

MSG No. 154.42 $P3_2211'$ [Type II, trigonal]

Table 1: Wyckoff site: 3a, site symmetry: .2.1'

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

Table 2: Wyckoff site: 3b, site symmetry: .2.1'

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

Table 3: Wyckoff site: 6c, site symmetry: 11'

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