

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

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

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

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

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

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

Table 4: Wyckoff site: 4d, 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	$[\frac{1}{2}, 0, 0]$	[9,11,13,15]
4	$[0, \frac{1}{2}, 0]$	[10,12,14,16]

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

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

Table 6: Wyckoff site: 4f, site symmetry: $2m'm'$.

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

Table 7: Wyckoff site: 8g, 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	$[-x, x, 0]$	[5, 8]
4	$[x + \frac{1}{2}, \frac{1}{2} - x, 0]$	[6, 7]
5	$[x + \frac{1}{2}, x, 0]$	[9, 11]
6	$[-x, \frac{1}{2} - x, 0]$	[10, 12]
7	$[\frac{1}{2} - x, -x, 0]$	[13, 15]
8	$[x, x + \frac{1}{2}, 0]$	[14, 16]

Table 8: Wyckoff site: 8h, 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	$[-x, x, \frac{1}{2}]$	[5, 8]
4	$[x + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2}]$	[6, 7]
5	$[x + \frac{1}{2}, x, \frac{1}{2}]$	[9, 11]
6	$[-x, \frac{1}{2} - x, \frac{1}{2}]$	[10, 12]
7	$[\frac{1}{2} - x, -x, \frac{1}{2}]$	[13, 15]
8	$[x, x + \frac{1}{2}, \frac{1}{2}]$	[14, 16]

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

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

continued ...

Table 9

No.	position	mapping
8	$[y, \frac{1}{4}, z]$	[8,10]

Table 10: Wyckoff site: 8j, site symmetry: $\bar{4}2m$

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

Table 11: Wyckoff site: 16k, 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	$[-x, -y, -z]$	[5]
6	$[x + \frac{1}{2}, y + \frac{1}{2}, -z]$	[6]
7	$[\frac{1}{2} - y, \frac{1}{2} - x, z]$	[7]
8	$[y, x, z]$	[8]
9	$[\frac{1}{2} - y, x, z]$	[9]
10	$[y, \frac{1}{2} - x, z]$	[10]
11	$[x + \frac{1}{2}, -y, -z]$	[11]
12	$[-x, y + \frac{1}{2}, -z]$	[12]
13	$[y + \frac{1}{2}, -x, -z]$	[13]
14	$[-y, x + \frac{1}{2}, -z]$	[14]
15	$[\frac{1}{2} - x, y, z]$	[15]
16	$[x, \frac{1}{2} - y, z]$	[16]