

Table 1: Wyckoff site: 4a, site symmetry: $2'2'2$

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

Table 2: Wyckoff site: 4b, site symmetry: $2'2'2$

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

Table 3: Wyckoff site: 4c, site symmetry: $2'/m..$

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

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

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

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

No.	position	mapping
1	$[\frac{1}{4}, \frac{1}{4}, 0]$	$[1, 6, 12, 15]$
2	$[\frac{1}{4}, \frac{3}{4}, 0]$	$[2, 5, 11, 16]$

continued ...

Table 5

No.	position	mapping
3	$[\frac{3}{4}, \frac{1}{4}, 0]$	[3, 8, 10, 13]
4	$[\frac{3}{4}, \frac{3}{4}, 0]$	[4, 7, 9, 14]

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

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

Table 7: Wyckoff site: 4g, site symmetry: $mm2$

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

Table 8: Wyckoff site: 8h, site symmetry: $2'..$

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

Table 9: Wyckoff site: 8i, site symmetry: $2'..$

No.	position	mapping
1	$[x, 0, \frac{1}{2}]$	[1, 5]
2	$[\frac{1}{2} - x, 0, \frac{1}{2}]$	[2, 6]
3	$[-x, 0, \frac{1}{2}]$	[3, 7]

continued ...

Table 9

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

Table 10: Wyckoff site: 8j, site symmetry: $.2'$.

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

Table 11: Wyckoff site: 8k, site symmetry: $.2'$.

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

Table 12: Wyckoff site: 8l, site symmetry: $.2$

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

continued ...

Table 12

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

Table 13: Wyckoff site: $8\mathbf{m}$, site symmetry: $\mathbf{m}..$

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

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

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

Table 15: Wyckoff site: $16\mathbf{o}$, site symmetry: 1

No.	position	mapping
1	$[x, y, z]$	[1]
2	$[\frac{1}{2} - x, -y, z]$	[2]
3	$[-x, y, z]$	[3]
4	$[x + \frac{1}{2}, -y, z]$	[4]
5	$[x, -y, -z]$	[5]
6	$[\frac{1}{2} - x, y, -z]$	[6]
7	$[-x, -y, -z]$	[7]
8	$[x + \frac{1}{2}, y, -z]$	[8]
9	$[x + \frac{1}{2}, y + \frac{1}{2}, z]$	[9]

continued ...

Table 15

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