

Table 1: Wyckoff site: 2a, site symmetry:  $4/m'$  . .

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

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

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

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

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

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

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

Table 5: Wyckoff site: 4e, site symmetry:  $4$  . .

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

Table 6: Wyckoff site: 4f, site symmetry:  $2.mm$ 

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

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

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

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

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

Table 9: Wyckoff site: 8i, site symmetry:  $m'..$ 

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

Table 10: Wyckoff site:  $8j$ , site symmetry:  $m'..$ 

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

Table 11: Wyckoff site:  $8k$ , site symmetry:  $..m$ 

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

Table 12: Wyckoff site:  $16l$ , site symmetry:  $1$ 

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