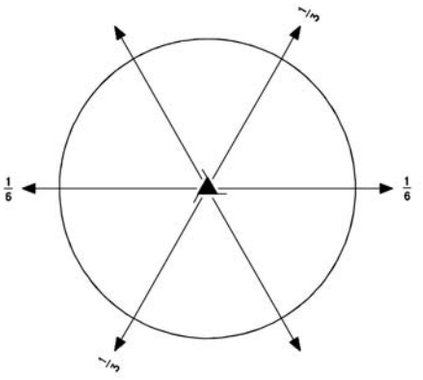
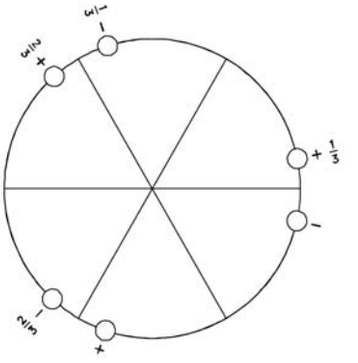
$\not p 3_1 21$ 321 Trigonal

No. 47 $\not p 3_1 21$ Patterson symmetry $\not p \bar{3} m 1$

SECOND SETTING





Origin on $2[110]$ at $3_1(1,1,2)1$

Asymmetric unit $0 \le x; \quad 0 \le y; \quad 0 \le z \le \frac{1}{2}$

Symmetry operations

(1) 1
(2) $3^+(\frac{1}{3})$ $0,0,z$
(3) $3^-(\frac{2}{3})$ $0,0,z$
(4) 2 $x,x,0$
(5) 2 $x,0,\frac{1}{3}$
(6) 2 $0,y,\frac{1}{6}$

Generators selected (1); $t(0,0,1)$; (2); (4)

Positions

Multiplicity, Wyckoff letter, Site symmetry		Coordinates			Reflection conditions
					General:
6	c 1	(1) x,y,z	(2) $\bar{y},x-y,z+\frac{1}{3}$	(3) $\bar{x}+y,\bar{x},z+\frac{2}{3}$	l : $l=3n$
		(4) $y,x,\bar{z}$	(5) $x-y,\bar{y},\bar{z}+\frac{2}{3}$	(6) $\bar{x},\bar{x}+y,\bar{z}+\frac{1}{3}$	
					Special: no extra conditions
3	b . 2 .	$x,0,\frac{5}{6}$	$0,x,\frac{1}{6}$	$\bar{x},\bar{x},\frac{1}{2}$	
3	a . 2 .	$x,0,\frac{1}{3}$	$0,x,\frac{2}{3}$	$\bar{x},\bar{x},0$	

Symmetry of special projections

Along [001] $3m$
Origin at $0,0,z$

Along [100] $P\bar{2}11$
$\mathbf{a}'=\mathbf{c}$
Origin at $x,0,\frac{1}{3}$

Along [210] $P\bar{1}m1$
$\mathbf{a}'=\mathbf{c}$
Origin at $x,\frac{1}{2}x,\frac{1}{6}$

Maximal non-isotypic non-enantiomorphic subgroups

I [2] $P\bar{3}_1 11$ ($P\bar{3}_1$, 43) 1; 2; 3
[3] $P\bar{1}21$ ($P\bar{2}11$, 3) 1; 4
[3] $P\bar{1}21$ ($P\bar{2}11$, 3) 1; 5
[3] $P\bar{1}21$ ($P\bar{2}11$, 3) 1; 6

IIa none

IIb none

Maximal isotypic subgroups and enantiomorphic subgroups of lowest index

IIc [2] $P\bar{3}_2 21$ ($\mathbf{c}'=2\mathbf{c}$) ($P\bar{3}_2 12$, 48); [7] $P\bar{3}_1 21$ ($\mathbf{c}'=7\mathbf{c}$) ($P\bar{3}_1 12$, 47)

Minimal non-isotypic non-enantiomorphic supergroups

I [2] $P\bar{6}_1 22$ (63); [2] $P\bar{6}_4 22$ (66)

II [3] $P\bar{3}12$ ($\mathbf{c}'=\frac{1}{3}\mathbf{c}$) (46)