

Table 1: Wyckoff site: 1a, site symmetry:  $4'/mmm'$

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

Table 2: Wyckoff site: 1b, site symmetry:  $4'/mmm'$

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

Table 3: Wyckoff site: 1c, site symmetry:  $4'/mmm'$

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

Table 4: Wyckoff site: 1d, site symmetry:  $4'/mmm'$

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

Table 5: Wyckoff site: 2e, site symmetry:  $mmm$ .

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

Table 6: Wyckoff site: 2f, site symmetry:  $mmm$ .

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

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

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

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

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

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

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

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

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

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

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

Table 12: Wyckoff site:  $4\mathbf{l}$ , site symmetry:  $m2m$ .

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

Table 13: Wyckoff site:  $4\mathbf{m}$ , site symmetry:  $m2m$ .

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

Table 14: Wyckoff site:  $4\mathbf{n}$ , site symmetry:  $m2m$ .

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

Table 15: Wyckoff site:  $4\mathbf{o}$ , site symmetry:  $m2m$ .

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

Table 16: Wyckoff site:  $8\mathbf{p}$ , site symmetry:  $m..$ 

No.	position	mapping
1	$[x, y, 0]$	$[1, 8]$
2	$[x, -y, 0]$	$[2, 7]$
3	$[-x, y, 0]$	$[3, 6]$
4	$[-x, -y, 0]$	$[4, 5]$

*continued ...*

Table 16

No.	position	mapping
5	$[-y, x, 0]$	$[9, 14]$
6	$[y, -x, 0]$	$[10, 13]$
7	$[y, x, 0]$	$[11, 16]$
8	$[-y, -x, 0]$	$[12, 15]$

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

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

Table 18: Wyckoff site:  $8r$ , site symmetry:  $..m'$ 

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

Table 19: Wyckoff site:  $8s$ , 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	$[0, x, z]$	$[9, 16]$
6	$[0, -x, z]$	$[10, 15]$
7	$[0, x, -z]$	$[11, 14]$

*continued ...*

Table 19

No.	position	mapping
8	$[0, -x, -z]$	$[12, 13]$

Table 20: Wyckoff site:  $8\bar{t}$ , site symmetry:  $\bar{4}2m$ .

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

Table 21: Wyckoff site:  $16u$ , 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	$[-y, x, z]$	$[9]$
10	$[y, -x, z]$	$[10]$
11	$[y, x, -z]$	$[11]$
12	$[-y, -x, -z]$	$[12]$
13	$[y, -x, -z]$	$[13]$
14	$[-y, x, -z]$	$[14]$
15	$[-y, -x, z]$	$[15]$
16	$[y, x, z]$	$[16]$