MSG No. 57.391 P_Cbcm [Type IV, orthorhombic]

Table 1: Wyckoff site: `4a`, site symmetry: `2/m'..`

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

Table 2: Wyckoff site: `4b`, site symmetry: `2/m'..`

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

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

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

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

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

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

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

Table 6: Wyckoff site: `8f`, site symmetry: `m'..`

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

Table 7: Wyckoff site: `8g`, site symmetry: `..m`

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

Table 8: Wyckoff site: `16h`, site symmetry: `1`

No.	position	mapping
1	$\left[x, y, z\right]$	[1]
2	$\left[x, \frac{1}{2} - y, -z\right]$	[2]
3	$\left[-x, y + \frac{1}{2}, \frac{1}{2} - z\right]$	[3]

Table 8

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