MSG No. 24.53 $I2_12_12_1$ [Type I, orthorhombic]

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

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

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

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

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

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

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

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