

SG No. 108 C_{4v}^{10} $I4cm$ [tetragonal]

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

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

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

Table 3: Wyckoff site: 8c, site symmetry: . .m

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

Table 4: Wyckoff site: 16d, site symmetry: 1

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