MSG No. 109.243 $I4_1m'd'$ [Type III, tetragonal]

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

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]`