

MSG No. 219.85 $F\bar{4}3c$ [Type I, cubic]

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

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

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

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

Table 3: Wyckoff site: 24c, site symmetry: -4..

No.	position	mapping
1	[0, \frac{1}{4}, \frac{1}{4}]	[1, 26, 62, 85]
2	[0, \frac{3}{4}, \frac{3}{4}]	[2, 25, 61, 86]
3	[0, \frac{1}{4}, \frac{3}{4}]	[3, 28, 69, 94]
4	[0, \frac{3}{4}, \frac{1}{4}]	[4, 27, 70, 93]
5	[\frac{1}{4}, 0, \frac{1}{4}]	[5, 43, 60, 89]
6	[\frac{1}{4}, \frac{1}{4}, 0]	[6, 47, 64, 81]
7	[\frac{3}{4}, \frac{1}{4}, 0]	[7, 48, 63, 83]
8	[\frac{3}{4}, 0, \frac{1}{4}]	[8, 44, 58, 90]
9	[\frac{3}{4}, \frac{3}{4}, 0]	[9, 40, 71, 78]
10	[\frac{1}{4}, 0, \frac{3}{4}]	[10, 42, 56, 92]
11	[\frac{1}{4}, \frac{3}{4}, 0]	[11, 39, 72, 79]
12	[\frac{3}{4}, 0, \frac{3}{4}]	[12, 41, 53, 91]
13	[\frac{1}{2}, \frac{3}{4}, \frac{1}{4}]	[13, 38, 50, 73]
14	[\frac{1}{2}, \frac{1}{4}, \frac{3}{4}]	[14, 37, 49, 74]
15	[\frac{1}{4}, \frac{1}{4}, \frac{1}{2}]	[15, 35, 55, 96]

continued ...

Table 3

No.	position	mapping
16	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	[16,33,54,95]
17	$[\frac{3}{4}, \frac{1}{2}, \frac{1}{4}]$	[17,36,67,77]
18	$[\frac{1}{4}, \frac{1}{2}, \frac{1}{4}]$	[18,34,68,80]
19	$[\frac{1}{4}, \frac{1}{2}, \frac{3}{4}]$	[19,29,65,84]
20	$[\frac{3}{4}, \frac{1}{2}, \frac{3}{4}]$	[20,32,66,82]
21	$[\frac{1}{2}, \frac{1}{4}, \frac{1}{4}]$	[21,46,51,76]
22	$[\frac{1}{2}, \frac{3}{4}, \frac{3}{4}]$	[22,45,52,75]
23	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	[23,30,57,88]
24	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2}]$	[24,31,59,87]

Table 4: Wyckoff site: 24d, site symmetry: -4..

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

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

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

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

No.	position	mapping
1	[x, 0, 0]	[1, 2]
2	[-x, 0, 0]	[3, 4]
3	[0, x, 0]	[5, 12]
4	[0, 0, x]	[6, 9]
5	[0, 0, -x]	[7, 11]
6	[0, -x, 0]	[8, 10]
7	$[\frac{1}{2} - x, \frac{1}{2}, \frac{1}{2}]$	[13, 14]

continued ...

Table 6

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

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

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

continued ...

Table 7

No.	position	mapping
47	$[x, \frac{1}{4}, \frac{3}{4}]$	[69, 94]
48	$[x, \frac{3}{4}, \frac{1}{4}]$	[70, 93]

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

No.	position	mapping
1	$[x, y, z]$	[1]
2	$[x, -y, -z]$	[2]
3	$[-x, y, -z]$	[3]
4	$[-x, -y, z]$	[4]
5	$[z, x, y]$	[5]
6	$[y, z, x]$	[6]
7	$[-y, z, -x]$	[7]
8	$[-z, -x, y]$	[8]
9	$[-y, -z, x]$	[9]
10	$[z, -x, -y]$	[10]
11	$[y, -z, -x]$	[11]
12	$[-z, x, -y]$	[12]
13	$[\frac{1}{2} - x, z + \frac{1}{2}, \frac{1}{2} - y]$	[13]
14	$[\frac{1}{2} - x, \frac{1}{2} - z, y + \frac{1}{2}]$	[14]
15	$[\frac{1}{2} - z, \frac{1}{2} - y, x + \frac{1}{2}]$	[15]
16	$[z + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{2} - x]$	[16]
17	$[y + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2} - z]$	[17]
18	$[\frac{1}{2} - y, x + \frac{1}{2}, \frac{1}{2} - z]$	[18]
19	$[\frac{1}{2} - y, \frac{1}{2} - x, z + \frac{1}{2}]$	[19]
20	$[y + \frac{1}{2}, x + \frac{1}{2}, z + \frac{1}{2}]$	[20]
21	$[x + \frac{1}{2}, \frac{1}{2} - z, \frac{1}{2} - y]$	[21]
22	$[x + \frac{1}{2}, z + \frac{1}{2}, y + \frac{1}{2}]$	[22]
23	$[\frac{1}{2} - z, y + \frac{1}{2}, \frac{1}{2} - x]$	[23]
24	$[z + \frac{1}{2}, y + \frac{1}{2}, x + \frac{1}{2}]$	[24]
25	$[x, y + \frac{1}{2}, z + \frac{1}{2}]$	[25]
26	$[x, \frac{1}{2} - y, \frac{1}{2} - z]$	[26]
27	$[-x, y + \frac{1}{2}, \frac{1}{2} - z]$	[27]
28	$[-x, \frac{1}{2} - y, z + \frac{1}{2}]$	[28]
29	$[z, x + \frac{1}{2}, y + \frac{1}{2}]$	[29]
30	$[y, z + \frac{1}{2}, x + \frac{1}{2}]$	[30]
31	$[-y, z + \frac{1}{2}, \frac{1}{2} - x]$	[31]
32	$[-z, \frac{1}{2} - x, y + \frac{1}{2}]$	[32]
33	$[-y, \frac{1}{2} - z, x + \frac{1}{2}]$	[33]
34	$[z, \frac{1}{2} - x, \frac{1}{2} - y]$	[34]
35	$[y, \frac{1}{2} - z, \frac{1}{2} - x]$	[35]
36	$[-z, x + \frac{1}{2}, \frac{1}{2} - y]$	[36]
37	$[\frac{1}{2} - x, z, -y]$	[37]
38	$[\frac{1}{2} - x, -z, y]$	[38]

continued ...

Table 8

No.	position	mapping
39	$[\frac{1}{2} - z, -y, x]$	[39]
40	$[z + \frac{1}{2}, -y, -x]$	[40]
41	$[y + \frac{1}{2}, -x, -z]$	[41]
42	$[\frac{1}{2} - y, x, -z]$	[42]
43	$[\frac{1}{2} - y, -x, z]$	[43]
44	$[y + \frac{1}{2}, x, z]$	[44]
45	$[x + \frac{1}{2}, -z, -y]$	[45]
46	$[x + \frac{1}{2}, z, y]$	[46]
47	$[\frac{1}{2} - z, y, -x]$	[47]
48	$[z + \frac{1}{2}, y, x]$	[48]
49	$[x + \frac{1}{2}, y, z + \frac{1}{2}]$	[49]
50	$[x + \frac{1}{2}, -y, \frac{1}{2} - z]$	[50]
51	$[\frac{1}{2} - x, y, \frac{1}{2} - z]$	[51]
52	$[\frac{1}{2} - x, -y, z + \frac{1}{2}]$	[52]
53	$[z + \frac{1}{2}, x, y + \frac{1}{2}]$	[53]
54	$[y + \frac{1}{2}, z, x + \frac{1}{2}]$	[54]
55	$[\frac{1}{2} - y, z, \frac{1}{2} - x]$	[55]
56	$[\frac{1}{2} - z, -x, y + \frac{1}{2}]$	[56]
57	$[\frac{1}{2} - y, -z, x + \frac{1}{2}]$	[57]
58	$[z + \frac{1}{2}, -x, \frac{1}{2} - y]$	[58]
59	$[y + \frac{1}{2}, -z, \frac{1}{2} - x]$	[59]
60	$[\frac{1}{2} - z, x, \frac{1}{2} - y]$	[60]
61	$[-x, z + \frac{1}{2}, -y]$	[61]
62	$[-x, \frac{1}{2} - z, y]$	[62]
63	$[-z, \frac{1}{2} - y, x]$	[63]
64	$[z, \frac{1}{2} - y, -x]$	[64]
65	$[y, \frac{1}{2} - x, -z]$	[65]
66	$[-y, x + \frac{1}{2}, -z]$	[66]
67	$[-y, \frac{1}{2} - x, z]$	[67]
68	$[y, x + \frac{1}{2}, z]$	[68]
69	$[x, \frac{1}{2} - z, -y]$	[69]
70	$[x, z + \frac{1}{2}, y]$	[70]
71	$[-z, y + \frac{1}{2}, -x]$	[71]
72	$[z, y + \frac{1}{2}, x]$	[72]
73	$[x + \frac{1}{2}, y + \frac{1}{2}, z]$	[73]
74	$[x + \frac{1}{2}, \frac{1}{2} - y, -z]$	[74]
75	$[\frac{1}{2} - x, y + \frac{1}{2}, -z]$	[75]
76	$[\frac{1}{2} - x, \frac{1}{2} - y, z]$	[76]
77	$[z + \frac{1}{2}, x + \frac{1}{2}, y]$	[77]
78	$[y + \frac{1}{2}, z + \frac{1}{2}, x]$	[78]
79	$[\frac{1}{2} - y, z + \frac{1}{2}, -x]$	[79]
80	$[\frac{1}{2} - z, \frac{1}{2} - x, y]$	[80]
81	$[\frac{1}{2} - y, \frac{1}{2} - z, x]$	[81]
82	$[z + \frac{1}{2}, \frac{1}{2} - x, -y]$	[82]
83	$[y + \frac{1}{2}, \frac{1}{2} - z, -x]$	[83]
84	$[\frac{1}{2} - z, x + \frac{1}{2}, -y]$	[84]
85	$[-x, z, \frac{1}{2} - y]$	[85]

continued ...

Table 8

No.	position	mapping
86	$[-x, -z, y + \frac{1}{2}]$	[86]
87	$[-z, -y, x + \frac{1}{2}]$	[87]
88	$[z, -y, \frac{1}{2} - x]$	[88]
89	$[y, -x, \frac{1}{2} - z]$	[89]
90	$[-y, x, \frac{1}{2} - z]$	[90]
91	$[-y, -x, z + \frac{1}{2}]$	[91]
92	$[y, x, z + \frac{1}{2}]$	[92]
93	$[x, -z, \frac{1}{2} - y]$	[93]
94	$[x, z, y + \frac{1}{2}]$	[94]
95	$[-z, y, \frac{1}{2} - x]$	[95]
96	$[z, y, x + \frac{1}{2}]$	[96]