

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

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

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

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

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

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

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

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

Table 5: Wyckoff site: 8e, site symmetry:  $-1'$

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

*continued ...*

Table 5

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

Table 6: Wyckoff site: 8f, site symmetry:  $2'$  . .

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

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

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

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

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

*continued ...*

Table 8

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

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

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

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

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

Table 11: Wyckoff site: 16k, site symmetry: 1

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

*continued ...*

Table 11

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