Table 1.6.4.20
Reflection conditions and possible space groups with Bravais lattice *hP* and Laue class 6/*mmm*; *hki* are permutable; Patterson symmetry *P*6/*mmm*

Reflection conditions			Space group	No.	Space group	No.	Space group	No.
$hh\bar{2}\bar{h}l$	$h\bar{h}0l$	$000l$						
			***P*622** $P\bar{6}2m$	177 189	$P6mm$ $P6/mmm$	183 191	$P\bar{6}m2$	187
		l	***P*6$_3$22**	182				
		$l = 3n$	***P*6$_2$22**	180	***P*6$_4$22**	181		
		$l = 6n$	***P*6$_1$22**	178	***P*6$_5$22**	179		
l		l	$P6_3mc$	186	$P\bar{6}2c$	190	$P6_3/mmc$	194
	l	l	$P6_3cm$	185	$P\bar{6}c2$	188	$P6_3/mcm$	193
l	l	l	$P6cc$	184	$P6/mcc$	192		

Table 1.6.4.21
Reflection conditions and possible space groups with Bravais lattice *hR* and Laue class $\bar{3}$ (hexagonal axes); *hki* are permutable; Patterson symmetry $R\bar{3}$; Ov = obverse setting; Rv = reverse setting

Reflection conditions						Space group	No.	Space group	No.	
hkil	*hki*0	$hh\bar{2}\bar{h}l$	$h\bar{h}0l$	$000l$	$h\bar{h}00$					
$-h+k+l=3n$	$-h+k=3n$	$l=3n$	$h+l=3n$	$l=3n$	$h=3n$	***R*3**	146	$R\bar{3}$	148	Ov
$h-k+l=3n$	$h-k=3n$	$l=3n$	$-h+l=3n$	$l=3n$	$h=3n$	***R*3**	146	$R\bar{3}$	148	Rv

Table 1.6.4.22
Reflection conditions and possible space groups with Bravais lattice *hR* and Laue class $\bar{3}m$ (hexagonal axes); *hki* are permutable; Patterson symmetry $R\bar{3}m$; Ov = obverse setting; Rv = reverse setting

Reflection conditions						Space group	No.	Space group	No.	Space group	No.	
hkil	*hki*0	$hh\bar{2}\bar{h}l$	$h\bar{h}0l$	$000l$	$h\bar{h}00$							
$-h+k+l=3n$	$-h+k=3n$	$l=3n$	$h+l=3n$	$l=3n$	$h=3n$	***R*32**	155	$R3m$	160	$R\bar{3}m$	166	Ov
$-h+k+l=3n$	$-h+k=3n$	$l=3n$	$h+l=3n, l=2m$	$l=6n$	$h=3n$	$R3c$	161	$R\bar{3}c$	167			Ov
$h-k+l=3n$	$h-k=3n$	$l=3n$	$-h+l=3n$	$l=3n$	$h=3n$	***R*32**	155	$R3m$	160	$R\bar{3}m$	166	Rv
$h-k+l=3n$	$h-k=3n$	$l=3n$	$-h+l=3n, l=2m$	$l=6n$	$h=3n$	$R3c$	161	$R\bar{3}c$	167			Rv

Table 1.6.4.23
Reflection conditions and possible space groups with Bravais lattice *hR* and Laue class $\bar{3}$ (rhombohedral axes); *hkl* are permutable; Patterson symmetry $R\bar{3}$

Reflection conditions		Space group	No.	Space group	No.
hhl	*hhh*				
		***R*3**	146	$R\bar{3}$	148

Table 1.6.4.24
Reflection conditions and possible space groups with Bravais lattice *hR* and Laue class $\bar{3}m$ (rhombohedral axes); *hkl* are permutable; Patterson symmetry $R\bar{3}m$

Reflection conditions		Space group	No.	Space group	No.	Space group	No.
hhl	*hhh*						
		***R*32**	155	$R3m$	160	$R\bar{3}m$	166
l	h	$R3c$	161	$R\bar{3}c$	167		