

$\mu 2/m 1 1$

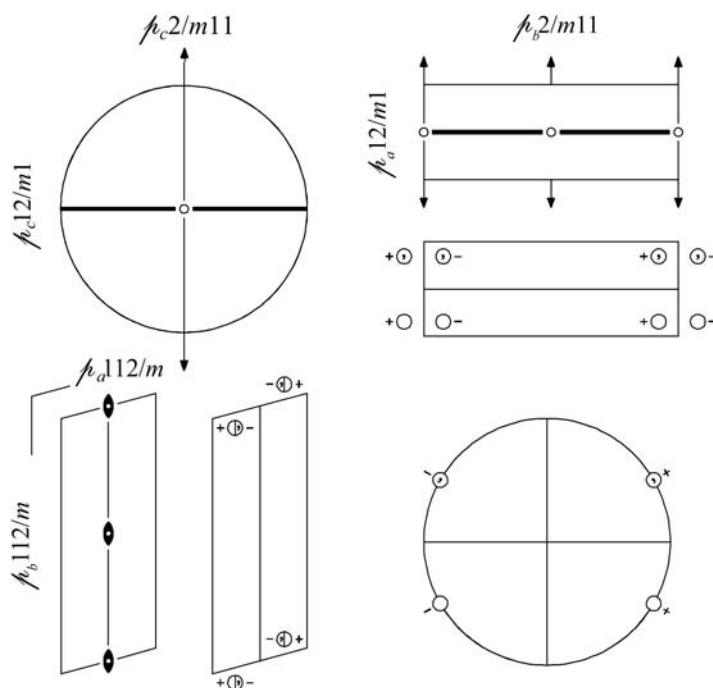
$2/m$

Monoclinic/Oblique

No. 6

$\mu 2/m 1 1$

Patterson symmetry $\mu 2/m 1 1$



Origin at centre ($2/m$)

Asymmetric unit $0 \leq x; 0 \leq y; 0 \leq z \leq 1$

Symmetry operations

- | | | | |
|-------------|---------------------------|-------------------------|-------------------|
| (1) 1 | (2) 2 $x, 0, 0$ | (3) $\bar{1}$ $0, 0, 0$ | (4) m $0, y, z$ |
| (1 0, 0, 0) | (2 _x 0, 0, 0) | ($\bar{1}$ 0, 0, 0) | (m_x 0, 0, 0) |

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

Positions

Multiplicity, Wyckoff letter, Site symmetry	Coordinates				Reflection conditions
					General:
4 <i>f</i> 1	(1) x, y, z	(2) x, \bar{y}, \bar{z}	(3) $\bar{x}, \bar{y}, \bar{z}$	(4) \bar{x}, y, z	no conditions Special: no extra conditions
2 <i>e</i> <i>m</i>	$0, y, z$	$0, \bar{y}, \bar{z}$			
2 <i>d</i> 2	$x, 0, \frac{1}{2}$	$\bar{x}, 0, \frac{1}{2}$			
2 <i>c</i> 2	$x, 0, 0$	$\bar{x}, 0, 0$			
1 <i>b</i> $2/m$	$0, 0, \frac{1}{2}$				
1 <i>a</i> $2/m$	$0, 0, 0$				

Symmetry of special projections

Along [001] $2mm$	Along [100] $\mu 2 1 1$	Along [010] $\mu 2mm$
Origin at $0, 0, z$	$\mathbf{a}' = \mathbf{c}$ Origin at $x, 0, 0$	$\mathbf{a}' = \mathbf{c}_p$ Origin at $0, y, 0$

Maximal non-isotypic non-enantiomorphic subgroups

I	$[2] \mu m 1 1$ (4)	1; 4
	$[2] \mu 2 1 1$ (3)	1; 2
	$[2] \mu \bar{1}$ (2)	1; 3

IIa none

IIb $[2] \mu 2/c 1 1$ ($\mathbf{c}' = 2\mathbf{c}$) (7)

Maximal isotypic subgroups and enantiomorphic subgroups of lowest index

IIc $[2] \mu 2/m 1 1$ ($\mathbf{c}' = 2\mathbf{c}$) (6)

Minimal non-isotypic non-enantiomorphic supergroups

I $[2] \mu m m m$ (20); $[2] \mu m c m$ (22); $[3] \mu \bar{3} 1 m$ (51)

II none