# SG No. 168   $C_6^1$   $P6$   [ hexagonal ]

Table 1: Wyckoff site: 1a, site symmetry: 6..

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

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

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

Table 3: Wyckoff site: 3c, site symmetry: 2..

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

Table 4: Wyckoff site: 6d, site symmetry: 1

| No. | position | mapping |
|-----|----------|---------|
| 1 | $[x, y, z]$ | [1] |
| 2 | $[-y, x - y, z]$ | [2] |
| 3 | $[-x + y, -x, z]$ | [3] |
| 4 | $[-x, -y, z]$ | [4] |
| 5 | $[y, -x + y, z]$ | [5] |
| 6 | $[x - y, x, z]$ | [6] |