

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

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

Table 2: Wyckoff site: 4b, site symmetry: -4..

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

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

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

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

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

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

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

*continued ...*

Table 5

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

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

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

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

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

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

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

Table 9: Wyckoff site: 8i, site symmetry:  $\cdot \cdot m'$ 

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

Table 10: Wyckoff site: 16j, site symmetry: 1

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