

MSG No. 100.172 $P4bm1'$ [Type II, tetragonal]

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

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

Table 2: Wyckoff site: 2b, site symmetry: 2..mm1'

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

Table 3: Wyckoff site: 4c, site symmetry: ..m1'

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

Table 4: Wyckoff site: 8d, site symmetry: 11'

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