

Table 1: Wyckoff site: 8a, site symmetry: mmm

No.	position	mapping
1	$[0, 0, 0]$	$[1, 2, 3, 4, 5, 6, 7, 8]$
2	$[0, \frac{1}{2}, \frac{1}{2}]$	$[9, 10, 11, 12, 13, 14, 15, 16]$
3	$[\frac{1}{2}, 0, \frac{1}{2}]$	$[17, 18, 19, 20, 21, 22, 23, 24]$
4	$[\frac{1}{2}, \frac{1}{2}, 0]$	$[25, 26, 27, 28, 29, 30, 31, 32]$
5	$[0, 0, \frac{1}{2}]$	$[33, 34, 35, 36, 37, 38, 39, 40]$
6	$[0, \frac{1}{2}, 0]$	$[41, 42, 43, 44, 45, 46, 47, 48]$
7	$[\frac{1}{2}, 0, 0]$	$[49, 50, 51, 52, 53, 54, 55, 56]$
8	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	$[57, 58, 59, 60, 61, 62, 63, 64]$

Table 2: Wyckoff site: 8b, site symmetry: $m'mm$

No.	position	mapping
1	$[\frac{1}{4}, 0, 0]$	$[1, 2, 7, 8, 51, 52, 53, 54]$
2	$[\frac{3}{4}, 0, 0]$	$[3, 4, 5, 6, 49, 50, 55, 56]$
3	$[\frac{1}{4}, \frac{1}{2}, \frac{1}{2}]$	$[9, 10, 15, 16, 59, 60, 61, 62]$
4	$[\frac{3}{4}, \frac{1}{2}, \frac{1}{2}]$	$[11, 12, 13, 14, 57, 58, 63, 64]$
5	$[\frac{3}{4}, 0, \frac{1}{2}]$	$[17, 18, 23, 24, 35, 36, 37, 38]$
6	$[\frac{1}{4}, 0, \frac{1}{2}]$	$[19, 20, 21, 22, 33, 34, 39, 40]$
7	$[\frac{3}{4}, \frac{1}{2}, 0]$	$[25, 26, 31, 32, 43, 44, 45, 46]$
8	$[\frac{1}{4}, \frac{1}{2}, 0]$	$[27, 28, 29, 30, 41, 42, 47, 48]$

Table 3: Wyckoff site: 8c, site symmetry: mmm'

No.	position	mapping
1	$[0, 0, \frac{1}{4}]$	$[1, 4, 6, 7, 34, 35, 37, 40]$
2	$[0, 0, \frac{3}{4}]$	$[2, 3, 5, 8, 33, 36, 38, 39]$
3	$[0, \frac{1}{2}, \frac{3}{4}]$	$[9, 12, 14, 15, 42, 43, 45, 48]$
4	$[0, \frac{1}{2}, \frac{1}{4}]$	$[10, 11, 13, 16, 41, 44, 46, 47]$
5	$[\frac{1}{2}, 0, \frac{3}{4}]$	$[17, 20, 22, 23, 50, 51, 53, 56]$
6	$[\frac{1}{2}, 0, \frac{1}{4}]$	$[18, 19, 21, 24, 49, 52, 54, 55]$
7	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{4}]$	$[25, 28, 30, 31, 58, 59, 61, 64]$
8	$[\frac{1}{2}, \frac{1}{2}, \frac{3}{4}]$	$[26, 27, 29, 32, 57, 60, 62, 63]$

Table 4: Wyckoff site: 8d, site symmetry: $m'mm'$

No.	position	mapping
1	$[\frac{1}{4}, 0, \frac{1}{4}]$	[1, 7, 19, 21, 34, 40, 52, 54]
2	$[\frac{1}{4}, 0, \frac{3}{4}]$	[2, 8, 20, 22, 33, 39, 51, 53]
3	$[\frac{3}{4}, 0, \frac{3}{4}]$	[3, 5, 17, 23, 36, 38, 50, 56]
4	$[\frac{3}{4}, 0, \frac{1}{4}]$	[4, 6, 18, 24, 35, 37, 49, 55]
5	$[\frac{1}{4}, \frac{1}{2}, \frac{3}{4}]$	[9, 15, 27, 29, 42, 48, 60, 62]
6	$[\frac{1}{4}, \frac{1}{2}, \frac{1}{4}]$	[10, 16, 28, 30, 41, 47, 59, 61]
7	$[\frac{3}{4}, \frac{1}{2}, \frac{1}{4}]$	[11, 13, 25, 31, 44, 46, 58, 64]
8	$[\frac{3}{4}, \frac{1}{2}, \frac{3}{4}]$	[12, 14, 26, 32, 43, 45, 57, 63]

Table 5: Wyckoff site: 8e, site symmetry: $mm'm$

No.	position	mapping
1	$[0, \frac{1}{4}, 0]$	[1, 3, 6, 8, 42, 44, 45, 47]
2	$[0, \frac{3}{4}, 0]$	[2, 4, 5, 7, 41, 43, 46, 48]
3	$[0, \frac{3}{4}, \frac{1}{2}]$	[9, 11, 14, 16, 34, 36, 37, 39]
4	$[0, \frac{1}{4}, \frac{1}{2}]$	[10, 12, 13, 15, 33, 35, 38, 40]
5	$[\frac{1}{2}, \frac{1}{4}, \frac{1}{2}]$	[17, 19, 22, 24, 58, 60, 61, 63]
6	$[\frac{1}{2}, \frac{3}{4}, \frac{1}{2}]$	[18, 20, 21, 23, 57, 59, 62, 64]
7	$[\frac{1}{2}, \frac{3}{4}, 0]$	[25, 27, 30, 32, 50, 52, 53, 55]
8	$[\frac{1}{2}, \frac{1}{4}, 0]$	[26, 28, 29, 31, 49, 51, 54, 56]

Table 6: Wyckoff site: 8f, site symmetry: $m'm'm$

No.	position	mapping
1	$[\frac{1}{4}, \frac{1}{4}, 0]$	[1, 8, 28, 29, 42, 47, 51, 54]
2	$[\frac{1}{4}, \frac{3}{4}, 0]$	[2, 7, 27, 30, 41, 48, 52, 53]
3	$[\frac{3}{4}, \frac{1}{4}, 0]$	[3, 6, 26, 31, 44, 45, 49, 56]
4	$[\frac{3}{4}, \frac{3}{4}, 0]$	[4, 5, 25, 32, 43, 46, 50, 55]
5	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	[9, 16, 20, 21, 34, 39, 59, 62]
6	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2}]$	[10, 15, 19, 22, 33, 40, 60, 61]
7	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2}]$	[11, 14, 18, 23, 36, 37, 57, 64]
8	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	[12, 13, 17, 24, 35, 38, 58, 63]

Table 7: Wyckoff site: 8g, site symmetry: $mm'm'$

No.	position	mapping
1	$[0, \frac{1}{4}, \frac{1}{4}]$	[1, 6, 10, 13, 35, 40, 44, 47]
2	$[0, \frac{3}{4}, \frac{3}{4}]$	[2, 5, 9, 14, 36, 39, 43, 48]
3	$[0, \frac{1}{4}, \frac{3}{4}]$	[3, 8, 12, 15, 33, 38, 42, 45]

continued ...

Table 7

No.	position	mapping
4	$[0, \frac{3}{4}, \frac{1}{4}]$	$[4, 7, 11, 16, 34, 37, 41, 46]$
5	$[\frac{1}{2}, \frac{1}{4}, \frac{3}{4}]$	$[17, 22, 26, 29, 51, 56, 60, 63]$
6	$[\frac{1}{2}, \frac{3}{4}, \frac{1}{4}]$	$[18, 21, 25, 30, 52, 55, 59, 64]$
7	$[\frac{1}{2}, \frac{1}{4}, \frac{1}{4}]$	$[19, 24, 28, 31, 49, 54, 58, 61]$
8	$[\frac{1}{2}, \frac{3}{4}, \frac{3}{4}]$	$[20, 23, 27, 32, 50, 53, 57, 62]$

Table 8: Wyckoff site: 8h, site symmetry: $m'm'm'$

No.	position	mapping
1	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[1, 10, 19, 28, 40, 47, 54, 61]$
2	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	$[2, 9, 20, 27, 39, 48, 53, 62]$
3	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	$[3, 12, 17, 26, 38, 45, 56, 63]$
4	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[4, 11, 18, 25, 37, 46, 55, 64]$
5	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[5, 14, 23, 32, 36, 43, 50, 57]$
6	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	$[6, 13, 24, 31, 35, 44, 49, 58]$
7	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	$[7, 16, 21, 30, 34, 41, 52, 59]$
8	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[8, 15, 22, 29, 33, 42, 51, 60]$

Table 9: Wyckoff site: 16i, site symmetry: $2mm$

No.	position	mapping
1	$[x, 0, 0]$	$[1, 2, 7, 8]$
2	$[-x, 0, 0]$	$[3, 4, 5, 6]$
3	$[x, \frac{1}{2}, \frac{1}{2}]$	$[9, 10, 15, 16]$
4	$[-x, \frac{1}{2}, \frac{1}{2}]$	$[11, 12, 13, 14]$
5	$[x + \frac{1}{2}, 0, \frac{1}{2}]$	$[17, 18, 23, 24]$
6	$[\frac{1}{2} - x, 0, \frac{1}{2}]$	$[19, 20, 21, 22]$
7	$[x + \frac{1}{2}, \frac{1}{2}, 0]$	$[25, 26, 31, 32]$
8	$[\frac{1}{2} - x, \frac{1}{2}, 0]$	$[27, 28, 29, 30]$
9	$[x, 0, \frac{1}{2}]$	$[33, 34, 39, 40]$
10	$[-x, 0, \frac{1}{2}]$	$[35, 36, 37, 38]$
11	$[x, \frac{1}{2}, 0]$	$[41, 42, 47, 48]$
12	$[-x, \frac{1}{2}, 0]$	$[43, 44, 45, 46]$
13	$[x + \frac{1}{2}, 0, 0]$	$[49, 50, 55, 56]$
14	$[\frac{1}{2} - x, 0, 0]$	$[51, 52, 53, 54]$
15	$[x + \frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	$[57, 58, 63, 64]$
16	$[\frac{1}{2} - x, \frac{1}{2}, \frac{1}{2}]$	$[59, 60, 61, 62]$

Table 10: Wyckoff site: $16j$, site symmetry: $2'mm'$

No.	position	mapping
1	$[x, 0, \frac{1}{4}]$	$[1, 7, 34, 40]$
2	$[x, 0, \frac{3}{4}]$	$[2, 8, 33, 39]$
3	$[-x, 0, \frac{3}{4}]$	$[3, 5, 36, 38]$
4	$[-x, 0, \frac{1}{4}]$	$[4, 6, 35, 37]$
5	$[x, \frac{1}{2}, \frac{3}{4}]$	$[9, 15, 42, 48]$
6	$[x, \frac{1}{2}, \frac{1}{4}]$	$[10, 16, 41, 47]$
7	$[-x, \frac{1}{2}, \frac{1}{4}]$	$[11, 13, 44, 46]$
8	$[-x, \frac{1}{2}, \frac{3}{4}]$	$[12, 14, 43, 45]$
9	$[x + \frac{1}{2}, 0, \frac{3}{4}]$	$[17, 23, 50, 56]$
10	$[x + \frac{1}{2}, 0, \frac{1}{4}]$	$[18, 24, 49, 55]$
11	$[\frac{1}{2} - x, 0, \frac{1}{4}]$	$[19, 21, 52, 54]$
12	$[\frac{1}{2} - x, 0, \frac{3}{4}]$	$[20, 22, 51, 53]$
13	$[x + \frac{1}{2}, \frac{1}{2}, \frac{1}{4}]$	$[25, 31, 58, 64]$
14	$[x + \frac{1}{2}, \frac{1}{2}, \frac{3}{4}]$	$[26, 32, 57, 63]$
15	$[\frac{1}{2} - x, \frac{1}{2}, \frac{3}{4}]$	$[27, 29, 60, 62]$
16	$[\frac{1}{2} - x, \frac{1}{2}, \frac{1}{4}]$	$[28, 30, 59, 61]$

Table 11: Wyckoff site: $16k$, site symmetry: $2'm'm$

No.	position	mapping
1	$[x, \frac{1}{4}, 0]$	$[1, 8, 42, 47]$
2	$[x, \frac{3}{4}, 0]$	$[2, 7, 41, 48]$
3	$[-x, \frac{1}{4}, 0]$	$[3, 6, 44, 45]$
4	$[-x, \frac{3}{4}, 0]$	$[4, 5, 43, 46]$
5	$[x, \frac{3}{4}, \frac{1}{2}]$	$[9, 16, 34, 39]$
6	$[x, \frac{1}{4}, \frac{1}{2}]$	$[10, 15, 33, 40]$
7	$[-x, \frac{3}{4}, \frac{1}{2}]$	$[11, 14, 36, 37]$
8	$[-x, \frac{1}{4}, \frac{1}{2}]$	$[12, 13, 35, 38]$
9	$[x + \frac{1}{2}, \frac{1}{4}, \frac{1}{2}]$	$[17, 24, 58, 63]$
10	$[x + \frac{1}{2}, \frac{3}{4}, \frac{1}{2}]$	$[18, 23, 57, 64]$
11	$[\frac{1}{2} - x, \frac{1}{4}, \frac{1}{2}]$	$[19, 22, 60, 61]$
12	$[\frac{1}{2} - x, \frac{3}{4}, \frac{1}{2}]$	$[20, 21, 59, 62]$
13	$[x + \frac{1}{2}, \frac{3}{4}, 0]$	$[25, 32, 50, 55]$
14	$[x + \frac{1}{2}, \frac{1}{4}, 0]$	$[26, 31, 49, 56]$
15	$[\frac{1}{2} - x, \frac{3}{4}, 0]$	$[27, 30, 52, 53]$
16	$[\frac{1}{2} - x, \frac{1}{4}, 0]$	$[28, 29, 51, 54]$

Table 12: Wyckoff site: $16l$, site symmetry: $2m'm'$

No.	position	mapping
1	$[x, \frac{1}{4}, \frac{1}{4}]$	$[1, 10, 40, 47]$

continued ...

Table 12

No.	position	mapping
2	$[x, \frac{3}{4}, \frac{3}{4}]$	[2, 9, 39, 48]
3	$[-x, \frac{1}{4}, \frac{3}{4}]$	[3, 12, 38, 45]
4	$[-x, \frac{3}{4}, \frac{1}{4}]$	[4, 11, 37, 46]
5	$[-x, \frac{3}{4}, \frac{3}{4}]$	[5, 14, 36, 43]
6	$[-x, \frac{1}{4}, \frac{1}{4}]$	[6, 13, 35, 44]
7	$[x, \frac{3}{4}, \frac{1}{4}]$	[7, 16, 34, 41]
8	$[x, \frac{1}{4}, \frac{3}{4}]$	[8, 15, 33, 42]
9	$[x + \frac{1}{2}, \frac{1}{4}, \frac{3}{4}]$	[17, 26, 56, 63]
10	$[x + \frac{1}{2}, \frac{3}{4}, \frac{1}{4}]$	[18, 25, 55, 64]
11	$[\frac{1}{2} - x, \frac{1}{4}, \frac{1}{4}]$	[19, 28, 54, 61]
12	$[\frac{1}{2} - x, \frac{3}{4}, \frac{3}{4}]$	[20, 27, 53, 62]
13	$[\frac{1}{2} - x, \frac{3}{4}, \frac{1}{4}]$	[21, 30, 52, 59]
14	$[\frac{1}{2} - x, \frac{1}{4}, \frac{3}{4}]$	[22, 29, 51, 60]
15	$[x + \frac{1}{2}, \frac{3}{4}, \frac{3}{4}]$	[23, 32, 50, 57]
16	$[x + \frac{1}{2}, \frac{1}{4}, \frac{1}{4}]$	[24, 31, 49, 58]

Table 13: Wyckoff site: 16m, site symmetry: m2m

No.	position	mapping
1	$[0, y, 0]$	[1, 3, 6, 8]
2	$[0, -y, 0]$	[2, 4, 5, 7]
3	$[0, y + \frac{1}{2}, \frac{1}{2}]$	[9, 11, 14, 16]
4	$[0, \frac{1}{2} - y, \frac{1}{2}]$	[10, 12, 13, 15]
5	$[\frac{1}{2}, y, \frac{1}{2}]$	[17, 19, 22, 24]
6	$[\frac{1}{2}, -y, \frac{1}{2}]$	[18, 20, 21, 23]
7	$[\frac{1}{2}, y + \frac{1}{2}, 0]$	[25, 27, 30, 32]
8	$[\frac{1}{2}, \frac{1}{2} - y, 0]$	[26, 28, 29, 31]
9	$[0, y, \frac{1}{2}]$	[33, 35, 38, 40]
10	$[0, -y, \frac{1}{2}]$	[34, 36, 37, 39]
11	$[0, y + \frac{1}{2}, 0]$	[41, 43, 46, 48]
12	$[0, \frac{1}{2} - y, 0]$	[42, 44, 45, 47]
13	$[\frac{1}{2}, y, 0]$	[49, 51, 54, 56]
14	$[\frac{1}{2}, -y, 0]$	[50, 52, 53, 55]
15	$[\frac{1}{2}, y + \frac{1}{2}, \frac{1}{2}]$	[57, 59, 62, 64]
16	$[\frac{1}{2}, \frac{1}{2} - y, \frac{1}{2}]$	[58, 60, 61, 63]

Table 14: Wyckoff site: 16n, site symmetry: m2'm'

No.	position	mapping
1	$[0, y, \frac{1}{4}]$	[1, 6, 35, 40]
2	$[0, -y, \frac{3}{4}]$	[2, 5, 36, 39]
3	$[0, y, \frac{3}{4}]$	[3, 8, 33, 38]

continued ...

Table 14

No.	position	mapping
4	$[0, -y, \frac{1}{4}]$	$[4, 7, 34, 37]$
5	$[0, y + \frac{1}{2}, \frac{3}{4}]$	$[9, 14, 43, 48]$
6	$[0, \frac{1}{2} - y, \frac{1}{4}]$	$[10, 13, 44, 47]$
7	$[0, y + \frac{1}{2}, \frac{1}{4}]$	$[11, 16, 41, 46]$
8	$[0, \frac{1}{2} - y, \frac{3}{4}]$	$[12, 15, 42, 45]$
9	$[\frac{1}{2}, y, \frac{3}{4}]$	$[17, 22, 51, 56]$
10	$[\frac{1}{2}, -y, \frac{1}{4}]$	$[18, 21, 52, 55]$
11	$[\frac{1}{2}, y, \frac{1}{4}]$	$[19, 24, 49, 54]$
12	$[\frac{1}{2}, -y, \frac{3}{4}]$	$[20, 23, 50, 53]$
13	$[\frac{1}{2}, y + \frac{1}{2}, \frac{1}{4}]$	$[25, 30, 59, 64]$
14	$[\frac{1}{2}, \frac{1}{2} - y, \frac{3}{4}]$	$[26, 29, 60, 63]$
15	$[\frac{1}{2}, y + \frac{1}{2}, \frac{3}{4}]$	$[27, 32, 57, 62]$
16	$[\frac{1}{2}, \frac{1}{2} - y, \frac{1}{4}]$	$[28, 31, 58, 61]$

Table 15: Wyckoff site: $16o$, site symmetry: $m'2'm$

No.	position	mapping
1	$[\frac{1}{4}, y, 0]$	$[1, 8, 51, 54]$
2	$[\frac{1}{4}, -y, 0]$	$[2, 7, 52, 53]$
3	$[\frac{3}{4}, y, 0]$	$[3, 6, 49, 56]$
4	$[\frac{3}{4}, -y, 0]$	$[4, 5, 50, 55]$
5	$[\frac{1}{4}, y + \frac{1}{2}, \frac{1}{2}]$	$[9, 16, 59, 62]$
6	$[\frac{1}{4}, \frac{1}{2} - y, \frac{1}{2}]$	$[10, 15, 60, 61]$
7	$[\frac{3}{4}, y + \frac{1}{2}, \frac{1}{2}]$	$[11, 14, 57, 64]$
8	$[\frac{3}{4}, \frac{1}{2} - y, \frac{1}{2}]$	$[12, 13, 58, 63]$
9	$[\frac{3}{4}, y, \frac{1}{2}]$	$[17, 24, 35, 38]$
10	$[\frac{3}{4}, -y, \frac{1}{2}]$	$[18, 23, 36, 37]$
11	$[\frac{1}{4}, y, \frac{1}{2}]$	$[19, 22, 33, 40]$
12	$[\frac{1}{4}, -y, \frac{1}{2}]$	$[20, 21, 34, 39]$
13	$[\frac{3}{4}, y + \frac{1}{2}, 0]$	$[25, 32, 43, 46]$
14	$[\frac{3}{4}, \frac{1}{2} - y, 0]$	$[26, 31, 44, 45]$
15	$[\frac{1}{4}, y + \frac{1}{2}, 0]$	$[27, 30, 41, 48]$
16	$[\frac{1}{4}, \frac{1}{2} - y, 0]$	$[28, 29, 42, 47]$

Table 16: Wyckoff site: $16p$, site symmetry: $m'2m'$

No.	position	mapping
1	$[\frac{1}{4}, y, \frac{1}{4}]$	$[1, 19, 40, 54]$
2	$[\frac{1}{4}, -y, \frac{3}{4}]$	$[2, 20, 39, 53]$
3	$[\frac{3}{4}, y, \frac{3}{4}]$	$[3, 17, 38, 56]$
4	$[\frac{3}{4}, -y, \frac{1}{4}]$	$[4, 18, 37, 55]$
5	$[\frac{3}{4}, -y, \frac{3}{4}]$	$[5, 23, 36, 50]$

continued ...

Table 16

No.	position	mapping
6	$[\frac{3}{4}, y, \frac{1}{4}]$	[6, 24, 35, 49]
7	$[\frac{1}{4}, -y, \frac{1}{4}]$	[7, 21, 34, 52]
8	$[\frac{1}{4}, y, \frac{3}{4}]$	[8, 22, 33, 51]
9	$[\frac{1}{4}, y + \frac{1}{2}, \frac{3}{4}]$	[9, 27, 48, 62]
10	$[\frac{1}{4}, \frac{1}{2} - y, \frac{1}{4}]$	[10, 28, 47, 61]
11	$[\frac{3}{4}, y + \frac{1}{2}, \frac{1}{4}]$	[11, 25, 46, 64]
12	$[\frac{3}{4}, \frac{1}{2} - y, \frac{3}{4}]$	[12, 26, 45, 63]
13	$[\frac{3}{4}, \frac{1}{2} - y, \frac{1}{4}]$	[13, 31, 44, 58]
14	$[\frac{3}{4}, y + \frac{1}{2}, \frac{3}{4}]$	[14, 32, 43, 57]
15	$[\frac{1}{4}, \frac{1}{2} - y, \frac{3}{4}]$	[15, 29, 42, 60]
16	$[\frac{1}{4}, y + \frac{1}{2}, \frac{1}{4}]$	[16, 30, 41, 59]

Table 17: Wyckoff site: 16q, site symmetry: $mm2$

No.	position	mapping
1	[0, 0, z]	[1, 4, 6, 7]
2	[0, 0, -z]	[2, 3, 5, 8]
3	$[0, \frac{1}{2}, z + \frac{1}{2}]$	[9, 12, 14, 15]
4	$[0, \frac{1}{2}, \frac{1}{2} - z]$	[10, 11, 13, 16]
5	$[\frac{1}{2}, 0, z + \frac{1}{2}]$	[17, 20, 22, 23]
6	$[\frac{1}{2}, 0, \frac{1}{2} - z]$	[18, 19, 21, 24]
7	$[\frac{1}{2}, \frac{1}{2}, z]$	[25, 28, 30, 31]
8	$[\frac{1}{2}, \frac{1}{2}, -z]$	[26, 27, 29, 32]
9	$[0, 0, z + \frac{1}{2}]$	[33, 36, 38, 39]
10	$[0, 0, \frac{1}{2} - z]$	[34, 35, 37, 40]
11	$[0, \frac{1}{2}, z]$	[41, 44, 46, 47]
12	$[0, \frac{1}{2}, -z]$	[42, 43, 45, 48]
13	$[\frac{1}{2}, 0, z]$	[49, 52, 54, 55]
14	$[\frac{1}{2}, 0, -z]$	[50, 51, 53, 56]
15	$[\frac{1}{2}, \frac{1}{2}, z + \frac{1}{2}]$	[57, 60, 62, 63]
16	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2} - z]$	[58, 59, 61, 64]

Table 18: Wyckoff site: 16r, site symmetry: $mm'2'$

No.	position	mapping
1	$[0, \frac{1}{4}, z]$	[1, 6, 44, 47]
2	$[0, \frac{3}{4}, -z]$	[2, 5, 43, 48]
3	$[0, \frac{1}{4}, -z]$	[3, 8, 42, 45]
4	$[0, \frac{3}{4}, z]$	[4, 7, 41, 46]
5	$[0, \frac{3}{4}, z + \frac{1}{2}]$	[9, 14, 36, 39]
6	$[0, \frac{1}{4}, \frac{1}{2} - z]$	[10, 13, 35, 40]
7	$[0, \frac{3}{4}, \frac{1}{2} - z]$	[11, 16, 34, 37]

continued ...

Table 18

No.	position	mapping
8	$[0, \frac{1}{4}, z + \frac{1}{2}]$	[12, 15, 33, 38]
9	$[\frac{1}{2}, \frac{1}{4}, z + \frac{1}{2}]$	[17, 22, 60, 63]
10	$[\frac{1}{2}, \frac{3}{4}, \frac{1}{2} - z]$	[18, 21, 59, 64]
11	$[\frac{1}{2}, \frac{1}{4}, \frac{1}{2} - z]$	[19, 24, 58, 61]
12	$[\frac{1}{2}, \frac{3}{4}, z + \frac{1}{2}]$	[20, 23, 57, 62]
13	$[\frac{1}{2}, \frac{3}{4}, z]$	[25, 30, 52, 55]
14	$[\frac{1}{2}, \frac{1}{4}, -z]$	[26, 29, 51, 56]
15	$[\frac{1}{2}, \frac{3}{4}, -z]$	[27, 32, 50, 53]
16	$[\frac{1}{2}, \frac{1}{4}, z]$	[28, 31, 49, 54]

Table 19: Wyckoff site: 16s, site symmetry: $m'm'2'$

No.	position	mapping
1	$[\frac{1}{4}, 0, z]$	[1, 7, 52, 54]
2	$[\frac{1}{4}, 0, -z]$	[2, 8, 51, 53]
3	$[\frac{3}{4}, 0, -z]$	[3, 5, 50, 56]
4	$[\frac{3}{4}, 0, z]$	[4, 6, 49, 55]
5	$[\frac{1}{4}, \frac{1}{2}, z + \frac{1}{2}]$	[9, 15, 60, 62]
6	$[\frac{1}{4}, \frac{1}{2}, \frac{1}{2} - z]$	[10, 16, 59, 61]
7	$[\frac{3}{4}, \frac{1}{2}, \frac{1}{2} - z]$	[11, 13, 58, 64]
8	$[\frac{3}{4}, \frac{1}{2}, z + \frac{1}{2}]$	[12, 14, 57, 63]
9	$[\frac{3}{4}, 0, z + \frac{1}{2}]$	[17, 23, 36, 38]
10	$[\frac{3}{4}, 0, \frac{1}{2} - z]$	[18, 24, 35, 37]
11	$[\frac{1}{4}, 0, \frac{1}{2} - z]$	[19, 21, 34, 40]
12	$[\frac{1}{4}, 0, z + \frac{1}{2}]$	[20, 22, 33, 39]
13	$[\frac{3}{4}, \frac{1}{2}, z]$	[25, 31, 44, 46]
14	$[\frac{3}{4}, \frac{1}{2}, -z]$	[26, 32, 43, 45]
15	$[\frac{1}{4}, \frac{1}{2}, -z]$	[27, 29, 42, 48]
16	$[\frac{1}{4}, \frac{1}{2}, z]$	[28, 30, 41, 47]

Table 20: Wyckoff site: 16t, site symmetry: $m'm'2$

No.	position	mapping
1	$[\frac{1}{4}, \frac{1}{4}, z]$	[1, 28, 47, 54]
2	$[\frac{1}{4}, \frac{3}{4}, -z]$	[2, 27, 48, 53]
3	$[\frac{3}{4}, \frac{1}{4}, -z]$	[3, 26, 45, 56]
4	$[\frac{3}{4}, \frac{3}{4}, z]$	[4, 25, 46, 55]
5	$[\frac{3}{4}, \frac{3}{4}, -z]$	[5, 32, 43, 50]
6	$[\frac{3}{4}, \frac{1}{4}, z]$	[6, 31, 44, 49]
7	$[\frac{1}{4}, \frac{3}{4}, z]$	[7, 30, 41, 52]
8	$[\frac{1}{4}, \frac{1}{4}, -z]$	[8, 29, 42, 51]
9	$[\frac{1}{4}, \frac{3}{4}, z + \frac{1}{2}]$	[9, 20, 39, 62]

continued ...

Table 20

No.	position	mapping
10	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2} - z]$	[10, 19, 40, 61]
11	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[11, 18, 37, 64]
12	$[\frac{3}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[12, 17, 38, 63]
13	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2} - z]$	[13, 24, 35, 58]
14	$[\frac{3}{4}, \frac{3}{4}, z + \frac{1}{2}]$	[14, 23, 36, 57]
15	$[\frac{1}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[15, 22, 33, 60]
16	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[16, 21, 34, 59]

Table 21: Wyckoff site: 32u, site symmetry: $m..$

No.	position	mapping
1	$[0, y, z]$	[1, 6]
2	$[0, -y, -z]$	[2, 5]
3	$[0, y, -z]$	[3, 8]
4	$[0, -y, z]$	[4, 7]
5	$[0, y + \frac{1}{2}, z + \frac{1}{2}]$	[9, 14]
6	$[0, \frac{1}{2} - y, \frac{1}{2} - z]$	[10, 13]
7	$[0, y + \frac{1}{2}, \frac{1}{2} - z]$	[11, 16]
8	$[0, \frac{1}{2} - y, z + \frac{1}{2}]$	[12, 15]
9	$[\frac{1}{2}, y, z + \frac{1}{2}]$	[17, 22]
10	$[\frac{1}{2}, -y, \frac{1}{2} - z]$	[18, 21]
11	$[\frac{1}{2}, y, \frac{1}{2} - z]$	[19, 24]
12	$[\frac{1}{2}, -y, z + \frac{1}{2}]$	[20, 23]
13	$[\frac{1}{2}, y + \frac{1}{2}, z]$	[25, 30]
14	$[\frac{1}{2}, \frac{1}{2} - y, -z]$	[26, 29]
15	$[\frac{1}{2}, y + \frac{1}{2}, -z]$	[27, 32]
16	$[\frac{1}{2}, \frac{1}{2} - y, z]$	[28, 31]
17	$[0, y, z + \frac{1}{2}]$	[33, 38]
18	$[0, -y, \frac{1}{2} - z]$	[34, 37]
19	$[0, y, \frac{1}{2} - z]$	[35, 40]
20	$[0, -y, z + \frac{1}{2}]$	[36, 39]
21	$[0, y + \frac{1}{2}, z]$	[41, 46]
22	$[0, \frac{1}{2} - y, -z]$	[42, 45]
23	$[0, y + \frac{1}{2}, -z]$	[43, 48]
24	$[0, \frac{1}{2} - y, z]$	[44, 47]
25	$[\frac{1}{2}, y, z]$	[49, 54]
26	$[\frac{1}{2}, -y, -z]$	[50, 53]
27	$[\frac{1}{2}, y, -z]$	[51, 56]
28	$[\frac{1}{2}, -y, z]$	[52, 55]
29	$[\frac{1}{2}, y + \frac{1}{2}, z + \frac{1}{2}]$	[57, 62]
30	$[\frac{1}{2}, \frac{1}{2} - y, \frac{1}{2} - z]$	[58, 61]
31	$[\frac{1}{2}, y + \frac{1}{2}, \frac{1}{2} - z]$	[59, 64]
32	$[\frac{1}{2}, \frac{1}{2} - y, z + \frac{1}{2}]$	[60, 63]

Table 22: Wyckoff site: $32v$, site symmetry: $m'..$

No.	position	mapping
1	$[\frac{1}{4}, y, z]$	[1,54]
2	$[\frac{1}{4}, -y, -z]$	[2,53]
3	$[\frac{3}{4}, y, -z]$	[3,56]
4	$[\frac{3}{4}, -y, z]$	[4,55]
5	$[\frac{3}{4}, -y, -z]$	[5,50]
6	$[\frac{3}{4}, y, z]$	[6,49]
7	$[\frac{1}{4}, -y, z]$	[7,52]
8	$[\frac{1}{4}, y, -z]$	[8,51]
9	$[\frac{1}{4}, y + \frac{1}{2}, z + \frac{1}{2}]$	[9,62]
10	$[\frac{1}{4}, \frac{1}{2} - y, \frac{1}{2} - z]$	[10,61]
11	$[\frac{3}{4}, y + \frac{1}{2}, \frac{1}{2} - z]$	[11,64]
12	$[\frac{3}{4}, \frac{1}{2} - y, z + \frac{1}{2}]$	[12,63]
13	$[\frac{3}{4}, \frac{1}{2} - y, \frac{1}{2} - z]$	[13,58]
14	$[\frac{3}{4}, y + \frac{1}{2}, z + \frac{1}{2}]$	[14,57]
15	$[\frac{1}{4}, \frac{1}{2} - y, z + \frac{1}{2}]$	[15,60]
16	$[\frac{1}{4}, y + \frac{1}{2}, \frac{1}{2} - z]$	[16,59]
17	$[\frac{3}{4}, y, z + \frac{1}{2}]$	[17,38]
18	$[\frac{3}{4}, -y, \frac{1}{2} - z]$	[18,37]
19	$[\frac{1}{4}, y, \frac{1}{2} - z]$	[19,40]
20	$[\frac{1}{4}, -y, z + \frac{1}{2}]$	[20,39]
21	$[\frac{1}{4}, -y, \frac{1}{2} - z]$	[21,34]
22	$[\frac{1}{4}, y, z + \frac{1}{2}]$	[22,33]
23	$[\frac{3}{4}, -y, z + \frac{1}{2}]$	[23,36]
24	$[\frac{3}{4}, y, \frac{1}{2} - z]$	[24,35]
25	$[\frac{3}{4}, y + \frac{1}{2}, z]$	[25,46]
26	$[\frac{3}{4}, \frac{1}{2} - y, -z]$	[26,45]
27	$[\frac{1}{4}, y + \frac{1}{2}, -z]$	[27,48]
28	$[\frac{1}{4}, \frac{1}{2} - y, z]$	[28,47]
29	$[\frac{1}{4}, \frac{1}{2} - y, -z]$	[29,42]
30	$[\frac{1}{4}, y + \frac{1}{2}, z]$	[30,41]
31	$[\frac{3}{4}, \frac{1}{2} - y, z]$	[31,44]
32	$[\frac{3}{4}, y + \frac{1}{2}, -z]$	[32,43]

Table 23: Wyckoff site: $32w$, site symmetry: $.m.$

No.	position	mapping
1	$[x, 0, z]$	[1,7]
2	$[x, 0, -z]$	[2,8]
3	$[-x, 0, -z]$	[3,5]
4	$[-x, 0, z]$	[4,6]
5	$[x, \frac{1}{2}, z + \frac{1}{2}]$	[9,15]
6	$[x, \frac{1}{2}, \frac{1}{2} - z]$	[10,16]
7	$[-x, \frac{1}{2}, \frac{1}{2} - z]$	[11,13]

continued ...

Table 23

No.	position	mapping
8	$[-x, \frac{1}{2}, z + \frac{1}{2}]$	[12, 14]
9	$[x + \frac{1}{2}, 0, z + \frac{1}{2}]$	[17, 23]
10	$[x + \frac{1}{2}, 0, \frac{1}{2} - z]$	[18, 24]
11	$[\frac{1}{2} - x, 0, \frac{1}{2} - z]$	[19, 21]
12	$[\frac{1}{2} - x, 0, z + \frac{1}{2}]$	[20, 22]
13	$[x + \frac{1}{2}, \frac{1}{2}, z]$	[25, 31]
14	$[x + \frac{1}{2}, \frac{1}{2}, -z]$	[26, 32]
15	$[\frac{1}{2} - x, \frac{1}{2}, -z]$	[27, 29]
16	$[\frac{1}{2} - x, \frac{1}{2}, z]$	[28, 30]
17	$[x, 0, z + \frac{1}{2}]$	[33, 39]
18	$[x, 0, \frac{1}{2} - z]$	[34, 40]
19	$[-x, 0, \frac{1}{2} - z]$	[35, 37]
20	$[-x, 0, z + \frac{1}{2}]$	[36, 38]
21	$[x, \frac{1}{2}, z]$	[41, 47]
22	$[x, \frac{1}{2}, -z]$	[42, 48]
23	$[-x, \frac{1}{2}, -z]$	[43, 45]
24	$[-x, \frac{1}{2}, z]$	[44, 46]
25	$[x + \frac{1}{2}, 0, z]$	[49, 55]
26	$[x + \frac{1}{2}, 0, -z]$	[50, 56]
27	$[\frac{1}{2} - x, 0, -z]$	[51, 53]
28	$[\frac{1}{2} - x, 0, z]$	[52, 54]
29	$[x + \frac{1}{2}, \frac{1}{2}, z + \frac{1}{2}]$	[57, 63]
30	$[x + \frac{1}{2}, \frac{1}{2}, \frac{1}{2} - z]$	[58, 64]
31	$[\frac{1}{2} - x, \frac{1}{2}, \frac{1}{2} - z]$	[59, 61]
32	$[\frac{1}{2} - x, \frac{1}{2}, z + \frac{1}{2}]$	[60, 62]

Table 24: Wyckoff site: 32x, site symmetry: $.m'$.

No.	position	mapping
1	$[x, \frac{1}{4}, z]$	[1, 47]
2	$[x, \frac{3}{4}, -z]$	[2, 48]
3	$[-x, \frac{1}{4}, -z]$	[3, 45]
4	$[-x, \frac{3}{4}, z]$	[4, 46]
5	$[-x, \frac{3}{4}, -z]$	[5, 43]
6	$[-x, \frac{1}{4}, z]$	[6, 44]
7	$[x, \frac{3}{4}, z]$	[7, 41]
8	$[x, \frac{1}{4}, -z]$	[8, 42]
9	$[x, \frac{3}{4}, z + \frac{1}{2}]$	[9, 39]
10	$[x, \frac{1}{4}, \frac{1}{2} - z]$	[10, 40]
11	$[-x, \frac{3}{4}, \frac{1}{2} - z]$	[11, 37]
12	$[-x, \frac{1}{4}, z + \frac{1}{2}]$	[12, 38]
13	$[-x, \frac{1}{4}, \frac{1}{2} - z]$	[13, 35]
14	$[-x, \frac{3}{4}, z + \frac{1}{2}]$	[14, 36]
15	$[x, \frac{1}{4}, z + \frac{1}{2}]$	[15, 33]

continued ...

Table 24

No.	position	mapping
16	$[x, \frac{3}{4}, \frac{1}{2} - z]$	[16, 34]
17	$[x + \frac{1}{2}, \frac{1}{4}, z + \frac{1}{2}]$	[17, 63]
18	$[x + \frac{1}{2}, \frac{3}{4}, \frac{1}{2} - z]$	[18, 64]
19	$[\frac{1}{2} - x, \frac{1}{4}, \frac{1}{2} - z]$	[19, 61]
20	$[\frac{1}{2} - x, \frac{3}{4}, z + \frac{1}{2}]$	[20, 62]
21	$[\frac{1}{2} - x, \frac{3}{4}, \frac{1}{2} - z]$	[21, 59]
22	$[\frac{1}{2} - x, \frac{1}{4}, z + \frac{1}{2}]$	[22, 60]
23	$[x + \frac{1}{2}, \frac{3}{4}, z + \frac{1}{2}]$	[23, 57]
24	$[x + \frac{1}{2}, \frac{1}{4}, \frac{1}{2} - z]$	[24, 58]
25	$[x + \frac{1}{2}, \frac{3}{4}, z]$	[25, 55]
26	$[x + \frac{1}{2}, \frac{1}{4}, -z]$	[26, 56]
27	$[\frac{1}{2} - x, \frac{3}{4}, -z]$	[27, 53]
28	$[\frac{1}{2} - x, \frac{1}{4}, z]$	[28, 54]
29	$[\frac{1}{2} - x, \frac{1}{4}, -z]$	[29, 51]
30	$[\frac{1}{2} - x, \frac{3}{4}, z]$	[30, 52]
31	$[x + \frac{1}{2}, \frac{1}{4}, z]$	[31, 49]
32	$[x + \frac{1}{2}, \frac{3}{4}, -z]$	[32, 50]

Table 25: Wyckoff site: 32y, site symmetry: $\bar{3}m$

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

continued ...

Table 25

No.	position	mapping
24	$[-x, \frac{1}{2} - y, 0]$	[44, 45]
25	$[x + \frac{1}{2}, y, 0]$	[49, 56]
26	$[x + \frac{1}{2}, -y, 0]$	[50, 55]
27	$[\frac{1}{2} - x, y, 0]$	[51, 54]
28	$[\frac{1}{2} - x, -y, 0]$	[52, 53]
29	$[x + \frac{1}{2}, y + \frac{1}{2}, \frac{1}{2}]$	[57, 64]
30	$[x + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{2}]$	[58, 63]
31	$[\frac{1}{2} - x, y + \frac{1}{2}, \frac{1}{2}]$	[59, 62]
32	$[\frac{1}{2} - x, \frac{1}{2} - y, \frac{1}{2}]$	[60, 61]

Table 26: Wyckoff site: 32z, site symmetry: $\bar{6}m'$

No.	position	mapping
1	$[x, y, \frac{1}{4}]$	[1, 40]
2	$[x, -y, \frac{3}{4}]$	[2, 39]
3	$[-x, y, \frac{3}{4}]$	[3, 38]
4	$[-x, -y, \frac{1}{4}]$	[4, 37]
5	$[-x, -y, \frac{3}{4}]$	[5, 36]
6	$[-x, y, \frac{1}{4}]$	[6, 35]
7	$[x, -y, \frac{1}{4}]$	[7, 34]
8	$[x, y, \frac{3}{4}]$	[8, 33]
9	$[x, y + \frac{1}{2}, \frac{3}{4}]$	[9, 48]
10	$[x, \frac{1}{2} - y, \frac{1}{4}]$	[10, 47]
11	$[-x, y + \frac{1}{2}, \frac{1}{4}]$	[11, 46]
12	$[-x, \frac{1}{2} - y, \frac{3}{4}]$	[12, 45]
13	$[-x, \frac{1}{2} - y, \frac{1}{4}]$	[13, 44]
14	$[-x, y + \frac{1}{2}, \frac{3}{4}]$	[14, 43]
15	$[x, \frac{1}{2} - y, \frac{3}{4}]$	[15, 42]
16	$[x, y + \frac{1}{2}, \frac{1}{4}]$	[16, 41]
17	$[x + \frac{1}{2}, y, \frac{3}{4}]$	[17, 56]
18	$[x + \frac{1}{2}, -y, \frac{1}{4}]$	[18, 55]
19	$[\frac{1}{2} - x, y, \frac{1}{4}]$	[19, 54]
20	$[\frac{1}{2} - x, -y, \frac{3}{4}]$	[20, 53]
21	$[\frac{1}{2} - x, -y, \frac{1}{4}]$	[21, 52]
22	$[\frac{1}{2} - x, y, \frac{3}{4}]$	[22, 51]
23	$[x + \frac{1}{2}, -y, \frac{3}{4}]$	[23, 50]
24	$[x + \frac{1}{2}, y, \frac{1}{4}]$	[24, 49]
25	$[x + \frac{1}{2}, y + \frac{1}{2}, \frac{1}{4}]$	[25, 64]
26	$[x + \frac{1}{2}, \frac{1}{2} - y, \frac{3}{4}]$	[26, 63]
27	$[\frac{1}{2} - x, y + \frac{1}{2}, \frac{3}{4}]$	[27, 62]
28	$[\frac{1}{2} - x, \frac{1}{2} - y, \frac{1}{4}]$	[28, 61]
29	$[\frac{1}{2} - x, \frac{1}{2} - y, \frac{3}{4}]$	[29, 60]
30	$[\frac{1}{2} - x, y + \frac{1}{2}, \frac{1}{4}]$	[30, 59]
31	$[x + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{4}]$	[31, 58]

continued ...

Table 26

No.	position	mapping
32	$[x + \frac{1}{2}, y + \frac{1}{2}, \frac{3}{4}]$	[32, 57]

Table 27: Wyckoff site: 64A, 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	$[-x, -y, -z]$	[5]
6	$[-x, y, z]$	[6]
7	$[x, -y, z]$	[7]
8	$[x, y, -z]$	[8]
9	$[x, y + \frac{1}{2}, z + \frac{1}{2}]$	[9]
10	$[x, \frac{1}{2} - y, \frac{1}{2} - z]$	[10]
11	$[-x, y + \frac{1}{2}, \frac{1}{2} - z]$	[11]
12	$[-x, \frac{1}{2} - y, z + \frac{1}{2}]$	[12]
13	$[-x, \frac{1}{2} - y, \frac{1}{2} - z]$	[13]
14	$[-x, y + \frac{1}{2}, z + \frac{1}{2}]$	[14]
15	$[x, \frac{1}{2} - y, z + \frac{1}{2}]$	[15]
16	$[x, y + \frac{1}{2}, \frac{1}{2} - z]$	[16]
17	$[x + \frac{1}{2}, y, z + \frac{1}{2}]$	[17]
18	$[x + \frac{1}{2}, -y, \frac{1}{2} - z]$	[18]
19	$[\frac{1}{2} - x, y, \frac{1}{2} - z]$	[19]
20	$[\frac{1}{2} - x, -y, z + \frac{1}{2}]$	[20]
21	$[\frac{1}{2} - x, -y, \frac{1}{2} - z]$	[21]
22	$[\frac{1}{2} - x, y, z + \frac{1}{2}]$	[22]
23	$[x + \frac{1}{2}, -y, z + \frac{1}{2}]$	[23]
24	$[x + \frac{1}{2}, y, \frac{1}{2} - z]$	[24]
25	$[x + \frac{1}{2}, y + \frac{1}{2}, z]$	[25]
26	$[x + \frac{1}{2}, \frac{1}{2} - y, -z]$	[26]
27	$[\frac{1}{2} - x, y + \frac{1}{2}, -z]$	[27]
28	$[\frac{1}{2} - x, \frac{1}{2} - y, z]$	[28]
29	$[\frac{1}{2} - x, \frac{1}{2} - y, -z]$	[29]
30	$[\frac{1}{2} - x, y + \frac{1}{2}, z]$	[30]
31	$[x + \frac{1}{2}, \frac{1}{2} - y, z]$	[31]
32	$[x + \frac{1}{2}, y + \frac{1}{2}, -z]$	[32]
33	$[x, y, z + \frac{1}{2}]$	[33]
34	$[x, -y, \frac{1}{2} - z]$	[34]
35	$[-x, y, \frac{1}{2} - z]$	[35]
36	$[-x, -y, z + \frac{1}{2}]$	[36]
37	$[-x, -y, \frac{1}{2} - z]$	[37]
38	$[-x, y, z + \frac{1}{2}]$	[38]
39	$[x, -y, z + \frac{1}{2}]$	[39]

continued ...

Table 27

No.	position	mapping
40	$[x, y, \frac{1}{2} - z]$	[40]
41	$[x, y + \frac{1}{2}, z]$	[41]
42	$[x, \frac{1}{2} - y, -z]$	[42]
43	$[-x, y + \frac{1}{2}, -z]$	[43]
44	$[-x, \frac{1}{2} - y, z]$	[44]
45	$[-x, \frac{1}{2} - y, -z]$	[45]
46	$[-x, y + \frac{1}{2}, z]$	[46]
47	$[x, \frac{1}{2} - y, z]$	[47]
48	$[x, y + \frac{1}{2}, -z]$	[48]
49	$[x + \frac{1}{2}, y, z]$	[49]
50	$[x + \frac{1}{2}, -y, -z]$	[50]
51	$[\frac{1}{2} - x, y, -z]$	[51]
52	$[\frac{1}{2} - x, -y, z]$	[52]
53	$[\frac{1}{2} - x, -y, -z]$	[53]
54	$[\frac{1}{2} - x, y, z]$	[54]
55	$[x + \frac{1}{2}, -y, z]$	[55]
56	$[x + \frac{1}{2}, y, -z]$	[56]
57	$[x + \frac{1}{2}, y + \frac{1}{2}, z + \frac{1}{2}]$	[57]
58	$[x + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{2} - z]$	[58]
59	$[\frac{1}{2} - x, y + \frac{1}{2}, \frac{1}{2} - z]$	[59]
60	$[\frac{1}{2} - x, \frac{1}{2} - y, z + \frac{1}{2}]$	[60]
61	$[\frac{1}{2} - x, \frac{1}{2} - y, \frac{1}{2} - z]$	[61]
62	$[\frac{1}{2} - x, y + \frac{1}{2}, z + \frac{1}{2}]$	[62]
63	$[x + \frac{1}{2}, \frac{1}{2} - y, z + \frac{1}{2}]$	[63]
64	$[x + \frac{1}{2}, y + \frac{1}{2}, \frac{1}{2} - z]$	[64]