

Square

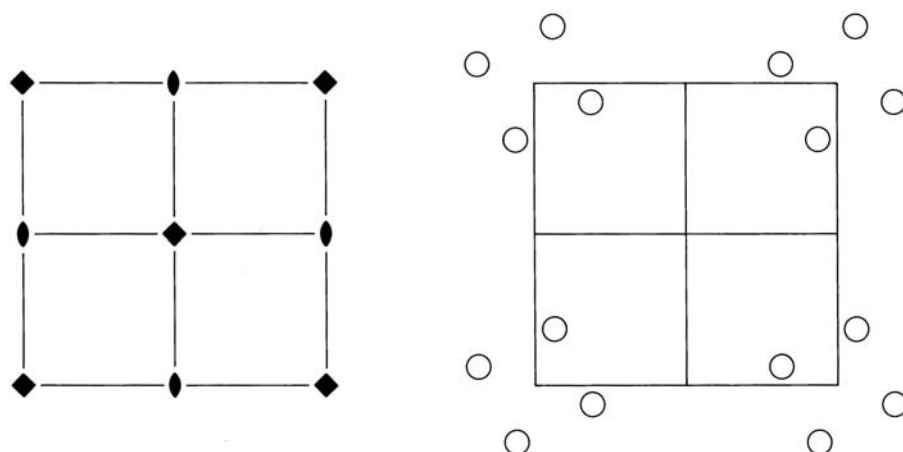
4

*p*4

Patterson symmetry *p*4

*p*4

No. 10



Origin at 4

Asymmetric unit $0 \leq x \leq \frac{1}{2}; 0 \leq y \leq \frac{1}{2}$

Symmetry operations

(1) 1 (2) 2 0,0 (3) 4⁺ 0,0 (4) 4⁻ 0,0

Generators selected (1); *t*(1,0); *t*(0,1); (2); (3)

Positions

Multiplicity,
Wyckoff letter,
Site symmetry

Coordinates

Reflection conditions

4 *d* 1 (1) *x*,*y* (2) \bar{x} , \bar{y} (3) \bar{y} ,*x* (4) *y*, \bar{x}

General:

no conditions

2 *c* 2.. $\frac{1}{2}$,0 0, $\frac{1}{2}$

Special:

hk: $h + k = 2n$

1 *b* 4.. $\frac{1}{2}$, $\frac{1}{2}$

no extra conditions

1 *a* 4.. 0,0

no extra conditions