International Tables for Crystallography (2010). Vol. E, Scanning table for space group 8, pp. 427–428.

No. 7 *Pc* C_s^2

CELL CHOICE 3

$\mathcal{G} = P1a1$ UNIQUE AXIS *b*

$\mathcal{G} = P11b$ UNIQUE AXIS *c*

Orientation orbit (hkl)	Conventional basis of the scanning group $\mathbf{a}'$	$\mathbf{b}'$	$\mathbf{d}$	Scanning group $\mathcal{H}$	Linear orbit $s\mathbf{d}$	Sectional layer group $\mathcal{L}(s\mathbf{d})$	
UNIQUE AXIS *b* (010)	$\mathbf{c}$	$\mathbf{a}$	$\mathbf{b}$	$P11b$	$0\mathbf{d}$, $\frac{1}{2}\mathbf{d}$	$p11b$	L05
UNIQUE AXIS *c* (001)	$\mathbf{a}$	$\mathbf{b}$	$\mathbf{c}$		$[s\mathbf{d}, -s\mathbf{d}]$	$p1$	L01
UNIQUE AXIS *b* $(n0m)$	$\mathbf{b}$	$n\mathbf{c}-m\mathbf{a}$	$p\mathbf{c}+q\mathbf{a}$				
UNIQUE AXIS *c* $(mn0)$	$\mathbf{c}$	$n\mathbf{a}-m\mathbf{b}$	$p\mathbf{a}+q\mathbf{b}$				
		n odd		$Pc11$	$[s\mathbf{d}, (s+\frac{1}{2})\mathbf{d}]$	$p1$	L01
		p even	q odd				
		n even	m odd	$Pb11$	$s\mathbf{d}$	$pb11$	L12
		p odd					
		n odd		$Pn11$	$[s\mathbf{d}, (s+\frac{1}{2})\mathbf{d}]$	$p1$	L01
		p odd					

No. 8 *Cm* C_s^3

CELL CHOICE 1

$\mathcal{G} = C1m1$ UNIQUE AXIS *b*

$\mathcal{G} = A11m$ UNIQUE AXIS *c*

Orientation orbit (hkl)	Conventional basis of the scanning group $\mathbf{a}'$	$\mathbf{b}'$	$\mathbf{d}$	Scanning group $\mathcal{H}$	Linear orbit $s\mathbf{d}$	Sectional layer group $\mathcal{L}(s\mathbf{d})$	
UNIQUE AXIS *b* (010)	$\mathbf{c}$	$\mathbf{a}$	$\mathbf{b}$	$A11m$	$[0\mathbf{d}, \frac{1}{2}\mathbf{d}]$	$p11m$	L04
					$[\frac{1}{4}\mathbf{d}, \frac{3}{4}\mathbf{d}]$	$p11b$	L05
UNIQUE AXIS *c* (001)	$\mathbf{a}$	$\mathbf{b}$	$\mathbf{c}$		$[\pm s\mathbf{d}, (\pm s+\frac{1}{2})\mathbf{d}]$	$p1$	L01
UNIQUE AXIS *b* $(n0m)$	$\mathbf{b}$	$n\mathbf{c}-m\mathbf{a}$	$p\mathbf{c}+q\mathbf{a}$				
UNIQUE AXIS *c* $(mn0)$	$\mathbf{c}$	$n\mathbf{a}-m\mathbf{b}$	$p\mathbf{a}+q\mathbf{b}$				
		n odd		$Bm11$	$[s\mathbf{d}, (s+\frac{1}{2})\mathbf{d}]$	$pm11$	L11
		p even	q odd				
		n even	m odd	$Cm11$	$s\mathbf{d}$	$cm11$	L13
		p odd					
		n odd		$Im11$	$[s\mathbf{d}, (s+\frac{1}{2})\mathbf{d}]$	$pm11$	L11
		p odd					

No. 8 *Cm* C_s^3

CELL CHOICE 2

$\mathcal{G} = A1m1$ UNIQUE AXIS *b*

$\mathcal{G} = B11m$ UNIQUE AXIS *c*

Orientation orbit (hkl)	Conventional basis of the scanning group $\mathbf{a}'$	$\mathbf{b}'$	$\mathbf{d}$	Scanning group $\mathcal{H}$	Linear orbit $s\mathbf{d}$	Sectional layer group $\mathcal{L}(s\mathbf{d})$	
UNIQUE AXIS *b*							
(010)	**c**	**a**	**b**	$B11m$	$[0\mathbf{d}, \frac{1}{2}\mathbf{d}]$	$p11m$	L04
UNIQUE AXIS *c*					$[\frac{1}{4}\mathbf{d}, \frac{3}{4}\mathbf{d}]$	$p11a$	L05
(001)	**a**	**b**	**c**		$[\pm s\mathbf{d}, (\pm s + \frac{1}{2})\mathbf{d}]$	$p1$	L01
UNIQUE AXIS *b*							
$(n0m)$	**b**	$n\mathbf{c} - m\mathbf{a}$	$p\mathbf{c} + q\mathbf{a}$				
UNIQUE AXIS *c*							
$(mn0)$	**c**	$n\mathbf{a} - m\mathbf{b}$	$p\mathbf{a} + q\mathbf{b}$				
		n odd	m even	$Cm11$	$s\mathbf{d}$	$cm11$	L13
			q odd				
			m odd	$Im11$	$[s\mathbf{d}, (s + \frac{1}{2})\mathbf{d}]$	$pm11$	L11
			q odd				
			m odd	$Bm11$	$[s\mathbf{d}, (s + \frac{1}{2})\mathbf{d}]$	$pm11$	L11
		p odd	q even				

No. 8 *Cm* C_s^3

CELL CHOICE 3

$\mathcal{G} = I1m1$ UNIQUE AXIS *b*

$\mathcal{G} = I11m$ UNIQUE AXIS *c*

Orientation orbit (hkl)	Conventional basis of the scanning group $\mathbf{a}'$	$\mathbf{b}'$	$\mathbf{d}$	Scanning group $\mathcal{H}$	Linear orbit $s\mathbf{d}$	Sectional layer group $\mathcal{L}(s\mathbf{d})$	
UNIQUE AXIS *b*							
(010)	**c**	**a**	**b**	$I11m$	$[0\mathbf{d}, \frac{1}{2}\mathbf{d}]$	$p11m$	L04
UNIQUE AXIS *c*					$[\frac{1}{4}\mathbf{d}, \frac{3}{4}\mathbf{d}]$	$p11n$	L05
(001)	**a**	**b**	**c**		$[\pm s\mathbf{d}, (\pm s + \frac{1}{2})\mathbf{d}]$	$p1$	L01
UNIQUE AXIS *b*							
$(n0m)$	**b**	$n\mathbf{c} - m\mathbf{a}$	$p\mathbf{c} + q\mathbf{a}$				
UNIQUE AXIS *c*							
$(mn0)$	**c**	$n\mathbf{a} - m\mathbf{b}$	$p\mathbf{a} + q\mathbf{b}$				
		n odd	m even	$Im11$	$[s\mathbf{d}, (s + \frac{1}{2})\mathbf{d}]$	$pm11$	L11
		p even	q odd				
			or				
		n even	m odd				
		p odd	q even				
		p odd	q odd	$Bm11$	$[s\mathbf{d}, (s + \frac{1}{2})\mathbf{d}]$	$pm11$	L11
		n odd	m odd	$Cm11$	$s\mathbf{d}$	$cm11$	L13