

Table 1: Wyckoff site: 4a, site symmetry: $2'22'$

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

Table 2: Wyckoff site: 4b, site symmetry: $2'22'$

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

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

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

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

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

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

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

continued ...

Table 5

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

Table 6: Wyckoff site: $4\mathbf{f}$, site symmetry: $2/m..$

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

Table 7: Wyckoff site: $8\mathbf{g}$, site symmetry: $.2.$

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

Table 8: Wyckoff site: $8\mathbf{h}$, site symmetry: $..2'$

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

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

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

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

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

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

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

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

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

continued ...

Table 12

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

Table 13: Wyckoff site: 16m, site symmetry: 1

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