

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

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

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

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

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

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

Table 4: Wyckoff site: 4d, site symmetry:  $2.22$

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

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

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

*continued ...*

Table 5

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

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

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

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

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

Table 8: Wyckoff site: 8h, site symmetry: m'..

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

continued ...

Table 8

No.	position	mapping
6	$[-y, x, \frac{1}{2}]$	[6,9]
7	$[\frac{1}{2} - x, y + \frac{1}{2}, 0]$	[7,12]
8	$[x + \frac{1}{2}, \frac{1}{2} - y, 0]$	[8,11]

Table 9: Wyckoff site: 16i, site symmetry: 1

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