MSG No. 104.210 P_I4nc [Type IV, tetragonal]

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

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

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

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

Table 3: Wyckoff site: 8c, site symmetry: ..m'

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

Table 4: Wyckoff site: 8d, site symmetry: .m'.

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

Table 5: Wyckoff site: 16e, site symmetry: 1

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