SG No. 109 $\quad C_{4\mathrm{v}}^{11} \quad I4_1md$ [tetragonal]

* plus set: $+[0, 0, 0], \quad +\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$

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

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

Table 2: Wyckoff site: 8b, site symmetry: .m.

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

Table 3: Wyckoff site: 16c, site symmetry: 1

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