MSG No. 107.228 $I4mm1'$ [Type II, tetragonal]

Table 1: Wyckoff site: 2a, site symmetry: 4mm1'

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

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

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

Table 3: Wyckoff site: 8c, site symmetry: ..m1'

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

Table 4: Wyckoff site: 8d, site symmetry: .m.1'

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

Table 5: Wyckoff site: 16e, site symmetry: 11'

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