

Orthorhombic

222

$D_2^4$

$P 2_1 2_1 2_1$

Patterson symmetry  $P m m m$

$P 2_1 2_1 2_1$

No. 19

**Origin** at midpoint of three non-intersecting pairs of parallel  $2_1$  axes

**Positions**

Multiplicity,  
Wyckoff letter,  
Site symmetry,  
Coordinates

**Patterson peaks (U, V, W (Multiplicity))**

4 a 1 x,y,z; 1/2-x,-y,1/2+z; etc.  
 $0, 0, 0$  (4)  $1/2+2x, 2y, 1/2$  (1)  $2x, 1/2, 1/2+2z$  (1)  $1/2, 1/2+2y, 2z$  (1)

**Vectors between two sets of unique atoms**

Wyckoff letters

Wyckoff letters

a, a  $x1-x2, y1-y2, z1-z2$  (1)  
 $1/2+x1+x2, y1+y2, 1/2+z1-z2$  (1)  
 $x1+x2, 1/2+y1-y2, 1/2+z1+z2$  (1)  
 $1/2+x1-x2, 1/2+y1+y2, z1+z2$  (1)