MSG No. 24.55 $I2_1'2_1'2_1$ [Type III, orthorhombic]

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

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

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

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

Table 3: Wyckoff site: 4c, site symmetry: ..2

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

Table 4: Wyckoff site: 8d, site symmetry: 1

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