

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

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

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]