

Laue class  $C_{2h} - 2/m$ 

6. SCANNING TABLES

Monoclinic

 No. 11  $P2_1/m$ 
 $\mathcal{G} = P12_1/m1$  UNIQUE AXIS  $b$ 
 $C_{2h}^2$ 
 $\mathcal{G} = P112_1/m$  UNIQUE AXIS  $c$ 

Orientation orbit ( $hkl$ )	Conventional basis of the scanning group			Scanning group $\mathcal{H}$	Linear orbit $sd$	Sectional layer group $\mathcal{L}(sd)$	
	$a'$	$b'$	$d$				
UNIQUE AXIS $b$ (010)	<b>c</b>	<b>a</b>	<b>b</b>	$P112_1/m$	$[0\mathbf{d}, \frac{1}{2}\mathbf{d}]$ $[\frac{1}{4}\mathbf{d}, \frac{3}{4}\mathbf{d}]$ $[\pm s\mathbf{d}, (\pm s + \frac{1}{2})\mathbf{d}]$	$p\bar{1}$	L02
UNIQUE AXIS $c$ (001)	<b>a</b>	<b>b</b>	<b>c</b>			$p11m$	L04
UNIQUE AXIS $b$ ( $n0m$ )	<b>b</b>	$nc - ma$	$pc + qa$	$P2_1/m11$	$0\mathbf{d}, \frac{1}{2}\mathbf{d}$ $[s\mathbf{d}, -s\mathbf{d}]$	$p2_1/m11$	L15
UNIQUE AXIS $c$ ( $mn0$ )	<b>c</b>	$na - mb$	$pa + qb$			$pm11$ ( $a'/4$ )	L11

 No. 12  $C2/m$ 
 $\mathcal{G} = C12/m1$  UNIQUE AXIS  $b$ 
 $C_{2h}^3$ 

CELL CHOICE 1

 $\mathcal{G} = A112/m$  UNIQUE AXIS  $c$ 

Orientation orbit ( $hkl$ )	Conventional basis of the scanning group			Scanning group $\mathcal{H}$	Linear orbit $sd$	Sectional layer group $\mathcal{L}(sd)$	
	$a'$	$b'$	$d$				
UNIQUE AXIS $b$ (010)	<b>c</b>	<b>a</b>	<b>b</b>	$A112/m$	$[0\mathbf{d}, \frac{1}{2}\mathbf{d}]$ $[\frac{1}{4}\mathbf{d}, \frac{3}{4}\mathbf{d}]$ $[\pm s\mathbf{d}, (\pm s + \frac{1}{2})\mathbf{d}]$	$p112/m$	L06
UNIQUE AXIS $c$ (001)	<b>a</b>	<b>b</b>	<b>c</b>			$p112/b$ ( $b/4$ )	L07
UNIQUE AXIS $b$ ( $n0m$ )	<b>b</b>	$nc - ma$	$pc + qa$	$B2/m11$	$[0\mathbf{d}, \frac{1}{2}\mathbf{d}]$ $[\frac{1}{4}\mathbf{d}, \frac{3}{4}\mathbf{d}]$ $[\pm s\mathbf{d}, (\pm s + \frac{1}{2})\mathbf{d}]$	$p2/m11$	L14
UNIQUE AXIS $c$ ( $mn0$ )	<b>c</b>	$na - mb$	$pa + qb$			$p2_1/m11$ ( $a'/4$ )	L15
		$n$ odd $p$ even	$q$ odd			$pm11$	L11
		$n$ even $p$ odd	$m$ odd	$C2/m11$	$0\mathbf{d}, \frac{1}{2}\mathbf{d}$ $[s\mathbf{d}, -s\mathbf{d}]$	$c2/m11$	L18
		$n$ odd $p$ odd		$I2/m11$	$[0\mathbf{d}, \frac{1}{2}\mathbf{d}]$ $[\frac{1}{4}\mathbf{d}, \frac{3}{4}\mathbf{d}]$ $[\pm s\mathbf{d}, (\pm s + \frac{1}{2})\mathbf{d}]$	$cm11$	L13
		$n$ odd $p$ odd				$p2/m11$	L14
						$p2_1/m11$ [ $(a' + b')/4$ ]	L15
						$pm11$	L11