

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

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

Table 2: Wyckoff site: 4b, site symmetry: $2.221'$

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

Table 3: Wyckoff site: 8c, site symmetry: $2..1'$

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

Table 4: Wyckoff site: 8d, site symmetry: $..21'$

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

Table 5: Wyckoff site: $8e$, site symmetry: $\dots 21'$

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

Table 6: Wyckoff site: $8f$, site symmetry: $\dots 2.1'$

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

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

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