

MPG No. 14.5.52 $\bar{4}2'm'$ (- $42'm'$ setting) [Type III, tetragonal]

Table 1: Wyckoff site: **1o**, site symmetry: $-42'm'$

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

Table 2: Wyckoff site: **2a**, site symmetry: $2.m'm'$

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

Table 3: Wyckoff site: **4b**, site symmetry: $.2'.$

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

Table 4: Wyckoff site: **4c**, site symmetry: $..m$

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

Table 5: Wyckoff site: **8d**, 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]	[6]
6	[x, -y, -z]	[5]
7	[-y, -x, z]	[8]

continued ...

Table 5

No.	position	mapping
8	[y, x, z]	[7]