MSG No. 109.239 $I4_1md$ [Type I, tetragonal]

Table 1: Wyckoff site: `4a`, site symmetry: `2mm`.

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

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

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

Table 3: Wyckoff site: `16c`, site symmetry: `1`

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