MSG No. 53.322 $Pmna1'$ [Type II, orthorhombic]

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

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

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

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

Table 3: Wyckoff site: 2c, site symmetry: 2/m..1'

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

Table 4: Wyckoff site: 2d, site symmetry: 2/m..1'

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

Table 5: Wyckoff site: 4e, site symmetry: 2..1'

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

Table 6: Wyckoff site: `4f`, site symmetry: `2..1'`

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

Table 7: Wyckoff site: `4g`, site symmetry: `.2.1'`

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

Table 8: Wyckoff site: `4h`, site symmetry: `m..1'`

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

Table 9: Wyckoff site: `8i`, site symmetry: `11'`

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