MSG No. 31.132 $P_B mn2_1$ [Type IV, orthorhombic]

Table 1: Wyckoff site: 2a, site symmetry: mm'2'

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

Table 2: Wyckoff site: 2b, site symmetry: mm'2'

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

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

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

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

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

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

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

Table 6: Wyckoff site: 8f, site symmetry: 1

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