

Table 1: Wyckoff site: 2a, site symmetry: $-3m'$.

No.	position	mapping
1	$[0, 0, 0]$	$[1, 2, 3, 7, 8, 9, 16, 17, 18, 22, 23, 24]$
2	$[0, 0, \frac{1}{2}]$	$[4, 5, 6, 10, 11, 12, 13, 14, 15, 19, 20, 21]$

Table 2: Wyckoff site: 2b, site symmetry: $-6'm'2$

No.	position	mapping
1	$[0, 0, \frac{1}{4}]$	$[1, 2, 3, 4, 5, 6, 19, 20, 21, 22, 23, 24]$
2	$[0, 0, \frac{3}{4}]$	$[7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18]$

Table 3: Wyckoff site: 2c, site symmetry: $-6'm'2$

No.	position	mapping
1	$[\frac{1}{3}, \frac{2}{3}, \frac{1}{4}]$	$[1, 2, 3, 4, 5, 6, 19, 20, 21, 22, 23, 24]$
2	$[\frac{2}{3}, \frac{1}{3}, \frac{3}{4}]$	$[7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18]$

Table 4: Wyckoff site: 2d, site symmetry: $-6'm'2$

No.	position	mapping
1	$[\frac{1}{3}, \frac{2}{3}, \frac{3}{4}]$	$[1, 2, 3, 4, 5, 6, 19, 20, 21, 22, 23, 24]$
2	$[\frac{2}{3}, \frac{1}{3}, \frac{1}{4}]$	$[7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18]$

Table 5: Wyckoff site: 4e, site symmetry: $3m'$.

No.	position	mapping
1	$[0, 0, z]$	$[1, 2, 3, 22, 23, 24]$
2	$[0, 0, \frac{1}{2} - z]$	$[4, 5, 6, 19, 20, 21]$
3	$[0, 0, -z]$	$[7, 8, 9, 16, 17, 18]$
4	$[0, 0, z + \frac{1}{2}]$	$[10, 11, 12, 13, 14, 15]$

Table 6: Wyckoff site: 4f, site symmetry: $3m'$.

No.	position	mapping
1	$[\frac{1}{3}, \frac{2}{3}, z]$	[1, 2, 3, 22, 23, 24]
2	$[\frac{1}{3}, \frac{2}{3}, \frac{1}{2} - z]$	[4, 5, 6, 19, 20, 21]
3	$[\frac{2}{3}, \frac{1}{3}, -z]$	[7, 8, 9, 16, 17, 18]
4	$[\frac{2}{3}, \frac{1}{3}, z + \frac{1}{2}]$	[10, 11, 12, 13, 14, 15]

Table 7: Wyckoff site: 6g, site symmetry: $.2'/m'$.

No.	position	mapping
1	$[\frac{1}{2}, 0, 0]$	[1, 7, 16, 22]
2	$[0, \frac{1}{2}, 0]$	[2, 8, 17, 23]
3	$[\frac{1}{2}, \frac{1}{2}, 0]$	[3, 9, 18, 24]
4	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	[4, 10, 13, 19]
5	$[\frac{1}{2}, 0, \frac{1}{2}]$	[5, 11, 14, 20]
6	$[0, \frac{1}{2}, \frac{1}{2}]$	[6, 12, 15, 21]

Table 8: Wyckoff site: 6h, site symmetry: $m'm'2$

No.	position	mapping
1	$[x, 2x, \frac{1}{4}]$	[1, 5, 20, 22]
2	$[-2x, -x, \frac{1}{4}]$	[2, 6, 21, 23]
3	$[x, -x, \frac{1}{4}]$	[3, 4, 19, 24]
4	$[-x, -2x, \frac{3}{4}]$	[7, 11, 14, 16]
5	$[2x, x, \frac{3}{4}]$	[8, 12, 15, 17]
6	$[-x, x, \frac{3}{4}]$	[9, 10, 13, 18]

Table 9: Wyckoff site: 12i, site symmetry: $.2'$.

No.	position	mapping
1	$[x, 0, 0]$	[1, 16]
2	$[0, x, 0]$	[2, 17]
3	$[-x, -x, 0]$	[3, 18]
4	$[x, x, \frac{1}{2}]$	[4, 13]
5	$[-x, 0, \frac{1}{2}]$	[5, 14]
6	$[0, -x, \frac{1}{2}]$	[6, 15]
7	$[-x, 0, 0]$	[7, 22]
8	$[0, -x, 0]$	[8, 23]
9	$[x, x, 0]$	[9, 24]
10	$[-x, -x, \frac{1}{2}]$	[10, 19]
11	$[x, 0, \frac{1}{2}]$	[11, 20]

continued ...

Table 9

No.	position	mapping
12	$[0, x, \frac{1}{2}]$	[12,21]

Table 10: Wyckoff site: 12j, site symmetry: m' .

No.	position	mapping
1	$[x, y, \frac{1}{4}]$	[1,20]
2	$[-y, x - y, \frac{1}{4}]$	[2,21]
3	$[-x + y, -x, \frac{1}{4}]$	[3,19]
4	$[x, x - y, \frac{1}{4}]$	[4,24]
5	$[-x + y, y, \frac{1}{4}]$	[5,22]
6	$[-y, -x, \frac{1}{4}]$	[6,23]
7	$[-x, -y, \frac{3}{4}]$	[7,14]
8	$[y, -x + y, \frac{3}{4}]$	[8,15]
9	$[x - y, x, \frac{3}{4}]$	[9,13]
10	$[-x, -x + y, \frac{3}{4}]$	[10,18]
11	$[x - y, -y, \frac{3}{4}]$	[11,16]
12	$[y, x, \frac{3}{4}]$	[12,17]

Table 11: Wyckoff site: 12k, site symmetry: $.m'$.

No.	position	mapping
1	$[x, 2x, z]$	[1,22]
2	$[-2x, -x, z]$	[2,23]
3	$[x, -x, z]$	[3,24]
4	$[x, -x, \frac{1}{2} - z]$	[4,19]
5	$[x, 2x, \frac{1}{2} - z]$	[5,20]
6	$[-2x, -x, \frac{1}{2} - z]$	[6,21]
7	$[-x, -2x, -z]$	[7,16]
8	$[2x, x, -z]$	[8,17]
9	$[-x, x, -z]$	[9,18]
10	$[-x, x, z + \frac{1}{2}]$	[10,13]
11	$[-x, -2x, z + \frac{1}{2}]$	[11,14]
12	$[2x, x, z + \frac{1}{2}]$	[12,15]

Table 12: Wyckoff site: 24l, site symmetry: 1

No.	position	mapping
1	$[x, y, z]$	[1]
2	$[-y, x - y, z]$	[2]

continued ...

Table 12

No.	position	mapping
3	$[-x + y, -x, z]$	[3]
4	$[x, x - y, \frac{1}{2} - z]$	[4]
5	$[-x + y, y, \frac{1}{2} - z]$	[5]
6	$[-y, -x, \frac{1}{2} - z]$	[6]
7	$[-x, -y, -z]$	[7]
8	$[y, -x + y, -z]$	[8]
9	$[x - y, x, -z]$	[9]
10	$[-x, -x + y, z + \frac{1}{2}]$	[10]
11	$[x - y, -y, z + \frac{1}{2}]$	[11]
12	$[y, x, z + \frac{1}{2}]$	[12]
13	$[x - y, x, z + \frac{1}{2}]$	[13]
14	$[-x, -y, z + \frac{1}{2}]$	[14]
15	$[y, -x + y, z + \frac{1}{2}]$	[15]
16	$[x - y, -y, -z]$	[16]
17	$[y, x, -z]$	[17]
18	$[-x, -x + y, -z]$	[18]
19	$[-x + y, -x, \frac{1}{2} - z]$	[19]
20	$[x, y, \frac{1}{2} - z]$	[20]
21	$[-y, x - y, \frac{1}{2} - z]$	[21]
22	$[-x + y, y, z]$	[22]
23	$[-y, -x, z]$	[23]
24	$[x, x - y, z]$	[24]