

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

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

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

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

Table 3: Wyckoff site: 4c, site symmetry: $2'22'$

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

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

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

Table 5: Wyckoff site: 8e, site symmetry: $2..$

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

continued ...

Table 5

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

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

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

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

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

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

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

continued ...

Table 8

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

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

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

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

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

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

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

continued ...

Table 11

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