

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

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

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

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

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

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

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

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

Table 5: Wyckoff site: 4e, site symmetry:  $\dots 2'/m'$

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

Table 6: Wyckoff site: 4f, site symmetry:  $\dots 2'/m'$ 

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

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

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

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

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

Table 9: Wyckoff site: 4i, site symmetry:  $m2'm'$ 

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

Table 10: Wyckoff site: 4j, site symmetry:  $m2'm'$ 

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

Table 11: Wyckoff site: 4k, site symmetry:  $\text{mm}'2'$ 

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

Table 12: Wyckoff site: 4l, site symmetry:  $\text{mm}'2'$ 

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

Table 13: Wyckoff site: 8m, site symmetry:  $..2'$ 

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

Table 14: Wyckoff site: 8n, site symmetry:  $\text{m}..$ 

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

Table 15: Wyckoff site:  $8o$ , 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	$[x + \frac{1}{2}, \frac{1}{2}, z]$	$[9, 15]$
6	$[x + \frac{1}{2}, \frac{1}{2}, -z]$	$[10, 16]$
7	$[\frac{1}{2} - x, \frac{1}{2}, -z]$	$[11, 13]$
8	$[\frac{1}{2} - x, \frac{1}{2}, z]$	$[12, 14]$

Table 16: Wyckoff site:  $8p$ , 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	$[-x, y, 0]$	$[4, 5]$
5	$[x + \frac{1}{2}, y + \frac{1}{2}, 0]$	$[9, 16]$
6	$[x + \frac{1}{2}, \frac{1}{2} - y, 0]$	$[10, 15]$
7	$[\frac{1}{2} - x, \frac{1}{2} - y, 0]$	$[11, 14]$
8	$[\frac{1}{2} - x, y + \frac{1}{2}, 0]$	$[12, 13]$

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	$[x + \frac{1}{2}, y + \frac{1}{2}, \frac{1}{2}]$	$[9, 16]$
6	$[x + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{2}]$	$[10, 15]$
7	$[\frac{1}{2} - x, \frac{1}{2} - y, \frac{1}{2}]$	$[11, 14]$
8	$[\frac{1}{2} - x, y + \frac{1}{2}, \frac{1}{2}]$	$[12, 13]$

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

No.	position	mapping
1	$[x, y, z]$	$[1]$
2	$[x, -y, -z]$	$[2]$
3	$[-x, -y, -z]$	$[3]$

*continued ...*

Table 18

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