MSG No. 83.44 $P4/m1'$ [Type II, tetragonal]

Table 1: Wyckoff site: `1a`, site symmetry: `4/m..1'`

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: `1b`, site symmetry: `4/m..1'`

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

Table 3: Wyckoff site: `1c`, site symmetry: `4/m..1'`

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

Table 4: Wyckoff site: `1d`, site symmetry: `4/m..1'`

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

Table 5: Wyckoff site: `2e`, site symmetry: `2/m..1'`

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

Table 6: Wyckoff site: `2f`, site symmetry: `2/m..1'`

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

Table 7: Wyckoff site: 2g, site symmetry: 4..1'

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

Table 8: Wyckoff site: 2h, site symmetry: 4..1'

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

Table 9: Wyckoff site: 4i, site symmetry: 2..1'

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

Table 10: Wyckoff site: 4j, site symmetry: m..1'

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

Table 11: Wyckoff site: 4k, site symmetry: m..1'

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

Table 12: Wyckoff site: `8l`, 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	$[-x,\ -y,\ -z]$	`[5,13]`
6	$[y,\ -x,\ -z]$	`[6,14]`
7	$[-y,\ x,\ -z]$	`[7,15]`
8	$[x,\ y,\ -z]$	`[8,16]`