

MSG No. 210.52 $F4_132$ [Type I, cubic]

Table 1: Wyckoff site: 8a, site symmetry: 23.

No.	position	mapping
1	[0, 0, 0]	[1,8,9,10,17,18,19,20,21,22,23,24]
2	[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]	[2,3,4,5,6,7,11,12,13,14,15,16]
3	[0, \frac{1}{2}, \frac{1}{2}]	[25,32,33,34,41,42,43,44,45,46,47,48]
4	[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]	[26,27,28,29,30,31,35,36,37,38,39,40]
5	[\frac{1}{2}, 0, \frac{1}{2}]	[49,56,57,58,65,66,67,68,69,70,71,72]
6	[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]	[50,51,52,53,54,55,59,60,61,62,63,64]
7	[\frac{1}{2}, \frac{1}{2}, 0]	[73,80,81,82,89,90,91,92,93,94,95,96]
8	[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]	[74,75,76,77,78,79,83,84,85,86,87,88]

Table 2: Wyckoff site: 8b, site symmetry: 23.

No.	position	mapping
1	[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]	[1,8,9,10,17,18,19,20,21,22,23,24]
2	[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]	[2,3,4,5,6,7,11,12,13,14,15,16]
3	[\frac{1}{2}, 0, 0]	[25,32,33,34,41,42,43,44,45,46,47,48]
4	[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]	[26,27,28,29,30,31,35,36,37,38,39,40]
5	[0, \frac{1}{2}, 0]	[49,56,57,58,65,66,67,68,69,70,71,72]
6	[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]	[50,51,52,53,54,55,59,60,61,62,63,64]
7	[0, 0, \frac{1}{2}]	[73,80,81,82,89,90,91,92,93,94,95,96]
8	[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]	[74,75,76,77,78,79,83,84,85,86,87,88]

Table 3: Wyckoff site: 16c, site symmetry: .32

No.	position	mapping
1	[\frac{1}{8}, \frac{1}{8}, \frac{1}{8}]	[1,12,14,16,17,18]
2	[\frac{3}{8}, \frac{1}{8}, \frac{3}{8}]	[2,7,15,57,67,72]
3	[\frac{3}{8}, \frac{3}{8}, \frac{1}{8}]	[3,4,11,82,92,93]
4	[\frac{1}{8}, \frac{3}{8}, \frac{3}{8}]	[5,6,13,32,46,47]
5	[\frac{1}{8}, \frac{7}{8}, \frac{7}{8}]	[8,22,23,29,30,37]
6	[\frac{7}{8}, \frac{1}{8}, \frac{7}{8}]	[9,19,24,50,55,63]
7	[\frac{7}{8}, \frac{7}{8}, \frac{1}{8}]	[10,20,21,75,76,83]
8	[\frac{1}{8}, \frac{5}{8}, \frac{5}{8}]	[25,36,38,40,41,42]
9	[\frac{3}{8}, \frac{5}{8}, \frac{7}{8}]	[26,31,39,81,91,96]
10	[\frac{3}{8}, \frac{7}{8}, \frac{5}{8}]	[27,28,35,58,68,69]
11	[\frac{7}{8}, \frac{5}{8}, \frac{3}{8}]	[33,43,48,74,79,87]
12	[\frac{7}{8}, \frac{3}{8}, \frac{5}{8}]	[34,44,45,51,52,59]
13	[\frac{5}{8}, \frac{1}{8}, \frac{5}{8}]	[49,60,62,64,65,66]
14	[\frac{5}{8}, \frac{3}{8}, \frac{7}{8}]	[53,54,61,80,94,95]
15	[\frac{5}{8}, \frac{7}{8}, \frac{3}{8}]	[56,70,71,77,78,85]

continued ...

Table 3

No.	position	mapping
16	$[\frac{5}{8}, \frac{5}{8}, \frac{1}{8}]$	[73,84,86,88,89,90]

Table 4: Wyckoff site: 16d, site symmetry: .32

No.	position	mapping
1	$[\frac{5}{8}, \frac{5}{8}, \frac{5}{8}]$	[1,12,14,16,17,18]
2	$[\frac{7}{8}, \frac{5}{8}, \frac{7}{8}]$	[2,7,15,57,67,72]
3	$[\frac{7}{8}, \frac{7}{8}, \frac{5}{8}]$	[3,4,11,82,92,93]
4	$[\frac{5}{8}, \frac{7}{8}, \frac{7}{8}]$	[5,6,13,32,46,47]
5	$[\frac{5}{8}, \frac{3}{8}, \frac{3}{8}]$	[8,22,23,29,30,37]
6	$[\frac{3}{8}, \frac{5}{8}, \frac{3}{8}]$	[9,19,24,50,55,63]
7	$[\frac{3}{8}, \frac{3}{8}, \frac{5}{8}]$	[10,20,21,75,76,83]
8	$[\frac{5}{8}, \frac{1}{8}, \frac{1}{8}]$	[25,36,38,40,41,42]
9	$[\frac{7}{8}, \frac{1}{8}, \frac{3}{8}]$	[26,31,39,81,91,96]
10	$[\frac{7}{8}, \frac{3}{8}, \frac{1}{8}]$	[27,28,35,58,68,69]
11	$[\frac{3}{8}, \frac{1}{8}, \frac{7}{8}]$	[33,43,48,74,79,87]
12	$[\frac{3}{8}, \frac{7}{8}, \frac{1}{8}]$	[34,44,45,51,52,59]
13	$[\frac{1}{8}, \frac{5}{8}, \frac{1}{8}]$	[49,60,62,64,65,66]
14	$[\frac{1}{8}, \frac{7}{8}, \frac{3}{8}]$	[53,54,61,80,94,95]
15	$[\frac{1}{8}, \frac{3}{8}, \frac{7}{8}]$	[56,70,71,77,78,85]
16	$[\frac{1}{8}, \frac{1}{8}, \frac{5}{8}]$	[73,84,86,88,89,90]

Table 5: Wyckoff site: 32e, site symmetry: .3.

No.	position	mapping
1	$[x, x, x]$	[1,17,18]
2	$[x + \frac{1}{4}, \frac{1}{4} - x, x + \frac{1}{4}]$	[2,7,15]
3	$[x + \frac{1}{4}, x + \frac{1}{4}, \frac{1}{4} - x]$	[3,4,11]
4	$[\frac{1}{4} - x, x + \frac{1}{4}, x + \frac{1}{4}]$	[5,6,13]
5	$[x, -x, -x]$	[8,22,23]
6	$[-x, x, -x]$	[9,19,24]
7	$[-x, -x, x]$	[10,20,21]
8	$[\frac{1}{4} - x, \frac{1}{4} - x, \frac{1}{4} - x]$	[12,14,16]
9	$[x, x + \frac{1}{2}, x + \frac{1}{2}]$	[25,41,42]
10	$[x + \frac{1}{4}, \frac{3}{4} - x, x + \frac{3}{4}]$	[26,31,39]
11	$[x + \frac{1}{4}, x + \frac{3}{4}, \frac{3}{4} - x]$	[27,28,35]
12	$[\frac{1}{4} - x, x + \frac{3}{4}, x + \frac{3}{4}]$	[29,30,37]
13	$[x, \frac{1}{2} - x, \frac{1}{2} - x]$	[32,46,47]
14	$[-x, x + \frac{1}{2}, \frac{1}{2} - x]$	[33,43,48]
15	$[-x, \frac{1}{2} - x, x + \frac{1}{2}]$	[34,44,45]
16	$[\frac{1}{4} - x, \frac{3}{4} - x, \frac{3}{4} - x]$	[36,38,40]
17	$[x + \frac{1}{2}, x, x + \frac{1}{2}]$	[49,65,66]

continued ...

Table 5

No.	position	mapping
18	$[x + \frac{3}{4}, \frac{1}{4} - x, x + \frac{3}{4}]$	[50,55,63]
19	$[x + \frac{3}{4}, x + \frac{1}{4}, \frac{3}{4} - x]$	[51,52,59]
20	$[\frac{3}{4} - x, x + \frac{1}{4}, x + \frac{3}{4}]$	[53,54,61]
21	$[x + \frac{1}{2}, -x, \frac{1}{2} - x]$	[56,70,71]
22	$[\frac{1}{2} - x, x, \frac{1}{2} - x]$	[57,67,72]
23	$[\frac{1}{2} - x, -x, x + \frac{1}{2}]$	[58,68,69]
24	$[\frac{3}{4} - x, \frac{1}{4} - x, \frac{3}{4} - x]$	[60,62,64]
25	$[x + \frac{1}{2}, x + \frac{1}{2}, x]$	[73,89,90]
26	$[x + \frac{3}{4}, \frac{3}{4} - x, x + \frac{1}{4}]$	[74,79,87]
27	$[x + \frac{3}{4}, x + \frac{3}{4}, \frac{1}{4} - x]$	[75,76,83]
28	$[\frac{3}{4} - x, x + \frac{3}{4}, x + \frac{1}{4}]$	[77,78,85]
29	$[x + \frac{1}{2}, \frac{1}{2} - x, -x]$	[80,94,95]
30	$[\frac{1}{2} - x, x + \frac{1}{2}, -x]$	[81,91,96]
31	$[\frac{1}{2} - x, \frac{1}{2} - x, x]$	[82,92,93]
32	$[\frac{3}{4} - x, \frac{3}{4} - x, \frac{1}{4} - x]$	[84,86,88]

Table 6: Wyckoff site: 48f, site symmetry: 2..

No.	position	mapping
1	$[x, 0, 0]$	[1,8]
2	$[x + \frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	[2,3]
3	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4} - x]$	[4,16]
4	$[\frac{1}{4}, \frac{1}{4}, x + \frac{1}{4}]$	[5,15]
5	$[\frac{1}{4}, x + \frac{1}{4}, \frac{1}{4}]$	[6,11]
6	$[\frac{1}{4}, \frac{1}{4} - x, \frac{1}{4}]$	[7,12]
7	$[-x, 0, 0]$	[9,10]
8	$[\frac{1}{4} - x, \frac{1}{4}, \frac{1}{4}]$	[13,14]
9	$[0, x, 0]$	[17,24]
10	$[0, 0, x]$	[18,21]
11	$[0, 0, -x]$	[19,23]
12	$[0, -x, 0]$	[20,22]
13	$[x, \frac{1}{2}, \frac{1}{2}]$	[25,32]
14	$[x + \frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	[26,27]
15	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4} - x]$	[28,40]
16	$[\frac{1}{4}, \frac{3}{4}, x + \frac{3}{4}]$	[29,39]
17	$[\frac{1}{4}, x + \frac{3}{4}, \frac{3}{4}]$	[30,35]
18	$[\frac{1}{4}, \frac{3}{4} - x, \frac{3}{4}]$	[31,36]
19	$[-x, \frac{1}{2}, \frac{1}{2}]$	[33,34]
20	$[\frac{1}{4} - x, \frac{3}{4}, \frac{3}{4}]$	[37,38]
21	$[0, x + \frac{1}{2}, \frac{1}{2}]$	[41,48]
22	$[0, \frac{1}{2}, x + \frac{1}{2}]$	[42,45]
23	$[0, \frac{1}{2}, \frac{1}{2} - x]$	[43,47]
24	$[0, \frac{1}{2} - x, \frac{1}{2}]$	[44,46]
25	$[x + \frac{1}{2}, 0, \frac{1}{2}]$	[49,56]

continued ...

Table 6

No.	position	mapping
26	$[x + \frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	[50,51]
27	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4} - x]$	[52,64]
28	$[\frac{3}{4}, \frac{1}{4}, x + \frac{3}{4}]$	[53,63]
29	$[\frac{3}{4}, x + \frac{1}{4}, \frac{3}{4}]$	[54,59]
30	$[\frac{3}{4}, \frac{1}{4} - x, \frac{3}{4}]$	[55,60]
31	$[\frac{1}{2} - x, 0, \frac{1}{2}]$	[57,58]
32	$[\frac{3}{4} - x, \frac{1}{4}, \frac{3}{4}]$	[61,62]
33	$[\frac{1}{2}, x, \frac{1}{2}]$	[65,72]
34	$[\frac{1}{2}, 0, x + \frac{1}{2}]$	[66,69]
35	$[\frac{1}{2}, 0, \frac{1}{2} - x]$	[67,71]
36	$[\frac{1}{2}, -x, \frac{1}{2}]$	[68,70]
37	$[x + \frac{1}{2}, \frac{1}{2}, 0]$	[73,80]
38	$[x + \frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	[74,75]
39	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4} - x]$	[76,88]
40	$[\frac{3}{4}, \frac{3}{4}, x + \frac{1}{4}]$	[77,87]
41	$[\frac{3}{4}, x + \frac{3}{4}, \frac{1}{4}]$	[78,83]
42	$[\frac{3}{4}, \frac{3}{4} - x, \frac{1}{4}]$	[79,84]
43	$[\frac{1}{2} - x, \frac{1}{2}, 0]$	[81,82]
44	$[\frac{3}{4} - x, \frac{3}{4}, \frac{1}{4}]$	[85,86]
45	$[\frac{1}{2}, x + \frac{1}{2}, 0]$	[89,96]
46	$[\frac{1}{2}, \frac{1}{2}, x]$	[90,93]
47	$[\frac{1}{2}, \frac{1}{2}, -x]$	[91,95]
48	$[\frac{1}{2}, \frac{1}{2} - x, 0]$	[92,94]

Table 7: Wyckoff site: 48g, site symmetry: . . 2

No.	position	mapping
1	$[\frac{1}{8}, y, \frac{1}{4} - y]$	[1,14]
2	$[\frac{3}{8}, y, y + \frac{1}{4}]$	[2,57]
3	$[\frac{3}{8}, \frac{1}{2} - y, \frac{1}{4} - y]$	[3,82]
4	$[\frac{1}{2} - y, y + \frac{1}{4}, \frac{1}{8}]$	[4,93]
5	$[y, y + \frac{1}{4}, \frac{3}{8}]$	[5,47]
6	$[\frac{1}{4} - y, \frac{3}{8}, \frac{1}{2} - y]$	[6,46]
7	$[y + \frac{1}{4}, \frac{1}{8}, \frac{1}{2} - y]$	[7,72]
8	$[\frac{1}{8}, -y, y + \frac{3}{4}]$	[8,37]
9	$[\frac{7}{8}, y, y + \frac{3}{4}]$	[9,50]
10	$[\frac{7}{8}, -y, \frac{1}{4} - y]$	[10,75]
11	$[y + \frac{1}{4}, \frac{3}{8}, y]$	[11,92]
12	$[\frac{1}{4} - y, \frac{1}{8}, y]$	[12,17]
13	$[\frac{1}{8}, \frac{1}{2} - y, y + \frac{1}{4}]$	[13,32]
14	$[\frac{1}{2} - y, \frac{1}{4} - y, \frac{3}{8}]$	[15,67]
15	$[y, \frac{1}{4} - y, \frac{1}{8}]$	[16,18]
16	$[-y, \frac{1}{4} - y, \frac{7}{8}]$	[19,63]
17	$[y + \frac{3}{4}, \frac{7}{8}, y]$	[20,83]

continued ...

Table 7

No.	position	mapping
18	$[-y, y + \frac{3}{4}, \frac{1}{8}]$	[21, 76]
19	$[\frac{1}{4} - y, \frac{7}{8}, -y]$	[22, 30]
20	$[y, y + \frac{3}{4}, \frac{7}{8}]$	[23, 29]
21	$[y + \frac{3}{4}, \frac{1}{8}, -y]$	[24, 55]
22	$[\frac{1}{8}, y + \frac{1}{2}, \frac{3}{4} - y]$	[25, 38]
23	$[\frac{3}{8}, y + \frac{1}{2}, y + \frac{3}{4}]$	[26, 81]
24	$[\frac{3}{8}, -y, \frac{3}{4} - y]$	[27, 58]
25	$[\frac{1}{2} - y, y + \frac{3}{4}, \frac{5}{8}]$	[28, 69]
26	$[y + \frac{1}{4}, \frac{5}{8}, -y]$	[31, 96]
27	$[\frac{7}{8}, y + \frac{1}{2}, y + \frac{1}{4}]$	[33, 74]
28	$[\frac{7}{8}, \frac{1}{2} - y, \frac{3}{4} - y]$	[34, 51]
29	$[y + \frac{1}{4}, \frac{7}{8}, y + \frac{1}{2}]$	[35, 68]
30	$[\frac{1}{4} - y, \frac{5}{8}, y + \frac{1}{2}]$	[36, 41]
31	$[\frac{1}{2} - y, \frac{3}{4} - y, \frac{7}{8}]$	[39, 91]
32	$[y, \frac{3}{4} - y, \frac{5}{8}]$	[40, 42]
33	$[-y, \frac{3}{4} - y, \frac{3}{8}]$	[43, 87]
34	$[y + \frac{3}{4}, \frac{3}{8}, y + \frac{1}{2}]$	[44, 59]
35	$[-y, y + \frac{1}{4}, \frac{5}{8}]$	[45, 52]
36	$[y + \frac{3}{4}, \frac{5}{8}, \frac{1}{2} - y]$	[48, 79]
37	$[\frac{5}{8}, y, \frac{3}{4} - y]$	[49, 62]
38	$[y + \frac{1}{2}, y + \frac{1}{4}, \frac{7}{8}]$	[53, 95]
39	$[\frac{3}{4} - y, \frac{3}{8}, -y]$	[54, 94]
40	$[\frac{5}{8}, -y, y + \frac{1}{4}]$	[56, 85]
41	$[\frac{3}{4} - y, \frac{1}{8}, y + \frac{1}{2}]$	[60, 65]
42	$[\frac{5}{8}, \frac{1}{2} - y, y + \frac{3}{4}]$	[61, 80]
43	$[y + \frac{1}{2}, \frac{1}{4} - y, \frac{5}{8}]$	[64, 66]
44	$[\frac{3}{4} - y, \frac{7}{8}, \frac{1}{2} - y]$	[70, 78]
45	$[y + \frac{1}{2}, y + \frac{3}{4}, \frac{3}{8}]$	[71, 77]
46	$[\frac{5}{8}, y + \frac{1}{2}, \frac{1}{4} - y]$	[73, 86]
47	$[\frac{3}{4} - y, \frac{5}{8}, y]$	[84, 89]
48	$[y + \frac{1}{2}, \frac{3}{4} - y, \frac{1}{8}]$	[88, 90]

Table 8: Wyckoff site: 96h, site symmetry: 1

No.	position	mapping
1	$[x, y, z]$	[1]
2	$[x + \frac{1}{4}, \frac{1}{4} - z, y + \frac{1}{4}]$	[2]
3	$[x + \frac{1}{4}, z + \frac{1}{4}, \frac{1}{4} - y]$	[3]
4	$[z + \frac{1}{4}, y + \frac{1}{4}, \frac{1}{4} - x]$	[4]
5	$[\frac{1}{4} - z, y + \frac{1}{4}, x + \frac{1}{4}]$	[5]
6	$[\frac{1}{4} - y, x + \frac{1}{4}, z + \frac{1}{4}]$	[6]
7	$[y + \frac{1}{4}, \frac{1}{4} - x, z + \frac{1}{4}]$	[7]
8	$[x, -y, -z]$	[8]
9	$[-x, y, -z]$	[9]

continued ...

Table 8

No.	position	mapping
10	$[-x, -y, z]$	[10]
11	$[y + \frac{1}{4}, x + \frac{1}{4}, \frac{1}{4} - z]$	[11]
12	$[\frac{1}{4} - y, \frac{1}{4} - x, \frac{1}{4} - z]$	[12]
13	$[\frac{1}{4} - x, z + \frac{1}{4}, y + \frac{1}{4}]$	[13]
14	$[\frac{1}{4} - x, \frac{1}{4} - z, \frac{1}{4} - y]$	[14]
15	$[z + \frac{1}{4}, \frac{1}{4} - y, x + \frac{1}{4}]$	[15]
16	$[\frac{1}{4} - z, \frac{1}{4} - y, \frac{1}{4} - x]$	[16]
17	$[z, x, y]$	[17]
18	$[y, z, x]$	[18]
19	$[-y, z, -x]$	[19]
20	$[-z, -x, y]$	[20]
21	$[-y, -z, x]$	[21]
22	$[z, -x, -y]$	[22]
23	$[y, -z, -x]$	[23]
24	$[-z, x, -y]$	[24]
25	$[x, y + \frac{1}{2}, z + \frac{1}{2}]$	[25]
26	$[x + \frac{1}{4}, \frac{3}{4} - z, y + \frac{3}{4}]$	[26]
27	$[x + \frac{1}{4}, z + \frac{3}{4}, \frac{3}{4} - y]$	[27]
28	$[z + \frac{1}{4}, y + \frac{3}{4}, \frac{3}{4} - x]$	[28]
29	$[\frac{1}{4} - z, y + \frac{3}{4}, x + \frac{3}{4}]$	[29]
30	$[\frac{1}{4} - y, x + \frac{3}{4}, z + \frac{3}{4}]$	[30]
31	$[y + \frac{1}{4}, \frac{3}{4} - x, z + \frac{3}{4}]$	[31]
32	$[x, \frac{1}{2} - y, \frac{1}{2} - z]$	[32]
33	$[-x, y + \frac{1}{2}, \frac{1}{2} - z]$	[33]
34	$[-x, \frac{1}{2} - y, z + \frac{1}{2}]$	[34]
35	$[y + \frac{1}{4}, x + \frac{3}{4}, \frac{3}{4} - z]$	[35]
36	$[\frac{1}{4} - y, \frac{3}{4} - x, \frac{3}{4} - z]$	[36]
37	$[\frac{1}{4} - x, z + \frac{3}{4}, y + \frac{3}{4}]$	[37]
38	$[\frac{1}{4} - x, \frac{3}{4} - z, \frac{3}{4} - y]$	[38]
39	$[z + \frac{1}{4}, \frac{3}{4} - y, x + \frac{3}{4}]$	[39]
40	$[\frac{1}{4} - z, \frac{3}{4} - y, \frac{3}{4} - x]$	[40]
41	$[z, x + \frac{1}{2}, y + \frac{1}{2}]$	[41]
42	$[y, z + \frac{1}{2}, x + \frac{1}{2}]$	[42]
43	$[-y, z + \frac{1}{2}, \frac{1}{2} - x]$	[43]
44	$[-z, \frac{1}{2} - x, y + \frac{1}{2}]$	[44]
45	$[-y, \frac{1}{2} - z, x + \frac{1}{2}]$	[45]
46	$[z, \frac{1}{2} - x, \frac{1}{2} - y]$	[46]
47	$[y, \frac{1}{2} - z, \frac{1}{2} - x]$	[47]
48	$[-z, x + \frac{1}{2}, \frac{1}{2} - y]$	[48]
49	$[x + \frac{1}{2}, y, z + \frac{1}{2}]$	[49]
50	$[x + \frac{3}{4}, \frac{1}{4} - z, y + \frac{3}{4}]$	[50]
51	$[x + \frac{3}{4}, z + \frac{1}{4}, \frac{3}{4} - y]$	[51]
52	$[z + \frac{3}{4}, y + \frac{1}{4}, \frac{3}{4} - x]$	[52]
53	$[\frac{3}{4} - z, y + \frac{1}{4}, x + \frac{3}{4}]$	[53]
54	$[\frac{3}{4} - y, x + \frac{1}{4}, z + \frac{3}{4}]$	[54]
55	$[y + \frac{3}{4}, \frac{1}{4} - x, z + \frac{3}{4}]$	[55]
56	$[x + \frac{1}{2}, -y, \frac{1}{2} - z]$	[56]

continued ...

Table 8

No.	position	mapping
57	$[\frac{1}{2} - x, y, \frac{1}{2} - z]$	[57]
58	$[\frac{1}{2} - x, -y, z + \frac{1}{2}]$	[58]
59	$[y + \frac{3}{4}, x + \frac{1}{4}, \frac{3}{4} - z]$	[59]
60	$[\frac{3}{4} - y, \frac{1}{4} - x, \frac{3}{4} - z]$	[60]
61	$[\frac{3}{4} - x, z + \frac{1}{4}, y + \frac{3}{4}]$	[61]
62	$[\frac{3}{4} - x, \frac{1}{4} - z, \frac{3}{4} - y]$	[62]
63	$[z + \frac{3}{4}, \frac{1}{4} - y, x + \frac{3}{4}]$	[63]
64	$[\frac{3}{4} - z, \frac{1}{4} - y, \frac{3}{4} - x]$	[64]
65	$[z + \frac{1}{2}, x, y + \frac{1}{2}]$	[65]
66	$[y + \frac{1}{2}, z, x + \frac{1}{2}]$	[66]
67	$[\frac{1}{2} - y, z, \frac{1}{2} - x]$	[67]
68	$[\frac{1}{2} - z, -x, y + \frac{1}{2}]$	[68]
69	$[\frac{1}{2} - y, -z, x + \frac{1}{2}]$	[69]
70	$[z + \frac{1}{2}, -x, \frac{1}{2} - y]$	[70]
71	$[y + \frac{1}{2}, -z, \frac{1}{2} - x]$	[71]
72	$[\frac{1}{2} - z, x, \frac{1}{2} - y]$	[72]
73	$[x + \frac{1}{2}, y + \frac{1}{2}, z]$	[73]
74	$[x + \frac{3}{4}, \frac{3}{4} - z, y + \frac{1}{4}]$	[74]
75	$[x + \frac{3}{4}, z + \frac{3}{4}, \frac{1}{4} - y]$	[75]
76	$[z + \frac{3}{4}, y + \frac{3}{4}, \frac{1}{4} - x]$	[76]
77	$[\frac{3}{4} - z, y + \frac{3}{4}, x + \frac{1}{4}]$	[77]
78	$[\frac{3}{4} - y, x + \frac{3}{4}, z + \frac{1}{4}]$	[78]
79	$[y + \frac{3}{4}, \frac{3}{4} - x, z + \frac{1}{4}]$	[79]
80	$[x + \frac{1}{2}, \frac{1}{2} - y, -z]$	[80]
81	$[\frac{1}{2} - x, y + \frac{1}{2}, -z]$	[81]
82	$[\frac{1}{2} - x, \frac{1}{2} - y, z]$	[82]
83	$[y + \frac{3}{4}, x + \frac{3}{4}, \frac{1}{4} - z]$	[83]
84	$[\frac{3}{4} - y, \frac{3}{4} - x, \frac{1}{4} - z]$	[84]
85	$[\frac{3}{4} - x, z + \frac{3}{4}, y + \frac{1}{4}]$	[85]
86	$[\frac{3}{4} - x, \frac{3}{4} - z, \frac{1}{4} - y]$	[86]
87	$[z + \frac{3}{4}, \frac{3}{4} - y, x + \frac{1}{4}]$	[87]
88	$[\frac{3}{4} - z, \frac{3}{4} - y, \frac{1}{4} - x]$	[88]
89	$[z + \frac{1}{2}, x + \frac{1}{2}, y]$	[89]
90	$[y + \frac{1}{2}, z + \frac{1}{2}, x]$	[90]
91	$[\frac{1}{2} - y, z + \frac{1}{2}, -x]$	[91]
92	$[\frac{1}{2} - z, \frac{1}{2} - x, y]$	[92]
93	$[\frac{1}{2} - y, \frac{1}{2} - z, x]$	[93]
94	$[z + \frac{1}{2}, \frac{1}{2} - x, -y]$	[94]
95	$[y + \frac{1}{2}, \frac{1}{2} - z, -x]$	[95]
96	$[\frac{1}{2} - z, x + \frac{1}{2}, -y]$	[96]