

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]