

MSG No. 85.63  $P4'/n'$  [ Type III, tetragonal ]

Table 1: Wyckoff site: 2a, site symmetry: -4..

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

Table 2: Wyckoff site: 2b, site symmetry: -4..

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

Table 3: Wyckoff site: 2c, site symmetry: 4'..

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

Table 4: Wyckoff site: 4d, site symmetry: -1'

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

Table 5: Wyckoff site: 4e, site symmetry: -1'

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

Table 6: Wyckoff site: 4f, site symmetry: 2..

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

Table 7: Wyckoff site: 8g, site symmetry: 1

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