

MSG No. 92.112  $P4_12_121'$  [ Type II, tetragonal ]

Table 1: Wyckoff site: 4a, site symmetry: ..21'

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

Table 2: Wyckoff site: 8b, site symmetry: 11'

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