

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 12: Wyckoff site:  $4\bar{1}$ , site symmetry:  $m'2'm$ .

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

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

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

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

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

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

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

Table 16: Wyckoff site:  $8p$ , site symmetry:  $\bar{4}2m$ .

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

Table 17: Wyckoff site:  $8q$ , site symmetry:  $m'\bar{2}$ .

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

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

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