Scanning tables for the layer groups Supplementary information Bernard Field, Sinéad M. Griffin

*p*1 No. 1

Orientation	Scanning		anning		10000	ional
$[uvw] = \mathbf{c}$	direction d		roup	$s\mathbf{d}$	1	group
		(c	(\mathbf{d}, \mathbf{z})		(d,	$\mathbf{z}, \mathbf{c})$
[100]	[010]	<i>p</i> 1	L1	S	p1	R1
Orientation	Scanning	Scar	ning			
$[uv0] = \mathbf{c}$	direction	gro	oup			
	$\mathbf{d} = [pq0]$	(\mathbf{c}, \mathbf{c})	(\mathbf{d}, \mathbf{z})			
Any u, v	Any p, q	<i>p</i> 1	L1			

$p\bar{1}$ No. 2

Orientation	Scanning	Sca	nning	Location	Sect	ional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	g	roup	$s\mathbf{d}$	rod g	group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$			(d, z	$\mathbf{z}, \mathbf{c})$
[100]	[010]	$p\bar{1}$	L2	0, 1/2	ρĪ	R2
				[s, -s]	$\rho 1$	R1
Orientation	Scanning	Scan	ning			
$[uv0] = \mathbf{c}$	direction	gro	up			
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$				
Any u, v	Any p, q	$p\bar{1}$	L2			

p112 No. 3

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	$\begin{array}{ c c c } \hline Scanning \\ group \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \\ \hline \end{array}$	Location sd	Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	p112 L3	0, 1/2 [s, -s]	ρ121 R3 ρ1 R1
$ \begin{array}{c} \text{Orientation} \\ [uv0] = \mathbf{c} \end{array} $	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		
Any u, v	Any p, q	p112 L3		

p11m No. 4

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	Scanning	Location sd	Sectional rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	p11m L4	S	ρ1m1 R4
$ \begin{array}{c} \text{Orientation} \\ [uv0] = \mathbf{c} \end{array} $	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		
Any u, v	Any p, q	p11m L4		

*p*11*a* No. 5

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	p11a L5	S	p1c1 R5
[010]	[100]	<i>p</i> 11 <i>b</i> L5	$[s, (s+\frac{1}{2})]$	ρ1 R1
[010]	[110]	p11n L5	$[s, (s+\frac{1}{2})]$	/n1 R1
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Odd u , even	V Odd q	p11a L5		
Any u , odd v	Even q	<i>p</i> 11 <i>b</i> L5		
Any u , odd v	Odd q	p11n L5		

p112/m No. 6

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	p112/m L6	0, 1/2	p12/m1 R6
			[s, -s]	$\rho 1m1$ R4
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p112/m L6		

*p*112/*a* **No.** 7

Orientation	Scanning	Scanning	Location	Sections	al
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod grou	ιp
		$(\mathbf{c},\mathbf{d},\mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$)
[100]	[010]	p112/a L7	0, 1/2	$\rho 12/c1$	R7
			[s, -s]	p1c1	R5
[010]	[100]	<i>p</i> 112/ <i>b</i> L7	[0, 1/2]	$\rho \bar{1}$	R2
			[1/4, 3/4]	p121	R3
			$[\pm s, (\frac{1}{2} \pm s)]$	<i>p</i> 1	R1
[010]	[110]	p112/n L7	[0, 1/2]	$\rho \bar{1}$	R2
			[1/4, 3/4]	ρ 121 [1/4]] R3
			$[\pm s, (\frac{1}{2} \pm s)]$	<i>p</i> 1	R1
Orientation	Scanning	Scanning			
$[uv0] = \mathbf{c}$	direction	group			
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$			
Odd u , even	v Odd q	p112/a L7			

 $p112/b~\mathrm{L7}$

 $p112/n~\mathrm{L7}$

p211 No. 8

Any u, odd v

Any u, odd v

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	p211 L8	0, 1/2	ρ112 R8
			[s, -s]	/n 1 R1
[010]	[100]	p121 L8	S	ρ211 R3
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	<i>p</i> 1 L1		

Even q

Odd \boldsymbol{q}

*p*2₁11 **No.** 9

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	g	$ \begin{array}{c} \text{nning} \\ \text{roup} \\ \mathbf{d}, \mathbf{z} \end{array} $	Location sd	rod g	ional group z , c)
[100]	[010]	p2 ₁	11 L9	0, 1/2 [s, -s]	/112 /1	2 ₁ R9 R1
[010]	[100]	p12	2 ₁ 1 L9	$[s, (s + \frac{1}{2})]$	<i>p</i> 1	R1
$ \begin{array}{c} \text{Orientation} \\ [uv0] = \mathbf{c} \end{array} $	Scanning direction $\mathbf{d} = [pq0]$	gro	ning oup d, z)			
Any u, v	Any p, q	<i>p</i> 1	L1			

*c*211 **No. 10**

Orientation	Scar	ning	Sca	nning	Location	Sectio	nal	
$[uvw] = \mathbf{c}$	direct	tion \mathbf{d}	gr	oup	$s\mathbf{d}$	rod gr	oup	
			(c,	$\mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z},$	$\mathbf{c})$	
[100]	[0	10]	c21	1 L10	[0, 1/2]	p112	R8	
					[1/4, 3/4]	$\rho 112_1$	R9	
					$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	$\rho 1$	R1	
[010]	[10	[00]	c12	1 L10	$[s, (s + \frac{1}{2})]$	p211	R3	
Orientatio	on	С			Scanning		Sca	nning
[<i>uv</i> 0]					direction		gr	oup
				d = [(p+q)/2, (p-q)	(q)/2,0]	(c,	$\mathbf{d}, \mathbf{z})$
Odd u , ode	d v	[u,v,0])]/2	Any p, q			<i>p</i> 1	L1
Even u OR e	ven v	[u, v,	0]					

*pm*11 **No. 11**

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	g	anning roup , d , z)	Location sd	Section rod gr	oup
[100]	[010]	<u> </u>	11 L11	S	$\rho 11m$	
[010]	[100]	p1n	n1 L11	0, 1/2	pm11	R4
				[s, -s]	$\rho 1$	R1
Orientation	Scanning	Scan	ning			
$[uv0] = \mathbf{c}$	direction	grc	oup			
	$\mathbf{d} = [pq0]$	(\mathbf{c}, \mathbf{c})	(\mathbf{l}, \mathbf{z})			
Any u, v	Any p, q	<i>p</i> 1	L1			

pb11 No. 12

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pb11 L12	$[s, (s+\frac{1}{2})]$	ρ1 R1
[010]	[100]	p1a1 L12	0, 1/2	pc11 R5
			[s, -s]	ρ1 R1
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	<i>p</i> 1 L1		

*cm*11 **No. 13**

Orientation	Coor		Coo	nnin a	Location	Section	. n. a 1]
		$nning_{_{-}}$	Sca	nning				
$[uvw] = \mathbf{c}$	direc	tion \mathbf{d}	g	roup	$s\mathbf{d}$	rod gi	coup	
			(c,	(\mathbf{d}, \mathbf{z})		(\mathbf{d}, \mathbf{z})	$, \mathbf{c})$	
[100]	[0]	10]	cm1	11 L13	$[s, (s + \frac{1}{2})]$	p11m	R10	
[010]	[1	[00]	c1n	11 L13	[0, 1/2]	pm11	R4	
					[1/4, 3/4]	pc11	R5	
					$[\pm s, (\frac{1}{2} \pm s)]$	p1	R1	
Orientatio	on	С			Scanning		Scan	ning
[<i>uv</i> 0]				direction			gro	oup
				$\mathbf{d} = [(p+q)/2, (p-q)]$		(-)/2,0]	(\mathbf{c}, \mathbf{c})	$\mathbf{d}, \mathbf{z})$
Odd u , od	d v	[u, v, 0])]/2	Any p, q			p1	L1
Even u OR e	ven v	[u, v,	01					

p2/m11 No. 14

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	1	Scanning group		Section rod gr	
		$(\mathbf{c}, \mathbf{d},$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z},$	$\mathbf{c})$
[100]	[010]	p2/m11	L14	0, 1/2	$\rho 112/m$	ı R11
				[s, -s]	p 11m	R10
[010]	[100]	p12/m1	L14	0, 1/2	$\rho^{2/m11}$	R6
				[s, -s]	p211	R3
Orientation	Scanning	Scanning				
$[uv0] = \mathbf{c}$	direction	group				
	$\mathbf{d} = [pq0]$	$(\mathbf{c},\mathbf{d},\mathbf{z})$				
Any u, v	Any p, q	$p\bar{1}$ L2				

$p2_1/m11$ No. 15

Orientation	Scanning	Scanni	0	Location	Section	
$[uvw] = \mathbf{c}$	direction d	group)	sd	rod gro	up
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$	z)		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$:)
[100]	[010]	$p2_1/m11$	L15	0, 1/2	$\rho 112_1/m$	R12
				[s, -s]	$\rho 11m [1/4]$	R10
[010]	[100]	$p12_1/m1$	L15	[0, 1/2]	ηĪ	R2
				[1/4, 3/4]	$\rho m11$	R4
				$\left[\pm s, (\frac{1}{2} \pm s)\right]$	p1	R1
Orientation	Scanning	Scanning				
$[uv0] = \mathbf{c}$	direction	group				
	$\mathbf{d} = [pq0]$	$(\mathbf{c},\mathbf{d},\mathbf{z})$				
Any u, v	Any p, q	$p\bar{1}$ L2				

*p*2/*b*11 **No. 16**

Orientation	Scanning	Scannin	g	Location	Section	al
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group		$s\mathbf{d}$	rod group	
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$			$(\mathbf{d}, \mathbf{z}, \mathbf{c})$	()
[100]	[010]	<i>p</i> 2/ <i>b</i> 11 L	16	[0, 1/2]	$\rho \bar{1}$	R2
				[1/4, 3/4]	n 112	R8
				$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	<i>p</i> 1	R1
[010]	[100]	p12/a1 L	16	0, 1/2	$\rho^{2/c11}$	R7
				[s, -s]	$n^{211} [1/4]$	·] R3
Orientation	Scanning	Scanning				
$[uv0] = \mathbf{c}$	direction	group				
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$				
Any u, v	Any p, q	$p\bar{1}$ L2				

$p2_1/b11$ No. 17

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	Scanning group (c, d, z)	Location sd	Sectional rod group (d, z, c)
[100]	[010]	p2 ₁ /b11 L17	$ \begin{bmatrix} 0, 1/2 \\ 1/4, 3/4 \\ [\pm s, (\frac{1}{2} \pm s)] \end{bmatrix} $	μ1 R2 μ112 ₁ R9 μ1 R1
[010]	[100]	p12 ₁ /a1 L17	$ \begin{bmatrix} 0, 1/2 \\ [1/4, 3/4] \\ [\pm s, (\frac{1}{2} \pm s)] \end{bmatrix} $	μ̄
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		
Any u, v	Any p, q	$p\bar{1}$ L2		

c2/m11 No. 18

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$	
[100]	[010]	c2/m11 L18	$ \begin{bmatrix} 0, 1/2 \\ 1/4, 3/4 \end{bmatrix} $	$ \rho 112/m $ $ \rho 112_1/m [1/4] $	
	_		$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	ρ11m	R10
[010]	$[\bar{1}00]$	c12/m1 L18	[0, 1/2]	$\rho^{2/m11}$	R6
			[1/4, 3/4]	$\rho^{2/c11}[1/4]$	R7
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	p211	R3

Orientation	c	Scanning	Scanning	
[uv0]		direction	group	
		$\mathbf{d} = [(p+q)/2, (p-q)/2, 0]$	(c,	$\mathbf{d}, \mathbf{z})$
Odd u, odd v	[u, v, 0]/2	Any p,q	$p\bar{1}$	L2
Even u OR even v	[u, v, 0]			

p222 No. 19

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction d	group	sd	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	p222 L19	0, 1/2	p222 R13
[010]	[100]		[s, -s]	ρ211 R3
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p112 L3		

*p*2₁22 **No. 20**

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	$\begin{array}{ c c c }\hline Scanning \\ group \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \\ \hline \end{array}$	Location sd	Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	p2 ₁ 22 L20	0, 1/2 [s, -s]	μ222 ₁ R14 μ211 [1/4] R3
[010]	[100]	p22 ₁ 2 L20	$ \begin{bmatrix} [0, 1/2] \\ [1/4, 3/4] \\ [\pm s, (\frac{1}{2} \pm s)] \end{bmatrix} $	ρ121 R3 ρ112 R8 ρ1 R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		
Any u, v	Any p, q	p112 L3		

$p2_12_12_1$ No. 21

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$	Location sd	Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100] [010]	[010] [100]	p2 ₁ 2 ₁ 2 ₁ L21	$ \begin{bmatrix} 0, 1/2 \\ 1/4, 3/4 \\ [\pm s, (\frac{1}{2} \pm s)] \end{bmatrix} $	μ121 R3 μ112 ₁ R9 μ1 R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		
Any u, v	Any p, q	<i>p</i> 112 L3		

c222 **No. 22**

Orientation	Scar	nning	Sca	nning	Location	Section	onal	
$[uvw] = \mathbf{c}$	direc	tion \mathbf{d}	gr	oup	$s\mathbf{d}$	rod gr	oup	
			(c,	$\mathbf{d}, \mathbf{z})$		(\mathbf{d}, \mathbf{z})	, c)	
[100]	[0]	10]	c22	2 L22	[0, 1/2]	p222	R13	
[010]	[1	[00]			[1/4, 3/4]	ρ^{222}_{1}	R14	
					$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	p211	R3	
Orientatio	on	С			Scanning		Scan	ning
[<i>uv</i> 0]					direction		gro	up
				$\mathbf{d} = [(p+q)/2, (p-q)]$		(q)/2,0]	(c , d	$l, \mathbf{z})$
Odd u , od	d v	[u, v, 0])]/2]/2 Any p,q			p112	L3
Even u OR e	ven v	[u, v,	01					

*pmm*2 **No. 23**

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	0 - 1	Location sd	Sectional rod group
54007	50403	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$	0.1/0	$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pmm2 L23	1 ' '	pm2m R18
[010]	[100]		[s, -s]	ρ11m R10
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p112 L3		

pma2 No. 24

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$	Location sd	Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	<i>pma</i> 2 L24	0, 1/2 [s, -s]	ρc2m R19 ρ11m [1/4] R10
[010]	[100]	pbm2 L24	$ \begin{bmatrix} 0, 1/2 \\ 1/4, 3/4 \\ [\pm s, (\frac{1}{2} \pm s)] \end{bmatrix} $	μ121 R3 μm11 R4 μ1 R1
$ \begin{array}{c} \text{Orientation} \\ [uv0] = \mathbf{c} \end{array} $	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		
Any u, v	Any p, q	p112 L3		

pba2 No. 25

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction d	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pba2 L25	[0, 1/2]	ρ121 R3
[010]	[100]		[1/4, 3/4]	pc11 R5
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	η1 R1
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	<i>p</i> 112 L3		

*cmm*2 **No. 26**

Orientation $[uvw] = \mathbf{c}$		nning tion d	g	anning roup (\mathbf{d}, \mathbf{z})	$\begin{array}{c} \text{Location} \\ s\mathbf{d} \end{array}$	rod g	\mathbf{z}, \mathbf{c}	
[100] [010]		10] 00]	cmm2 L26		$[0, 1/2] [1/4, 3/4] [\pm s, (\frac{1}{2} \pm s)]$	ρm2m R18 ρc2m R19 ρ11m R10		
Orientatio [uv0]	on	c		Scanning direction $\mathbf{d} = [(p+q)/2, (p-q)]$)/2,0]	Scann grou (c, d,	ıp
Odd u , odd Even u OR e		[u, v, 0] [u, v, 0]	_		Any p, q		p112	L3

pm2m No. 27

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	0	Location sd	Sectional rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pm2m L27	S	p2mm R18
[010]	[100]	<i>p</i> 2 <i>mm</i> L27	0, 1/2	pmm2 R15
			[s, -s]	$\rho 1m1$ R4
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p11m L4		

*pm*2₁*b* No. 28

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	$pm2_1b~\mathrm{L}28$	$[s, (s+\frac{1}{2})]$	ρ11m R10
[010]	[100]	$p2_1ma$ L28	0, 1/2	$\rho mc2_1$ R17
			[s, -s]	p1c1 R5
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Even u , odd	$V \qquad \text{Odd } p$	p11a L5		
Odd u , any v	Even p	<i>p</i> 11 <i>b</i> L5		
Odd u , any v	Odd p	p11n L5		

*pb*2₁*m* **No. 29**

$\begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array}$	Scanning direction d	0r	Location sd	Sectional rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pb2 ₁ m L29	$[s, (s+\frac{1}{2})]$	ρ1m1 R4
[010]	[100]	p2 ₁ am L29	0, 1/2	$\rho cm2_1$ R17
			[s, -s]	ρ1m1 R4
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p11m L4		

pb2b No. 30

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	<i>pb2b</i> L30	$[s, (s+\frac{1}{2})]$	<i>p</i> 211 R3
[010]	[100]	<i>p2aa</i> L30	0, 1/2	pcc2 R16
			[s, -s]	<i>p</i> 1 <i>c</i> 1 R5
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Even u , odd	v Odd p	p11a L5		
Odd u, any i	Even p	<i>p</i> 11 <i>b</i> L5		
Odd u, any i	Odd p	p11n L5		

*pm*2*a* **No.** 31

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c},\mathbf{d},\mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pm2a L31	S	p2cm R19
[010]	[100]	<i>p</i> 2 <i>mb</i> L31	[0, 1/2]	p112 R8
			[1/4, 3/4]	pm11 R4
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	ρ1 R1
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Odd u , even	$v \mid \operatorname{Odd} q$	p11a L5		
Any u , odd v	Even q	<i>p</i> 11 <i>b</i> L5		
Any u , odd v	Odd q	<i>p</i> 11 <i>n</i> L5		

$pm2_1n$ No. 32

Orientation	Scar	ning	Sca	anning]	Location	Sectio	nal
$[uvw] = \mathbf{c}$	direct	$\operatorname{tion} \mathbf{d}$	group			$s\mathbf{d}$	rod gr	oup
				$, \mathbf{d}, \mathbf{z})$			$(\mathbf{d}, \mathbf{z},$	$\mathbf{c})$
[100]	[010]		<i>pm</i> 2 ₁ <i>n</i> L32		[.	$[s, (s+\frac{1}{2})]$	p 11m	R10
[010]	[100]		$p2_1mn$ L32			[0, 1/2]	pm11	R4
					[1/4, 3/4	n^{112}	R9
					[±	$[s,(\frac{1}{2}\pm s)]$	$\rho 1$	R1
Orientatio		Scann	_	Scanni	_			

Orientation	Scanning	Scanning
$[uv0] = \mathbf{c}$	direction	group
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
Odd u, odd v	Any p, q	p11a L5
Even u OR even v	$\mathrm{Odd}\; p,q$	<i>p</i> 11 <i>b</i> L5
Even u , odd v	Even q	p11n L5
Odd u , even v	Even p	

$pb2_{1}a$ No. 33

	g .	α .	т	G 1
Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction d	group	$s\mathbf{d}$	rod group
		$(\mathbf{c},\mathbf{d},\mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	$pb2_1a~\mathrm{L}33$	$[s, (s+\frac{1}{2})]$	<i>p</i> 1 <i>c</i> 1 R5
[010]	[100]	$p2_1ab~\mathrm{L}33$	[0, 1/2]	/112 ₁ R9
			[1/4, 3/4]	pc11 R5
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	η1 R1
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Odd u , even	$v - \operatorname{Odd} q$	p11a L5		
Any u , odd v	Even q	p11b L5		
Any u , odd v	Odd q	p11n L5		

pb2n No. 34

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pb2n L34	$[s, (s+\frac{1}{2})]$	p211 R3
[010]	[100]	p2an L34	[0, 1/2]	ρ112 R8
			[1/4, 3/4]	pc11 R5
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	/n1 R1

Orientation	Scanning	Scanning
$[uv0] = \mathbf{c}$	direction	group
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
$\operatorname{Odd} u,\operatorname{odd} v$	Any p, q	p11a L5
Even u OR even v	$\mathrm{Odd}\; p,q$	<i>p</i> 11 <i>b</i> L5
Even u , odd v	Even q	<i>p</i> 11 <i>n</i> L5
Odd u , even v	Even p	

cm2m No. 35

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	<i>cm</i> 2 <i>m</i> L35	$[s, (s+\frac{1}{2})]$	p2mm R18
[010]	[100]	<i>c</i> 2 <i>mm</i> L35	[0, 1/2]	pmm2 R15
			[1/4, 3/4]	$\rho cm2_1$ R17
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	$\rho 1m1$ R4
0 . 1			О .	C

	Orientation	c	Scanning	Scanning
	[uv0]		direction	group
			$\mathbf{d} = [(p+q)/2, (p-q)/2, 0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
ſ	$\mathrm{Odd}\ u,\mathrm{odd}\ v$	[u, v, 0]/2	Any p, q	p11m L4
	Even u OR even v	[u, v, 0]		

cm2e No. 36

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	Scani	up		ation s d	Section rod grow	up		
		(\mathbf{c}, \mathbf{d})	, z)			$(\mathbf{d}, \mathbf{z}, \mathbf{c})$;)		
[100]	[010]	cm2e	L36	[s, (s	$(+\frac{1}{2})$	p2cm I	R19		
[010]	[100]	c2me	L36	[0,	1/2]	pcc2 I	R16		
				[1/4]	[3/4]	$\rho mc2_1$ F	R17		
				[±s, ($\frac{1}{2} \pm s$	p1c1	R5		
Or	ientation			c		Scannin	ıg	Scann	ning
	[uv0]				directio	on	grou	ıр	
				$\mathbf{d} = [(p+q)/2, (p-1)]$		(p-q)/2,0]	(\mathbf{c}, \mathbf{d})	$,\mathbf{z})$	
Odd u , even	v OR even u ,	odd v	[u,v,0]		Any p, q		p11a	L5	
(Odd u, v		[u, v, 0]/2			Even $(p \pm q)$		p11b	L5
(Odd u, v		[u, v]	, 0]/2		Odd $(p \pm$	(q)	p11n	L5

pmmm No. 37

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	01	sd	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pmmm L37	0, 1/2	рттт R20
[010]	[100]		[s, -s]	<i>p</i> 2 <i>mm</i> R18
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p112/m L6		

pmaa **No.** 38

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$		Sectional rod group (d, z, c)
[100]	[010]	pmaa L38	0, 1/2 [$s, -s$]	ρccm R21 ρ2cm R19
[010]	[100]	pbmb L38	$ \begin{bmatrix} 0, 1/2 \\ 1/4, 3/4 \\ (\pm s, (\frac{1}{2} \pm s)) \end{bmatrix} $	ρ2/m11 R6 ρ222 R13 ρ211 R3
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		
Odd u, even i	Odd q	p112/a L7		
Any u, odd v	Even q	p112/b L7		
Any u , odd v	$\operatorname{Odd} q$	p112/n L7		

pban No. 39

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$		Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100] [010]	[010] [100]	pban L39	$[0, 1/2] [1/4, 3/4] [\pm s, (\frac{1}{2} \pm s)]$	ρ2/c11 R7 ρ222 [1/4] R13 ρ211 [1/4] R3

Orientation	Scanning	Scanning
$[uv0] = \mathbf{c}$	direction	group
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
Odd u, odd v	Any p, q	p112/a L7
Even u OR even v	$\mathrm{Odd}\; p,q$	p112/b L7
Even u , odd v	Even q	p112/n L7
Odd u , even v	Even p	

pmam No. 40

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pmam L40	0, 1/2	pcmm R22
			[s, -s]	p2mm [1/4] R18
[010]	[100]	pbmm L40	[0, 1/2]	$\rho 12/m1$ R6
			[1/4, 3/4]	$\rho mm2$ R15
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	$\rho 1m1$ R4
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p112/m L6		

pmma No. 41

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	Scanning group		Sectional rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pmma L41	0, 1/2	pmcm R22
			[s, -s]	p2cm R19
[010]	[100]	pmmb L41	[0, 1/2]	ρ112/m R11
			[1/4, 3/4]	ρm2m R18
			$[\pm s, (\frac{1}{2} \pm s)]$	$\rho 11m$ R10
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Odd u , even	v Odd q	p112/a L7		
Any u , odd 1	v Even q	p112/b L7		
Any u , odd 1	V Odd q	p112/n L7		

pman No. 42

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pman L42	[0, 1/2]	ρ112/m R11
			[1/4, 3/4]	$\rho c2m$ R19
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	$\rho 11m$ R10
[010]	[100]	pbmn L42	[0, 1/2]	$\rho^{2/m11}$ R6
			[1/4, 3/4]	
			$\left[\pm s, (\frac{1}{2} \pm s)\right]$	ρ211 R3

Orientation	Scanning	Scanning
$[uv0] = \mathbf{c}$	direction	group
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
Odd u, odd v	Any p, q	p112/a L7
Even u OR even v	$\mathrm{Odd}\; p,q$	p112/b L7
Even u , odd v	Even q	p112/n L7
Odd u , even v	Even p	

pbaa No. 43

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$	$\begin{array}{c} \text{Location} \\ s\mathbf{d} \end{array}$	Sectional rod group (d, z, c)	
[100]	[010]	pbaa L43	$ \begin{bmatrix} 0, 1/2 \\ 1/4, 3/4 \\ [\pm s, (\frac{1}{2} \pm s)] \end{bmatrix} $	μ12/c1 R7 μcc2 R16 μ1c1 R5	
[010]	[100]	pbab L43	$ \begin{array}{c c} \hline [0, 1/2] \\ [1/4, 3/4] \\ [\pm s, (\frac{1}{2} \pm s)] \end{array} $	μ2/c11 R7 μ222 ₁ R14 μ211 [1/4] R3	

Orientation	Scanning	Scanning
$[uv0] = \mathbf{c}$	direction	group
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
Odd u , even v	$\operatorname{Odd} q$	p112/a L7
Any u , odd v	Even q	p112/b L7
Any u , odd v	$\operatorname{Odd} q$	p112/n L7

pbam No. 44

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$	Location sd	Sectional rod group (d, z, c)
[100] [010]	[010] [100]	pbam L44	$ \begin{bmatrix} 0, 1/2 \\ \hline [1/4, 3/4] \end{bmatrix} $	ρ12/m1 R6 ρcm2 ₁ R17
[010]	[100]			$ \rho 1m1 R4 $
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p112/m L6		

pbma No. 45

0-:	C :	C :	T 4:	C4:	1
Orientation	Scanning	Scanning	Location	Sections	
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod grou	р.
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$	
[100]	[010]	pbma L45	[0, 1/2]	$\rho 12/c1$	R7
			[1/4, 3/4]	$\rho mc2_1$	R17
			$[\pm s, (\frac{1}{2} \pm s)]$	p 1c1	R5
[010]	[100]	pmab L45	[0, 1/2]	$\rho 112_1/m$	R12
			[1/4, 3/4]	$\rho c2m$	R19
			$[\pm s, (\frac{1}{2} \pm s)]$	$\rho 11m [1/4]$	R10
Orientation	Scanning	Scanning			
$[uv0] = \mathbf{c}$	direction	group			
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$			
Odd u , even	v Odd q	p112/a L7			
Any u , odd v	Even q	p112/b L7			
Any u , odd v	Odd q	p112/n L7			

pmmn No. 46

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	Scanning group	$\begin{array}{c} \text{Location} \\ s\mathbf{d} \end{array}$	Sectional rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pmmn L46	[0, 1/2]	$\rho 112_1/m$ R12
[010]	[100]		[1/4, 3/4]	pm2m [1/4] R18
			$[\pm s, (\frac{1}{2} \pm s)]$	ρ11m [1/4] R10

Orientation	Scanning	Scanning
$[uv0] = \mathbf{c}$	direction	group
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
$\mathrm{Odd}\ \mathit{u},\mathrm{odd}\ \mathit{v}$	Any p, q	p112/a L7
Even u OR even v	$\mathrm{Odd}\; p,q$	p112/b L7
Even u , odd v	Even q	p112/n L7
Odd u , even v	Even p	

cmmm No. 47

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	1	nning tion d				ro	$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100] [010]	_	10] 00]	cmmm L47		$[0, 1/2] [1/4, 3/4] [\pm s, (\frac{1}{2} \pm s)]$	pmm pcmi p2mi	m [1/4] R22
Orientatio [uv0]	on	С		d = [(<i>p</i>	Scanning direction $(p+q)/2, (p-q)$	/2,0]	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$
Odd u , od Even u OR e		[u, v, 0] [u, v, 0]	_		Any p, q		p112/m L6

cmme No. 48

Orientation	Scanning	Scar	ning	L	ocation	Section	al	
$[uvw] = \mathbf{c}$	direction \mathbf{d}	gro	oup		$s\mathbf{d}$	rod gro	up	
		(c, c	(\mathbf{d}, \mathbf{z})			$(\mathbf{d}, \mathbf{z}, \mathbf{c})$)	
[100]	[010]	cmme	L48	[0, 1/2]	рсст	R21	
				[1	/4, 3/4]	pmcm [1/4] R22	
				[±s	$[s,(\frac{1}{2}\pm s)]$	p2cm	R19	
[010]	[100]	cmme	L48	[0, 1/2]	ртст	R22	
		[1/4,	1/4, 0]	[1	/4, 3/4]	pccm [1/4]	R21	
				[±s	$[s,(\frac{1}{2}\pm s)]$	p2cm	R19	
Or	rientation		c			Scanning		Scanning
	[uv0]					direction		group
					$\mathbf{d} = [(p +$	(p-q)/2, (p-q)	/2,0]	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
Odd u , even	v OR even u ,	odd v	[u, v,	0]		Any p, q		p112/a L7
($\operatorname{Odd} u, v$		[u, v, 0]]/2	Е	$\text{even } (p \pm q)$		p112/b L7
($\operatorname{Odd} u, v$		[u, v, 0]]/2	(Odd $(p \pm q)$		p112/n L7

p4 No. 49

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	Scanning group (c, d, z)	$\begin{array}{c} \text{Location} \\ s\mathbf{d} \end{array}$	Sectional rod group (d, z, c)
[100] [010] [110] [110]	[010] [100] [100] [100]	p112 L3	$0, 1/2 \\ [s, -s]$	ρ121 R3 ρ1 R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		
Any u, v	Any p, q	<i>p</i> 112 L3		

$p\bar{4}$ No. 50

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	Scanning group	sd	Sectional rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	p112 L3	0, 1/2	ρ121 R3
[010]	[100]		[s,-s]	ρ_1 R1
[110]	[100]			
[110]	[100]			
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p112 L3		

*p*4/*m* No. 51

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$	Location sd	Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100] [010] [110] [110]	[010] [100] [100] [100]	p112/m L6	0, 1/2 [s, -s]	ρ12/m1 R6 ρ1m1 R4
Orientation $[uv0] = \mathbf{c}$ Any u, v	Scanning direction $\mathbf{d} = [pq0]$ Any p, q	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$ $p112/m \text{ L6}$		

p4/n No. 52

Orientation	Scanning	Scanning	Location	Sectional	
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod gro	ıp
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$)
[100]	[010]	p112/n L7	[0, 1/2]	ρĪ	R2
[010]	[100]		[1/4, 3/4]	ρ 121 [1/4] R3
			$[\pm s, (\frac{1}{2} \pm s)]$	<i>p</i> 1	R1
[110]	[100]	p112/a L7	0, 1/2	p12/c1	R7
[110]	[100]		[s, -s]	$\rho 1c1$	R5

Orientation	Scanning	Scanning
$[uv0] = \mathbf{c}$	direction	group
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
Odd u, odd v	Any p, q	p112/a L7
Even u OR even v	$\mathrm{Odd}\; p,q$	p112/b L7
Even u , odd v	Even q	p112/n L7
Odd u , even v	Even p	

p422 No. 53

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$	Location sd	Sectional rod group (d, z, c)
[100] [010]	[010] [100]	p222 L19	0, 1/2 [s, -s]	μ222 R13 μ211 R3
[110] [1Ī0]	[110] [110]	c222 L22	$ \begin{bmatrix} 0, 1/2 \\ 1/4, 3/4 \\ [\pm s, (\frac{1}{2} \pm s)] \end{bmatrix} $	ρ222 R13 ρ222 ₁ R14 ρ211 R3
$ \begin{array}{c} \text{Orientation} \\ [uv0] = \mathbf{c} \end{array} $	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		
Any u, v	Any p, q	p112 L3		

*p*42₁2 **No. 54**

Orientation	Scanning	Scannin	g	Location	Section	al
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group		$s\mathbf{d}$	rod gro	up
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$			$(\mathbf{d}, \mathbf{z}, \mathbf{c})$:)
[100]	[010]	p2 ₁ 2 ₁ 2 ₁ L	21	[0, 1/2]	p121	R3
[010]	[100]			[1/4, 3/4]	ρ_{112_1}	R9
				$[\pm s, (\frac{1}{2} \pm s)]$	<i>p</i> 1	R1
[110]	[110]	c222 L	22	[0, 1/2]	p222 ₁	R14
[110]	[110]	[1/4, 1/4,	0]	[1/4, 3/4]	$\rho^{222} [1/4]$] R13
				$[\pm s, (\frac{1}{2} \pm s)]$	p211 [1/4] R3
Orientation	Scanning	Scanning				
$[uv0] = \mathbf{c}$	direction	group				
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$				
Any u, v	Any p, q	p112 L3				

*p*4*mm* **No.** 55

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	Scanning group (c, d, z)	Location sd	Sectional rod group (d, z, c)
[100] [010]	[010] [100]	<i>pmm</i> 2 L23	0, 1/2 [s, -s]	ρm2m R18 ρ11m R10
[110] [1Ī0]	[110] [110]	cmm2 L26	$ \begin{bmatrix} 0, 1/2 \\ 1/4, 3/4 \\ [\pm s, (\frac{1}{2} \pm s)] \end{bmatrix} $	ρm2m R18 ρc2m R19 ρ11m R10
$ \begin{array}{c} \text{Orientation} \\ [uv0] = \mathbf{c} \end{array} $	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$	-	
Any u, v	Any p, q	p112 L3		

p4bm No. 56

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pba2 L2	$5 \mid [0, 1/2]$	ρ121 R3
[010]	[100]		[1/4, 3/4]	$\rho c11$ R5
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	ρ1 R1
[110]	[110]	cmm2 L2	6 [0, 1/2]	$\rho c2m$ R19
[110]	[110]	[1/4, 1/4, 0	[1/4, 3/4]	pm2m [1/4] R18
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	p11m [1/4] R10
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p112 L3		

$p\bar{4}2m$ No. 57

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$	Location sd	Sectional rod group (d, z, c)
[100] [010]	[010] [100]	p222 L19	0, 1/2 [s, -s]	ρ222 R13 ρ211 R3
[110] [110]	[110] [110]	<i>cmm</i> 2 L26	$ \begin{bmatrix} [0, 1/2] \\ [1/4, 3/4] \\ [\pm s, (\frac{1}{2} \pm s)] \end{bmatrix} $	ρm2m R18 ρc2m R19 ρ11m R10
$ \begin{array}{c} \text{Orientation} \\ [uv0] = \mathbf{c} \end{array} $	Scanning direction $\mathbf{d} = [pq0]$	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p112 L3		

$p\bar{4}2_{1}m$ No. 58

Orientation	Scanning	Scannin	_	Location	Section	
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group)	$s\mathbf{d}$	rod gro	up
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$	i)		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$:)
[100]	[010]	$p2_12_12_1$	L21	[0, 1/2]	p121	R3
[010]	[100]			[1/4, 3/4]	$\rho 112_1$	R9
				$[\pm s, (\frac{1}{2} \pm s)]$	$\rho 1$	R1
[110]	[110]	cmm2	L26	[0, 1/2]	pc2m	R19
[110]	[110]	[1/4, 1/4	[0, 0]	[1/4, 3/4]	$\rho m2m [1/4]$	·] R18
				$[\pm s, (\frac{1}{2} \pm s)]$	$\rho 11m [1/4]$] R10
Orientation	Scanning	Scanning				
$[uv0] = \mathbf{c}$	direction	group				
	$\mathbf{d} = [pq0]$	$(\mathbf{c},\mathbf{d},\mathbf{z})$				
Any u, v	Any p, q	<i>p</i> 112 L3				

$p\bar{4}m2$ No. 59

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$	$\begin{array}{c} \text{Location} \\ s\mathbf{d} \end{array}$	Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100] [010]	[010] [100]	<i>pmm</i> 2 L23	0, 1/2 [s, -s]	ρm2m R18 ρ11m R10
[110] [110]	[110] [110]	c222 L22	$ \begin{bmatrix} 0, 1/2 \\ 1/4, 3/4 \\ [\pm s, (\frac{1}{2} \pm s)] \end{bmatrix} $	ρ222 R13 ρ222 ₁ R14 ρ211 R3
$ \begin{array}{c} \text{Orientation} \\ [uv0] = \mathbf{c} \end{array} $	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		
Any u, v	Any p, q	p112 L3		

$p\bar{4}b2$ No. 60

Orientation	Scanning	Scannin	g	Location	Section	al
$[uvw] = \mathbf{c}$	direction d	group		$s\mathbf{d}$	rod gro	up
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$			$(\mathbf{d}, \mathbf{z}, \mathbf{c})$:)
[100]	[010]	pba2 L	25	[0, 1/2]	p121	R3
[010]	[100]			[1/4, 3/4]	pc11	R5
				$[\pm s, (\frac{1}{2} \pm s)]$	<i>p</i> 1	R1
[110]	[110]	<i>c</i> 222 L	22	[0, 1/2]	ρ^{222}_{1}	R14
[110]	[110]	[1/4, 1/4,	0]	[1/4, 3/4]	$\rho^{222} [1/4]$] R13
				$[\pm s, (\frac{1}{2} \pm s)]$	p211 [1/4] R3
Orientation	Scanning	Scanning				
$[uv0] = \mathbf{c}$	direction	group				
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$				
Any u, v	Any p, q	p112 L3				

*p*4/*mmm* **No. 6**1

Scanning	Scanning	Location	Section	al
direction \mathbf{d}	group	$s\mathbf{d}$	rod gro	up
	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$)
[010]	pmmm L37	0, 1/2	pmmm	R20
[100]		[s, -s]	p2mm	R18
[110]	cmmm L47	[0, 1/2]	pmmm	R20
[110]		[1/4, 3/4]	ncmm [1/4] R22
		$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	p2mm	R18
Scanning	Scanning			
direction	group			
$\mathbf{d} = [pq0]$	$(\mathbf{c},\mathbf{d},\mathbf{z})$			
Any p, q	p112/m L6			
	direction d [010] [$\bar{1}00$] [$\bar{1}10$] [110] Scanning direction d = [$pq0$]	direction d group	direction d group (c, d, z) sd [010]	direction d group (c, d, z) sd rod group (d, z, c) [010] pmmm L37 0, 1/2 pmmm pmmm p2mm [100] cmmm L47 [0, 1/2] pmmm pmmm pmm [110] cmmm L47 [1/4, 3/4] pcmm [1/4] pcmm [1/4 [±s, ($\frac{1}{2} \pm s$)] p2mm Scanning direction direction group d= [pq0] (c, d, z)

*p*4/*nbm* **No. 62**

Orientation	Scanning	Scannir	_	Location	Sectiona	
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group		$s\mathbf{d}$	rod grou	- 1
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$	2)		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$	
[100]	[010]	pban I	L39	[0, 1/2]	$\rho^{2/c11}$	R7
[010]	[100]			[1/4, 3/4]		R13
				$[\pm s, (\frac{1}{2} \pm s)]$	$ \mu^{211} [1/4] $	R3
[110]	[110]	cmme I	L48	[0, 1/2]	pccm	R21
				[1/4, 3/4]	pmcm [1/4]	R22
				$[\pm s, (\frac{1}{2} \pm s)]$	$\rho 2cm$	R19
[110]	[110]	cmme I	L48	[0, 1/2]	ртст	R22
		[1/4, 1/4	,0]	[1/4, 3/4]	$\rho ccm [1/4]$	R21
				$[\pm s, (\frac{1}{2} \pm s)]$	p2cm	R19

Orientation	Scanning	Scanning
$[uv0] = \mathbf{c}$	direction	group
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
Odd u, odd v	Any p, q	p112/a L7
Even u OR even v	$\mathrm{Odd}\; p,q$	p112/b L7
Even u , odd v	Even q	p112/n L7
Odd u , even v	Even p	

*p*4/*mbm* **No. 63**

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	Scanning group	Location sd	Sectional rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pbam L44	[0, 1/2]	$\rho 12/m1$ R6
[010]	[100]		[1/4, 3/4]	$\rho cm2_1$ R17
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	$\rho 1m1$ R4
[110]	[110]	cmmm L47	[0, 1/2]	pcmm R22
[110]	[110]	[1/4, 1/4, 0]	[1/4, 3/4]	pmmm [1/4] R20
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	<i>ρ</i> 2 <i>mm</i> [1/4] R18
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p112/m L6		

*p*4/*nmm* **No. 64**

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	pmmn L46	[0, 1/2]	$\rho 112_1/m$ R12
[010]	[100]		[1/4, 3/4]	pm2m [1/4] R18
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	ρ11m [1/4] R10
[110]	[110]	cmme L48	[0, 1/2]	pmcm R22
		[1/4, 1/4, 0]	[1/4, 3/4]	pccm [1/4] R21
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	<i>ρ2cm</i> R19
[110]	[110]	cmme L48	[0, 1/2]	pccm R21
			[1/4, 3/4]	pmcm [1/4] R22
			$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	<i>ρ2cm</i> R19

Orientation	Scanning	Scanning
$[uv0] = \mathbf{c}$	direction	group
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
Odd u, odd v	Any p, q	p112/a L7
Even u OR even v	$\mathrm{Odd}\; p,q$	p112/b L7
Even u , odd v	Even q	p112/n L7
Odd u , even v	Even p	

*p*3 **No. 65**

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$	Location sd	Sectional rod group (d, z, c)
[100] [010] [110] [110] [120] [210]	[010] [100] [100] [100] [010] [100]	p1 L1	S	ρ1 R1
Orientation $[uv0] = \mathbf{c}$ Any u, v	Scanning direction $\mathbf{d} = [pq0]$ Any p, q	Scanning group (c , d , z) <i>p</i> 1 L1		

$p\bar{3}$ No. 66

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction d	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	$p\bar{1}$ L2	0, 1/2	$\rho \bar{1}$ R2
[010]	[100]		[s,-s]	/n 1 R1
[110]	[100]			
[110]	[100]			
[120]	[010]			
[210]	[100]			
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c},\mathbf{d},\mathbf{z})$		
Any u, v	Any p, q	$p\bar{1}$ L2		

p312 No. 67

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction d	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[120]	c121 L10	$[s, (s+\frac{1}{2})]$	p211 R3
[010]	[210]		_	
[110]	[110]			
[110]	[110]	c211 L10	[0, 1/2]	ρ112 R8
[120]	[100]		[1/4, 3/4]	/ 112 ₁ R9
[210]	[010]		$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	ρ1 R1
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	<i>p</i> 1 L1		

*p*321 **No. 68**

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	Scanning group	$\begin{array}{c} \text{Location} \\ s\mathbf{d} \end{array}$	Sectional rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[120]	c211 L10	[0, 1/2]	ρ112 R8
[010]	[210]		[1/4, 3/4]	/ 112 ₁ R9
[110]	[110]		$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	ρ1 R1
[110]	[110]	c121 L10	$[s, (s+\frac{1}{2})]$	ρ211 R3
[120]	[100]		_	
[210]	[010]			
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	<i>p</i> 1 L1		

*p*3*m*1 **No. 69**

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction d	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[120]	cm11 L13	$[s, (s+\frac{1}{2})]$	ρ11m R10
[010]	[210]			
[110]	[110]			
[110]	[110]	c1m1 L13	[0, 1/2]	ρm11 R4
[120]	[100]		[1/4, 3/4]	pc11 R5
[210]	[010]		$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	ρ1 R1
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	<i>p</i> 1 L1		

*p*31*m* No. 70

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	Scanning	Location sd	Sectional rod group
[#///]	arrection a	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$	J.G.	$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[120]	c1m1 L13	[0, 1/2]	ρm11 R4
[010]	$[\bar{2}\bar{1}0]$		[1/4, 3/4]	pc11 R5
[110]	[110]		$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	ρ1 R1
[110]	[110]	cm11 L13	$[s, (s+\frac{1}{2})]$	ρ11m R10
[120]	[100]			
[210]	[010]			
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	<i>p</i> 1 L1		

$p\bar{3}1m$ No. 71

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$	$\begin{array}{c} \text{Location} \\ s\mathbf{d} \end{array}$	Sectional rod group (d, z, c)	
[100] [010] [110]	[120] [210] [110]	c12/m1 L18	$[0, 1/2] [1/4, 3/4] [\pm s, (\frac{1}{2} \pm s)]$	ρ2/m11 ρ2/c11 [1/4] ρ211	R6 R7 R3
[1Ī0] [120] [210]	[110] [100] [010]	c2/m11 L18	$ \begin{array}{c c} \hline [0, 1/2] \\ [1/4, 3/4] \\ [\pm s, (\frac{1}{2} \pm s)] \end{array} $	ρ112/m ρ112 ₁ /m [1/4] ρ11m	R11 R12 R10

Orientation	Scanning	Scanning
$[uv0] = \mathbf{c}$	direction	group
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
Any u, v	Any p, q	<i>p</i> 1 L2

$p\bar{3}m1$ No. 72

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	Scanning group	Location sd	Sectional rod group	
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$	
[100]	[120]	c2/m11 L18	[0, 1/2]	p112/m	R11
[010]	[210]		[1/4, 3/4]	$\rho 112_1/m [1/4]$	R12
[110]	[110]		$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	$\rho 11m$	R10
[110]	[110]	c12/m1 L18	[0, 1/2]	$\rho 2/m11$	R6
[120]	[100]		[1/4, 3/4]	$\rho^{2/c11}[1/4]$	R7
[210]	[010]		$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	p211	R3

Orientation	Scanning	Scanning
$[uv0] = \mathbf{c}$	direction	group
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$
Any u, v	Any p, q	$p\bar{1}$ L2

 $\mathbf{d} = [pq0]$

Any p, q

p6 No. 73

Any u, v

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	Scanning group	$\begin{array}{c} \text{Location} \\ s\mathbf{d} \end{array}$	Sectional rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	p112 L3	0, 1/2	ρ121 R3
[010]	[100]		[s, -s]	ρ_1 R1
[110]	[100]			
[110]	[100]			
[120]	[010]			
[210]	[100]			
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
I .	1 -	I .		

 $(\mathbf{c}, \mathbf{d}, \mathbf{z})$

p112 L3

$p\bar{6}$ No. 74

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	$ \begin{array}{c c} Scanning \\ group \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array} $	Location sd	$ \begin{array}{c} \text{Sectional} \\ \text{rod group} \\ (\mathbf{d}, \mathbf{z}, \mathbf{c}) \end{array} $
[100] [010] [110] [110] [120] [210]	[010] [100] [100] [100] [010] [100]	p11m L4	S	ρ1m1 R4
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group (c, d, z)		
Any u, v	Any p, q	p11m L4		

*p*6/*m* No. **7**5

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$	Location sd	Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100] [010] [110] [110] [120] [210]	[010] [100] [100] [100] [010] [100]	p112/m L6	0, 1/2 [s, -s]	ρ12/m1 R6 ρ1m1 R4
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		
Any u, v	Any p, q	p112/m L6		

p622 No. 76

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[120]	c222 L22	[0, 1/2]	p222 R13
[010]	[210]		[1/4, 3/4]	
[110]	[110]		$[\pm s, (\frac{1}{2} \pm s)]$	p211 R3
[110]	[110]		_	
[120]	[100]			
[210]	[010]			
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p112 L3		

p6mm No. 77

Orientation $[uvw] = \mathbf{c}$	Scanning direction d	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$	$\begin{array}{c} \text{Location} \\ s\mathbf{d} \end{array}$	Sectional rod group (d, z, c)
[100] [010] [110] [110] [120] [210]	[120] [210] [110] [110] [100] [010]	cmm2 L26	$ \begin{bmatrix} 0, 1/2 \\ 1/4, 3/4 \\ [\pm s, (\frac{1}{2} \pm s)] \end{bmatrix} $	ρm2m R18 ρc2m R19 ρ11m R10
Orientation $[uv0] = \mathbf{c}$ Any u, v	Scanning direction $\mathbf{d} = [pq0]$ Any p, q	Scanning group (c , d , z) <i>p</i> 112 L3		

$p\bar{6}m2$ No. 78

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction d	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[120]	<i>cm</i> 2 <i>m</i> L35	$[s, (s+\frac{1}{2})]$	p2mm R18
[010]	[210]		_	
[110]	[110]			
[110]	[110]	<i>c</i> 2 <i>mm</i> L35	[0, 1/2]	pmm2 R15
[120]	[100]		[1/4, 3/4]	$\rho cm2_1 R17$
[210]	[010]		$\left[\pm s, (\frac{1}{2} \pm s)\right]$	ρ1m1 R4
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p11m L4		

$p\bar{6}2m$ No. 79

$ \begin{array}{c} \text{Orientation} \\ [uvw] = \mathbf{c} \end{array} $	Scanning direction d	Scanning group (c, d, z)	Location sd	Sectional rod group (d, z, c)
[100] [010] [110]	[120] [210] [110]	c2mm L35	$ \begin{bmatrix} 0, 1/2 \\ 1/4, 3/4 \\ [\pm s, (\frac{1}{2} \pm s)] \end{bmatrix} $	ρmm2 R15 ρcm2 ₁ R17 ρ1m1 R4
[1Ī0] [120] [210]	[110] [100] [010]	cm2m L35	$[s,(s+\frac{1}{2})]$	ρ2mm R18
$ \begin{array}{c} \text{Orientation} \\ [uv0] = \mathbf{c} \end{array} $	Scanning direction $\mathbf{d} = [pq0]$	$\begin{array}{c} \text{Scanning} \\ \text{group} \\ (\mathbf{c}, \mathbf{d}, \mathbf{z}) \end{array}$		
Any u, v	Any p, q	p11m L4		

*p*6/*mmm* **No.** 80

Orientation	Scanning	Scanning	Location	Sectional
$[uvw] = \mathbf{c}$	direction \mathbf{d}	group	$s\mathbf{d}$	rod group
		$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		$(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[120]	cmmm L47	[0, 1/2]	pmmm R20
[010]	[210]		[1/4, 3/4]	pcmm [1/4] R22
[110]	[110]		$\left[\pm s, \left(\frac{1}{2} \pm s\right)\right]$	$\rho 2mm$ R18
[110]	[110]			
[120]	[100]			
[210]	[010]			
Orientation	Scanning	Scanning		
$[uv0] = \mathbf{c}$	direction	group		
	$\mathbf{d} = [pq0]$	$(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any u, v	Any p, q	p112/m L6		