# MSG No. 173.130 $P6_31'$ [ Type II, hexagonal ]

Table 1: Wyckoff site: 2a, site symmetry: 3..1'

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

Table 2: Wyckoff site: 2b, site symmetry: 3..1'

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

Table 3: Wyckoff site: 6c, site symmetry: 11'

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