

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 9: Wyckoff site: 4i, site symmetry: $m'2m'$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

No.	position	mapping
1	$[x, y, z]$	[1]
2	$[x, \frac{1}{2} - y, -z]$	[2]
3	$[\frac{1}{2} - x, y, -z]$	[3]

continued ...

Table 18

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