G)	R[P 32]1	
679	P 32 (0 0 G)	P[P 32]1	
680	R 3 (0 0 G)	P[R 3]1	
681	R 3 (0 0 G) T	P[R 3]T	
682	P -3 (1/3 1/3 G)	R[P -3]-1	
683	P -3 (0 0 G)	P[P -3]-1	
684	R -3 (0 0 G)	P[R -3]-1	
685	P 3 1 2 (1/3 1/3 G)	R[P 3 1 2]1 1 -1	
686	P 3 1 2 (0 0 G)	P[P 3 1 2]1 1 -1	
687	P 3 1 2 (0 0 G) T 0 0	P[P 3 1 2]T 1 -1	
688	P 3 2 1 (0 0 G)	P[P 3 2 1]1 -1 1	
689	P 3 2 1 (0 0 G) T 0 0	P[P 3 2 1]T -1 1	$R_0, (0,0,0,2/3)$
690	P 31 1 2 (1/3 1/3 G)	R[P 31 1 2]1 1 -1	
691	P 31 1 2 (0 0 G)	P[P 31 1 2]1 1 -1	
692	P 31 2 1 (0 0 G)	P[P 31 2 1]1 -1 1	
693	P 32 1 2 (1/3 1/3 G)	R[P 32 1 2]1 1 -1	
694	P 32 1 2 (0 0 G)	P[P 32 1 2]1 1 -1	
695	P 32 2 1 (0 0 G)	P[P 32 2 1]1 -1 1	

696	R 3 2 (0 0 G)	P[R 3 2]1 -1	
697	R 3 2 (0 0 G) T 0	P[R 3 2]T -1	$R_0, (0,0,0,2/3)$
698	P 3 M 1 (0 0 G)	P[P 3 M 1]1 1 1	
699	P 3 M 1 (0 0 G) 0 S 0	P[P 3 M 1]1 S 1	
700	P 3 1 M (1/3 1/3 G)	R[P 3 1 M]1 1 1	
701	P 3 1 M (1/3 1/3 G) 0 0 S	R[P 3 1 M]1 1 S	
702	P 3 1 M (0 0 G)	P[P 3 1 M]1 1 1	
703	P 3 1 M (0 0 G) 0 0 S	P[P 3 1 M]1 1 S	
704	P 3 C 1 (0 0 G)	P[P 3 C 1]1 1 1	
705	P 3 1 C (1/3 1/3 G)	R[P 3 1 C]1 1 1	
706	P 3 1 C (0 0 G)	P[P 3 1 C]1 1 1	
707	R 3 M (0 0 G)	P[R 3 M]1 1	
708	R 3 M (0 0 G) 0 S	P[R 3 M]1 S	
709	R 3 C (0 0 G)	P[R 3 C]1 1	
710	P -3 1 M (1/3 1/3 G)	R[P -3 1 M]-1 1 1	
711	P -3 1 M (1/3 1/3 G) 0 0 S	R[P -3 1 M]-1 1 S	
712	P -3 1 M (0 0 G)	P[P -3 1 M]-1 1 1	
713	P -3 1 M (0 0 G) 0 0 S	P[P -3 1 M]-1 1 S	
714	P -3 1 C (1/3 1/3 G)	R[P -3 1 C]-1 1 1	
715	P -3 1 C (0 0 G)	P[P -3 1 C]-1 1 1	
716	P -3 M 1 (0 0 G)	P[P -3 M 1]-1 1 1	
717	P -3 M 1 (0 0 G) 0 S 0	P[P -3 M 1]-1 S 1	
718	P -3 C 1 (0 0 G)	P[P -3 C 1]-1 1 1	
719	R -3 M (0 0 G)	P[R -3 M]-1 1	
720	R -3 M (0 0 G) 0 S	P[R -3 M]-1 S	
721	R -3 C (0 0 G)	P[R -3 C]-1 1	

Hexagonal

722	P 6 (0 0 G)	P[P 6]1
723	P 6 (0 0 G) H	P[P 6]H
724	P 6 (0 0 G) T	P[P 6]T
725	P 6 (0 0 G) S	P[P 6]S
726	P 6 1 (0 0 G)	P[P 6 1]1

727	P 65 (0 0 G)	P[P 65]1	
728	P 62 (0 0 G)	P[P 62]1	
729	P 62 (0 0 G) H	P[P 62]H	
730	P 64 (0 0 G)	P[P 64]1	
731	P 64 (0 0 G) H	P[P 64]H	
732	P 63 (0 0 G)	P[P 63]1	
733	P 63 (0 0 G) H	P[P 63]H	
734	P -6 (0 0 G)	P[P -6]-1	
735	P 6/M (0 0 G)	P[P 6/M]1 -1	
736	P 6/M (0 0 G) S 0	P[P 6/M]S -1	$R_0, (0,0,0,3/4)$
737	P 63/M (0 0 G)	P[P 63/M]1 -1	
738	P 6 2 2 (0 0 G)	P[P 6 2 2]1 -1 -1	
739	P 6 2 2 (0 0 G) H 0 0	P[P 6 2 2]H -1 -1	$R_1, (0,0,0,2/3)$
740	P 6 2 2 (0 0 G) T 0 0	P[P 6 2 2]T -1 -1	$R_1, (0,0,0,1/3)$
741	P 6 2 2 (0 0 G) S 0 0	P[P 6 2 2]S -1 -1	
742	P 61 2 2 (0 0 G)	P[P 61 2 2]1 -1 -1	
743	P 65 2 2 (0 0 G)	P[P 65 2 2]1 -1 -1	
744	P 62 2 2 (0 0 G)	P[P 62 2 2]1 -1 -1	
745	P 62 2 2 (0 0 G) H 0 0	P[P 62 2 2]H -1 -1	$R_1, (0,0,0,2/3)$
746	P 64 2 2 (0 0 G)	P[P 64 2 2]1 -1 -1	
747	P 64 2 2 (0 0 G) H 0 0	P[P 64 2 2]H -1 -1	$R_1, (0,0,0,2/3)$
748	P 63 2 2 (0 0 G)	P[P 63 2 2]1 -1 -1	
749	P 63 2 2 (0 0 G) H 0 0	P[P 63 2 2]H -1 -1	$R_1, (0,0,0,2/3)$
750	P 6 M M (0 0 G)	P[P 6 M M]1 1 1	
751	P 6 M M (0 0 G) S S 0	P[P 6 M M]S S 1	
752	P 6 M M (0 0 G) 0 S S	P[P 6 M M]1 S S	
753	P 6 M M (0 0 G) S 0 S	P[P 6 M M]S 1 S	
754	P 6 C C (0 0 G)	P[P 6 C C]1 1 1	
755	P 6 C C (0 0 G) S 0 S	P[P 6 C C]S 1 S	
756	P 63 C M (0 0 G)	P[P 63 C M]1 1 1	
757	P 63 C M (0 0 G) 0 S S	P[P 63 C M]1 S S	
758	P 63 M C (0 0 G)	P[P 63 M C]1 1 1	

759	P 63 M C (0 0 G) 0 S S	P[P 63 M C]1 S S	
760	P -6 M 2 (0 0 G)	P[P -6 M 2]-1 1 -1	
761	P -6 M 2 (0 0 G) 0 S 0	P[P -6 M 2]-1 S -1	$R_0, (0,0,0,3/4)$
762	P -6 C 2 (0 0 G)	P[P -6 C 2]-1 1 -1	
763	P -6 2 M (0 0 G)	P[P -6 2 M]-1 -1 1	
764	P -6 2 M (0 0 G) 0 0 S	P[P -6 2 M]-1 -1 S	$R_0, (0,0,0,3/4)$
765	P -6 2 C (0 0 G)	P[P -6 2 C]-1 -1 1	
766	P 6/M M M (0 0 G)	P[P 6/M M M]1 -1 1 1	
767	P 6/M M M (0 0 G) S 0 S 0	P[P 6/M M M]S -1 S 1	$R_0, (0,0,0,3/4)$
768	P 6/M M M (0 0 G) 0 0 S S	P[P 6/M M M]1 -1 S S	
769	P 6/M M M (0 0 G) S 0 0 S	P[P 6/M M M]S -1 1 S	$R_0, (0,0,0,3/4)$
770	P 6/M C C (0 0 G)	P[P 6/M C C]1 -1 1 1	
771	P 6/M C C (0 0 G) S 0 0 S	P[P 6/M C C]S -1 1 S	$R_0, (0,0,0,3/4)$
772	P 63/M C M (0 0 G)	P[P 63/M C M]1 -1 1 1	
773	P 63/M C M (0 0 G) 0 0 S S	P[P 63/M C M]1 -1 S S	
774	P 63/M M C (0 0 G)	P[P 63/M M C]1 -1 1 1	
775	P 63/M M C (0 0 G) 0 0 S S	P[P 63/M M C]1 -1 S S	