

MSG No. 55.362 P_{Abam} [Type IV, orthorhombic]

Table 1: Wyckoff site: 4a, site symmetry: $\dots 2/m$

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

Table 2: Wyckoff site: 4b, site symmetry: $\dots 2/m$

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

Table 3: Wyckoff site: 8c, site symmetry: $-1'$

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

Table 4: Wyckoff site: 8d, site symmetry: $\dots 2$

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

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

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

Table 6: Wyckoff site: 8f, site symmetry: . .m

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

Table 7: Wyckoff site: 16g, site symmetry: 1

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