MSG No. 42.219 $Fmm2$ [Type I, orthorhombic]

Table 1: Wyckoff site: 4a, site symmetry: mm2

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

Table 2: Wyckoff site: 8b, site symmetry: ..2

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

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

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

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

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

Table 4

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

Table 5: Wyckoff site: 16e, 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	$\left[x,\, y + \frac{1}{2},\, z + \frac{1}{2}\right]$	[5]
6	$\left[-x,\, \frac{1}{2} - y,\, z + \frac{1}{2}\right]$	[6]
7	$\left[-x,\, y + \frac{1}{2},\, z + \frac{1}{2}\right]$	[7]
8	$\left[x,\, \frac{1}{2} - y,\, z + \frac{1}{2}\right]$	[8]
9	$\left[x + \frac{1}{2},\, y,\, z + \frac{1}{2}\right]$	[9]
10	$\left[\frac{1}{2} - x,\, -y,\, z + \frac{1}{2}\right]$	[10]
11	$\left[\frac{1}{2} - x,\, y,\, z + \frac{1}{2}\right]$	[11]
12	$\left[x + \frac{1}{2},\, -y,\, z + \frac{1}{2}\right]$	[12]
13	$\left[x + \frac{1}{2},\, y + \frac{1}{2},\, z\right]$	[13]
14	$\left[\frac{1}{2} - x,\, \frac{1}{2} - y,\, z\right]$	[14]
15	$\left[\frac{1}{2} - x,\, y + \frac{1}{2},\, z\right]$	[15]
16	$\left[x + \frac{1}{2},\, \frac{1}{2} - y,\, z\right]$	[16]