

Table 1: Wyckoff site: 4a, site symmetry: 222

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

Table 2: Wyckoff site: 4b, site symmetry: 222

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

Table 3: Wyckoff site: 8c, site symmetry: $-1'$

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

Table 4: Wyckoff site: 8d, site symmetry: -1

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

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

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

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

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

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

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

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

No.	position	mapping
1	$[x, \frac{1}{2}, \frac{1}{4}]$	[1, 10]
2	$[x, 0, \frac{3}{4}]$	[2, 9]
3	$[\frac{1}{2} - x, \frac{1}{2}, \frac{3}{4}]$	[3, 12]

continued ...

Table 8

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

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

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