

1. GENERAL RELATIONSHIPS AND TECHNIQUES

Table A1.4.3.7. Cubic space groups

The symbols appearing in this table are related to the pqr representation used with the orthorhombic space groups as follows: Each of the symbols defined below is a sum of three pqr terms, where the order of *hkl* is fixed in each of the three terms and that of *xyz* is permuted.

This table and parts of Table A1.4.3.6 (rhombohedral space groups referred to rhombohedral axes) are given in terms of the following two symbols:

$$\text{Epqr} = p(hx)q(ky)r(lz) + p(hy)q(kz)r(lx) + p(hz)q(kx)r(ly) \quad (\text{A1.4.3.7})$$

and

$$\text{Opqr} = p(hx)q(kz)r(ly) + p(hz)q(ky)r(lx) + p(hy)q(kx)r(lz), \quad (\text{A1.4.3.8})$$

where *p*, *q* and *r* can each be a sine or a cosine, and the factor 2π has been absorbed in the abbreviations (see text). As in Tables A1.4.3.1–A1.4.3.6, cosine and sine are abbreviated by *c* and *s*, respectively. The permutation of the coordinates is even in *Epqr* and odd in *Opqr*.

Conditions for vanishing symbols:

$\text{Epqr} = \text{Opqr} = 0$ if at least one of *p*, *q*, *r* is a sine and the index *h*, *k* or *l* in its argument is zero,

$$\text{Eccc} - \text{Occc} = 0 \text{ if } |h| = |k| \text{ (or } |k| = |l| \text{ or } |l| = |h|),$$

$$\text{Esss} - \text{Osss} = 0 \text{ if } |h| = |k| \text{ (or } |k| = |l| \text{ or } |l| = |h|),$$

$$\text{Ecsc} - \text{Ocsc} = \text{Escs} - \text{Oscs} = 0 \text{ if } |k| = |l|,$$

$$\text{Escs} - \text{Oscs} = \text{Ecsc} - \text{Ocsc} = 0 \text{ if } |l| = |h| \text{ and}$$

$$\text{Essc} - \text{Ossc} = \text{Eccs} - \text{Occs} = 0 \text{ if } |h| = |k|.$$

*P*23 [No. 195]

<i>hkl</i>	<i>A</i>	<i>B</i>
All	4Eccc	−4Esss

*F*23 [No. 196]

<i>hkl</i>	<i>A</i>	<i>B</i>
All	16Eccc	−16Esss

*I*23 [No. 197]

<i>hkl</i>	<i>A</i>	<i>B</i>
All	8Eccc	−8Esss

*P*2₁3 [No. 198]

<i>h + k</i>	<i>k + l</i>	<i>h + l</i>	<i>A</i>	<i>B</i>
2 <i>n</i>	2 <i>n</i>	2 <i>n</i>	4Eccc	−4Esss
2 <i>n</i>	2 <i>n</i> + 1	2 <i>n</i> + 1	−4Ecsc	4Escs
2 <i>n</i> + 1	2 <i>n</i>	2 <i>n</i> + 1	−4Escs	4Ecsc
2 <i>n</i> + 1	2 <i>n</i> + 1	2 <i>n</i>	−4Essc	4Eccs

*I*2₁3 [No. 199]

<i>h + k</i>	<i>k + l</i>	<i>h + l</i>	<i>A</i>	<i>B</i>
2 <i>n</i>	2 <i>n</i>	2 <i>n</i>	8Eccc	−8Esss
2 <i>n</i> + 1	2 <i>n</i>	2 <i>n</i> + 1	−8Escs	8Ecsc
2 <i>n</i> + 1	2 <i>n</i> + 1	2 <i>n</i>	−8Essc	8Eccs
2 <i>n</i>	2 <i>n</i> + 1	2 <i>n</i> + 1	−8Ecsc	8Escs

Pm $\bar{3}$ [No. 200]

<i>hkl</i>	<i>A</i>	<i>B</i>
All	8Eccc	0

Pn $\bar{3}$ (Origin 1) [No. 201]

<i>h + k + l</i>	<i>A</i>	<i>B</i>
2 <i>n</i>	8Eccc	0
2 <i>n</i> + 1	0	−8Esss

1.4. SYMMETRY IN RECIPROCAL SPACE

Table A1.4.3.7 (cont.)

$Pn\bar{3}$ (Origin 2) [No. 201] ($B = 0$ for all h, k, l)

$h + k$	$k + l$	$h + l$	A
$2n$	$2n$	$2n$	8Eccc
$2n$	$2n + 1$	$2n + 1$	-8Escc
$2n + 1$	$2n$	$2n + 1$	-8Ecsc
$2n + 1$	$2n + 1$	$2n$	-8Escs

$Fm\bar{3}$ [No. 202]

hkl	A	B
All	32Eccc	0

$Fd\bar{3}$ (Origin 1) [No. 203]

$h + k + l$	A	B
$4n$	32Eccc	0
$4n + 1$	16(Eccc - Esss)	A
$4n + 2$	0	-32Esss
$4n + 3$	16(Eccc + Esss)	$-A$

$Fd\bar{3}$ (Origin 2) [No. 203] ($B = 0$ for all h, k, l)

$h + k$	$k + l$	$h + l$	A
$4n$	$4n$	$4n$	32Eccc
$4n$	$4n + 2$	$4n + 2$	-32Escc
$4n + 2$	$4n$	$4n + 2$	-32Ecsc
$4n + 2$	$4n + 2$	$4n$	-32Escs
$4n + 2$	$4n + 2$	$4n + 2$	-16(Eccc + Ecsc + Escs + Escc)
$4n + 2$	$4n$	$4n$	16(Eccc - Ecsc - Escs + Escc)
$4n$	$4n + 2$	$4n$	16(Eccc + Ecsc - Escs - Escc)
$4n$	$4n$	$4n + 2$	16(Eccc - Ecsc + Escs - Escc)

$Im\bar{3}$ [No. 204]

hkl	A	B
All	16Eccc	0

$Pa\bar{3}$ [No. 205] ($B = 0$ for all h, k, l)

$h + k$	$k + l$	$h + l$	A
$2n$	$2n$	$2n$	8Eccc
$2n$	$2n + 1$	$2n + 1$	-8Ecsc
$2n + 1$	$2n$	$2n + 1$	-8Escs
$2n + 1$	$2n + 1$	$2n$	-8Escc

$Ia\bar{3}$ [No. 206] ($B = 0$ for all h, k, l)

$h + k$	$k + l$	$h + l$	A
$2n$	$2n$	$2n$	16Eccc
$2n$	$2n + 1$	$2n + 1$	-16Ecsc
$2n + 1$	$2n$	$2n + 1$	-16Escs
$2n + 1$	$2n + 1$	$2n$	-16Escc

$P432$ [No. 207]

hkl	A	B
All	4(Eccc + Occc)	-4(Esss - Osss)

$P4_232$ [No. 208]

$h + k + l$	A	B
$2n$	4(Eccc + Occc)	-4(Esss - Osss)
$2n + 1$	4(Eccc - Occc)	-4(Esss + Osss)

1. GENERAL RELATIONSHIPS AND TECHNIQUES

Table A1.4.3.7 (*cont.*)

F432 [No. 209]

<i>hkl</i>	A	B
All	16(Eccc + Occc)	-16(Esss - Osss)

F4₁32 [No. 210]

<i>h + k + l</i>	A	B
4 <i>n</i>	16(Eccc + Occc)	-16(Esss - Osss)
4 <i>n</i> + 1	16(Eccc - Osss)	-16(Esss - Occc)
4 <i>n</i> + 2	16(Eccc - Occc)	-16(Esss + Osss)
4 <i>n</i> + 3	16(Eccc + Osss)	-16(Esss + Occc)

I432 [No. 211]

<i>hkl</i>	A	B
All	8(Eccc + Occc)	-8(Esss - Osss)

P4₃32 [No. 212] (enantiomorphous to P4₁32 [No. 213])

<i>h + k</i>	<i>k + l</i>	<i>h + l</i>	<i>h + k + l</i>	A	B
2 <i>n</i>	2 <i>n</i>	2 <i>n</i>	4 <i>n</i>	4(Eccc + Occc)	-4(Esss - Osss)
2 <i>n</i>	2 <i>n</i> + 1	2 <i>n</i> + 1	4 <i>n</i>	-4(Ecss + Ossc)	4(Ecsc - Occs)
2 <i>n</i> + 1	2 <i>n</i>	2 <i>n</i> + 1	4 <i>n</i>	-4(Ecsc + Ossc)	4(Ecsc - Occs)
2 <i>n</i> + 1	2 <i>n</i> + 1	2 <i>n</i>	4 <i>n</i>	-4(Essc + Occs)	4(Ecsc - Occs)
2 <i>n</i>	2 <i>n</i>	2 <i>n</i>	4 <i>n</i> + 1	4(Eccc - Osss)	-4(Esss - Occc)
2 <i>n</i>	2 <i>n</i> + 1	2 <i>n</i> + 1	4 <i>n</i> + 1	-4(Ecss - Occs)	4(Ecsc - Occs)
2 <i>n</i> + 1	2 <i>n</i>	2 <i>n</i> + 1	4 <i>n</i> + 1	-4(Ecsc - Occs)	4(Ecsc - Occs)
2 <i>n</i> + 1	2 <i>n</i> + 1	2 <i>n</i>	4 <i>n</i> + 1	-4(Essc - Occs)	4(Ecsc - Occs)
2 <i>n</i>	2 <i>n</i>	2 <i>n</i>	4 <i>n</i> + 2	4(Eccc - Occc)	-4(Esss + Osss)
2 <i>n</i>	2 <i>n</i> + 1	2 <i>n</i> + 1	4 <i>n</i> + 2	-4(Ecss - Occs)	4(Ecsc + Occs)
2 <i>n</i> + 1	2 <i>n</i>	2 <i>n</i> + 1	4 <i>n</i> + 2	-4(Ecsc - Occs)	4(Ecsc + Occs)
2 <i>n</i> + 1	2 <i>n</i> + 1	2 <i>n</i>	4 <i>n</i> + 2	-4(Essc - Occs)	4(Ecsc + Occs)
2 <i>n</i>	2 <i>n</i>	2 <i>n</i>	4 <i>n</i> + 3	4(Eccc + Osss)	-4(Esss + Occc)
2 <i>n</i>	2 <i>n</i> + 1	2 <i>n</i> + 1	4 <i>n</i> + 3	-4(Ecss + Occs)	4(Ecsc + Occs)
2 <i>n</i> + 1	2 <i>n</i>	2 <i>n</i> + 1	4 <i>n</i> + 3	-4(Ecsc + Occs)	4(Ecsc + Occs)
2 <i>n</i> + 1	2 <i>n</i> + 1	2 <i>n</i>	4 <i>n</i> + 3	-4(Essc + Occs)	4(Ecsc + Occs)

P4₁32 [No. 213] (enantiomorphous to P4₃32 [No. 212])

<i>h</i>	<i>k</i>	<i>l</i>	<i>h + k + l</i>	A	B
2 <i>n</i>	2 <i>n</i>	2 <i>n</i>	4 <i>n</i>	4(Eccc + Occc)	-4(Esss - Osss)
2 <i>n</i>	2 <i>n</i> + 1	2 <i>n</i> + 1	4 <i>n</i>	-4(Ecsc + Ossc)	4(Ecsc - Occs)
2 <i>n</i> + 1	2 <i>n</i>	2 <i>n</i> + 1	4 <i>n</i>	-4(Essc + Occs)	4(Ecsc - Occs)
2 <i>n</i> + 1	2 <i>n</i> + 1	2 <i>n</i>	4 <i>n</i>	-4(Ecss + Ossc)	4(Ecsc - Occs)
2 <i>n</i> + 1	2 <i>n</i> + 1	2 <i>n</i> + 1	4 <i>n</i> + 1	4(Eccc + Osss)	-4(Esss + Occc)
2 <i>n</i>	2 <i>n</i>	2 <i>n</i> + 1	4 <i>n</i> + 1	-4(Ecss + Occs)	4(Ecsc + Occs)
2 <i>n</i> + 1	2 <i>n</i>	2 <i>n</i>	4 <i>n</i> + 1	-4(Ecsc + Occs)	4(Ecsc + Occs)
2 <i>n</i>	2 <i>n</i> + 1	2 <i>n</i>	4 <i>n</i> + 1	-4(Essc + Occs)	4(Ecsc + Occs)
2 <i>n</i>	2 <i>n</i>	2 <i>n</i>	4 <i>n</i> + 2	4(Eccc - Occc)	-4(Esss + Osss)
2 <i>n</i>	2 <i>n</i> + 1	2 <i>n</i> + 1	4 <i>n</i> + 2	-4(Ecsc - Ossc)	4(Ecsc + Occs)
2 <i>n</i> + 1	2 <i>n</i>	2 <i>n</i> + 1	4 <i>n</i> + 2	-4(Essc - Occs)	4(Ecsc + Occs)
2 <i>n</i> + 1	2 <i>n</i> + 1	2 <i>n</i>	4 <i>n</i> + 2	-4(Ecss - Ossc)	4(Ecsc + Occs)
2 <i>n</i> + 1	2 <i>n</i> + 1	2 <i>n</i> + 1	4 <i>n</i> + 3	4(Eccc - Osss)	-4(Esss - Occc)
2 <i>n</i>	2 <i>n</i>	2 <i>n</i> + 1	4 <i>n</i> + 3	-4(Ecss - Occs)	4(Ecsc - Occs)
2 <i>n</i> + 1	2 <i>n</i>	2 <i>n</i>	4 <i>n</i> + 3	-4(Ecsc - Occs)	4(Ecsc - Occs)
2 <i>n</i>	2 <i>n</i> + 1	2 <i>n</i>	4 <i>n</i> + 3	-4(Essc - Occs)	4(Ecsc - Occs)

I4₁32 [No. 214]

<i>h</i>	<i>k</i>	<i>l</i>	<i>h + k + l</i>	A	B
2 <i>n</i>	2 <i>n</i>	2 <i>n</i>	4 <i>n</i>	8(Eccc + Occc)	-8(Esss - Osss)
2 <i>n</i>	2 <i>n</i> + 1	2 <i>n</i> + 1	4 <i>n</i>	-8(Ecsc + Ossc)	8(Ecsc - Occs)
2 <i>n</i> + 1	2 <i>n</i>	2 <i>n</i> + 1	4 <i>n</i>	-8(Essc + Occs)	8(Ecsc - Occs)
2 <i>n</i> + 1	2 <i>n</i> + 1	2 <i>n</i>	4 <i>n</i>	-8(Ecss + Ossc)	8(Ecsc - Occs)

1.4. SYMMETRY IN RECIPROCAL SPACE

Table A1.4.3.7 (cont.)

h	k	l	$h + k + l$	A	B
$2n$	$2n$	$2n$	$4n + 2$	$8(\text{Eccc} - \text{Occc})$	$-8(\text{Esss} + \text{Osss})$
$2n$	$2n + 1$	$2n + 1$	$4n + 2$	$-8(\text{Escs} - \text{Ossc})$	$8(\text{Escs} + \text{Ocss})$
$2n + 1$	$2n$	$2n + 1$	$4n + 2$	$-8(\text{Essc} - \text{Ocsc})$	$8(\text{Eccs} + \text{Oscs})$
$2n + 1$	$2n + 1$	$2n$	$4n + 2$	$-8(\text{Ecsc} - \text{Oscs})$	$8(\text{Escs} + \text{Ocss})$

$P\bar{4}3m$ [No. 215]

hkl	A	B
All	$4(\text{Eccc} + \text{Occc})$	$-4(\text{Esss} + \text{Osss})$

$F\bar{4}3m$ [No. 216]

hkl	A	B
All	$16(\text{Eccc} + \text{Occc})$	$-16(\text{Esss} + \text{Osss})$

$I\bar{4}3m$ [No. 217]

hkl	A	B
All	$8(\text{Eccc} + \text{Occc})$	$-8(\text{Esss} + \text{Osss})$

$P\bar{4}3n$ [No. 218]

$h + k + l$	A	B
$2n$	$4(\text{Eccc} + \text{Occc})$	$-4(\text{Esss} + \text{Osss})$
$2n + 1$	$4(\text{Eccc} - \text{Occc})$	$-4(\text{Esss} - \text{Osss})$

$F\bar{4}3c$ [No. 219]

$h + k + l$	A	B
$2n$	$16(\text{Eccc} + \text{Occc})$	$-16(\text{Esss} + \text{Osss})$
$2n + 1$	$16(\text{Eccc} - \text{Occc})$	$-16(\text{Esss} - \text{Osss})$

$I\bar{4}3d$ [No. 220]

h	k	l	$h + k + l$	A	B
$2n$	$2n$	$2n$	$4n$	$8(\text{Eccc} + \text{Occc})$	$-8(\text{Esss} + \text{Osss})$
$2n$	$2n + 1$	$2n + 1$	$4n$	$-8(\text{Escs} + \text{Ossc})$	$8(\text{Escs} + \text{Ocss})$
$2n + 1$	$2n$	$2n + 1$	$4n$	$-8(\text{Essc} + \text{Ocsc})$	$8(\text{Eccs} + \text{Oscs})$
$2n + 1$	$2n + 1$	$2n$	$4n$	$-8(\text{Ecsc} + \text{Oscs})$	$8(\text{Escs} + \text{Ocss})$
$2n$	$2n$	$2n$	$4n + 2$	$8(\text{Eccc} - \text{Occc})$	$-8(\text{Esss} - \text{Osss})$
$2n$	$2n + 1$	$2n + 1$	$4n + 2$	$-8(\text{Escs} - \text{Ossc})$	$8(\text{Escs} - \text{Ocss})$
$2n + 1$	$2n$	$2n + 1$	$4n + 2$	$-8(\text{Essc} - \text{Ocsc})$	$8(\text{Eccs} - \text{Oscs})$
$2n + 1$	$2n + 1$	$2n$	$4n + 2$	$-8(\text{Ecsc} - \text{Oscs})$	$8(\text{Escs} - \text{Ocss})$

$Pm\bar{3}m$ [No. 221]

hkl	A	B
All	$8(\text{Eccc} + \text{Occc})$	0

$Pn\bar{3}n$ (Origin 1) [No. 222]

$h + k + l$	A	B
$2n$	$8(\text{Eccc} + \text{Occc})$	0
$2n + 1$	0	$-8(\text{Esss} - \text{Osss})$

$Pn\bar{3}n$ (Origin 2) [No. 222] ($B = 0$ for all h, k, l)

h	k	l	A
$2n$	$2n$	$2n$	$8(\text{Eccc} + \text{Occc})$
$2n$	$2n + 1$	$2n + 1$	$-8(\text{Ecsc} + \text{Ossc})$
$2n + 1$	$2n$	$2n + 1$	$-8(\text{Escs} + \text{Ossc})$
$2n + 1$	$2n + 1$	$2n$	$-8(\text{Essc} + \text{Ossc})$
$2n + 1$	$2n + 1$	$2n + 1$	$8(\text{Eccc} - \text{Occc})$
$2n + 1$	$2n$	$2n$	$-8(\text{Ecsc} - \text{Ossc})$
$2n$	$2n + 1$	$2n$	$-8(\text{Escs} - \text{Ossc})$
$2n$	$2n$	$2n + 1$	$-8(\text{Essc} - \text{Ossc})$

1. GENERAL RELATIONSHIPS AND TECHNIQUES

Table A1.4.3.7 (cont.)

$Pm\bar{3}n$ [No. 223] ($B = 0$ for all h, k, l)

$h + k + l$	A
$2n$	$8(\text{Eccc} + \text{Occc})$
$2n + 1$	$8(\text{Eccc} - \text{Occc})$

$Pn\bar{3}m$ (Origin 1) [No. 224]

$h + k + l$	A	B
$2n$	$8(\text{Eccc} + \text{Occc})$	0
$2n + 1$	0	$-8(\text{Esss} + \text{Osss})$

$Pn\bar{3}m$ (Origin 2) [No. 224] ($B = 0$ for all h, k, l)

$h + k$	$k + l$	$h + l$	A
$2n$	$2n$	$2n$	$8(\text{Eccc} + \text{Occc})$
$2n$	$2n + 1$	$2n + 1$	$-8(\text{Essc} + \text{Ossc})$
$2n + 1$	$2n$	$2n + 1$	$-8(\text{Ecsc} + \text{Ocsc})$
$2n + 1$	$2n + 1$	$2n$	$-8(\text{Escs} + \text{Oscs})$

$Fm\bar{3}m$ [No. 225]

hkl	A	B
All	$32(\text{Eccc} + \text{Occc})$	0

$Fm\bar{3}c$ [No. 226] ($B = 0$ for all h, k, l)

$h + k + l$	A
$2n$	$32(\text{Eccc} + \text{Occc})$
$2n + 1$	$32(\text{Eccc} - \text{Occc})$

$Fd\bar{3}m$ (Origin 1) [No. 227]

$h + k + l$	A	B
$4n$	$32(\text{Eccc} + \text{Occc})$	0
$4n + 1$	$16(\text{Eccc} - \text{Esss} + \text{Occc} - \text{Osss})$	A
$4n + 2$	0	$-32(\text{Esss} + \text{Osss})$
$4n + 3$	$16(\text{Eccc} + \text{Esss} + \text{Occc} + \text{Osss})$	$-A$

$Fd\bar{3}m$ (Origin 2) [No. 227] ($B = 0$ for all h, k, l)

$h + k$	$k + l$	$h + l$	A
$4n$	$4n$	$4n$	$32(\text{Eccc} + \text{Occc})$
$4n$	$4n + 2$	$4n + 2$	$-32(\text{Essc} + \text{Ossc})$
$4n + 2$	$4n$	$4n + 2$	$-32(\text{Ecsc} + \text{Ocsc})$
$4n + 2$	$4n + 2$	$4n$	$-32(\text{Escs} + \text{Oscs})$
$4n + 2$	$4n + 2$	$4n + 2$	$-16(\text{Eccc} + \text{Essc} + \text{Escs} + \text{Essc} + \text{Occc} + \text{Ocsc} + \text{Oscs} + \text{Ossc})$
$4n + 2$	$4n$	$4n$	$16(\text{Eccc} - \text{Essc} - \text{Escs} + \text{Essc} + \text{Occc} - \text{Ocsc} - \text{Oscs} + \text{Ossc})$
$4n$	$4n + 2$	$4n$	$16(\text{Eccc} + \text{Essc} - \text{Escs} - \text{Essc} + \text{Occc} + \text{Ocsc} - \text{Oscs} - \text{Ossc})$
$4n$	$4n$	$4n + 2$	$16(\text{Eccc} - \text{Essc} + \text{Escs} - \text{Essc} + \text{Occc} - \text{Ocsc} + \text{Oscs} - \text{Ossc})$

$Fd\bar{3}c$ (Origin 1) [No. 228]

$h + k + l$	A	B
$4n$	$32(\text{Eccc} + \text{Occc})$	0
$4n + 1$	$16(\text{Eccc} + \text{Esss} - \text{Occc} - \text{Osss})$	$-A$
$4n + 2$	0	$-32(\text{Esss} + \text{Osss})$
$4n + 3$	$16(\text{Eccc} - \text{Esss} - \text{Occc} + \text{Osss})$	A

$Fd\bar{3}c$ (Origin 2) [No. 228] ($B = 0$ for all h, k, l)

$h + k$	$k + l$	$h + l$	A
$4n$	$4n$	$4n$	$32(\text{Eccc} + \text{Occc})$
$4n$	$4n + 2$	$4n + 2$	$-32(\text{Essc} + \text{Ossc})$
$4n + 2$	$4n$	$4n + 2$	$-32(\text{Ecsc} + \text{Ocsc})$
$4n + 2$	$4n + 2$	$4n$	$-32(\text{Escs} + \text{Oscs})$
$4n + 2$	$4n + 2$	$4n + 2$	$-16(\text{Eccc} + \text{Essc} + \text{Escs} + \text{Essc} - \text{Occc} - \text{Ocsc} - \text{Oscs} - \text{Ossc})$

1.4. SYMMETRY IN RECIPROCAL SPACE

Table A1.4.3.7 (cont.)

$h+k$	$k+l$	$h+l$	A
$4n+2$	$4n$	$4n$	$16(\text{Eccc} - \text{Ecss} - \text{Escs} + \text{Essc} - \text{Occc} + \text{Ocsc} + \text{Oscs} - \text{Ossc})$
$4n$	$4n+2$	$4n$	$16(\text{Eccc} + \text{Ecss} - \text{Escs} - \text{Essc} - \text{Occc} - \text{Ocsc} + \text{Oscs} + \text{Ossc})$
$4n$	$4n$	$4n+2$	$16(\text{Eccc} - \text{Ecss} + \text{Escs} - \text{Essc} - \text{Occc} + \text{Ocsc} - \text{Oscs} + \text{Ossc})$

$Im\bar{3}m$ [No. 229]

hkl	A	B
All	$16(\text{Eccc} + \text{Occc})$	0

$Ia\bar{3}d$ [No. 230] ($B = 0$ for all h, k, l)

h	k	l	$h+k+l$	A
$2n$	$2n$	$2n$	$4n$	$16(\text{Eccc} + \text{Occc})$
$2n$	$2n+1$	$2n+1$	$4n$	$-16(\text{Escs} + \text{Ossc})$
$2n+1$	$2n$	$2n+1$	$4n$	$-16(\text{Essc} + \text{Ocsc})$
$2n+1$	$2n+1$	$2n$	$4n$	$-16(\text{Ecss} + \text{Oscs})$
$2n$	$2n$	$2n$	$4n+2$	$16(\text{Eccc} - \text{Occc})$
$2n$	$2n+1$	$2n+1$	$4n+2$	$-16(\text{Escs} - \text{Ossc})$
$2n+1$	$2n$	$2n+1$	$4n+2$	$-16(\text{Essc} - \text{Ocsc})$
$2n+1$	$2n+1$	$2n$	$4n+2$	$-16(\text{Ecss} - \text{Oscs})$