

Table 1: Wyckoff site: 4a, site symmetry:  $2.2'2'$

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

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

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

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

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

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

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

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

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

*continued ...*

Table 5

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

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

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

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

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

Table 9: Wyckoff site: 8i, site symmetry:  $\bar{3}m'$ 

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

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

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