MPG No. 15.4.56 $4'/mm'm$ (4'/mm'm setting) [Type III, tetragonal]

Table 1: Wyckoff site: `1o`, site symmetry: `4'/mm'm`

No.	position	mapping
1	[0, 0, 0]	`[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16]`

Table 2: Wyckoff site: `2a`, site symmetry: `4'm'm`

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

Table 3: Wyckoff site: `4b`, site symmetry: `m.m2`

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

Table 4: Wyckoff site: `4c`, site symmetry: `m2'm.`

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

Table 5: Wyckoff site: `8d`, site symmetry: `m..`

No.	position	mapping
1	[x, y, 0]	`[1,6]`
2	[$-x$, $-y$, 0]	`[2,5]`
3	[$-y$, x, 0]	`[11,16]`
4	[y, $-x$, 0]	`[12,15]`
5	[$-x$, y, 0]	`[10,13]`
6	[x, $-y$, 0]	`[9,14]`
7	[y, x, 0]	`[4,7]`

continued ...

Table 5

No.	position	mapping
8	$[-y, -x, 0]$	`[3,8]`

Table 6: Wyckoff site: `8e`, site symmetry: `..m`

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

Table 7: Wyckoff site: `8f`, site symmetry: `.m.`

No.	position	mapping
1	$[x, 0, z]$	`[1,14]`
2	$[-x, 0, z]$	`[2,13]`
3	$[0, x, z]$	`[7,11]`
4	$[0, -x, z]$	`[8,12]`
5	$[-x, 0, -z]$	`[5,10]`
6	$[x, 0, -z]$	`[6,9]`
7	$[0, x, -z]$	`[4,16]`
8	$[0, -x, -z]$	`[3,15]`

Table 8: Wyckoff site: `16g`, site symmetry: `1`

No.	position	mapping
1	$[x, y, z]$	`[1]`
2	$[-x, -y, z]$	`[2]`
3	$[-y, x, z]$	`[11]`
4	$[y, -x, z]$	`[12]`
5	$[-x, y, -z]$	`[10]`
6	$[x, -y, -z]$	`[9]`
7	$[y, x, -z]$	`[4]`
8	$[-y, -x, -z]$	`[3]`
9	$[-x, -y, -z]$	`[5]`
10	$[x, y, -z]$	`[6]`

continued ...

Table 8

No.	position	mapping
11	$[y, -x, -z]$	[15]
12	$[-y, x, -z]$	[16]
13	$[x, -y, z]$	[14]
14	$[-x, y, z]$	[13]
15	$[-y, -x, z]$	[8]
16	$[y, x, z]$	[7]