

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

No.	position	mapping
1	$[0, 0, 0]$	$[1, 2, 7, 8, 11, 12, 13, 14]$
2	$[0, 0, \frac{1}{2}]$	$[3, 4, 5, 6, 9, 10, 15, 16]$

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

No.	position	mapping
1	$[\frac{1}{2}, \frac{1}{2}, 0]$	$[1, 2, 7, 8, 11, 12, 13, 14]$
2	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	$[3, 4, 5, 6, 9, 10, 15, 16]$

Table 3: Wyckoff site: 2c, site symmetry: $m'mm$.

No.	position	mapping
1	$[0, \frac{1}{2}, 0]$	$[1, 2, 7, 8, 11, 12, 13, 14]$
2	$[\frac{1}{2}, 0, \frac{1}{2}]$	$[3, 4, 5, 6, 9, 10, 15, 16]$

Table 4: Wyckoff site: 2d, site symmetry: $m'mm$.

No.	position	mapping
1	$[0, \frac{1}{2}, \frac{1}{2}]$	$[1, 2, 7, 8, 11, 12, 13, 14]$
2	$[\frac{1}{2}, 0, 0]$	$[3, 4, 5, 6, 9, 10, 15, 16]$

Table 5: Wyckoff site: 2e, site symmetry: $-4m2$

No.	position	mapping
1	$[0, 0, \frac{1}{4}]$	$[1, 2, 3, 4, 5, 6, 7, 8]$
2	$[0, 0, \frac{3}{4}]$	$[9, 10, 11, 12, 13, 14, 15, 16]$

Table 6: Wyckoff site: 2f, site symmetry: $-4m2$

No.	position	mapping
1	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{4}]$	$[1, 2, 3, 4, 5, 6, 7, 8]$
2	$[\frac{1}{2}, \frac{1}{2}, \frac{3}{4}]$	$[9, 10, 11, 12, 13, 14, 15, 16]$

Table 7: Wyckoff site: 4g, site symmetry: $2mm$.

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

Table 8: Wyckoff site: 4h, site symmetry: $2mm$.

No.	position	mapping
1	$[\frac{1}{2}, \frac{1}{2}, z]$	$[1, 2, 7, 8]$
2	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2} - z]$	$[3, 4, 5, 6]$
3	$[\frac{1}{2}, \frac{1}{2}, z + \frac{1}{2}]$	$[9, 10, 15, 16]$
4	$[\frac{1}{2}, \frac{1}{2}, -z]$	$[11, 12, 13, 14]$

Table 9: Wyckoff site: 4i, site symmetry: $2mm$.

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

Table 10: Wyckoff site: 4j, site symmetry: $m'2'm$.

No.	position	mapping
1	$[x, 0, 0]$	$[1, 8, 11, 14]$
2	$[-x, 0, 0]$	$[2, 7, 12, 13]$
3	$[0, x, \frac{1}{2}]$	$[3, 6, 9, 16]$
4	$[0, -x, \frac{1}{2}]$	$[4, 5, 10, 15]$

Table 11: Wyckoff site: 4k, site symmetry: $m'2'm$.

No.	position	mapping
1	$[x, \frac{1}{2}, \frac{1}{2}]$	$[1, 8, 11, 14]$
2	$[-x, \frac{1}{2}, \frac{1}{2}]$	$[2, 7, 12, 13]$
3	$[\frac{1}{2}, x, 0]$	$[3, 6, 9, 16]$
4	$[\frac{1}{2}, -x, 0]$	$[4, 5, 10, 15]$

Table 12: Wyckoff site: $4l$, site symmetry: $m'2'm$.

No.	position	mapping
1	$[x, 0, \frac{1}{2}]$	[1,8,11,14]
2	$[-x, 0, \frac{1}{2}]$	[2,7,12,13]
3	$[0, x, 0]$	[3,6,9,16]
4	$[0, -x, 0]$	[4,5,10,15]

Table 13: Wyckoff site: $4m$, site symmetry: $m'2'm$.

No.	position	mapping
1	$[x, \frac{1}{2}, 0]$	[1,8,11,14]
2	$[-x, \frac{1}{2}, 0]$	[2,7,12,13]
3	$[\frac{1}{2}, x, \frac{1}{2}]$	[3,6,9,16]
4	$[\frac{1}{2}, -x, \frac{1}{2}]$	[4,5,10,15]

Table 14: Wyckoff site: $8n$, site symmetry: $. . 2$

No.	position	mapping
1	$[x, x, \frac{1}{4}]$	[1,3]
2	$[-x, -x, \frac{1}{4}]$	[2,4]
3	$[x, -x, \frac{1}{4}]$	[5,8]
4	$[-x, x, \frac{1}{4}]$	[6,7]
5	$[-x, x, \frac{3}{4}]$	[9,12]
6	$[x, -x, \frac{3}{4}]$	[10,11]
7	$[-x, -x, \frac{3}{4}]$	[13,15]
8	$[x, x, \frac{3}{4}]$	[14,16]

Table 15: Wyckoff site: $8o$, site symmetry: $.m$.

No.	position	mapping
1	$[0, y, z]$	[1,7]
2	$[0, -y, z]$	[2,8]
3	$[y, 0, \frac{1}{2} - z]$	[3,5]
4	$[-y, 0, \frac{1}{2} - z]$	[4,6]
5	$[-y, 0, z + \frac{1}{2}]$	[9,15]
6	$[y, 0, z + \frac{1}{2}]$	[10,16]
7	$[0, -y, -z]$	[11,13]
8	$[0, y, -z]$	[12,14]

Table 16: Wyckoff site: $8p$, site symmetry: $.m$.

No.	position	mapping
1	$[\frac{1}{2}, y, z]$	[1, 7]
2	$[\frac{1}{2}, -y, z]$	[2, 8]
3	$[y, \frac{1}{2}, \frac{1}{2} - z]$	[3, 5]
4	$[-y, \frac{1}{2}, \frac{1}{2} - z]$	[4, 6]
5	$[-y, \frac{1}{2}, z + \frac{1}{2}]$	[9, 15]
6	$[y, \frac{1}{2}, z + \frac{1}{2}]$	[10, 16]
7	$[\frac{1}{2}, -y, -z]$	[11, 13]
8	$[\frac{1}{2}, y, -z]$	[12, 14]

Table 17: Wyckoff site: $8q$, site symmetry: m' .

No.	position	mapping
1	$[x, y, 0]$	[1, 14]
2	$[-x, -y, 0]$	[2, 13]
3	$[y, x, \frac{1}{2}]$	[3, 16]
4	$[-y, -x, \frac{1}{2}]$	[4, 15]
5	$[y, -x, \frac{1}{2}]$	[5, 10]
6	$[-y, x, \frac{1}{2}]$	[6, 9]
7	$[-x, y, 0]$	[7, 12]
8	$[x, -y, 0]$	[8, 11]

Table 18: Wyckoff site: $16r$, site symmetry: 1

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