

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

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: $4/m'mm$

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: $4/m'mm$

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: $4/m'mm$

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: $m'mm$.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 13: Wyckoff site: $4m$, site symmetry: $m'2'm$.

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

Table 14: Wyckoff site: $4n$, site symmetry: $m'2'm$.

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

Table 15: Wyckoff site: $4o$, site symmetry: $m'2'm$.

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

Table 16: Wyckoff site: $8p$, 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	$[-x, -y, 0]$	$[4, 13]$

continued ...

Table 16

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

Table 17: Wyckoff site: $8q$, 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	$[-x, y, \frac{1}{2}]$	[5,10]
6	$[x, -y, \frac{1}{2}]$	[6,9]
7	$[-y, -x, \frac{1}{2}]$	[7,12]
8	$[y, x, \frac{1}{2}]$	[8,11]

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

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

Table 19: Wyckoff site: $8s$, site symmetry: $..m$.

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

continued ...

Table 19

No.	position	mapping
8	$[0, -x, -z]$	[12,14]

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

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

Table 21: Wyckoff site: $16u$, 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	$[-x, y, z]$	[5]
6	$[x, -y, z]$	[6]
7	$[-y, -x, z]$	[7]
8	$[y, x, z]$	[8]
9	$[x, -y, -z]$	[9]
10	$[-x, y, -z]$	[10]
11	$[y, x, -z]$	[11]
12	$[-y, -x, -z]$	[12]
13	$[-x, -y, -z]$	[13]
14	$[y, -x, -z]$	[14]
15	$[-y, x, -z]$	[15]
16	$[x, y, -z]$	[16]