

Table 1: Wyckoff site: 2a, site symmetry: $\bar{2}3$.

No.	position	mapping
1	$[0, 0, 0]$	$[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]$
2	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	$[13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24]$

Table 2: Wyckoff site: 6b, site symmetry: $222..$

No.	position	mapping
1	$[0, \frac{1}{2}, \frac{1}{2}]$	$[1, 2, 3, 4]$
2	$[\frac{1}{2}, 0, \frac{1}{2}]$	$[5, 8, 10, 12]$
3	$[\frac{1}{2}, \frac{1}{2}, 0]$	$[6, 7, 9, 11]$
4	$[\frac{1}{2}, 0, 0]$	$[13, 14, 15, 16]$
5	$[0, \frac{1}{2}, 0]$	$[17, 20, 22, 24]$
6	$[0, 0, \frac{1}{2}]$	$[18, 19, 21, 23]$

Table 3: Wyckoff site: 8c, site symmetry: $\bar{3}$.

No.	position	mapping
1	$[x, x, x]$	$[1, 5, 6]$
2	$[x, -x, -x]$	$[2, 10, 11]$
3	$[-x, x, -x]$	$[3, 7, 12]$
4	$[-x, -x, x]$	$[4, 8, 9]$
5	$[x + \frac{1}{2}, x + \frac{1}{2}, x + \frac{1}{2}]$	$[13, 17, 18]$
6	$[x + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2} - x]$	$[14, 22, 23]$
7	$[\frac{1}{2} - x, x + \frac{1}{2}, \frac{1}{2} - x]$	$[15, 19, 24]$
8	$[\frac{1}{2} - x, \frac{1}{2} - x, x + \frac{1}{2}]$	$[16, 20, 21]$

Table 4: Wyckoff site: 12d, site symmetry: $2..$

No.	position	mapping
1	$[x, 0, 0]$	$[1, 2]$
2	$[-x, 0, 0]$	$[3, 4]$
3	$[0, x, 0]$	$[5, 12]$
4	$[0, 0, x]$	$[6, 9]$
5	$[0, 0, -x]$	$[7, 11]$
6	$[0, -x, 0]$	$[8, 10]$
7	$[x + \frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	$[13, 14]$
8	$[\frac{1}{2} - x, \frac{1}{2}, \frac{1}{2}]$	$[15, 16]$
9	$[\frac{1}{2}, x + \frac{1}{2}, \frac{1}{2}]$	$[17, 24]$

continued ...

Table 4

No.	position	mapping
10	$[\frac{1}{2}, \frac{1}{2}, x + \frac{1}{2}]$	[18, 21]
11	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2} - x]$	[19, 23]
12	$[\frac{1}{2}, \frac{1}{2} - x, \frac{1}{2}]$	[20, 22]

Table 5: Wyckoff site: 12e, site symmetry: 2 . .

No.	position	mapping
1	$[x, \frac{1}{2}, 0]$	[1, 2]
2	$[-x, \frac{1}{2}, 0]$	[3, 4]
3	$[0, x, \frac{1}{2}]$	[5, 12]
4	$[\frac{1}{2}, 0, x]$	[6, 9]
5	$[\frac{1}{2}, 0, -x]$	[7, 11]
6	$[0, -x, \frac{1}{2}]$	[8, 10]
7	$[x + \frac{1}{2}, 0, \frac{1}{2}]$	[13, 14]
8	$[\frac{1}{2} - x, 0, \frac{1}{2}]$	[15, 16]
9	$[\frac{1}{2}, x + \frac{1}{2}, 0]$	[17, 24]
10	$[0, \frac{1}{2}, x + \frac{1}{2}]$	[18, 21]
11	$[0, \frac{1}{2}, \frac{1}{2} - x]$	[19, 23]
12	$[\frac{1}{2}, \frac{1}{2} - x, 0]$	[20, 22]

Table 6: Wyckoff site: 24f, site symmetry: 1

No.	position	mapping
1	$[x, y, z]$	[1]
2	$[x, -y, -z]$	[2]
3	$[-x, y, -z]$	[3]
4	$[-x, -y, z]$	[4]
5	$[z, x, y]$	[5]
6	$[y, z, x]$	[6]
7	$[-y, z, -x]$	[7]
8	$[-z, -x, y]$	[8]
9	$[-y, -z, x]$	[9]
10	$[z, -x, -y]$	[10]
11	$[y, -z, -x]$	[11]
12	$[-z, x, -y]$	[12]
13	$[x + \frac{1}{2}, y + \frac{1}{2}, z + \frac{1}{2}]$	[13]
14	$[x + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{2} - z]$	[14]
15	$[\frac{1}{2} - x, y + \frac{1}{2}, \frac{1}{2} - z]$	[15]
16	$[\frac{1}{2} - x, \frac{1}{2} - y, z + \frac{1}{2}]$	[16]
17	$[z + \frac{1}{2}, x + \frac{1}{2}, y + \frac{1}{2}]$	[17]
18	$[y + \frac{1}{2}, z + \frac{1}{2}, x + \frac{1}{2}]$	[18]
19	$[\frac{1}{2} - y, z + \frac{1}{2}, \frac{1}{2} - x]$	[19]

continued ...

Table 6

No.	position	mapping
20	$[\frac{1}{2} - z, \frac{1}{2} - x, y + \frac{1}{2}]$	[20]
21	$[\frac{1}{2} - y, \frac{1}{2} - z, x + \frac{1}{2}]$	[21]
22	$[z + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2} - y]$	[22]
23	$[y + \frac{1}{2}, \frac{1}{2} - z, \frac{1}{2} - x]$	[23]
24	$[\frac{1}{2} - z, x + \frac{1}{2}, \frac{1}{2} - y]$	[24]