

Table 1: Wyckoff site: 4a, site symmetry: $2.221'$

No.	position	mapping
1	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	[1, 6, 7, 8, 17, 22, 23, 24]
2	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	[2, 3, 4, 5, 18, 19, 20, 21]
3	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	[9, 14, 15, 16, 25, 30, 31, 32]
4	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	[10, 11, 12, 13, 26, 27, 28, 29]

Table 2: Wyckoff site: 4b, site symmetry: $-4..1'$

No.	position	mapping
1	$[\frac{3}{4}, \frac{1}{4}, 0]$	[1, 6, 10, 11, 17, 22, 26, 27]
2	$[\frac{1}{4}, \frac{3}{4}, 0]$	[2, 3, 9, 14, 18, 19, 25, 30]
3	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	[4, 5, 15, 16, 20, 21, 31, 32]
4	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	[7, 8, 12, 13, 23, 24, 28, 29]

Table 3: Wyckoff site: 4c, site symmetry: $4..1'$

No.	position	mapping
1	$[\frac{1}{4}, \frac{1}{4}, z]$	[1, 2, 3, 6, 17, 18, 19, 22]
2	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[4, 5, 7, 8, 20, 21, 23, 24]
3	$[\frac{3}{4}, \frac{3}{4}, -z]$	[9, 10, 11, 14, 25, 26, 27, 30]
4	$[\frac{1}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[12, 13, 15, 16, 28, 29, 31, 32]

Table 4: Wyckoff site: 8d, site symmetry: $-11'$

No.	position	mapping
1	[0, 0, 0]	[1, 9, 17, 25]
2	$[\frac{1}{2}, 0, 0]$	[2, 10, 18, 26]
3	$[0, \frac{1}{2}, 0]$	[3, 11, 19, 27]
4	$[\frac{1}{2}, 0, \frac{1}{2}]$	[4, 12, 20, 28]
5	$[0, \frac{1}{2}, \frac{1}{2}]$	[5, 13, 21, 29]
6	$[\frac{1}{2}, \frac{1}{2}, 0]$	[6, 14, 22, 30]
7	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	[7, 15, 23, 31]
8	$[0, 0, \frac{1}{2}]$	[8, 16, 24, 32]

Table 5: Wyckoff site: $8e$, site symmetry: $2..1'$

No.	position	mapping
1	$[\frac{3}{4}, \frac{1}{4}, z]$	[1, 6, 17, 22]
2	$[\frac{1}{4}, \frac{3}{4}, z]$	[2, 3, 18, 19]
3	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[4, 5, 20, 21]
4	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2} - z]$	[7, 8, 23, 24]
5	$[\frac{1}{4}, \frac{3}{4}, -z]$	[9, 14, 25, 30]
6	$[\frac{3}{4}, \frac{1}{4}, -z]$	[10, 11, 26, 27]
7	$[\frac{3}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[12, 13, 28, 29]
8	$[\frac{1}{4}, \frac{3}{4}, z + \frac{1}{2}]$	[15, 16, 31, 32]

Table 6: Wyckoff site: $8f$, site symmetry: $..21'$

No.	position	mapping
1	$[x, -x, \frac{1}{4}]$	[1, 8, 17, 24]
2	$[x + \frac{1}{2}, x, \frac{1}{4}]$	[2, 4, 18, 20]
3	$[-x, \frac{1}{2} - x, \frac{1}{4}]$	[3, 5, 19, 21]
4	$[\frac{1}{2} - x, x + \frac{1}{2}, \frac{1}{4}]$	[6, 7, 22, 23]
5	$[-x, x, \frac{3}{4}]$	[9, 16, 25, 32]
6	$[\frac{1}{2} - x, -x, \frac{3}{4}]$	[10, 12, 26, 28]
7	$[x, x + \frac{1}{2}, \frac{3}{4}]$	[11, 13, 27, 29]
8	$[x + \frac{1}{2}, \frac{1}{2} - x, \frac{3}{4}]$	[14, 15, 30, 31]

Table 7: Wyckoff site: $16g$, site symmetry: $11'$

No.	position	mapping
1	$[x, y, z]$	[1, 17]
2	$[\frac{1}{2} - y, x, z]$	[2, 18]
3	$[y, \frac{1}{2} - x, z]$	[3, 19]
4	$[x + \frac{1}{2}, -y, \frac{1}{2} - z]$	[4, 20]
5	$[-x, y + \frac{1}{2}, \frac{1}{2} - z]$	[5, 21]
6	$[\frac{1}{2} - x, \frac{1}{2} - y, z]$	[6, 22]
7	$[y + \frac{1}{2}, x + \frac{1}{2}, \frac{1}{2} - z]$	[7, 23]
8	$[-y, -x, \frac{1}{2} - z]$	[8, 24]
9	$[-x, -y, -z]$	[9, 25]
10	$[y + \frac{1}{2}, -x, -z]$	[10, 26]
11	$[-y, x + \frac{1}{2}, -z]$	[11, 27]
12	$[\frac{1}{2} - x, y, z + \frac{1}{2}]$	[12, 28]
13	$[x, \frac{1}{2} - y, z + \frac{1}{2}]$	[13, 29]
14	$[x + \frac{1}{2}, y + \frac{1}{2}, -z]$	[14, 30]
15	$[\frac{1}{2} - y, \frac{1}{2} - x, z + \frac{1}{2}]$	[15, 31]
16	$[y, x, z + \frac{1}{2}]$	[16, 32]