

MSG No. 75.4 P_4 [Type IV, tetragonal]

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

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

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

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

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

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

Table 4: Wyckoff site: 8d, site symmetry: 1

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