

MSG No. 192.252  $P_6/mcc$  [ Type IV, hexagonal ]

Table 1: Wyckoff site: 2a, site symmetry:  $6/\overline{mm}'m'$

| No. | position              | mapping   |
|-----|-----------------------|---|
| 1   | $[0, 0, 0]$           | $[1, 2, 3, 4, 5, 6, 13, 14, 15, 16, 17, 18, 31, 32, 33, 34, 35, 36, 43, 44, 45, 46, 47, 48]$    |
| 2   | $[0, 0, \frac{1}{2}]$ | $[7, 8, 9, 10, 11, 12, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 37, 38, 39, 40, 41, 42]$ |

Table 2: Wyckoff site: 2b, site symmetry:  $6/m'm'm'$

| No. | position              | mapping  |
|-----|-----------------------|--|
| 1   | $[0, 0, \frac{1}{4}]$ | $[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48]$          |
| 2   | $[0, 0, \frac{3}{4}]$ | $[13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36]$ |

Table 3: Wyckoff site: 4c, site symmetry:  $\overline{6}m'2'$

| No. | position                                  | mapping  |
|-----|---|--|
| 1   | $[\frac{1}{3}, \frac{2}{3}, 0]$           | $[1, 3, 5, 14, 16, 18, 34, 35, 36, 43, 44, 45]$    |
| 2   | $[\frac{2}{3}, \frac{1}{3}, 0]$           | $[2, 4, 6, 13, 15, 17, 31, 32, 33, 46, 47, 48]$    |
| 3   | $[\frac{2}{3}, \frac{1}{3}, \frac{1}{2}]$ | $[7, 8, 9, 22, 23, 24, 26, 28, 30, 37, 39, 41]$    |
| 4   | $[\frac{1}{3}, \frac{2}{3}, \frac{1}{2}]$ | $[10, 11, 12, 19, 20, 21, 25, 27, 29, 38, 40, 42]$ |

Table 4: Wyckoff site: 4d, site symmetry:  $\overline{6}'m'2$

| No. | position                                  | mapping  |
|-----|---|--|
| 1   | $[\frac{1}{3}, \frac{2}{3}, \frac{1}{4}]$ | $[1, 3, 5, 10, 11, 12, 38, 40, 42, 43, 44, 45]$    |
| 2   | $[\frac{2}{3}, \frac{1}{3}, \frac{1}{4}]$ | $[2, 4, 6, 7, 8, 9, 37, 39, 41, 46, 47, 48]$       |
| 3   | $[\frac{2}{3}, \frac{1}{3}, \frac{3}{4}]$ | $[13, 15, 17, 22, 23, 24, 26, 28, 30, 31, 32, 33]$ |
| 4   | $[\frac{1}{3}, \frac{2}{3}, \frac{3}{4}]$ | $[14, 16, 18, 19, 20, 21, 25, 27, 29, 34, 35, 36]$ |

Table 5: Wyckoff site: 4e, site symmetry:  $6m'm'$

| No. | position                  | mapping  |
|-----|---------------------------|--|
| 1   | $[0, 0, z]$               | $[1, 2, 3, 4, 5, 6, 43, 44, 45, 46, 47, 48]$       |
| 2   | $[0, 0, \frac{1}{2} - z]$ | $[7, 8, 9, 10, 11, 12, 37, 38, 39, 40, 41, 42]$    |
| 3   | $[0, 0, -z]$              | $[13, 14, 15, 16, 17, 18, 31, 32, 33, 34, 35, 36]$ |
| 4   | $[0, 0, z + \frac{1}{2}]$ | $[19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30]$ |

Table 6: Wyckoff site:  $6f$ , site symmetry:  $mm'm'$ 

| No. | position                                  | mapping                           |
|-----|---|-----------------------------------|
| 1   | $[\frac{1}{2}, 0, 0]$                     | $[1, 4, 13, 16, 31, 35, 43, 47]$  |
| 2   | $[\frac{1}{2}, \frac{1}{2}, 0]$           | $[2, 5, 14, 17, 33, 34, 45, 46]$  |
| 3   | $[0, \frac{1}{2}, 0]$                     | $[3, 6, 15, 18, 32, 36, 44, 48]$  |
| 4   | $[\frac{1}{2}, 0, \frac{1}{2}]$           | $[7, 11, 19, 23, 25, 28, 37, 40]$ |
| 5   | $[0, \frac{1}{2}, \frac{1}{2}]$           | $[8, 12, 20, 24, 27, 30, 39, 42]$ |
| 6   | $[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$ | $[9, 10, 21, 22, 26, 29, 38, 41]$ |

Table 7: Wyckoff site:  $6g$ , site symmetry:  $m'm'm'$ 

| No. | position                                  | mapping                            |
|-----|---|------------------------------------|
| 1   | $[\frac{1}{2}, 0, \frac{1}{4}]$           | $[1, 4, 7, 11, 37, 40, 43, 47]$    |
| 2   | $[\frac{1}{2}, \frac{1}{2}, \frac{1}{4}]$ | $[2, 5, 9, 10, 38, 41, 45, 46]$    |
| 3   | $[0, \frac{1}{2}, \frac{1}{4}]$           | $[3, 6, 8, 12, 39, 42, 44, 48]$    |
| 4   | $[\frac{1}{2}, 0, \frac{3}{4}]$           | $[13, 16, 19, 23, 25, 28, 31, 35]$ |
| 5   | $[\frac{1}{2}, \frac{1}{2}, \frac{3}{4}]$ | $[14, 17, 21, 22, 26, 29, 33, 34]$ |
| 6   | $[0, \frac{1}{2}, \frac{3}{4}]$           | $[15, 18, 20, 24, 27, 30, 32, 36]$ |

Table 8: Wyckoff site:  $8h$ , site symmetry:  $3m'$ 

| No. | position                                      | mapping                    |
|-----|---|----------------------------|
| 1   | $[\frac{1}{3}, \frac{2}{3}, z]$               | $[1, 3, 5, 43, 44, 45]$    |
| 2   | $[\frac{2}{3}, \frac{1}{3}, z]$               | $[2, 4, 6, 46, 47, 48]$    |
| 3   | $[\frac{2}{3}, \frac{1}{3}, \frac{1}{2} - z]$ | $[7, 8, 9, 37, 39, 41]$    |
| 4   | $[\frac{1}{3}, \frac{2}{3}, \frac{1}{2} - z]$ | $[10, 11, 12, 38, 40, 42]$ |
| 5   | $[\frac{2}{3}, \frac{1}{3}, -z]$              | $[13, 15, 17, 31, 32, 33]$ |
| 6   | $[\frac{1}{3}, \frac{2}{3}, -z]$              | $[14, 16, 18, 34, 35, 36]$ |
| 7   | $[\frac{1}{3}, \frac{2}{3}, z + \frac{1}{2}]$ | $[19, 20, 21, 25, 27, 29]$ |
| 8   | $[\frac{2}{3}, \frac{1}{3}, z + \frac{1}{2}]$ | $[22, 23, 24, 26, 28, 30]$ |

Table 9: Wyckoff site:  $12i$ , site symmetry:  $2m'm'$ 

| No. | position                                      | mapping            |
|-----|---|--------------------|
| 1   | $[\frac{1}{2}, 0, z]$                         | $[1, 4, 43, 47]$   |
| 2   | $[\frac{1}{2}, \frac{1}{2}, z]$               | $[2, 5, 45, 46]$   |
| 3   | $[0, \frac{1}{2}, z]$                         | $[3, 6, 44, 48]$   |
| 4   | $[\frac{1}{2}, 0, \frac{1}{2} - z]$           | $[7, 11, 37, 40]$  |
| 5   | $[0, \frac{1}{2}, \frac{1}{2} - z]$           | $[8, 12, 39, 42]$  |
| 6   | $[\frac{1}{2}, \frac{1}{2}, \frac{1}{2} - z]$ | $[9, 10, 38, 41]$  |
| 7   | $[\frac{1}{2}, 0, -z]$                        | $[13, 16, 31, 35]$ |

*continued ...*

Table 9

| No. | position                                      | mapping          |
|-----|---|------------------|
| 8   | $[\frac{1}{2}, \frac{1}{2}, -z]$              | [14, 17, 33, 34] |
| 9   | $[0, \frac{1}{2}, -z]$                        | [15, 18, 32, 36] |
| 10  | $[\frac{1}{2}, 0, z + \frac{1}{2}]$           | [19, 23, 25, 28] |
| 11  | $[0, \frac{1}{2}, z + \frac{1}{2}]$           | [20, 24, 27, 30] |
| 12  | $[\frac{1}{2}, \frac{1}{2}, z + \frac{1}{2}]$ | [21, 22, 26, 29] |

Table 10: Wyckoff site: 12j, site symmetry:  $m2'm'$ 

| No. | position                | mapping          |
|-----|-------------------------|------------------|
| 1   | $[x, 0, 0]$             | [1, 16, 31, 47]  |
| 2   | $[x, x, 0]$             | [2, 17, 34, 45]  |
| 3   | $[0, x, 0]$             | [3, 18, 32, 48]  |
| 4   | $[-x, 0, 0]$            | [4, 13, 35, 43]  |
| 5   | $[-x, -x, 0]$           | [5, 14, 33, 46]  |
| 6   | $[0, -x, 0]$            | [6, 15, 36, 44]  |
| 7   | $[x, 0, \frac{1}{2}]$   | [7, 23, 25, 40]  |
| 8   | $[0, x, \frac{1}{2}]$   | [8, 24, 27, 42]  |
| 9   | $[-x, -x, \frac{1}{2}]$ | [9, 22, 29, 38]  |
| 10  | $[x, x, \frac{1}{2}]$   | [10, 21, 26, 41] |
| 11  | $[-x, 0, \frac{1}{2}]$  | [11, 19, 28, 37] |
| 12  | $[0, -x, \frac{1}{2}]$  | [12, 20, 30, 39] |

Table 11: Wyckoff site: 12k, site symmetry:  $m'2m'$ 

| No. | position                | mapping          |
|-----|-------------------------|------------------|
| 1   | $[x, 0, \frac{1}{4}]$   | [1, 7, 40, 47]   |
| 2   | $[x, x, \frac{1}{4}]$   | [2, 10, 41, 45]  |
| 3   | $[0, x, \frac{1}{4}]$   | [3, 8, 42, 48]   |
| 4   | $[-x, 0, \frac{1}{4}]$  | [4, 11, 37, 43]  |
| 5   | $[-x, -x, \frac{1}{4}]$ | [5, 9, 38, 46]   |
| 6   | $[0, -x, \frac{1}{4}]$  | [6, 12, 39, 44]  |
| 7   | $[-x, 0, \frac{3}{4}]$  | [13, 19, 28, 35] |
| 8   | $[-x, -x, \frac{3}{4}]$ | [14, 22, 29, 33] |
| 9   | $[0, -x, \frac{3}{4}]$  | [15, 20, 30, 36] |
| 10  | $[x, 0, \frac{3}{4}]$   | [16, 23, 25, 31] |
| 11  | $[x, x, \frac{3}{4}]$   | [17, 21, 26, 34] |
| 12  | $[0, x, \frac{3}{4}]$   | [18, 24, 27, 32] |

Table 12: Wyckoff site:  $121$ , site symmetry:  $mm'2'$ 

| No. | position                 | mapping            |
|-----|--------------------------|--------------------|
| 1   | $[x, 2x, 0]$             | $[1, 16, 35, 43]$  |
| 2   | $[-x, x, 0]$             | $[2, 17, 33, 46]$  |
| 3   | $[-2x, -x, 0]$           | $[3, 18, 36, 44]$  |
| 4   | $[-x, -2x, 0]$           | $[4, 13, 31, 47]$  |
| 5   | $[x, -x, 0]$             | $[5, 14, 34, 45]$  |
| 6   | $[2x, x, 0]$             | $[6, 15, 32, 48]$  |
| 7   | $[-x, -2x, \frac{1}{2}]$ | $[7, 23, 28, 37]$  |
| 8   | $[2x, x, \frac{1}{2}]$   | $[8, 24, 30, 39]$  |
| 9   | $[-x, x, \frac{1}{2}]$   | $[9, 22, 26, 41]$  |
| 10  | $[x, -x, \frac{1}{2}]$   | $[10, 21, 29, 38]$ |
| 11  | $[x, 2x, \frac{1}{2}]$   | $[11, 19, 25, 40]$ |
| 12  | $[-2x, -x, \frac{1}{2}]$ | $[12, 20, 27, 42]$ |

Table 13: Wyckoff site:  $12m$ , site symmetry:  $m'm'2$ 

| No. | position                 | mapping            |
|-----|--------------------------|--------------------|
| 1   | $[x, 2x, \frac{1}{4}]$   | $[1, 11, 40, 43]$  |
| 2   | $[-x, x, \frac{1}{4}]$   | $[2, 9, 41, 46]$   |
| 3   | $[-2x, -x, \frac{1}{4}]$ | $[3, 12, 42, 44]$  |
| 4   | $[-x, -2x, \frac{1}{4}]$ | $[4, 7, 37, 47]$   |
| 5   | $[x, -x, \frac{1}{4}]$   | $[5, 10, 38, 45]$  |
| 6   | $[2x, x, \frac{1}{4}]$   | $[6, 8, 39, 48]$   |
| 7   | $[-x, -2x, \frac{3}{4}]$ | $[13, 23, 28, 31]$ |
| 8   | $[x, -x, \frac{3}{4}]$   | $[14, 21, 29, 34]$ |
| 9   | $[2x, x, \frac{3}{4}]$   | $[15, 24, 30, 32]$ |
| 10  | $[x, 2x, \frac{3}{4}]$   | $[16, 19, 25, 35]$ |
| 11  | $[-x, x, \frac{3}{4}]$   | $[17, 22, 26, 33]$ |
| 12  | $[-2x, -x, \frac{3}{4}]$ | $[18, 20, 27, 36]$ |

Table 14: Wyckoff site:  $24n$ , site symmetry:  $..m'$ 

| No. | position                    | mapping   |
|-----|-----------------------------|-----------|
| 1   | $[x, 0, z]$                 | $[1, 47]$ |
| 2   | $[x, x, z]$                 | $[2, 45]$ |
| 3   | $[0, x, z]$                 | $[3, 48]$ |
| 4   | $[-x, 0, z]$                | $[4, 43]$ |
| 5   | $[-x, -x, z]$               | $[5, 46]$ |
| 6   | $[0, -x, z]$                | $[6, 44]$ |
| 7   | $[x, 0, \frac{1}{2} - z]$   | $[7, 40]$ |
| 8   | $[0, x, \frac{1}{2} - z]$   | $[8, 42]$ |
| 9   | $[-x, -x, \frac{1}{2} - z]$ | $[9, 38]$ |

*continued ...*

Table 14

| No. | position                    | mapping |
|-----|-----------------------------|---------|
| 10  | $[x, x, \frac{1}{2} - z]$   | [10,41] |
| 11  | $[-x, 0, \frac{1}{2} - z]$  | [11,37] |
| 12  | $[0, -x, \frac{1}{2} - z]$  | [12,39] |
| 13  | $[-x, 0, -z]$               | [13,35] |
| 14  | $[-x, -x, -z]$              | [14,33] |
| 15  | $[0, -x, -z]$               | [15,36] |
| 16  | $[x, 0, -z]$                | [16,31] |
| 17  | $[x, x, -z]$                | [17,34] |
| 18  | $[0, x, -z]$                | [18,32] |
| 19  | $[-x, 0, z + \frac{1}{2}]$  | [19,28] |
| 20  | $[0, -x, z + \frac{1}{2}]$  | [20,30] |
| 21  | $[x, x, z + \frac{1}{2}]$   | [21,26] |
| 22  | $[-x, -x, z + \frac{1}{2}]$ | [22,29] |
| 23  | $[x, 0, z + \frac{1}{2}]$   | [23,25] |
| 24  | $[0, x, z + \frac{1}{2}]$   | [24,27] |

Table 15: Wyckoff site: **24o**, site symmetry:  $.m'$ .

| No. | position                     | mapping |
|-----|------------------------------|---------|
| 1   | $[x, 2x, z]$                 | [1,43]  |
| 2   | $[-x, x, z]$                 | [2,46]  |
| 3   | $[-2x, -x, z]$               | [3,44]  |
| 4   | $[-x, -2x, z]$               | [4,47]  |
| 5   | $[x, -x, z]$                 | [5,45]  |
| 6   | $[2x, x, z]$                 | [6,48]  |
| 7   | $[-x, -2x, \frac{1}{2} - z]$ | [7,37]  |
| 8   | $[2x, x, \frac{1}{2} - z]$   | [8,39]  |
| 9   | $[-x, x, \frac{1}{2} - z]$   | [9,41]  |
| 10  | $[x, -x, \frac{1}{2} - z]$   | [10,38] |
| 11  | $[x, 2x, \frac{1}{2} - z]$   | [11,40] |
| 12  | $[-2x, -x, \frac{1}{2} - z]$ | [12,42] |
| 13  | $[-x, -2x, -z]$              | [13,31] |
| 14  | $[x, -x, -z]$                | [14,34] |
| 15  | $[2x, x, -z]$                | [15,32] |
| 16  | $[x, 2x, -z]$                | [16,35] |
| 17  | $[-x, x, -z]$                | [17,33] |
| 18  | $[-2x, -x, -z]$              | [18,36] |
| 19  | $[x, 2x, z + \frac{1}{2}]$   | [19,25] |
| 20  | $[-2x, -x, z + \frac{1}{2}]$ | [20,27] |
| 21  | $[x, -x, z + \frac{1}{2}]$   | [21,29] |
| 22  | $[-x, x, z + \frac{1}{2}]$   | [22,26] |
| 23  | $[-x, -2x, z + \frac{1}{2}]$ | [23,28] |
| 24  | $[2x, x, z + \frac{1}{2}]$   | [24,30] |

Table 16: Wyckoff site: 24p, site symmetry:  $m..$ 

| No. | position                    | mapping    |
|-----|-----------------------------|------------|
| 1   | $[x, y, 0]$                 | $[1, 16]$  |
| 2   | $[x - y, x, 0]$             | $[2, 17]$  |
| 3   | $[-y, x - y, 0]$            | $[3, 18]$  |
| 4   | $[-x, -y, 0]$               | $[4, 13]$  |
| 5   | $[-x + y, -x, 0]$           | $[5, 14]$  |
| 6   | $[y, -x + y, 0]$            | $[6, 15]$  |
| 7   | $[x - y, -y, \frac{1}{2}]$  | $[7, 23]$  |
| 8   | $[y, x, \frac{1}{2}]$       | $[8, 24]$  |
| 9   | $[-x, -x + y, \frac{1}{2}]$ | $[9, 22]$  |
| 10  | $[x, x - y, \frac{1}{2}]$   | $[10, 21]$ |
| 11  | $[-x + y, y, \frac{1}{2}]$  | $[11, 19]$ |
| 12  | $[-y, -x, \frac{1}{2}]$     | $[12, 20]$ |
| 13  | $[x, y, \frac{1}{2}]$       | $[25, 40]$ |
| 14  | $[x - y, x, \frac{1}{2}]$   | $[26, 41]$ |
| 15  | $[-y, x - y, \frac{1}{2}]$  | $[27, 42]$ |
| 16  | $[-x, -y, \frac{1}{2}]$     | $[28, 37]$ |
| 17  | $[-x + y, -x, \frac{1}{2}]$ | $[29, 38]$ |
| 18  | $[y, -x + y, \frac{1}{2}]$  | $[30, 39]$ |
| 19  | $[x - y, -y, 0]$            | $[31, 47]$ |
| 20  | $[y, x, 0]$                 | $[32, 48]$ |
| 21  | $[-x, -x + y, 0]$           | $[33, 46]$ |
| 22  | $[x, x - y, 0]$             | $[34, 45]$ |
| 23  | $[-x + y, y, 0]$            | $[35, 43]$ |
| 24  | $[-y, -x, 0]$               | $[36, 44]$ |

Table 17: Wyckoff site: 24q, site symmetry:  $m'..$ 

| No. | position                    | mapping    |
|-----|-----------------------------|------------|
| 1   | $[x, y, \frac{1}{4}]$       | $[1, 40]$  |
| 2   | $[x - y, x, \frac{1}{4}]$   | $[2, 41]$  |
| 3   | $[-y, x - y, \frac{1}{4}]$  | $[3, 42]$  |
| 4   | $[-x, -y, \frac{1}{4}]$     | $[4, 37]$  |
| 5   | $[-x + y, -x, \frac{1}{4}]$ | $[5, 38]$  |
| 6   | $[y, -x + y, \frac{1}{4}]$  | $[6, 39]$  |
| 7   | $[x - y, -y, \frac{1}{4}]$  | $[7, 47]$  |
| 8   | $[y, x, \frac{1}{4}]$       | $[8, 48]$  |
| 9   | $[-x, -x + y, \frac{1}{4}]$ | $[9, 46]$  |
| 10  | $[x, x - y, \frac{1}{4}]$   | $[10, 45]$ |
| 11  | $[-x + y, y, \frac{1}{4}]$  | $[11, 43]$ |
| 12  | $[-y, -x, \frac{1}{4}]$     | $[12, 44]$ |
| 13  | $[-x, -y, \frac{3}{4}]$     | $[13, 28]$ |
| 14  | $[-x + y, -x, \frac{3}{4}]$ | $[14, 29]$ |
| 15  | $[y, -x + y, \frac{3}{4}]$  | $[15, 30]$ |

*continued ...*

Table 17

| No. | position                    | mapping |
|-----|-----------------------------|---------|
| 16  | $[x, y, \frac{3}{4}]$       | [16,25] |
| 17  | $[x - y, x, \frac{3}{4}]$   | [17,26] |
| 18  | $[-y, x - y, \frac{3}{4}]$  | [18,27] |
| 19  | $[-x + y, y, \frac{3}{4}]$  | [19,35] |
| 20  | $[-y, -x, \frac{3}{4}]$     | [20,36] |
| 21  | $[x, x - y, \frac{3}{4}]$   | [21,34] |
| 22  | $[-x, -x + y, \frac{3}{4}]$ | [22,33] |
| 23  | $[x - y, -y, \frac{3}{4}]$  | [23,31] |
| 24  | $[y, x, \frac{3}{4}]$       | [24,32] |

Table 18: Wyckoff site: 48r, site symmetry: 1

| No. | position                        | mapping |
|-----|---------------------------------|---------|
| 1   | $[x, y, z]$                     | [1]     |
| 2   | $[x - y, x, z]$                 | [2]     |
| 3   | $[-y, x - y, z]$                | [3]     |
| 4   | $[-x, -y, z]$                   | [4]     |
| 5   | $[-x + y, -x, z]$               | [5]     |
| 6   | $[y, -x + y, z]$                | [6]     |
| 7   | $[x - y, -y, \frac{1}{2} - z]$  | [7]     |
| 8   | $[y, x, \frac{1}{2} - z]$       | [8]     |
| 9   | $[-x, -x + y, \frac{1}{2} - z]$ | [9]     |
| 10  | $[x, x - y, \frac{1}{2} - z]$   | [10]    |
| 11  | $[-x + y, y, \frac{1}{2} - z]$  | [11]    |
| 12  | $[-y, -x, \frac{1}{2} - z]$     | [12]    |
| 13  | $[-x, -y, -z]$                  | [13]    |
| 14  | $[-x + y, -x, -z]$              | [14]    |
| 15  | $[y, -x + y, -z]$               | [15]    |
| 16  | $[x, y, -z]$                    | [16]    |
| 17  | $[x - y, x, -z]$                | [17]    |
| 18  | $[-y, x - y, -z]$               | [18]    |
| 19  | $[-x + y, y, z + \frac{1}{2}]$  | [19]    |
| 20  | $[-y, -x, z + \frac{1}{2}]$     | [20]    |
| 21  | $[x, x - y, z + \frac{1}{2}]$   | [21]    |
| 22  | $[-x, -x + y, z + \frac{1}{2}]$ | [22]    |
| 23  | $[x - y, -y, z + \frac{1}{2}]$  | [23]    |
| 24  | $[y, x, z + \frac{1}{2}]$       | [24]    |
| 25  | $[x, y, z + \frac{1}{2}]$       | [25]    |
| 26  | $[x - y, x, z + \frac{1}{2}]$   | [26]    |
| 27  | $[-y, x - y, z + \frac{1}{2}]$  | [27]    |
| 28  | $[-x, -y, z + \frac{1}{2}]$     | [28]    |
| 29  | $[-x + y, -x, z + \frac{1}{2}]$ | [29]    |
| 30  | $[y, -x + y, z + \frac{1}{2}]$  | [30]    |
| 31  | $[x - y, -y, -z]$               | [31]    |

continued ...

Table 18

| No. | position                        | mapping |
|-----|---------------------------------|---------|
| 32  | $[y, x, -z]$                    | [32]    |
| 33  | $[-x, -x + y, -z]$              | [33]    |
| 34  | $[x, x - y, -z]$                | [34]    |
| 35  | $[-x + y, y, -z]$               | [35]    |
| 36  | $[-y, -x, -z]$                  | [36]    |
| 37  | $[-x, -y, \frac{1}{2} - z]$     | [37]    |
| 38  | $[-x + y, -x, \frac{1}{2} - z]$ | [38]    |
| 39  | $[y, -x + y, \frac{1}{2} - z]$  | [39]    |
| 40  | $[x, y, \frac{1}{2} - z]$       | [40]    |
| 41  | $[x - y, x, \frac{1}{2} - z]$   | [41]    |
| 42  | $[-y, x - y, \frac{1}{2} - z]$  | [42]    |
| 43  | $[-x + y, y, z]$                | [43]    |
| 44  | $[-y, -x, z]$                   | [44]    |
| 45  | $[x, x - y, z]$                 | [45]    |
| 46  | $[-x, -x + y, z]$               | [46]    |
| 47  | $[x - y, -y, z]$                | [47]    |
| 48  | $[y, x, z]$                     | [48]    |