MSG No. 53.328 $Pm'na'$ [Type III, orthorhombic]

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

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

Table 2: Wyckoff site: 2b, site symmetry: 2'/m'..

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

Table 3: Wyckoff site: 2c, site symmetry: 2'/m'..

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

Table 4: Wyckoff site: 2d, site symmetry: 2'/m'..

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

Table 5: Wyckoff site: 4e, site symmetry: 2'..

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

Table 6: Wyckoff site: `4f`, site symmetry: `2'..`

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

Table 7: Wyckoff site: `4g`, site symmetry: `.2.`

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

Table 8: Wyckoff site: `4h`, site symmetry: `m'..`

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

Table 9: Wyckoff site: `8i`, site symmetry: `1`

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