

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

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

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

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

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

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

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

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

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

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

Table 6: Wyckoff site: 4f, site symmetry: 22'2'.

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

Table 7: Wyckoff site: 4g, site symmetry: 4'..

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

Table 8: Wyckoff site: 4h, site symmetry: 4'..

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

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

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

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

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

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

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

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

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

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

No.	position	mapping
1	$[x, y, 0]$	[1,6]
2	$[-x, -y, 0]$	[2,5]
3	$[y, x, \frac{1}{2}]$	[3,8]

continued ...

Table 13

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

Table 14: Wyckoff site: 16n, site symmetry: 1

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