

MSG No. 31.134 $P_{Imn}2_1$ [Type IV, orthorhombic]

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

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

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

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

Table 3: Wyckoff site: 4c, site symmetry: $.\text{m'}$.

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

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

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

Table 5: Wyckoff site: 8e, site symmetry: 1

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

continued ...

Table 5

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