

Table 1: Wyckoff site: 4a, site symmetry: 2.22

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

Table 2: Wyckoff site: 4b, site symmetry: 2.22

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

Table 3: Wyckoff site: 4c, site symmetry: 2.2'2'

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

Table 4: Wyckoff site: 4d, site symmetry: 2.22

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

Table 5: Wyckoff site: 4e, site symmetry: $-4'..$

No.	position	mapping
1	$[\frac{1}{2}, 0, 0]$	[1,2,13,14]
2	$[\frac{1}{2}, 0, \frac{1}{2}]$	[3,4,15,16]

continued ...

Table 5

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

Table 6: Wyckoff site: 4f, site symmetry: $-4..$

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

Table 7: Wyckoff site: 8g, site symmetry: $..2$

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

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

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

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

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

Table 10: Wyckoff site: 8j, site symmetry: $\dots 2$

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

Table 11: Wyckoff site: 8k, site symmetry: $2 \dots$

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

Table 12: Wyckoff site: 8l, site symmetry: $2 \dots$

No.	position	mapping
1	$[\frac{1}{2}, \frac{1}{2}, z]$	[1,2]
2	$[0, 0, \frac{1}{2} - z]$	[3,4]
3	$[\frac{1}{2}, \frac{1}{2}, -z]$	[5,6]

continued ...

Table 12

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

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

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

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

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