MSG No. 73.549 $Ibca1'$ [Type II, orthorhombic]

Table 1: Wyckoff site: `8a`, site symmetry: `-11'`

No.	position	mapping
1	$[0, 0, 0]$	`[1,5,17,21]`
2	$\left[0, 0, \frac{1}{2}\right]$	`[2,6,18,22]`
3	$\left[\frac{1}{2}, 0, 0\right]$	`[3,7,19,23]`
4	$\left[0, \frac{1}{2}, 0\right]$	`[4,8,20,24]`
5	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	`[9,13,25,29]`
6	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	`[10,14,26,30]`
7	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	`[11,15,27,31]`
8	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	`[12,16,28,32]`

Table 2: Wyckoff site: `8b`, site symmetry: `-11'`

No.	position	mapping
1	$\left[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}\right]$	`[1,13,17,29]`
2	$\left[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}\right]$	`[2,14,18,30]`
3	$\left[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}\right]$	`[3,15,19,31]`
4	$\left[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}\right]$	`[4,16,20,32]`
5	$\left[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}\right]$	`[5,9,21,25]`
6	$\left[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}\right]$	`[6,10,22,26]`
7	$\left[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}\right]$	`[7,11,23,27]`
8	$\left[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}\right]$	`[8,12,24,28]`

Table 3: Wyckoff site: `8c`, site symmetry: `2..1'`

No.	position	mapping
1	$\left[x, 0, \frac{1}{4}\right]$	`[1,2,17,18]`
2	$\left[\frac{1}{2} - x, 0, \frac{3}{4}\right]$	`[3,12,19,28]`
3	$\left[-x, \frac{1}{2}, \frac{1}{4}\right]$	`[4,11,20,27]`
4	$\left[-x, 0, \frac{3}{4}\right]$	`[5,6,21,22]`
5	$\left[x + \frac{1}{2}, 0, \frac{1}{4}\right]$	`[7,16,23,32]`
6	$\left[x, \frac{1}{2}, \frac{3}{4}\right]$	`[8,15,24,31]`
7	$\left[x + \frac{1}{2}, \frac{1}{2}, \frac{3}{4}\right]$	`[9,10,25,26]`
8	$\left[\frac{1}{2} - x, \frac{1}{2}, \frac{1}{4}\right]$	`[13,14,29,30]`

Table 4: Wyckoff site: `8d`, site symmetry: `.2.1'`

No.	position	mapping
1	$\left[\frac{1}{4}, y, 0\right]$	`[1,3,17,19]`
2	$\left[\frac{1}{4}, -y, \frac{1}{2}\right]$	`[2,12,18,28]`
3	$\left[\frac{3}{4}, \frac{1}{2}-y, 0\right]$	`[4,10,20,26]`
4	$\left[\frac{3}{4}, -y, 0\right]$	`[5,7,21,23]`
5	$\left[\frac{3}{4}, y, \frac{1}{2}\right]$	`[6,16,22,32]`
6	$\left[\frac{1}{4}, y+\frac{1}{2}, 0\right]$	`[8,14,24,30]`
7	$\left[\frac{3}{4}, y+\frac{1}{2}, \frac{1}{2}\right]$	`[9,11,25,27]`
8	$\left[\frac{1}{4}, \frac{1}{2}-y, \frac{1}{2}\right]$	`[13,15,29,31]`

Table 5: Wyckoff site: `8e`, site symmetry: `..21'`

No.	position	mapping
1	$\left[0, \frac{1}{4}, z\right]$	`[1,4,17,20]`
2	$\left[0, \frac{3}{4}, \frac{1}{2}-z\right]$	`[2,11,18,27]`
3	$\left[\frac{1}{2}, \frac{1}{4}, -z\right]$	`[3,10,19,26]`
4	$\left[0, \frac{3}{4}, -z\right]$	`[5,8,21,24]`
5	$\left[0, \frac{1}{4}, z+\frac{1}{2}\right]$	`[6,15,22,31]`
6	$\left[\frac{1}{2}, \frac{3}{4}, z\right]$	`[7,14,23,30]`
7	$\left[\frac{1}{2}, \frac{3}{4}, z+\frac{1}{2}\right]$	`[9,12,25,28]`
8	$\left[\frac{1}{2}, \frac{1}{4}, \frac{1}{2}-z\right]$	`[13,16,29,32]`

Table 6: Wyckoff site: `16f`, site symmetry: `11'`

No.	position	mapping
1	$[x, y, z]$	`[1,17]`
2	$\left[x, -y, \frac{1}{2}-z\right]$	`[2,18]`
3	$\left[\frac{1}{2}-x, y, -z\right]$	`[3,19]`
4	$\left[-x, \frac{1}{2}-y, z\right]$	`[4,20]`
5	$[-x, -y, -z]$	`[5,21]`
6	$\left[-x, y, z+\frac{1}{2}\right]$	`[6,22]`
7	$\left[x+\frac{1}{2}, -y, z\right]$	`[7,23]`
8	$\left[x, y+\frac{1}{2}, -z\right]$	`[8,24]`
9	$\left[x+\frac{1}{2}, y+\frac{1}{2}, z+\frac{1}{2}\right]$	`[9,25]`
10	$\left[x+\frac{1}{2}, \frac{1}{2}-y, -z\right]$	`[10,26]`
11	$\left[-x, y+\frac{1}{2}, \frac{1}{2}-z\right]$	`[11,27]`
12	$\left[\frac{1}{2}-x, -y, z+\frac{1}{2}\right]$	`[12,28]`
13	$\left[\frac{1}{2}-x, \frac{1}{2}-y, \frac{1}{2}-z\right]$	`[13,29]`
14	$\left[\frac{1}{2}-x, y+\frac{1}{2}, z\right]$	`[14,30]`
15	$\left[x, \frac{1}{2}-y, z+\frac{1}{2}\right]$	`[15,31]`
16	$\left[x+\frac{1}{2}, y, \frac{1}{2}-z\right]$	`[16,32]`