MSG No. 16.2 $P2221'$ [Type II, orthorhombic]

Table 1: Wyckoff site: `1a`, site symmetry: `2221'`

No.	position	mapping
1	[0, 0, 0]	`[1,2,3,4,5,6,7,8]`

Table 2: Wyckoff site: `1b`, site symmetry: `2221'`

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

Table 3: Wyckoff site: `1c`, site symmetry: `2221'`

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

Table 4: Wyckoff site: `1d`, site symmetry: `2221'`

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

Table 5: Wyckoff site: `1e`, site symmetry: `2221'`

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

Table 6: Wyckoff site: `1f`, site symmetry: `2221'`

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

Table 7: Wyckoff site: 1g, site symmetry: 2221'

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

Table 8: Wyckoff site: 1h, site symmetry: 2221'

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

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

No.	position	mapping
1	$[x,\ 0,\ 0]$	[1,2,5,6]
2	$[-x,\ 0,\ 0]$	[3,4,7,8]

Table 10: Wyckoff site: 2j, site symmetry: 2..1'

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

Table 11: Wyckoff site: 2k, site symmetry: 2..1'

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

Table 12: Wyckoff site: 2l, site symmetry: 2..1'

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

Table 13: Wyckoff site: 2m, site symmetry: .2.1'

No.	position	mapping
1	$[0,\ y,\ 0]$	[1,3,5,7]
2	$[0,\ -y,\ 0]$	[2,4,6,8]

Table 14: Wyckoff site: 2n, site symmetry: .2.1'

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

Table 15: Wyckoff site: 2o, site symmetry: .2.1'

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

Table 16: Wyckoff site: 2p, site symmetry: .2.1'

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

Table 17: Wyckoff site: 2q, site symmetry: ..21'

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

Table 18: Wyckoff site: 2r, site symmetry: ..21'

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

Table 19: Wyckoff site: `2s`, site symmetry: `..21'`

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

Table 20: Wyckoff site: `2t`, site symmetry: `..21'`

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

Table 21: Wyckoff site: `4u`, site symmetry: `11'`

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