

MSG No. 110.245 $I4_{1cd}$ [Type I, tetragonal]

Table 1: Wyckoff site: **8a**, site symmetry: 2..

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

Table 2: Wyckoff site: **16b**, site symmetry: 1

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