Magnetic Subperiodic Groups[1]

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1. Introduction

The magnetic subperiodic groups, the 31 magnetic frieze group types, the 394 magnetic rod group types, and the 528 magnetic layer group types, are derived and given symbols based on the symbols for the non-magnetic subperiodic groups in Volume E of the *International Tables of Crystallography*. The symbols are constructed in analogy to the Opechowski-Guccione symbols for magnetic space groups. Tables are given which list one group from each type. Each group is specified not only by its symbol but also by explicitly listing the coset representatives of the coset decomposition of the group with respect to its translational subgroup. For magnetic subperiodic groups of the type $\mathbf{M}_T$ and $\mathbf{M}_R$ the subgroup of index two of unprimed elements is explicitly given.

The *subperiodic groups* in the title refer to the frieze groups, two-dimensional groups with one-dimensional translations, rod groups, three-dimensional groups with one-dimensional translations, and layer groups, three-dimensional groups with two-dimensional translations. There are 7, 75, and 80 non-magnetic frieze, rod, and layer group types, respectively (see, e.g. Shubnikov and Koptsik, 1974 or Vol. E of the *International Tables for Crystallography* (1999)). The magnetic frieze groups have been derived by Belov (1956) and the magnetic rod and layer groups by Neronova and Belov (1961) (see also the review by Zamorzaev and Palistrant (1980) and the monograph by Zamorzaev (1976)).

We have re-derived the magnetic subperiodic groups as an extension of the non-magnetic subperiodic groups, basing the symbols for the magnetic subperiodic

group types on the symbols of the non-magnetic subperiodic group types tabulated in Vol. E of the *International Tables for Crystallography* (1999). The form and meaning of the symbols is in analogy to the form and meaning of the Opechowski-Guccione symbols for magnetic space groups which differs, see Section 3.2 below, from form and meaning of the symbols used by Belov, Neronova, & Smirnova (1957).

In distinction from previous listings of only a symbol of each magnetic subperiodic group type, a specification of one group of each type is given. This consists of specifying the coordinate system used, and then relative to the coordinate system, the translational subgroup of the group and a set of coset representatives of the coset decomposition of the group with respect to its translational subgroup. The first part of the symbol of each magnetic subperiodic group specifies the coordinate system and the translational subgroup, see Figures 1. A set of coset representatives, called the *standard set of coset representatives*, is explicitly given for each group.

In Section 2, the concept of *magnetic superfamily* is reviewed. This concept provides for a sub-classification of magnetic subperiodic groups. This is followed, in Section 3, by a detailed explanation of the contents of the tables of the magnetic subperiodic groups.

2. Magnetic Superfamily of Groups

Let **F** denote a crystallographic group type. The *magnetic superfamily* (Opechowski, 1986) of crystallographic groups of type **F** consists of

1) Groups of type **F**.

2) Groups of type **F**1', where "1'" denotes time inversion..

3) Groups of type **F**(**D**)= **D** + (**F** - **D**)1' where **D** is a subgroup of index two of **F**. Groups of this type will also be denoted by **M**.

The third set of groups is divided into two subdivisions:

3a) Groups $\mathbf{M}_T$, where **D** is an equi-translational (*translationengleiche*) subgroup of **F**.

3b) Groups $\mathbf{M}_R$, where **D** is an equi-class (*klassengleiche*) subgroups of **F**.

A survey of the crystallographic groups of the magnetic superfamily of crystallographic groups of type **F** will consist of a listing of a set of coset representatives, of the decomposition of the group with respect to its translational subgroup, of one group from the groups of type **F** and of one group from each of the types **F**1' and **F**(**D**). The symbol for each listed group is used to denote both the group and the group's type. Reference to *the group* **F**, **F**1', or **F**(**D**) will refer to the listed group and to *the group type* **F**, **F**1', or **F**(**D**) to that group's type. The numbers

of magnetic subperiodic group types **F**, **F**1', and **F**(**D**) are:

	F	**F**1'	**F**(**D**)	Total
Frieze Groups	7	7	17	31
Rod Groups	75	75	244	394
Layer Groups	80	80	368	528
			Grand Total	953

3. Tables of Magnetic Subperiodic Groups

The tables of the frieze, rod, and layer groups are given in Tables 1, 2, and 3, respectively. The format of the tables is:

1) Serial number of the magnetic subperiodic group type.

2) Symbol of the magnetic subperiodic group and the group's type.

3) Symbol of the group type of the subgroup **D** of index two of **F** for magnetic subperiodic groups **F**(**D**), and the position and orientation of the group **D** in the coordinate system of the group **F**(**D**) [which is the same as the coordinate system of **F**].

4) A set of coset representatives of the decomposition of the magnetic subperiodic group with respect to its translational subgroup.

3.1 Serial Number

A separate numbering system is used for the frieze, rod, and layer magnetic subperiodic group types. For each, a three part number $N_1.N_2.N_3$ is used. N_1 is a sequential number for the group type to which **F** belongs. It is the same numbering given in Vol. E of the *International Tables for Crystallography* (1999) for the subperiodic group types. N_2 is a sequential numbering of the magnetic subperiodic group types of the superfamily of **F**. Group types **F** always have the assigned number $N_1.1.N_3$, and group types **F**1' the assigned number $N_1.2.N_3$. N_3 is a global sequential numbering of magnetic subperiodic group types.

3.2 Magnetic Subperiodic Group Symbol

The symbol for a group **F** is that symbol for the group type **F** given in Volume E of the *International Tables of Crystallography* (1999). The group **F** is uniquely defined by its translational subgroup and the coset representatives of the coset decomposition of the group with respect to its translational subgroup. The coset representatives which we use to define the group are implied by the explicitly printed set of general equivalent positions given in Vol. E of the *International Tables for Crystallography* (1999). These coset representatives are also given in the tables, see Section 3.4 below. The symbol for a group **F**1' is that of the group type **F** followed by "1'".

The symbol for a group $\mathbf{M}_T = \mathbf{F}(\mathbf{D}) = \mathbf{D} + (\mathbf{F} - \mathbf{D})1'$ is based on the symbol for the group **F**. As **D** is an equi-translational subgroup of **F**, i.e. the translational

subgroup $\mathbf{T}^{\mathbf{M}}{}_{T}$ of the magnetic group $\mathbf{M}_T$ is **T** , the translational subgroup of **F**. The translational part of the group symbol of a $\mathbf{M}_T$ group is then the same as that of the corresponding group **F**. If a number or letter in the rotational part of the symbol of **F** is associated with an element of the group **F** contained in the subgroup **D**, it appears unchanged in the symbol for $\mathbf{M}_T$, if not in **D**, i.e. in **F** - **D**, it appears with a prime to denote that that element in $\mathbf{M}_T$ is coupled with 1'. For example, the magnetic layer group 28.5.171 is a group $\mathbf{M}_T$ whose symbol is $pm2_1'b'$. In this case we have

$$pm2_1'b' = pm11 + (pm2_1b - pm11)1'$$

i.e. **F** = $pm2_1b$ and **D** = pm11. The letter "m" in the symbol for **F** denotes the element $(m_x|000)$ which is contained in **D** and consequently appears unprimed in the symbol for $\mathbf{M}_T$. The symbols "2_1" and "b" denote the elements $(2_y|0½0)$ and $(m_z|0½0)$, respectively, are not contained in **D** and consequently appear primed in the symbol for $\mathbf{M}_T$.

The symbol for a group $\mathbf{M}_R = \mathbf{F}(\mathbf{D}) = \mathbf{D} + (\mathbf{F} - \mathbf{D})1'$ is also based on the symbol for the group **F**. (This is in contradistinction to the “BNS” symbols of $\mathbf{M}_R$ groups (Belov, Neronova, & Smirnova (1957)) where the symbol for a $\mathbf{M}_R$ group is based on the symbol for the group **D**.) As this is an equi-class magnetic group, half the translations of **F** are now coupled with 1' in $\mathbf{M}_R$ and half the translations remain unprimed in $\mathbf{M}_R$. The unprimed translations constitute the translational subgroup $\mathbf{T}^{\mathbf{D}}$ of **D**. We can write the coset decomposition of the translational subgroup **T** of **F** with respect to the translational subgroup $\mathbf{T}^{\mathbf{D}}$ of **D** as

$$\mathbf{T} = \mathbf{T}^{\mathbf{D}} + \mathbf{t}_{\alpha}\,\mathbf{T}^{\mathbf{D}}$$

where $\mathbf{t}_\alpha$ is a translation of **F** which appears primed (coupled with 1') in $\mathbf{M}_R$. The translational subgroup of $\mathbf{M}_R$ can then be written as

$$\mathbf{T}^{\mathbf{M}}{}_R = \mathbf{T}^{\mathbf{D}} + \mathbf{t}_\alpha{}' \mathbf{T}^{\mathbf{D}}$$

Symbols for the translational groups **T**, the translational subgroups $\mathbf{T}^{\mathbf{D}}$ of **T** used in the symbol for $\mathbf{M}_R$ groups, and the choice of the translations $\mathbf{t}_\alpha$ are given in Figures 1.

The symbol for a magnetic group $\mathbf{M}_R = \mathbf{F}(\mathbf{D})$ is based on the symbol of the group **F**, and is also a symbol for the subgroup **D** of unprimed elements. The translational part of the symbol of **F** is replaced by the symbol for the translational subgroup $\mathbf{T}^{\mathbf{D}}$ of **D**. If a coset representative $(R|\tau(R))$ of **T** in **F** appears as the coset representative $(R|\tau(R)+\mathbf{t}_\alpha)$ of $\mathbf{T}^{\mathbf{D}}$ in **D**, then the number or letter corresponding to $(R|\tau(R))$ in the symbol for **F** is primed. If $(R|\tau(R))$ appears unchanged as a coset representative of $\mathbf{T}^{\mathbf{D}}$ in **D**, then the number or letter corresponding to $(R|\tau(R))$ in the symbol for **F** is unchanged. The resulting symbol is a symbol for **D** based on the symbol for **F** and is also a symbol for the magnetic subperiodic group $\mathbf{M}_R = \mathbf{F}(\mathbf{D})$. The symbol specifies not only **D** but also **F**: By deleting the subindex on the translational part of the symbol and the primes on the rotational part one obtains the symbol specifying **F**. Having specified **D** and **F** one has specified the group $\mathbf{M}_R = \mathbf{F}(\mathbf{D})$. For example: Consider the group 19.1.104, **F** = p222:

$$\mathbf{F} = \mathbf{T} + (2_x|000)\mathbf{T} + (2_y|000)\mathbf{T} + (2_z|000)\mathbf{T}$$

The symbol for the $\mathbf{M}_R = \mathbf{F}(\mathbf{D})$ group 19.5.108 is $p_{2a}2'2'2$ and is based on the symbol for **F**. The translational subgroup $\mathbf{T}^{\mathbf{D}}$ of **D** is given by the symbol p_{2a} where $\mathbf{t}_\alpha = \mathbf{a}$.

The two "2"'s in $p_{2a}2'2'2$ denote that the coset representatives $(2_x|000)$ and $(2_y|000)$of **T** in **F** appear as the coset representatives $(2_x|100)$ and $(2_y|100)$ of $\mathbf{T}^{\mathbf{D}}$ in **D**. As the third "2" is unprimed, the coset representative $(2_z|000)$ remains unchanged. We have then the subgroup:

$$\mathbf{D} = \mathbf{T}^{\mathbf{D}} + (2_x|100)\mathbf{T}^{\mathbf{D}} + (2_y|100)\mathbf{T}^{\mathbf{D}} + (2_z|000)\mathbf{T}^{\mathbf{D}}$$

We note that these same coset representatives of $\mathbf{T}^{\mathbf{D}}$ in **D** are also the coset representatives of $\mathbf{T}^{\mathbf{M}}{}_R$ in $\mathbf{M}_R$.

$$\mathbf{M}_R = \mathbf{T}^{\mathbf{M}}{}_R + (2_x|100)\mathbf{T}^{\mathbf{M}}{}_R + (2_y|100)\mathbf{T}^{\mathbf{M}}{}_R + (2_z|000)\mathbf{T}^{\mathbf{M}}{}_R$$

Since $\mathbf{T}^{\mathbf{M}}{}_{\mathbf{R}} = \mathbf{T}^{\mathbf{D}} + \mathbf{t}_\alpha' \mathbf{T}^{\mathbf{D}}$ it follows that:

$$\mathbf{M}_R = \mathbf{D} + (\mathbf{F}\text{-}\mathbf{D})1'$$

$$\mathbf{M}_R = \mathbf{T}^{\mathbf{D}} + (2_x|100)\mathbf{T}^{\mathbf{D}} + (2_y|100)\mathbf{T}^{\mathbf{D}} + (2_z|000)\mathbf{T}^{\mathbf{D}} +$$

$$+ (1|100)'\mathbf{T}^{\mathbf{D}} + (2_x|000)'\mathbf{T}^{\mathbf{D}} + (2_y|000)'\mathbf{T}^{\mathbf{D}} + (2_z|100)'\mathbf{T}^{\mathbf{D}}$$

Consequently, a primed number or letter in the symbol for $\mathbf{M}_R$ (which is a symbol for **D**) denotes that the corresponding element appears in **D** coupled with $\mathbf{t}_\alpha$ and primed in (**F**-**D**)1', e.g. $(2_x|100)$ is in **D** and $(2_x|000)'$ in (**F**-**D**)1'. An unprimed number or letter in the symbol for $\mathbf{M}_R$ (which is a symbol for **D**) denotes that the corresponding element appears unchanged in **D** and coupled with $\mathbf{t}_\alpha$ and primed in (**F**-**D**)1', e.g. $(2_Z|000)$ is in **D** and $(2_z|100)'$ in (**F**-**D**)1'.

3.3 Symbol of the subgroup D

The third column contains the group type symbol of the subgroup **D** of index two of the magnetic group **M** = **F**(**D**).

a) For $\mathbf{M}_T$ groups, **D** is defined by the translational subgroup **T** of **F** and the unprimed coset representatives listed in the fourth column.

b) For $\mathbf{M}_R$ groups, **D** is defined by the translational subgroup $\mathbf{T}^D$ and the set of all coset representatives listed in the fourth column.

While the group type symbol of **D** is given, the coset representatives of the subgroup **D** of $\mathbf{M}_T$ or $\mathbf{M}_R$ defined in a) or b), respectively, may not be identical with the coset representatives of the group **D** found in the listing of the magnetic subperiodic groups. Consequently, to show the relationship between this group **D** and the group of type **D** listed in the tables, additional information is provided to define a new coordinate system in which the coset representatives of this subgroup of type **D** are identical with the coset representatives listed for the group **D**.

Let (**O**;**a**,**b**,**c**) be the coordinate system in which the group **F** is defined. "**O**" is the origin of the coordinate system, and **a**, **b**, and **c** are the basis vectors of the coordinate system. **a**, **b**, and **c** represent a set of basis vectors for a primitive cell for primitive lattices and for a conventional cell for centered lattices. A second coordinate system is defined by (**O**+**t**;**a**',**b**',**c**'). The origin is translated from **O** to **O**+**t**, and then the basis vectors **a**, **b**, and **c** are changed to **a**', **b**' and **c**'.

Immediately following the group type symbol for the subgroup **D** of **F** we give a coordinate system (**O**+**t**;**a**',**b**',**c**') [In the tables, for typographical simplicity, the symbols "**O**+" are omitted.] in which the coset representatives of the subgroup **D** of

F are identical with the coset representatives of the group **D** found in the listing of the magnetic subperiodic groups. **t**, **a**', **b**', and **c**' are given in terms of the basis vectors of the coordinate system (**O**;**a**,**b**,**c**) of the group **F**.

Example 1: For the $\mathbf{M}_T$ magnetic layer group 14.3.68 = p2/m'11 one finds in the tables:

p211 (000;**a**,**b**,**c**) (1|000) (2_x|000) ($\overline{1}$|000)' (m_x|000)'

The translational subgroup of **D** is generated by the translations (1|100) and (1|010) and the coset representatives of this group are (1|000) and (2_x|000), the unprimed coset representatives on the right. This subgroup **D** is of type p211. In the tables, listed for the group 8.1.34 p211, one finds the identical two coset representatives. Consequently, there is no change the coordinate system, i.e. **t**=(000) and **a**'=**a**, **b**'=**b**, and **c**'=**c**. In the coordinate system of the magnetic group p2/m'11, the coset representatives of its subgroup **D**, of the type p211, are identical with the coset representatives of the group p211 found in the tables.

Example 2: For the $\mathbf{M}_R$ magnetic layer group 19.5.108 $p_{2a}2'2'2$ one finds in the tables:

$p2_122$ (000;2**a**,**b**,**c**) (1|000) (2_x|100) (2_y|100) (2_z|000)

The translational subgroup of **D** is generated by the translations (1|200) and (1|010) and the coset representatives of this group are all those coset representatives on the right. This subgroup **D** is of type $p2_122$. In the tables, listed for the group 20.1.111 $p2_122$ one finds a different set of coset representatives:

(1|000) (2_x|½00) (2_y|½00) (2_z|000)

Consequently, to show the relationship between the subgroup **D** of type $p2_122$ and the listed group $p2_122$, we change the coordinate system in which **D** is defined to (**O**+000;2**a**,**b**,**c**). In this new coordinate system the coset representatives of **D** are identical with the coset representatives of the representative group $p2_122$.

Example 3: For the $\mathbf{M}_T$ magnetic layer group 20.4.114 $p2_122'$ one finds in the tables:

p211 (¼0 0;**b**,$\overline{\mathbf{a}}$,**c**) (1|000) $(2_x|½00)'$ $(2_y|½00)$ $(2_z|000)'$

The translational subgroup of **D** is generated by the translations (1|100) and (1|010) and the coset representatives of this group are (1|000) and $(2_y|½00)$, the unprimed coset representatives on the right. The group **D** is of type p211. In the tables, for the group p211 one finds a different set of coset representatives, (1|000) and $(2_x|000)$. Consequently, to show the relationship between the subgroup **D** of type p211 and the listed group p211, we change the coordinate system in which **D** is defined to (**O**+¼0 0;**b**,$\overline{\mathbf{a}}$,**c**) . The origin is first translated from **O** to **O**+**t** , where **t**=(¼00) and the a new set of basis vectors, **a**'=**b**, **b**'=$\overline{\mathbf{a}}$, and **c**'=**c** are defined. In this new coordinate system the coset representatives of **D** are identical with the coset representatives of the group p211.

3.4 Coset Representatives

The groups listed are defined by their translational subgroups and a set of coset representatives of the coset decomposition of each group with respect to its respective translational subgroup. The defining coset representatives are listed on the right hand side of the tables.

A group **F** is defined by its translational subgroup and the set of coset representatives implied by the coordinates of the set of equivalent positions explicitly listed under the group type in Vol. E of *International Tables for Crystallography* (1999). For example, The group **F** = $p2_122$ has a primitive translational subgroup generated by $(1|100)$ and $(1|010)$. The coordinates of the set of equivalent positions listed in Vol. E under the group type $p2_122$ are:

$$x,y,z; \qquad x+\tfrac{1}{2},\overline{y},\overline{z}; \qquad \overline{x}+\tfrac{1}{2},y,\overline{z}; \qquad \overline{x},\overline{y},z$$

Corresponding to these are the symmetry elements

$$(1|000); \qquad (2_x|\tfrac{1}{2}00); \qquad (2_y|\tfrac{1}{2}00); \qquad (2_z|000),$$

respectively, which are taken as the coset representatives.

The coset representatives of groups **F**1' are not explicitly given. These are taken as the coset representatives of **F** plus each of these coset representatives multiplied by 1'. For example, the coset representatives of **F** = $p2_122$ are given above. The coset representatives of **F**1' = $p2_1221'$ are

$$(1|000); \qquad (2_x|\tfrac{1}{2}00); \qquad (2_y|\tfrac{1}{2}00); \qquad (2_z|000);$$

$$(1|000)'; \qquad (2_x|\tfrac{1}{2}00)'; \qquad (2_y|\tfrac{1}{2}00)'; \qquad (2_z|000)'.$$

The coset representatives of groups $\mathbf{M}_T = \mathbf{F}(\mathbf{D})$ are derived from the coset representatives of **F**. Each coset representative of **F** appears unchanged or primed as a coset representative of $\mathbf{M}_T$. For example, The coset representatives of $\mathbf{F} = p2_122$ are

$(1|000)$; $(2_x|½00)$; $(2_y|½00)$; $(2_z|000)$.

The coset representatives of $\mathbf{M}_T = p2_1'22'$ are:

$(1|000)$; $(2_x|½00)'$; $(2_y|½00)$; $(2_z|000)'$.

The coset representatives of groups $\mathbf{M}_R = \mathbf{F}(\mathbf{D})$ are also derived from the coset representatives of **F**. They are also chosen such that they are coset representatives of **D** with respect to its subgroup $\mathbf{T}^{\mathbf{D}}$. Each coset representative of **F** appears either unchanged or multiplied by $\mathbf{t}_\alpha$. For example: The coset representatives of $\mathbf{F} = p2_122$ are

$(1|000)$; $(2_x|½00)$; $(2_y|½00)$; $(2_z|000)$.

The coset representatives of $\mathbf{M}_R = p_{2b}2_1'2'2$, where $\mathbf{t}_\alpha = (010)$, are:

$(1|000)$; $(2_x|½10)$; $(2_y|½10)$; $(2_z|000)$.

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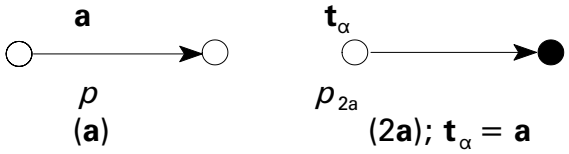
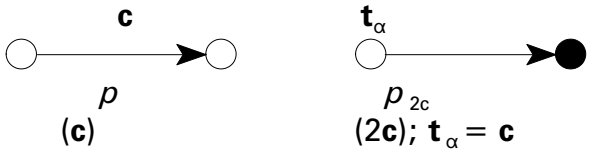
Figures 1: Diagrams of translational groups. Below each diagram is given the symbol for the group and generators, or for the unprimed subgroup, its generators, and the definition of the translation $\mathbf{t}_\alpha$.

Frieze Groups:

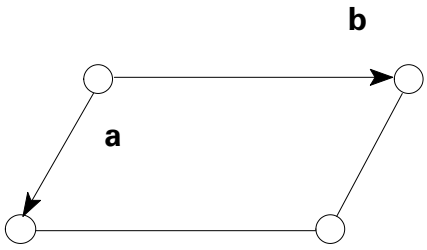


Rod Groups



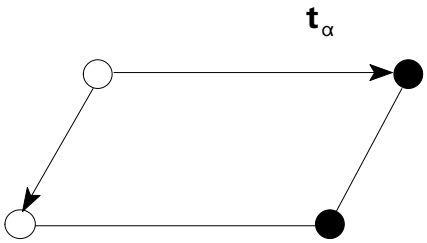
Layer Groups:

Triclinic/Oblique System, Monoclinic/Oblique System

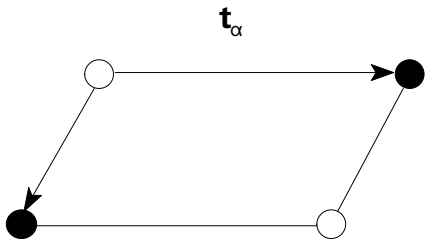


p
(**a**,**b**)

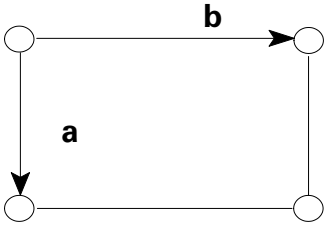
p_{2a}
(2**a**,**b**); $\mathbf{t}_\alpha = \mathbf{a}$



p_{2b}
(**a**,2**b**); $\mathbf{t}_\alpha = \mathbf{b}$

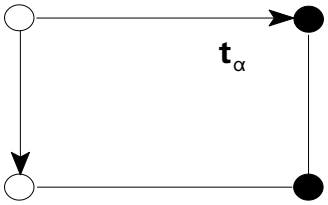


p_c
(2**a**,2**b**); $\mathbf{t}_\alpha = \mathbf{b}$

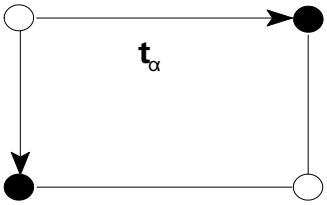


p
(**a**,**b**)

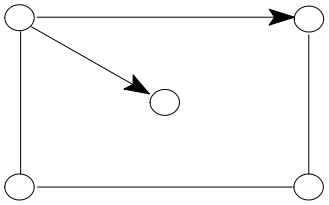
p_{2a}
(2**a**,**b**); $\mathbf{t}_\alpha = \mathbf{a}$



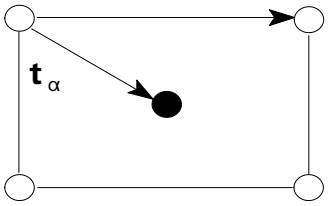
p_{2b}
(**a**,2**b**); $\mathbf{t}_\alpha = \mathbf{b}$



p_c
(2**a**,2**b**); $\mathbf{t}_\alpha = \mathbf{b}$

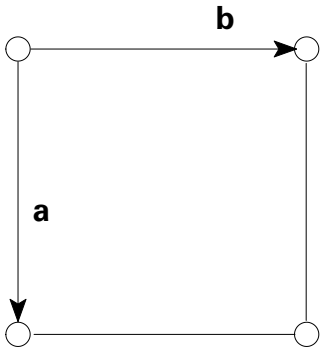


c
((**a**+**b**)/2,(**a**-**b**)/2))

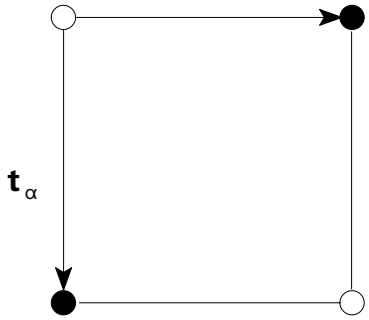


c_p
(**a**,**b**); $\mathbf{t}_\alpha = (\mathbf{a}+\mathbf{b})/2$

Tetragonal/Square System

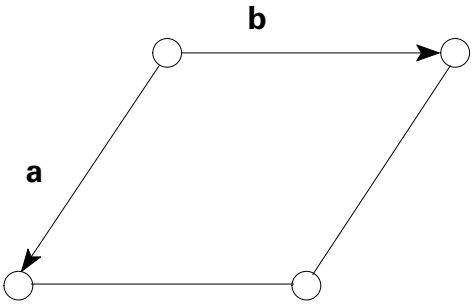


p
(**a**,**b**)



p_p
(**a**-**b**,**a**+**b**); $\mathbf{t}_\alpha = \mathbf{a}$

Trigonal/Hexagonal System, Hexagonal/Hexagonal System



p
(**a**,**b**)

Table 1: Magnetic Frieze Groups

Serial Number	Magnetic Group/ Type Symbol	Non-Magnetic Subgroup of Index Two	Coset Representatives of the Decomposition of the Magnetic Group with Respect to its Translational Subgroup.	
1.1.1	*p*1		(1|00)	
1.2.2	*p*11'			
1.3.3	$p_{2a}1$	*p*1 (00;2a,b)	(1|00)	
2.1.4	*p*211		(1|00)	(2_z|00)
2.2.5	*p*2111'			
2.3.6	*p*2'11	*p*1 (00;a,b)	(1|00)	(2_z|00)'
2.4.7	$p_{2a}211$	*p*211 (00;2a,b)	(1|00)	(2_z|00)
3.1.8	*p*1m1		(1|00)	(m_x|00)
3.2.9	*p*1m11'			
3.3.10	*p*1m'1	*p*1 (00;a,b)	(1|00)	(m_x|00)'
3.4.11	$p_{2a}1m1$	*p*1m1 (00;2a,b)	(1|00)	(m_x|00)
4.1.12	*p*11m		(1|00)	(m_y|00)

4.2.13	*p*11m1'					
4.3.14	*p*11m'	*p*1 (00;a,b)	(1|00)	(m_y|00)'		
4.4.15	p_{2a}11m'	*p*11g (00;2a,b)	(1|00)	(m_y|10)		
4.5.16	p_{2a}11m	*p*11m (00;2a,b)	(1|00)	(m_y|00)		
5.1.17	*p*11g		(1|00)	(m_y|½0)		
5.2.18	*p*11g1'					
5.3.19	*p*11g'	*p*1 (00;a,b)	(1|00)	(m_y|½0)'		
6.1.20	*p*2mm		(1|00)	(2_z|00)	(m_x|00)	(m_y|00)
6.2.21	*p*2mm1'					
6.3.22	*p*2m'm'	*p*211 (00;a,b)	(1|00)	(2_z|00)	(m_x|00)'	(m_y|00)'
6.4.23	*p*2'mm'	*p*1m1 (00;a,b)	(1|00)	(2_z|00)'	(m_x|00)	(m_y|00)'
6.5.24	*p*2'm'm	*p*11m (00;a,b)	(1|00)	(2_z|00)'	(m_x|00)'	(m_y|00)
6.6.25	p_{2a}2m'm'	*p*2mg (00;2a,b)	(1|00)	(2_z|00)	(m_x|10)	(m_y|10)
6.7.26	p_{2a}2mm	*p*2mm (00;2a,b)	(1|00)	(2_z|00)	(m_x|00)	(m_y|00)
7.1.27	*p*2mg		(1|00)	(2_z|00)	(m_x|½0)	(m_y|½0)
7.2.28	*p*2mg1'					

Table 1: Magnetic Frieze Groups 2

7.3.29	*p*2m'g'	*p*211 (00;a,b)	(1|00)	(2_z|00)	(m_x|½0)'	(m_y|½0)'
7.4.30	*p*2'mg'	*p*1m1 (¼0;a,b)	(1|00)	(2_z|00)'	(m_x|½0)	(m_y|½0)'
7.5.31	*p*2'm'g	*p*11g (00;a,b)	(1|00)	(2_z|00)'	(m_x|½0)'	(m_y|½0)

Table 2: Magnetic Rod Groups

Serial Number	Magnetic Group/ Type Symbol	Non-Magnetic Subgroup of Index Two	Coset Representatives of the Decomposition of the Magnetic Group with Respect to its Translational Subgroup.	
1.1.1	$p1$		$(1\|000)$	
1.2.2	$p11'$			
1.3.3	$p_{2c}1$	$p1$ (000;a,b,2c)	$(1\|000)$	
2.1.4	$p\bar{1}$		$(1\|000)$	$(\bar{1}\|000)$
2.2.5	$p\bar{1}1'$			
2.3.6	$p\bar{1}'$	$p1$ (000;a,b,c)	$(1\|000)$	$(\bar{1}\|000)'$
2.4.7	$p_{2c}\bar{1}$	$p\bar{1}$ (000;a,b,2c)	$(1\|000)$	$(\bar{1}\|000)$
3.1.8	$p211$		$(1\|000)$	$(2_x\|000)$
3.2.9	$p2111'$			
3.3.10	$p2'11$	$p1$ (000;a,b,c)	$(1\|000)$	$(2_x\|000)'$
3.4.11	$p_{2c}211$	$p211$ (000;a,b,2c)	$(1\|000)$	$(2_x\|000)$
4.1.12	$pm11$		$(1\|000)$	$(m_x\|000)$

4.2.13	*p*m111'					
4.3.14	*p*m'11	*p*1 (000;a,b,c)	(1|000)	(m_x|000)'		
4.4.15	p_{2c}m'11	*p*c11 (000;a,b,2c)	(1|000)	(m_x|001)		
4.5.16	p_{2c}m11	*p*m11 (000;a,b,2c)	(1|000)	(m_x|000)		
5.1.17	*p*c11		(1|000)	(m_x|00½)		
5.2.18	*p*c111'					
5.3.19	*p*c'11	*p*1 (000;a,b,c)	(1|000)	(m_x|00½)'		
6.1.20	*p*2/m11		(1|000)	(2_x|000)	($\bar{1}$|000)	(m_x|000)
6.2.21	*p*2/m111'					
6.3.22	*p*2/m'11	*p*211 (000;a,b,c)	(1|000)	(2_x|000)	($\bar{1}$|000)'	(m_x|000)'
6.4.23	*p*2'/m'11	*p*$\bar{1}$ (000;a,b,c)	(1|000)	(2_x|000)'	($\bar{1}$|000)	(m_x|000)'
6.5.24	*p*2'/m11	*p*m11 (000;a,b,c)	(1|000)	(2_x|000)'	($\bar{1}$|000)'	(m_x|000)
6.6.25	p_{2c}2'/m'11	*p*2/c11 (000;a,b,2c)	(1|000)	(2_x|001)	($\bar{1}$|000)	(m_x|001)
6.7.26	p_{2c}2/m11	*p*2/m11 (000;a,b,2c)	(1|000)	(2_x|000)	($\bar{1}$|000)	(m_x|000)
7.1.27	*p*2/c11		(1|000)	(2_x|00½)	($\bar{1}$|000)	(m_x|00½)
7.2.28	*p*2/c111'					

Table 2: Magnetic Rod Groups 2

7.3.29	*p*2/c'11	*p*211 (000;a,b,c)	(1|000)	(2_x|00½)	($\bar{1}$|000)'	(m_x|00½)'
7.4.30	*p*2'/c'11	*p*$\bar{1}$ (000;a,b,c)	(1|000)	(2_x|00½)'	($\bar{1}$|000)	(m_x|00½)'
7.5.31	*p*2'/c11	*p*c11 (000;a,b,c)	(1|000)	(2_x|00½)'	($\bar{1}$|000)'	(m_x|00½)
8.1.32	*p*112		(1|000)	(2_z|000)		
8.2.33	*p*1121'					
8.3.34	*p*112'	*p*1 (000;a,b,c)	(1|000)	(2_z|000)'		
8.4.35	p_{2c}112'	*p*112_1 (000;a,b,2c)	(1|000)	(2_z|001)		
8.5.36	p_{2c}112	*p*112 (000;a,b,2c)	(1|000)	(2_z|000)		
9.1.37	*p*112_1		(1|000)	(2_z|00½)		
9.2.38	*p*$112_1$1'					
9.3.39	*p*112_1'	*p*1 (000;a,b,c)	(1|000)	(2_z|00½)'		
10.1.40	*p*11m		(1|000)	(m_z|000)		
10.2.41	*p*11m1'					
10.3.42	*p*11m'	*p*1 (000;a,b,c)	(1|000)	(m_z|000)'		
10.4.43	p_{2c}11m	*p*11m (000;a,b,2c)	(1|000)	(m_z|000)		

11.1.44	*p*112/m		(1|000)	(2_z|000)	($\bar{1}$|000)	(m_z|000)
11.2.45	*p*112/m1'					
11.3.46	*p*112/m'	*p*112 (000;a,b,c)	(1|000)	(2_z|000)	($\bar{1}$|000)'	(m_z|000)'
11.4.47	*p*112'/m'	*p*$\bar{1}$ (000;a,b,c)	(1|000)	(2_z|000)'	($\bar{1}$|000)	(m_z|000)'
11.5.48	*p*112'/m	*p*11m (000;a,b,c)	(1|000)	(2_z|000)'	($\bar{1}$|000)'	(m_z|000)
11.6.49	p_{2c}112'/m'	*p*112_1/m (000;a,b,2c)	(1|000)	(2_z|001)	($\bar{1}$|000)	(m_z|001)
11.7.50	p_{2c}112/m	*p*112/m (000;a,b,2c)	(1|000)	(2_z|000)	($\bar{1}$|000)	(m_z|000)

12.1.51	*p*112_1/m		(1|000)	(2_z|00½)	($\bar{1}$|000)	(m_z|00½)
12.2.52	*p*112_1/m1'					
12.3.53	*p*112_1/m'	*p*112_1 (000;a,b,c)	(1|000)	(2_z|00½)	($\bar{1}$|000)'	(m_z|00½)'
12.4.54	*p*112_1'/m'	*p*$\bar{1}$ (000;a,b,c)	(1|000)	(2_z|00½)'	($\bar{1}$|000)	(m_z|00½)'
12.5.55	*p*112_1'/m	*p*11m (00¼;a,b,c)	(1|000)	(2_z|00½)'	($\bar{1}$|000)'	(m_z|00½)

13.1.56	*p*222		(1|000)	(2_x|000)	(2_y|000)	(2_z|000)
13.2.57	*p*2221'					
13.3.58	*p*22'2'	*p*211 (000;a,b,c)	(1|000)	(2_x|000)	(2_y|000)'	(2_z|000)'
13.4.59	*p*2'2'2	*p*112 (000;a,b,c)	(1|000)	(2_x|000)'	(2_y|000)'	(2_z|000)
13.5.60	p_{2c}22'2'	$p2_12_12$ (000;a,b,2c)	(1|000)	(2_x|000)	(2_y|001)	(2_z|001)
13.6.61	p_{2c}222	*p*222 (000;a,b,2c)	(1|000)	(2_x|000)	(2_y|000)	(2_z|000)
14.1.62	$p2_12_12_1$		(1|000)	(2_x|000)	(2_y|00½)	(2_z|00½)
14.2.63	$p2_12_12_11$'					
14.3.64	$p2'2'2_1$	$p112_1$ (000;a,b,c)	(1|000)	(2_x|000)'	(2_y|00½)'	(2_z|00½)
14.4.65	$p22'2_1$'	*p*211 (000;a,b,c)	(1|000)	(2_x|000)	(2_y|00½)'	(2_z|00½)'
15.1.66	*p*mm2		(1|000)	(m_x|000)	(m_y|000)	(2_z|000)
15.2.67	*p*mm21'					
15.3.68	*p*m'm'2	*p*112 (000;a,b,c)	(1|000)	(m_x|000)'	(m_y|000)'	(2_z|000)
15.4.69	*p*mm'2'	*p*m11 (000;a,b,c)	(1|000)	(m_x|000)	(m_y|000)'	(2_z|000)'
15.5.70	p_{2c}m'm'2	*p*cc2 (000;a,b,2c)	(1|000)	(m_x|001)	(m_y|001)	(2_z|000)
15.6.71	p_{2c}mm'2'	$pmc2_1$ (000;a,b,2c)	(1|000)	(m_x|000)	(m_y|001)	(2_z|001)
15.7.72	p_{2c}mm2	*p*mm2 (000;a,b,2c)	(1|000)	(m_x|000)	(m_y|000)	(2_z|000)

16.1.73	*p*cc2		(1|000)	(m_x|00½)	(m_y|00½)	(2_z|000)
16.2.74	*p*cc21'					
16.3.75	*p*c'c'2	*p*112 (000;a,b,c)	(1|000)	(m_x|00½)'	(m_y|00½)'	(2_z|000)
16.4.76	*p*cc'2'	*p*c11 (000;a,b,c)	(1|000)	(m_x|00½)	(m_y|00½)'	(2_z|000)'
17.1.77	*p*m$c2_1$		(1|000)	(m_x|000)	(m_y|00½)	(2_z|00½)
17.2.78	*p*m$c2_1$1'					
17.3.79	*p*m'c'2_1	*p*112_1 (000;a,b,c)	(1|000)	(m_x|000)'	(m_y|00½)'	(2_z|00½)
17.4.80	*p*m'$c2_1$'	*p*c11 (000;b,$\bar{a}$,c)	(1|000)	(m_x|000)'	(m_y|00½)	(2_z|00½)'
17.5.81	*p*mc'2_1'	*p*m11 (000;a,b,c)	(1|000)	(m_x|000)	(m_y|00½)'	(2_z|00½)'
18.1.82	*p*2mm		(1|000)	(2_x|000)	(m_y|000)	(m_z|000)
18.2.83	*p*2mm1'					
18.3.84	*p*2m'm'	*p*211 (000;a,b,c)	(1|000)	(2_x|000)	(m_y|000)'	(m_z|000)'

18.4.85	*p*2'm'm	*p*11m (000;a,b,c)	(1|000)	(2_x|000)'	(m_y|000)'	(m_z|000)
18.5.86	*p*2'mm'	*p*m11 (000;b,$\bar{a}$,c)	(1|000)	(2_x|000)'	(m_y|000)	(m_z|000)'
18.6.87	p_{2c}2m'm'	*p*2cm (000;a,b,2c)	(1|000)	(2_x|000)	(m_y|001)	(m_z|001)
18.7.88	p_{2c}2mm	*p*2mm (000;a,b,2c)	(1|000)	(2_x|000)	(m_y|000)	(m_z|000)
19.1.89	*p*2cm		(1|000)	(2_x|000)	(m_y|00½)	(m_z|00½)
19.2.90	*p*2cm1'					
19.3.91	*p*2c'm'	*p*211 (000;a,b,c)	(1|000)	(2_x|000)	(m_y|00½)'	(m_z|00½)'
19.4.92	*p*2'cm'	*p*c11 (000;b,$\bar{a}$,c)	(1|000)	(2_x|000)'	(m_y|00½)	(m_z|00½)'
19.5.93	*p*2'c'm	*p*11m (00¼;a,b,c)	(1|000)	(2_x|000)'	(m_y|00½)'	(m_z|00½)
20.1.94	*p*mmm		($\underline{1}$|000) ($\bar{1}$|000)	(2_x|000) (m_x|000)	(2_y|000) (m_y|000)	(2_z|000) (m_z|000)
20.2.95	*p*mmm1'					
20.3.96	*p*m'm'm'	*p*222 (000;a,b,c)	($\underline{1}$|000) ($\bar{1}$|000)'	(2_x|000) (m_x|000)'	(2_y|000) (m_y|000)'	(2_z|000) (m_z|000)'

20.4.97	*p*m'm'm	*p*112/m (000;a,b,c)	$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(2_x\|000)'$ $(m_x\|000)'$	$(2_y\|000)'$ $(m_y\|000)'$	$(2_z\|000)$ $(m_z\|000)$
20.5.98	*p*mm'm'	*p*2/m11 (000;a,b,c)	$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|000)'$ $(m_y\|000)'$	$(2_z\|000)'$ $(m_z\|000)'$
20.6.99	*p*mmm'	*p*mm2 (000;a,b,c)	$(\underline{1}\|000)$ $(\bar{1}\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|000)'$ $(m_y\|000)$	$(2_z\|000)$ $(m_z\|000)'$
20.7.100	*p*m'mm	*p*2mm (000;a,b,c)	$(\underline{1}\|000)$ $(\bar{1}\|000)'$	$(2_x\|000)$ $(m_x\|000)'$	$(2_y\|000)'$ $(m_y\|000)$	$(2_z\|000)'$ $(m_z\|000)$
20.8.101	p_{2c}m'm'm	*p*ccm (000;a,b,2c)	$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(2_x\|001)$ $(m_x\|001)$	$(2_y\|001)$ $(m_y\|001)$	$(2_z\|000)$ $(m_z\|000)$
20.9.102	p_{2c}mm'm'	*p*mcm (000;a,b,2c)	$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|001)$ $(m_y\|001)$	$(2_z\|001)$ $(m_z\|001)$
20.10.103	p_{2c}mmm	*p*mmm (000;a,b,2c)	$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|000)$ $(m_y\|000)$	$(2_z\|000)$ $(m_z\|000)$
21.1.104	*p*ccm		$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(2_x\|00½)$ $(m_x\|00½)$	$(2_y\|00½)$ $(m_y\|00½)$	$(2_z\|000)$ $(m_z\|000)$
21.2.105	*p*ccm1'					
21.3.106	*p*c'c'm'	*p*222 (000;a,b,c)	$(\underline{1}\|000)$ $(\bar{1}\|000)'$	$(2_x\|00½)$ $(m_x\|00½)'$	$(2_y\|00½)$ $(m_y\|00½)'$	$(2_z\|000)$ $(m_z\|000)'$
21.4.107	*p*c'c'm	*p*112/m (000;a,b,c)	$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(2_x\|00½)'$ $(m_x\|00½)'$	$(2_y\|00½)'$ $(m_y\|00½)'$	$(2_z\|000)$ $(m_z\|000)$
21.5.108	*p*cc'm'	*p*2/c11 (000;a,b,c)	$(1\|000)$	$(2_x\|00½)$	$(2_y\|00½)'$	$(2_z\|000)'$

			$(\bar{1}\|000)$	$(m_x\|00½)$	$(m_y\|00½)'$	$(m_z\|000)'$
21.6.109	*p*ccm'	*p*cc2 (000;a,b,c)	$(1\|000)$ $(\bar{1}\|000)'$	$(2_x\|00½)'$ $(m_x\|00½)$	$(2_y\|00½)'$ $(m_y\|00½)$	$(2_z\|000)$ $(m_z\|000)'$
21.7.110	*p*c'cm	*p*2cm (00¼;a,b,c)	$(1\|000)$ $(\bar{1}\|000)'$	$(2_x\|00½)$ $(m_x\|00½)'$	$(2_y\|00½)'$ $(m_y\|00½)$	$(2_z\|000)'$ $(m_z\|000)$
22.1.111	*p*mcm		$(1\|000)$ $(\bar{1}\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|00½)$ $(m_y\|00½)$	$(2_z\|00½)$ $(m_z\|00½)$
22.2.112	*p*mcm1'					
22.3.113	*p*m'c'm'	*p*222_1 (000;a,b,c)	$(1\|000)$ $(\bar{1}\|000)'$	$(2_x\|000)$ $(m_x\|000)'$	$(2_y\|00½)$ $(m_y\|00½)'$	$(2_z\|00½)$ $(m_z\|00½)'$
22.4.114	*p*m'cm'	*p*2/c11 (000;b,$\bar{a}$,c)	$(1\|000)$ $(\bar{1}\|000)$	$(2_x\|000)'$ $(m_x\|000)'$	$(2_y\|00½)$ $(m_y\|00½)$	$(2_z\|00½)'$ $(m_z\|00½)'$
22.5.115	*p*mc'm'	*p*2/m11 (000;a,b,c)	$(1\|000)$ $(\bar{1}\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|00½)'$ $(m_y\|00½)'$	$(2_z\|00½)'$ $(m_z\|00½)'$
22.6.116	*p*m'c'm	*p*112_1/m (000;a,b,c)	$(1\|000)$ $(\bar{1}\|000)$	$(2_x\|000)'$ $(m_x\|000)'$	$(2_y\|00½)'$ $(m_y\|00½)'$	$(2_z\|00½)$ $(m_z\|00½)$
22.7.117	*p*mc'm	*p*2mm (00¼;b,$\bar{a}$,c)	$(1\|000)$ $(\bar{1}\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|00½)$ $(m_y\|00½)'$	$(2_z\|00½)'$ $(m_z\|00½)$
22.8.118	*p*m'cm	*p*2cm (000;a,b,c)	$(1\|000)$ $(\bar{1}\|000)'$	$(2_x\|000)$ $(m_x\|000)'$	$(2_y\|00½)'$ $(m_y\|00½)$	$(2_z\|00½)'$ $(m_z\|00½)$
22.9.119	*p*mcm'	*p*m$c2_1$ (000;a,b,c)	$(1\|000)$ $(\bar{1}\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|00½)'$ $(m_y\|00½)$	$(2_z\|00½)$ $(m_z\|00½)'$

23.1.120	$p4$		(1|000)	(4_z|000)	(2_z|000)	(4_z^{-1}|000)
23.2.121	$p41'$					
23.3.122	$p4'$	$p112$ (000;a,b,c)	(1|000)	(4_z|000)'	(2_z|000)	(4_z^{-1}|000)'
23.4.123	$p_{2c}4'$	$p4_2$ (000;a,b,2c)	(1|000)	(4_z|001)	(2_z|000)	(4_z^{-1}|001)
23.5.124	$p_{2c}4$	$p4$ (000;a,b,2c)	(1|000)	(4_z|000)	(2_z|000)	(4_z^{-1}|000)
24.1.125	$p4_1$		(1|000)	(4_z|00$_{1/4}$)	(2_z|00$_{1/2}$)	(4_z^{-1}|00$_{3/4}$)
24.2.126	$p4_11'$					
24.3.127	$p4_1'$	$p112_1$ (000;a,b,c)	(1|000)	(4_z|00$_{1/4}$)'	(2_z|00$_{1/2}$)	(4_z^{-1}|00$_{3/4}$)'
25.1.128	$p4_2$		(1|000)	(4_z|00$_{1/2}$)	(2_z|000)	(4_z^{-1}|00$_{1/2}$)
25.2.129	$p4_21'$					
25.3.130	$p4_2'$	$p112$ (000;a,b,c)	(1|000)	(4_z|00$_{1/2}$)'	(2_z|000)	(4_z^{-1}|00$_{1/2}$)'
25.4.131	$p_{2c}4_2$	$p4_1$ (000;a,b,2c)	(1|000)	(4_z|00$_{1/2}$)	(2_z|001)	(4_z^{-1}|00$_{3/2}$)
25.5.132	$p_{2c}4_2'$	$p4_3$ (000;a,b,2c)	(1|000)	(4_z|00$_{3/2}$)	(2_z|001)	(4_z^{-1}|00$_{1/2}$)
26.1.133	$p4_3$		(1|000)	(4_z|00$_{3/4}$)	(2_z|00$_{1/2}$)	(4_z^{-1}|00$_{1/4}$)
26.2.134	$p4_31'$					
26.3.135	$p4_3'$	$p112_1$ (000;a,b,c)	(1|000)	(4_z|00$_{3/4}$)'	(2_z|00$_{1/2}$)	(4_z^{-1}|00$_{1/4}$)'

27.1.136	$p\bar{4}$		$(1\|000)$	$(\bar{4}_z\|000)$	$(2_z\|000)$	$(\bar{4}_z^{-1}\|000)$
27.2.137	$p\bar{4}1'$					
27.3.138	$p\bar{4}'$	$p112$ (000;a,b,c)	$(1\|000)$	$(\bar{4}_z\|000)'$	$(2_z\|000)$	$(\bar{4}_z^{-1}\|000)'$
27.4.139	$p_{2c}\bar{4}$	$p\bar{4}$ (000;a,b,2c)	$(1\|000)$	$(\bar{4}_z\|000)$	$(2_z\|000)$	$(\bar{4}_z^{-1}\|000)$
28.1.140	$p4/m$		$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(4_z\|000)$ $(\bar{4}_z\|000)$	$(2_z\|000)$ $(m_z\|000)$	$(4_z^{-1}\|000)$ $(\bar{4}_z^{-1}\|000)$
28.2.141	$p4/m1'$					
28.3.142	$p4/m'$	$p4$ (000;a,b,c)	$(\underline{1}\|000)$ $(\bar{1}\|000)'$	$(4_z\|000)$ $(\bar{4}_z\|000)'$	$(2_z\|000)$ $(m_z\|000)'$	$(4_z^{-1}\|000)$ $(\bar{4}_z^{-1}\|000)'$
28.4.143	$p4'/m'$	$p\bar{4}$ (000;a,b,c)	$(\underline{1}\|000)$ $(\bar{1}\|000)'$	$(4_z\|000)'$ $(\bar{4}_z\|000)$	$(2_z\|000)$ $(m_z\|000)'$	$(4_z^{-1}\|000)'$ $(\bar{4}_z^{-1}\|000)$
28.5.144	$p4'/m$	$p112/m$ (000;a,b,c)	$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(4_z\|000)'$ $(\bar{4}_z\|000)'$	$(2_z\|000)$ $(m_z\|000)$	$(4_z^{-1}\|000)'$ $(\bar{4}_z^{-1}\|000)'$
28.6.145	$p_{2c}4'/m$	$p4_2/m$ (000;a,b,2c)	$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(4_z\|001)$ $(\bar{4}_z\|001)$	$(2_z\|000)$ $(m_z\|000)$	$(4_z^{-1}\|001)$ $(\bar{4}_z^{-1}\|001)$
28.7.146	$p_{2c}4/m$	$p4/m$ (000;a,b,2c)	$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(4_z\|000)$ $(\bar{4}_z\|000)$	$(2_z\|000)$ $(m_z\|000)$	$(4_z^{-1}\|000)$ $(\bar{4}_z^{-1}\|000)$
29.1.147	$p4_2/m$		$(1\|000)$	$(4_z\|00½)$	$(2_z\|000)$	$(4_z^{-1}\|00½)$

			$(\bar{1}\|000)$	$(\bar{4}_z\|00½)$	$(m_z\|000)$	$(\bar{4}_z^{-1}\|00½)$
29.2.148	$p4_2/m1'$					
29.3.149	$p4_2/m'$	$p4_2$ (000;a,b,c)	$(1\|000)$ $(\bar{1}\|000)'$	$(\bar{4}_z\|00½)$ $(\bar{4}_z\|00½)'$	$(2_z\|000)$ $(m_z\|000)'$	$(\bar{4}_z^{-1}\|00½)$ $(\bar{4}_z^{-1}\|00½)'$
29.4.150	$p4_2'/m'$	$p\bar{4}$ (00¼;a,b,c)	$(1\|000)$ $(\bar{1}\|000)'$	$(\bar{4}_z\|00½)'$ $(\bar{4}_z\|00½)$	$(2_z\|000)$ $(m_z\|000)'$	$(\bar{4}_z^{-1}\|00½)'$ $(\bar{4}_z^{-1}\|00½)$
29.5.151	$p4_2'/m$	$p112/m$ (000;a,b,c)	$(1\|000)$ $(\bar{1}\|000)$	$(\bar{4}_z\|00½)'$ $(\bar{4}_z\|00½)'$	$(2_z\|000)$ $(m_z\|000)$	$(\bar{4}_z^{-1}\|00½)'$ $(\bar{4}_z^{-1}\|00½)'$
30.1.152	$p422$		$(1\|000)$ $(2_x\|000)$	$(4_z\|000)$ $(2_y\|000)$	$(2_z\|000)$ $(2_{xy}\|000)$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|000)$
30.2.153	$p4221'$					
30.3.154	$p42'2'$	$p4$ (000;a,b,c)	$(1\|000)$ $(2_x\|000)'$	$(4_z\|000)$ $(2_y\|000)'$	$(2_z\|000)$ $(2_{xy}\|000)'$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|000)'$
30.4.155	$p4'22'$	$p222$ (000;a,b,c)	$(1\|000)$ $(2_x\|000)$	$(4_z\|000)'$ $(2_y\|000)$	$(2_z\|000)$ $(2_{xy}\|000)'$	$(4_z^{-1}\|000)'$ $(2_{\bar{x}y}\|000)'$
30.5.156	$p_{2c}4'22'$	$p4_222$ (000;a,b,2c)	$(1\|000)$ $(2_x\|000)$	$(4_z\|001)$ $(2_y\|000)$	$(2_z\|000)$ $(2_{xy}\|001)$	$(4_z^{-1}\|001)$ $(2_{\bar{x}y}\|001)$
30.6.157	$p_{2c}422$	$p422$ (000;a,b,2c)	$(1\|000)$ $(2_x\|000)$	$(4_z\|000)$ $(2_y\|000)$	$(2_z\|000)$ $(2_{xy}\|000)$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|000)$
31.1.158	$p4_122$		$(1\|000)$ $(2_x\|000)$	$(4_z\|00_{1/4})$ $(2_y\|00_{1/2})$	$(2_z\|00_{1/2})$ $(2_{xy}\|00_{1/4})$	$(4_z^{-1}\|00_{3/4})$ $(2_{\bar{x}y}\|00_{3/4})$

31.2.159	$p4_122'$					
31.3.160	$p4_12'2'$	$p4_1$ (000;a,b,c)	$(1\|000)$	$(4_z\|00_{1/4})$	$(2_z\|00_{1/2})$	$(4_z^{-1}\|00_{3/4})$
			$(2_x\|000)'$	$(2_y\|00_{1/2})'$	$(2_{xy}\|00_{1/4})'$	$(2_{\bar{x}y}\|00_{3/4})'$
31.4.161	$p4_1'22'$	$p222_1$ (000;a,b,c)	$(1\|000)$	$(4_z\|00_{1/4})'$	$(2_z\|00_{1/2})$	$(4_z^{-1}\|00_{3/4})'$
			$(2_x\|000)$	$(2_y\|00_{1/2})$	$(2_{xy}\|00_{1/4})'$	$(2_{\bar{x}y}\|00_{3/4})'$
32.1.162	$p4_222$		$(1\|000)$	$(4_z\|00½)$	$(2_z\|000)$	$(4_z^{-1}\|00½)$
			$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|00½)$	$(2_{\bar{x}y}\|00½)$
32.2.163	$p4_2221'$					
32.3.164	$p4_22'2'$	$p4_2$ (000;a,b,c)	$(1\|000)$	$(4_z\|00½)$	$(2_z\|000)$	$(4_z^{-1}\|00½)$
			$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|00½)'$	$(2_{\bar{x}y}\|00½)'$
32.4.165	$p4_2'22'$	$p222$ (000;a,b,c)	$(1\|000)$	$(4_z\|00½)'$	$(2_z\|000)$	$(4_z^{-1}\|00½)'$
			$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|00½)'$	$(2_{\bar{x}y}\|00½)'$
32.5.166	$p_{2c}4_222$	$p4_122$ (000;a,b,2c)	$(1\|000)$	$(4_z\|00½)$	$(2_z\|001)$	$(4_z^{-1}\|00_{3/2})$
			$(2_x\|000)$	$(2_y\|001)$	$(2_{xy}\|00½)$	$(2_{\bar{x}y}\|00_{3/2})$
32.6.167	$p_{2c}4_2'22'$	$p4_322$ (000;a,b,2c)	$(1\|000)$	$(4_z\|00_{3/2})$	$(2_z\|001)$	$(4_z^{-1}\|00½)$
			$(2_x\|000)$	$(2_y\|001)$	$(2_{xy}\|00_{3/2})$	$(2_{\bar{x}y}\|00½)$
33.1.168	$p4_322$		$(1\|000)$	$(4_z\|00_{3/4})$	$(2_z\|00_{1/2})$	$(4_z^{-1}\|00_{1/4})$
			$(2_x\|000)$	$(2_y\|00_{1/2})$	$(2_{xy}\|00_{3/4})$	$(2_{\bar{x}y}\|00_{1/4})$
33.2.169	$p4_3221'$					

33.3.170	$p4_32'2'$	$p4_3$ (000;a,b,c)	(1|000)	(4_z|00$_{3/4}$)	(2_z|00$_{1/2}$)	(4_z^{-1}|00$_{1/4}$)
			(2_x|000)'	(2_y|00$_{1/2}$)'	(2_{xy}|00$_{3/4}$)'	($2_{\bar{x}y}$|00$_{1/4}$)'
33.4.171	$p4_3'22'$	$p222_1$ (000;a,b,c)	(1|000)	(4_z|00$_{3/4}$)'	(2_z|00$_{1/2}$)	(4_z^{-1}|00$_{1/4}$)'
			(2_x|000)	(2_y|00$_{1/2}$)	(2_{xy}|00$_{3/4}$)'	($2_{\bar{x}y}$|00$_{1/4}$)'
34.1.172	$p4mm$		(1|000)	(4_z|000)	(2_z|000)	(4_z^{-1}|000)
			(m_x|000)	(m_y|000)	(m_{xy}|000)	($m_{\bar{x}y}$|000)
34.2.173	$p4mm1'$					
34.3.174	$p4m'm'$	$p4$ (000;a,b,c)	(1|000)	(4_z|000)	(2_z|000)	(4_z^{-1}|000)
			(m_x|000)'	(m_y|000)'	(m_{xy}|000)'	($m_{\bar{x}y}$|000)'
34.4.175	$p4'mm'$	$pmm2$ (000;a,b,c)	(1|000)	(4_z|000)'	(2_z|000)	(4_z^{-1}|000)'
			(m_x|000)	(m_y|000)	(m_{xy}|000)'	($m_{\bar{x}y}$|000)'
34.5.176	$p_{2c}4m'm'$	$p4cc$ (000;a,b,2c)	(1|000)	(4_z|000)	(2_z|000)	(4_z^{-1}|000)
			(m_x|001)	(m_y|001)	(m_{xy}|001)	($m_{\bar{x}y}$|001)
34.6.177	$p_{2c}4'm'm$	$p4_2cm$ (000;a,b,2c)	(1|000)	(4_z|001)	(2_z|000)	(4_z^{-1}|001)
			(m_x|001)	(m_y|001)	(m_{xy}|000)	($m_{\bar{x}y}$|000)
34.7.178	$p_{2c}4mm$	$p4mm$ (000;a,b,2c)	(1|000)	(4_z|000)	(2_z|000)	(4_z^{-1}|000)
			(m_x|000)	(m_y|000)	(m_{xy}|000)	($m_{\bar{x}y}$|000)
35.1.179	$p4_2cm$		(1|000)	(4_z|00½)	(2_z|000)	(4_z^{-1}|00½)
			(m_x|00½)	(m_y|00½)	(m_{xy}|000)	($m_{\bar{x}y}$|000)
35.2.180	$p4_2cm1'$					
35.3.181	$p4_2c'm'$	$p4_2$ (000;a,b,c)	(1|000)	(4_z|00½)	(2_z|000)	(4_z^{-1}|00½)
			(m_x|00½)'	(m_y|00½)'	(m_{xy}|000)'	($m_{\bar{x}y}$|000)'

35.4.182	$p4_2'cm'$	$pcc2$ (000;a,b,c)	(1|000) (m_x|00½)	(4_z|00½)' (m_y|00½)	(2_z|000) (m_{xy}|000)'	(4_z^{-1}|00½)' ($m_{\bar{x}y}$|000)'
35.5.183	$p4_2'c'm$	$pmm2$ (000;a-b,a+b,c)	(1|000) (m_x|00½)'	(4_z|00½)' (m_y|00½)'	(2_z|000) (m_{xy}|000)	(4_z^{-1}|00½)' ($m_{\bar{x}y}$|000)
36.1.184	$p4cc$		(1|000) (m_x|00½)	(4_z|000) (m_y|00½)	(2_z|000) (m_{xy}|00½)	(4_z^{-1}|000) ($m_{\bar{x}y}$|00½)
36.2.185	$p4cc1'$					
36.3.186	$p4c'c'$	$p4$ (000;a,b,c)	(1|000) (m_x|00½)'	(4_z|00½) (m_y|00½)'	(2_z|000) (m_{xy}|000)'	(4_z^{-1}|00½) ($m_{\bar{x}y}$|000)'
36.4.187	$p4'cc'$	$pcc2$ (000;a,b,c)	(1|000) (m_x|00½)	(4_z|00½)' (m_y|00½)	(2_z|000) (m_{xy}|000)'	(4_z^{-1}|00½)' ($m_{\bar{x}y}$|000)'
37.1.188	$p\bar{4}2m$		(1|000) (2_x|000)	($\bar{4}_z$|000) (2_y|000)	(2_z|000) (m_{xy}|000)	($\bar{4}_z^{-1}$|000) ($m_{\bar{x}y}$|000)
37.2.189	$p\bar{4}2m1'$					
37.3.190	$p\bar{4}2'm'$	$p\bar{4}$ (000;a,b,c)	(1|000) (2_x|000)'	($\bar{4}_z$|000) (2_y|000)'	(2_z|000) (m_{xy}|000)'	($\bar{4}_z^{-1}$|000) ($m_{\bar{x}y}$|000)'
37.4.191	$p\bar{4}'2m'$	$p222$ (000;a,b,c)	(1|000) (2_x|000)	($\bar{4}_z$|000)' (2_y|000)	(2_z|000) (m_{xy}|000)'	($\bar{4}_z^{-1}$|000)' ($m_{\bar{x}y}$|000)'

37.5.192	$p\bar{4}$'2'm	*p*mm2 (000;a-b,a+b,c)	(1|000) (2_x|000)'	($\bar{4}_z$|000)' (2_y|000)'	(2_z|000) (m_{xy}|000)	($\bar{4}_z^{-1}$|000)' ($m_{\bar{x}y}$|000)
37.6.193	$p_{2c}\bar{4}$2'm'	$p\bar{4}$2c (000;a,b,2c)	(1|000) (2_x|001)	($\bar{4}_z$|000) (2_y|001)	(2_z|000) (m_{xy}|001)	($\bar{4}_z^{-1}$|000) ($m_{\bar{x}y}$|001)
37.7.194	$p_{2c}\bar{4}$2m	$p\bar{4}$2m (000;a,b,2c)	(1|000) (2_x|000)	($\bar{4}_z$|000) (2_y|000)	(2_z|000) (m_{xy}|000)	($\bar{4}_z^{-1}$|000) ($m_{\bar{x}y}$|000)
38.1.195	$p\bar{4}$2c		(1|000) (2_x|00½)	($\bar{4}_z$|000) (2_y|00½)	(2_z|000) (m_{xy}|00½)	($\bar{4}_z^{-1}$|000) ($m_{\bar{x}y}$|00½)
38.2.196	$p\bar{4}$2c1'					
38.3.197	$p\bar{4}$2'c'	$p\bar{4}$ (000;a,b,c)	(1|000) (2_x|00½)'	($\bar{4}_z$|000) (2_y|00½)'	(2_z|000) (m_{xy}|00½)'	($\bar{4}_z^{-1}$|000) ($m_{\bar{x}y}$|00½)'
38.4.198	$p\bar{4}$'2c'	*p*222 (00¼;a,b,c)	(1|000) (2_x|00½)	($\bar{4}_z$|000)' (2_y|00½)	(2_z|000) (m_{xy}|00½)'	($\bar{4}_z^{-1}$|000)' ($m_{\bar{x}y}$|00½)'
38.5.199	$p\bar{4}$'2'c	*p*cc2(000;a-b,a+b,c)	(1|000) (2_x|00½)'	($\bar{4}_z$|000)' (2_y|00½)'	(2_z|000) (m_{xy}|00½)	($\bar{4}_z^{-1}$|000)' ($m_{\bar{x}y}$|00½)
39.1.200	*p*4/mmm		(1|000) (2_x|000) (1|000) (m_x|000)	(4_z|000) (2_y|000) ($\bar{4}_z$|000) (m_y|000)	(2_z|000) (2_{xy}|000) (m_z|000) (m_{xy}|000)	(4_z^{-1}|000) ($2_{\bar{x}y}$|000) ($\bar{4}_z^{-1}$|000) ($m_{\bar{x}y}$|000)
39.2.201	*p*4/mmm1'					

39.3.202	*p*4/m'm'm'	*p*422 (000;a,b,c)	$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|000)$	$(2_{\bar{x}y}\|000)$
			$(\bar{1}\|000)'$	$(\bar{4}_z\|000)'$	$(m_z\|000)'$	$(\bar{4}_z^{-1}\|000)'$
			$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|000)'$	$(m_{\bar{x}y}\|000)'$
39.4.203	*p*4/mm'm'	*p*4/m (000;a,b,c)	$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|000)'$	$(2_{\bar{x}y}\|000)'$
			$(\bar{1}\|000)$	$(\bar{4}_z\|000)$	$(m_z\|000)$	$(\bar{4}_z^{-1}\|000)$
			$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|000)'$	$(m_{\bar{x}y}\|000)'$
39.5.204	*p*4/m'mm	*p*4mm (000;a,b,c)	$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|000)'$	$(2_{\bar{x}y}\|000)'$
			$(\bar{1}\|000)'$	$(\bar{4}_z\|000)'$	$(m_z\|000)'$	$(\bar{4}_z^{-1}\|000)'$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|000)$	$(m_{\bar{x}y}\|000)$
39.6.205	*p*4'/m'm'm	*p*$\bar{4}$2m (000;a,b,c)	$(1\|000)$	$(4_z\|000)'$	$(2_z\|000)$	$(4_z^{-1}\|000)'$
			$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|000)'$	$(2_{\bar{x}y}\|000)'$
			$(\bar{1}\|000)'$	$(\bar{4}_z\|000)$	$(m_z\|000)'$	$(\bar{4}_z^{-1}\|000)$
			$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|000)$	$(m_{\bar{x}y}\|000)$
39.7.206	*p*4'/mmm'	*p*mmm (000;a,b,c)	$(1\|000)$	$(4_z\|000)'$	$(2_z\|000)$	$(4_z^{-1}\|000)'$
			$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|000)'$	$(2_{\bar{x}y}\|000)'$
			$(\bar{1}\|000)$	$(\bar{4}_z\|000)'$	$(m_z\|000)$	$(\bar{4}_z^{-1}\|000)'$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|000)'$	$(m_{\bar{x}y}\|000)'$
39.8.207	p_{2c}4/mm'm'	*p*4/mcc (000;a,b,2c)	$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(2_x\|001)$	$(2_y\|001)$	$(2_{xy}\|001)$	$(2_{\bar{x}y}\|001)$
			$(\bar{1}\|000)$	$(\bar{4}_z\|000)$	$(m_z\|000)$	$(\bar{4}_z^{-1}\|000)$
			$(m_x\|001)$	$(m_y\|001)$	$(m_{xy}\|001)$	$(m_{\bar{x}y}\|001)$
39.9.208	p_{2c}4'/mmm'	*p*4_2mmc (000;a,b,2c)	$(1\|000)$	$(4_z\|001)$	$(2_z\|000)$	$(4_z^{-1}\|001)$
			$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|001)$	$(2_{\bar{x}y}\|001)$
			$(\bar{1}\|000)$	$(\bar{4}_z\|001)$	$(m_z\|000)$	$(\bar{4}_z^{-1}\|001)$

			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|001)$	$(m_{\bar{x}y}\|001)$
39.10.209	$p_{2c}4/mmm$	$p4/mmm$ (000;a,b,2c)	$(1\|000)$ $(2_x\|000)$ $(\bar{1}\|000)$ $(m_x\|000)$	$(4_z\|000)$ $(2_y\|000)$ $(\bar{4}_z\|000)$ $(m_y\|000)$	$(2_z\|000)$ $(2_{xy}\|000)$ $(m_z\|000)$ $(m_{xy}\|000)$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|000)$ $(\bar{4}_z^{-1}\|000)$ $(m_{\bar{x}y}\|000)$
40.1.210	$p4/mcc$		$(1\|000)$ $(2_x\|00½)$ $(\bar{1}\|000)$ $(m_x\|00½)$	$(4_z\|000)$ $(2_y\|00½)$ $(\bar{4}_z\|000)$ $(m_y\|00½)$	$(2_z\|000)$ $(2_{xy}\|00½)$ $(m_z\|000)$ $(m_{xy}\|00½)$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|00½)$ $(\bar{4}_z^{-1}\|000)$ $(m_{\bar{x}y}\|00½)$
40.2.211	$p4/mcc1'$					
40.3.212	$p4/m'c'c'$	$p422$ (00¼;a,b,c)	$(1\|000)$ $(2_x\|00½)$ $(\bar{1}\|000)'$ $(m_x\|00½)'$	$(4_z\|000)$ $(2_y\|00½)$ $(\bar{4}_z\|000)'$ $(m_y\|00½)'$	$(2_z\|000)$ $(2_{xy}\|00½)$ $(m_z\|000)'$ $(m_{xy}\|00½)'$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|00½)$ $(\bar{4}_z^{-1}\|000)'$ $(m_{\bar{x}y}\|00½)'$
40.4.213	$p4/mc'c'$	$p4/m$ (000;a,b,c)	$(1\|000)$ $(2_x\|00½)'$ $(\bar{1}\|000)$ $(m_x\|00½)'$	$(4_z\|000)$ $(2_y\|00½)'$ $(\bar{4}_z\|000)$ $(m_y\|00½)'$	$(2_z\|000)$ $(2_{xy}\|00½)'$ $(m_z\|000)$ $(m_{xy}\|00½)'$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|00½)'$ $(\bar{4}_z^{-1}\|000)$ $(m_{\bar{x}y}\|00½)'$
40.5.214	$p4/m'cc$	$p4cc$ (000;a,b,c)	$(1\|000)$ $(2_x\|00½)'$ $(\bar{1}\|000)'$ $(m_x\|00½)$	$(4_z\|000)$ $(2_y\|00½)'$ $(\bar{4}_z\|000)'$ $(m_y\|00½)$	$(2_z\|000)$ $(2_{xy}\|00½)'$ $(m_z\|000)'$ $(m_{xy}\|00½)$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|00½)'$ $(\bar{4}_z^{-1}\|000)'$ $(m_{\bar{x}y}\|00½)$
40.6.215	$p4'/m'c'c$	$p\bar{4}2c$ (000;a,b,c)	$(1\|000)$	$(4_z\|000)'$	$(2_z\|000)$	$(4_z^{-1}\|000)'$

			$(2_x\|00½)$	$(2_y\|00½)$	$(2_{xy}\|00½)'$	$(2_{\bar{x}y}\|00½)'$
			$(1\|000)'$	$(4_z\|000)$	$(m_z\|000)'$	$(4_z^{-1}\|000)$
			$(m_x\|00½)'$	$(m_y\|00½)'$	$(m_{xy}\|00½)$	$(m_{\bar{x}y}\|00½)$
40.7.216	$p4'/mcc'$	$pccm$ (000;a,b,c)	$(1\|000)$	$(4_z\|000)'$	$(2_z\|000)$	$(4_z^{-1}\|000)'$
			$(2_x\|00½)$	$(2_y\|00½)$	$(2_{xy}\|00½)'$	$(2_{\bar{x}y}\|00½)'$
			$(1\|000)$	$(4_z\|000)'$	$(m_z\|000)$	$(4_z^{-1}\|000)'$
			$(m_x\|00½)$	$(m_y\|00½)$	$(m_{xy}\|00½)'$	$(m_{\bar{x}y}\|00½)'$
41.1.217	$p4_2/mmc$		$(1\|000)$	$(4_z\|00½)$	$(2_z\|000)$	$(4_z^{-1}\|00½)$
			$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|00½)$	$(2_{\bar{x}y}\|00½)$
			$(1\|000)$	$(4_z\|00½)$	$(m_z\|000)$	$(4_z^{-1}\|00½)$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|00½)$	$(m_{\bar{x}y}\|00½)$
41.2.218	$p4_2/mmc1'$					
41.3.219	$p4_2/m'm'c'$	$p4_222$ (000;a,b,c)	$(1\|000)$	$(4_z\|00½)$	$(2_z\|000)$	$(4_z^{-1}\|00½)$
			$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|00½)$	$(2_{\bar{x}y}\|00½)$
			$(1\|000)'$	$(4_z\|00½)'$	$(m_z\|000)'$	$(4_z^{-1}\|00½)'$
			$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|00½)'$	$(m_{\bar{x}y}\|00½)'$
41.4.220	$p4_{2/}mm'c'$	$p4_2/m$ (000;a,b,c)	$(1\|000)$	$(4_z\|00½)$	$(2_z\|000)$	$(4_z^{-1}\|00½)$
			$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|00½)'$	$(2_{\bar{x}y}\|00½)'$
			$(1\|000)$	$(4_z\|00½)$	$(m_z\|000)$	$(4_z^{-1}\|00½)$
			$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|00½)'$	$(m_{\bar{x}y}\|00½)'$
41.5.221	$p4_2/m'mc$	$p4_2cm$ (000;a-b,a+b,c)	$(1\|000)$	$(4_z\|00½)$	$(2_z\|000)$	$(4_z^{-1}\|00½)$
			$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|00½)'$	$(2_{\bar{x}y}\|00½)'$
			$(1\|000)'$	$(4_z\|00½)'$	$(m_z\|000)'$	$(4_z^{-1}\|00½)'$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|00½)$	$(m_{\bar{x}y}\|00½)$
41.6.222	$p4_2'/m'mc'$	$p\bar{4}2m$ (00¼;a-b,a+b,c)	$(1\|000)$	$(4_z\|00½)'$	$(2_z\|000)$	$(4_z^{-1}\|00½)'$
			$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|00½)$	$(2_{\bar{x}y}\|00½)$

			$(\bar{1}\|000)'$	$(\bar{4}_z\|00½)$	$(m_z\|000)'$	$(\bar{4}_z^{-1}\|00½)$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|00½)'$	$(m_{\bar{x}y}\|00½)'$
41.7.223	$p4_2'/m'm'c$	$p\bar{4}2c$ (00¼;a,b,c)	$(1\|000)$	$(4_z\|00½)'$	$(2_z\|000)$	$(4_z^{-1}\|00½)'$
			$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|00½)'$	$(2_{\bar{x}y}\|00½)'$
			$(\bar{1}\|000)'$	$(\bar{4}_z\|00½)$	$(m_z\|000)'$	$(\bar{4}_z^{-1}\|00½)$
			$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|00½)$	$(m_{\bar{x}y}\|00½)$
41.8.224	$p4_2'/mmc'$	$p$mmm (000;a,b,c)	$(1\|000)$	$(4_z\|00½)'$	$(2_z\|000)$	$(4_z^{-1}\|00½)'$
			$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|00½)'$	$(2_{\bar{x}y}\|00½)'$
			$(1\|000)$	$(4_z\|00½)'$	$(m_z\|000)$	$(4_z^{-1}\|00½)'$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|00½)'$	$(m_{\bar{x}y}\|00½)'$
41.9.225	$p4_2'/mm'c$	$p$ccm (000;a-b,a+b,c)	$(1\|000)$	$(4_z\|00½)'$	$(2_z\|000)$	$(4_z^{-1}\|00½)'$
			$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|00½)$	$(2_{\bar{x}y}\|00½)$
			$(1\|000)$	$(4_z\|00½)'$	$(m_z\|000)$	$(4_z^{-1}\|00½)'$
			$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|00½)$	$(m_{\bar{x}y}\|00½)$
42.1.226	$p3$		$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$	
42.2.227	$p31'$					
42.3.228	$p_{2c}3$	$p3$ (000;a,b,2c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$	
43.1.229	$p3_1$		$(1\|000)$	$(3_z\|00_{1/3})$	$(3_z^{-1}\|00_{2/3})$	
43.2.230	$p3_11'$					

43.3.231	$p_{2c}3_2$	$p3_2$ (000;a,b,2c)	$(1\|000)$	$(3_z\|00_{4/3})$	$(3_z^{-1}\|00_{2/3})$
44.1.232	$p3_2$		$(1\|000)$	$(3_z\|00_{2/3})$	$(3_z^{-1}\|00_{1/3})$
44.2.233	$p3_21'$				
44.3.234	$p_{2c}3_1$	$p3_1$ (000;a,b,2c)	$(1\|000)$	$(3_z\|00_{2/3})$	$(3_z^{-1}\|00_{4/3})$
45.1.235	$p\bar{3}$		$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(\underline{3}_z\|000)$ $(\bar{3}_z\|000)$	$(\underline{3}_z^{-1}\|000)$ $(\bar{3}_z^{-1}\|000)$
45.2.236	$p\bar{3}1'$				
45.3.237	$p\bar{3}'$	$p3$ (000;a,b,c)	$(\underline{1}\|000)$ $(\bar{1}\|000)'$	$(\underline{3}_z\|000)$ $(\bar{3}_z\|000)'$	$(\underline{3}_z^{-1}\|000)$ $(\bar{3}_z^{-1}\|000)'$
45.4.238	$p_{2c}\bar{3}$	$p\bar{3}$ (000;a,b,2c)	$(\underline{1}\|000)$ $(\bar{1}\|000)$	$(\underline{3}_z\|000)$ $(\bar{3}_z\|000)$	$(\underline{3}_z^{-1}\|000)$ $(\bar{3}_z^{-1}\|000)$
46.1.239	$p312$		$(1\|000)$ $(2_1\|000)$	$(3_z\|000)$ $(2_2\|000)$	$(3_z^{-1}\|000)$ $(2_3\|000)$
46.2.240	$p3121'$				
46.3.241	$p312'$	$p3$ (000;a,b,c)	$(1\|000)$ $(2_1\|000)'$	$(3_z\|000)$ $(2_2\|000)'$	$(3_z^{-1}\|000)$ $(2_3\|000)'$

46.4.242	$p_{2c}312$	$p312$ (000;a,b,2c)	(1|000) (2_1|000)	(3_z|000) (2_2|000)	(3_z^{-1}|000) (2_3|000)
47.1.243	$p3_112$		(1|000) (2_1|000)	(3_z|$00_{1/3}$) (2_2|$00_{1/3}$)	(3_z^{-1}|$00_{2/3}$) (2_3|$00_{2/3}$)
47.2.244	$p3_121'$				
47.3.245	$p3_112'$	$p3_1$ (000;a,b,c)	(1|000) (2_1|000)'	(3_z|$00_{1/3}$) (2_2|$00_{1/3}$)'	(3_z^{-1}|$00_{2/3}$) (2_3|$00_{2/3}$)'
47.4.246	$p_{2c}3_212$	$p3_212$ (000;a,b,2c)	(1|000) (2_1|000)	(3_z|$00_{4/3}$) (2_2|$00_{4/3}$)	(3_z^{-1}|$00_{2/3}$) (2_3|$00_{2/3}$)
48.1.247	$p3_212$		(1|000) (2_1|000)	(3_z|$00_{2/3}$) (2_2|$00_{2/3}$)	(3_z^{-1}|$00_{1/3}$) (2_3|$00_{1/3}$)
48.2.248	$p3_221'$				
48.3.249	$p3_212'$	$p3_2$ (000;a,b,c)	(1|000) (2_1|000)'	(3_z|$00_{2/3}$) (2_2|$00_{2/3}$)'	(3_z^{-1}|$00_{1/3}$) (2_3|$00_{1/3}$)'
48.4.250	$p_{2c}3_112$	$p3_112$ (000;a,b,2c)	(1|000)	(3_z|$00_{2/3}$)	(3_z^{-1}|$00_{4/3}$)

			$(2_1\|000)$	$(2_2\|00_{2/3})$	$(2_3\|00_{4/3})$
49.1.251	*p*3m1		$(1\|000)$ $(m_x\|000)$	$(3_z\|000)$ $(m_y\|000)$	$(3_z^{-1}\|000)$ $(m_{\bar{x}y}\|000)$
49.2.252	*p*3m1'				
49.3.253	*p*3m'1	*p*3 (000;a,b,c)	$(1\|000)$ $(m_x\|000)'$	$(3_z\|000)$ $(m_y\|000)'$	$(3_z^{-1}\|000)$ $(m_{\bar{x}y}\|000)'$
49.4.254	p_{2c}3m'1	*p*3c1 (000;a,b,2c)	$(1\|000)$ $(m_x\|001)$	$(3_z\|000)$ $(m_y\|001)$	$(3_z^{-1}\|000)$ $(m_{\bar{x}y}\|001)$
49.5.255	p_{2c}3m1	*p*3m1 (000;a,b,2c)	$(1\|000)$ $(m_x\|000)$	$(3_z\|000)$ $(m_y\|000)$	$(3_z^{-1}\|000)$ $(m_{\bar{x}y}\|000)$
50.1.256	*p*3c1		$(1\|000)$ $(m_x\|00½)$	$(3_z\|000)$ $(m_y\|00½)$	$(3_z^{-1}\|000)$ $(m_{\bar{x}y}\|00½)$
50.2.257	*p*3c11'				
50.3.258	*p*3c'1	*p*3 (000;a,b,c)	$(1\|000)$ $(m_x\|00½)'$	$(3_z\|000)$ $(m_y\|00½)'$	$(3_z^{-1}\|000)$ $(m_{\bar{x}y}\|00½)'$

51.1.259	$p\bar{3}1m$		$(1\|000)$ $(2_1\|000)$ $(\bar{1}\|000)$ $(m_1\|000)$	$(3_z\|000)$ $(2_2\|000)$ $(\bar{3}_z\|000)$ $(m_2\|000)$	$(3_z^{-1}\|000)$ $(2_3\|000)$ $(\bar{3}_z^{-1}\|000)$ $(m_3\|000)$
51.2.260	$p\bar{3}1m1'$				
51.3.261	$p\bar{3}'1m'$	$p312$ (000;a,b,c)	$(1\|000)$ $(2_1\|000)$ $(\bar{1}\|000)'$ $(m_1\|000)'$	$(3_z\|000)$ $(2_2\|000)$ $(\bar{3}_z\|000)'$ $(m_2\|000)'$	$(3_z^{-1}\|000)$ $(2_3\|000)$ $(\bar{3}_z^{-1}\|000)'$ $(m_3\|000)'$
51.4.262	$p\bar{3}1m'$	$p\bar{3}$ (000;a,b,c)	$(1\|000)$ $(2_1\|000)'$ $(\bar{1}\|000)$ $(m_1\|000)'$	$(3_z\|000)$ $(2_2\|000)'$ $(\bar{3}_z\|000)$ $(m_2\|000)'$	$(3_z^{-1}\|000)$ $(2_3\|000)'$ $(\bar{3}_z^{-1}\|000)$ $(m_3\|000)'$
51.5.263	$p\bar{3}'1m$	$p3m1$ (000;2a+b,-a+b,c)	$(1\|000)$ $(2_1\|000)'$ $(\bar{1}\|000)'$ $(m_1\|000)$	$(3_z\|000)$ $(2_2\|000)'$ $(\bar{3}_z\|000)'$ $(m_2\|000)$	$(3_z^{-1}\|000)$ $(2_3\|000)'$ $(\bar{3}_z^{-1}\|000)'$ $(m_3\|000)$
51.6.264	$p_{2c}\bar{3}1m'$	$p\bar{3}1c$ (000;a,b,2c)	$(1\|000)$ $(2_1\|001)$	$(3_z\|000)$ $(2_2\|001)$	$(3_z^{-1}\|000)$ $(2_3\|001)$

			$(\bar{1}\|000)$ $(m_1\|001)$	$(\bar{3}_z\|000)$ $(m_2\|001)$	$(\bar{3}_z^{-1}\|000)$ $(m_3\|001)$
51.7.265	$p_{2c}\bar{3}1m$	$p\bar{3}1m$ (000;a,b,2c)	$(1\|000)$ $(2_1\|000)$ $(\bar{1}\|000)$ $(m_1\|000)$	$(3_z\|000)$ $(2_2\|000)$ $(\bar{3}_z\|000)$ $(m_2\|000)$	$(3_z^{-1}\|000)$ $(2_3\|000)$ $(\bar{3}_z^{-1}\|000)$ $(m_3\|000)$
52.1.266	$p\bar{3}1c$		$(1\|000)$ $(2_1\|00½)$ $(\bar{1}\|000)$ $(m_1\|00½)$	$(3_z\|000)$ $(2_2\|00½)$ $(\bar{3}_z\|000)$ $(m_2\|00½)$	$(3_z^{-1}\|000)$ $(2_3\|00½)$ $(\bar{3}_z^{-1}\|000)$ $(m_3\|00½)$
52.2.267	$p\bar{3}1c1'$				
52.3.268	$p\bar{3}'1c'$	$p312$ (00¼;a,b,c)	$(1\|000)$ $(2_1\|00½)$ $(\bar{1}\|000)'$ $(m_1\|00½)'$	$(3_z\|000)$ $(2_2\|00½)$ $(\bar{3}_z\|000)'$ $(m_2\|00½)'$	$(3_z^{-1}\|000)$ $(2_3\|00½)$ $(\bar{3}_z^{-1}\|000)'$ $(m_3\|00½)'$
52.4.269	$p\bar{3}1c'$	$p\bar{3}$ (000;a,b,c)	$(1\|000)$ $(2_1\|00½)'$ $(\bar{1}\|000)$ $(m_1\|00½)'$	$(3_z\|000)$ $(2_2\|00½)'$ $(\bar{3}_z\|000)$ $(m_2\|00½)'$	$(3_z^{-1}\|000)$ $(2_3\|00½)'$ $(\bar{3}_z^{-1}\|000)$ $(m_3\|00½)'$
52.5.270	$p\bar{3}'1c$	$p3c1$ (000;2a+b,-a+b,c)	$(1\|000)$ $(2_1\|00½)'$ $(\bar{1}\|000)'$ $(m_1\|00½)$	$(3_z\|000)$ $(2_2\|00½)'$ $(\bar{3}_z\|000)'$ $(m_2\|00½)$	$(3_z^{-1}\|000)$ $(2_3\|00½)'$ $(\bar{3}_z^{-1}\|000)'$ $(m_3\|00½)$

53.1.271	*p*6		(1|000) (2_z|000)	(3_z|000) (6_z^{-1}|000)	(3_z^{-1}|000) (6_z|000)
53.2.272	*p*61'				
53.3.273	*p*6'	*p*3 (000;a,b,c)	(1|000) (2_z|000)'	(3_z|000) (6_z^{-1}|000)'	(3_z^{-1}|000) (6_z|000)'
53.4.274	p_{2c}6'	$p6_3$ (000;a,b,2c)	(1|000) (2_z|001)	(3_z|000) (6_z^{-1}|001)	(3_z^{-1}|000) (6_z|001)
53.5.275	p_{2c}6	*p*6 (000;a,b,2c)	(1|000) (2_z|000)	(3_z|000) (6_z^{-1}|000)	(3_z^{-1}|000) (6_z|000)
54.1.276	$p6_1$		(1|000) (2_z|$00_{1/2}$)	(3_z|$00_{1/3}$) (6_z^{-1}|$00_{5/6}$)	(3_z^{-1}|$00_{2/3}$) (6_z|$00_{1/6}$)
54.2.277	$p6_1$1'				
54.3.278	$p6_1$'	$p3_1$ (000;a,b,c)	(1|000) (2_z|$00_{1/2}$)'	(3_z|$00_{1/3}$) (6_z^{-1}|$00_{5/6}$)'	(3_z^{-1}|$00_{2/3}$) (6_z|$00_{1/6}$)'

55.1.279	$p6_2$		$(1\|000)$ $(2_z\|000)$	$(3_z\|00_{2/3})$ $(6_z^{-1}\|00_{2/3})$	$(3_z^{-1}\|00_{1/3})$ $(6_z\|00_{1/3})$
55.2.280	$p6_21'$				
55.3.281	$p6_2'$	$p3_2$ (000;a,b,c)	$(1\|000)$ $(2_z\|000)'$	$(3_z\|00_{2/3})$ $(6_z^{-1}\|00_{2/3})'$	$(3_z^{-1}\|00_{1/3})$ $(6_z\|00_{1/3})'$
55.4.282	$p_{2c}6_2$	$p6_1$ (000;a,b,2c)	$(1\|000)$ $(2_z\|001)$	$(3_z\|00_{2/3})$ $(6_z^{-1}\|00_{5/3})$	$(3_z^{-1}\|00_{4/3})$ $(6_z\|00_{1/3})$
55.5.283	$p_{2c}6_2'$	$p6_4$ (000;a,b,2c)	$(1\|000)$ $(2_z\|000)$	$(3_z\|00_{2/3})$ $(6_z^{-1}\|00_{2/3})$	$(3_z^{-1}\|00_{4/3})$ $(6_z\|00_{4/3})$
56.1.284	$p6_3$		$(1\|000)$ $(2_z\|00½)$	$(3_z\|000)$ $(6_z^{-1}\|00½)$	$(3_z^{-1}\|000)$ $(6_z\|00½)$
56.2.285	$p6_31'$				
56.3.286	$p6_3'$	$p3$ (000;a,b,c)	$(1\|000)$ $(2_z\|00½)'$	$(3_z\|000)$ $(6_z^{-1}\|00½)'$	$(3_z^{-1}\|000)$ $(6_z\|00½)'$

57.1.287	$p6_4$		$(1\|000)$ $(2_z\|000)$	$(3_z\|00_{1/3})$ $(6_z^{-1}\|00_{1/3})$	$(3_z^{-1}\|00_{2/3})$ $(6_z\|00_{2/3})$
57.2.288	$p6_41'$				
57.3.289	$p6_4'$	$p3_1$ (000;a,b,c)	$(1\|000)$ $(2_z\|000)'$	$(3_z\|00_{1/3})$ $(6_z^{-1}\|00_{1/3})'$	$(3_z^{-1}\|00_{2/3})$ $(6_z\|00_{2/3})'$
57.4.290	$p_{2c}6_4'$	$p6_5$ (000;a,b,2c)	$(1\|000)$ $(2_z\|001)$	$(3_z\|00_{4/3})$ $(6_z^{-1}\|00_{1/3})$	$(3_z^{-1}\|00_{2/3})$ $(6_z\|00_{5/3})$
57.5.291	$p_{2c}6_4$	$p6_2$ (000;a,b,2c)	$(1\|000)$ $(2_z\|000)$	$(3_z\|00_{4/3})$ $(6_z^{-1}\|00_{4/3})$	$(3_z^{-1}\|00_{2/3})$ $(6_z\|00_{2/3})$
58.1.292	$p6_5$		$(1\|000)$ $(2_z\|00_{1/2})$	$(3_z\|00_{2/3})$ $(6_z^{-1}\|00_{1/6})$	$(3_z^{-1}\|00_{1/3})$ $(6_z\|00_{5/6})$
58.2.293	$p6_51'$				
58.3.294	$p6_5'$	$p3_2$ (000;a,b,c)	$(1\|000)$ $(2_z\|00_{1/2})'$	$(3_z\|00_{2/3})$ $(6_z^{-1}\|00_{1/6})'$	$(3_z^{-1}\|00_{1/3})$ $(6_z\|00_{5/6})'$

59.1.295	$p\bar{6}$		(1|000) (m_z|000)	(3_z|000) ($\bar{6}_z^{-1}$|000)	(3_z^{-1}|000) ($\bar{6}_z$|000)
59.2.296	$p\bar{6}$1'				
59.3.297	$p\bar{6}$'	p3 (000;a,b,c)	(1|000) (m_z|000)'	(3_z|000) ($\bar{6}_z^{-1}$|000)'	(3_z^{-1}|000) ($\bar{6}_z$|000)'
59.4.298	$p_{2c}\bar{6}$	$p\bar{6}$ (000;a,b,2c)	(1|000) (m_z|000)	(3_z|000) ($\bar{6}_z^{-1}$|000)	(3_z^{-1}|000) ($\bar{6}_z$|000)
60.1.299	p6/m		(1|000) (2_z|000) ($\bar{1}$|000) (m_z|000)	(3_z|000) (6_z^{-1}|000) ($\bar{3}_z$|000) ($\bar{6}_z^{-1}$|000)	(3_z^{-1}|000) (6_z|000) ($\bar{3}_z^{-1}$|000) ($\bar{6}_z$|000)
60.2.300	p6/m1'				
60.3.301	p6/m'	p6 (000;a,b,c)	(1|000) (2_z|000) ($\bar{1}$|000)' (m_z|000)'	(3_z|000) (6_z^{-1}|000) ($\bar{3}_z$|000)' ($\bar{6}_z^{-1}$|000)'	(3_z^{-1}|000) (6_z|000) ($\bar{3}_z^{-1}$|000)' ($\bar{6}_z$|000)'
60.4.302	p6'/m'	$p\bar{3}$ (000;a,b,c)	(1|000) (2_z|000)' ($\bar{1}$|000) (m_z|000)'	(3_z|000) (6_z^{-1}|000)' ($\bar{3}_z$|000) ($\bar{6}_z^{-1}$|000)'	(3_z^{-1}|000) (6_z|000)' ($\bar{3}_z^{-1}$|000) ($\bar{6}_z$|000)'

60.5.303	*p*6'/m	*p*$\bar{6}$ (000;a,b,c)	(1|000)	(3_z|000)	(3_z^{-1}|000)
			(2_z|000)'	(6_z^{-1}|000)'	(6_z|000)'
			($\bar{1}$|000)'	($\bar{3}_z$|000)'	($\bar{3}_z^{-1}$|000)'
			(m_z|000)	(6_z^{-1}|000)	(6_z|000)
60.6.304	p_{2c}6'/m'	*p*6_3/m (000;a,b,2c)	(1|000)	(3_z|000)	(3_z^{-1}|000)
			(2_z|001)	(6_z^{-1}|001)	(6_z|001)
			($\bar{1}$|000)	($\bar{3}_z$|000)	($\bar{3}_z^{-1}$|000)
			(m_z|001)	(6_z^{-1}|001)	(6_z|001)
60.7.305	p_{2c}6/m	*p*6/m (000;a,b,2c)	(1|000)	(3_z|000)	(3_z^{-1}|000)
			(2_z|000)	(6_z^{-1}|000)	(6_z|000)
			($\bar{1}$|000)	($\bar{3}_z$|000)	($\bar{3}_z^{-1}$|000)
			(m_z|000)	(6_z^{-1}|000)	(6_z|000)
61.1.306	*p*6_3/m		(1|000)	(3_z|000)	(3_z^{-1}|000)
			(2_z|00½)	(6_z^{-1}|00½)	(6_z|00½)
			($\bar{1}$|000)	($\bar{3}_z$|000)	($\bar{3}_z^{-1}$|000)
			(m_z|00½)	(6_z^{-1}|00½)	(6_z|00½)
61.2.307	*p*6_3/m1'				
61.3.308	*p*6_3/m'	*p*6_3 (000;a,b,c)	(1|000)	(3_z|000)	(3_z^{-1}|000)
			(2_z|00½)	(6_z^{-1}|00½)	(6_z|00½)
			($\bar{1}$|000)'	($\bar{3}_z$|000)'	($\bar{3}_z^{-1}$|000)'
			(m_z|00½)'	(6_z^{-1}|00½)'	(6_z|00½)'
61.4.309	*p*6_3'/m'	*p*$\bar{3}$ (000;a,b,c)	(1|000)	(3_z|000)	(3_z^{-1}|000)
			(2_z|00½)'	(6_z^{-1}|00½)'	(6_z|00½)'

			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|00½)'$	$(\bar{6}_z^{-1}\|00½)'$	$(\bar{6}_z\|00½)'$
61.5.310	$p6_3'/m$	$p\bar{6}$ (00¼;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|00½)'$	$(6_z^{-1}\|00½)'$	$(6_z\|00½)'$
			$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$
			$(m_z\|00½)$	$(\bar{6}_z^{-1}\|00½)$	$(\bar{6}_z\|00½)$
62.1.311	$p622$		$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)$	$(6_z^{-1}\|000)$	$(6_z\|000)$
			$(2_{xy}\|000)$	$(2_x\|000)$	$(2_y\|000)$
			$(2_3\|000)$	$(2_2\|000)$	$(2_1\|000)$
62.2.312	$p6221'$				
62.3.313	$p62'2'$	$p6$ (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)$	$(6_z^{-1}\|000)$	$(6_z\|000)$
			$(2_{xy}\|000)'$	$(2_x\|000)'$	$(2_y\|000)'$
			$(2_3\|000)'$	$(2_2\|000)'$	$(2_1\|000)'$
62.4.314	$p6'2'2$	$p312$ (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)'$	$(6_z^{-1}\|000)'$	$(6_z\|000)'$
			$(2_{xy}\|000)'$	$(2_x\|000)'$	$(2_y\|000)'$
			$(2_3\|000)$	$(2_2\|000)$	$(2_1\|000)$
62.5.315	$p6_{2c}6'22'$	$p6_322$ (000;a,b,2c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|001)$	$(6_z^{-1}\|001)$	$(6_z\|001)$
			$(2_{xy}\|000)$	$(2_x\|000)$	$(2_y\|000)$
			$(2_3\|001)$	$(2_2\|001)$	$(2_1\|001)$

62.6.316	$p_{2c}622$	$p622$ (000;a,b,2c)	$(1\|000)$ $(2_z\|000)$ $(2_{xy}\|000)$ $(2_3\|000)$	$(3_z\|000)$ $(6_z^{-1}\|000)$ $(2_x\|000)$ $(2_2\|000)$	$(3_z^{-1}\|000)$ $(6_z\|000)$ $(2_y\|000)$ $(2_1\|000)$
63.1.317	$p6_122$		$(1\|000)$ $(2_z\|00_{1/2})$ $(2_{xy}\|00_{1/3})$ $(2_3\|00_{5/6})$	$(3_z\|00_{1/3})$ $(6_z^{-1}\|00_{5/6})$ $(2_x\|000)$ $(2_2\|00_{1/2})$	$(3_z^{-1}\|00_{2/3})$ $(6_z\|00_{1/6})$ $(2_y\|00_{2/3})$ $(2_1\|00_{1/6})$
63.2.318	$p6_122'$				
63.3.319	$p6_12'2'$	$p6_1$ (000;a,b,c)	$(1\|000)$ $(2_z\|00_{1/2})$ $(2_{xy}\|00_{1/3})'$ $(2_3\|00_{5/6})'$	$(3_z\|00_{1/3})$ $(6_z^{-1}\|00_{5/6})$ $(2_x\|000)'$ $(2_2\|00_{1/2})'$	$(3_z^{-1}\|00_{2/3})$ $(6_z\|00_{1/6})$ $(2_y\|00_{2/3})'$ $(2_1\|00_{1/6})'$
63.4.320	$p6_1'2'2$	$p3_112$ ($00_{1/12}$;a,b,c)	$(1\|000)$ $(2_z\|00_{1/2})'$ $(2_{xy}\|00_{1/3})'$ $(2_3\|00_{5/6})$	$(3_z\|00_{1/3})$ $(6_z^{-1}\|00_{5/6})'$ $(2_x\|000)'$ $(2_2\|00_{1/2})$	$(3_z^{-1}\|00_{2/3})$ $(6_z\|00_{1/6})'$ $(2_y\|00_{2/3})'$ $(2_1\|00_{1/6})$
64.1.321	$p6_222$		$(1\|000)$ $(2_z\|000)$ $(2_{xy}\|00_{2/3})$ $(2_3\|00_{2/3})$	$(3_z\|00_{2/3})$ $(6_z^{-1}\|00_{2/3})$ $(2_x\|000)$ $(2_2\|000)$	$(3_z^{-1}\|00_{1/3})$ $(6_z\|00_{1/3})$ $(2_y\|00_{1/3})$ $(2_1\|00_{1/3})$
64.2.322	$p6_222'$				

64.3.323	$p6_22'2'$	$p6_2$ (000;a,b,c)	$(1\|000)$ $(2_z\|000)$ $(2_{xy}\|00_{2/3})'$ $(2_3\|00_{2/3})'$	$(3_z\|00_{2/3})$ $(6_z^{-1}\|00_{2/3})$ $(2_x\|000)'$ $(2_2\|000)'$	$(3_z^{-1}\|00_{1/3})$ $(6_z\|00_{1/3})$ $(2_y\|00_{1/3})'$ $(2_1\|00_{1/3})'$
64.4.324	$p6_2'2'2$	$p3_212$ $(00_{1/6};a,b,c)$	$(1\|000)$ $(2_z\|000)'$ $(2_{xy}\|00_{2/3})'$ $(2_3\|00_{2/3})$	$(3_z\|00_{2/3})$ $(6_z^{-1}\|00_{2/3})'$ $(2_x\|000)'$ $(2_2\|000)$	$(3_z^{-1}\|00_{1/3})$ $(6_z\|00_{1/3})'$ $(2_y\|00_{1/3})'$ $(2_1\|00_{1/3})$
64.5.325	$p_{2c}6_222$	$p6_122$ (000;a,b,2c)	$(1\|000)$ $(2_z\|001)$ $(2_{xy}\|00_{2/3})$ $(2_3\|00_{5/3})$	$(3_z\|00_{2/3})$ $(6_z^{-1}\|00_{5/3})$ $(2_x\|000)$ $(2_2\|001)$	$(3_z^{-1}\|00_{4/3})$ $(6_z\|00_{1/3})$ $(2_y\|00_{4/3})$ $(2_1\|00_{1/3})$
64.6.326	$p_{2c}6_2'22'$	$p_{2c}6_422(000;a,b,c)$	$(1\|000)$ $(2_z\|000)$ $(2_{xy}\|00_{2/3})$ $(2_3\|00_{2/3})$	$(3_z\|00_{2/3})$ $(6_z^{-1}\|00_{2/3})$ $(2_x\|000)$ $(2_2\|000)$	$(3_z^{-1}\|00_{4/3})$ $(6_z\|00_{4/3})$ $(2_y\|00_{4/3})$ $(2_1\|00_{4/3})$
65.1.327	$p6_322$		$(1\|000)$ $(2_z\|00½)$ $(2_{xy}\|000)$ $(2_3\|00½)$	$(3_z\|000)$ $(6_z^{-1}\|00½)$ $(2_x\|000)$ $(2_2\|00½)$	$(3_z^{-1}\|000)$ $(6_z\|00½)$ $(2_y\|000)$ $(2_1\|00½)$
65.2.328	$p6_3221'$				
65.3.329	$p6_32'2'$	$p6_3$ (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$

			$(2_z\|00½)$	$(6_z^{-1}\|00½)$	$(6_z\|00½)$
			$(2_{xy}\|000)'$	$(2_x\|000)'$	$(2_y\|000)'$
			$(2_3\|00½)'$	$(2_2\|00½)'$	$(2_1\|00½)'$
65.4.330	$p6_3'2'2$	$p312$ (00¼;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|00½)'$	$(6_z^{-1}\|00½)'$	$(6_z\|00½)'$
			$(2_{xy}\|000)'$	$(2_x\|000)'$	$(2_y\|000)'$
			$(2_3\|00½)$	$(2_2\|00½)$	$(2_1\|00½)$
66.1.331	$p6_422$		$(1\|000)$	$(3_z\|00_{1/3})$	$(3_z^{-1}\|00_{2/3})$
			$(2_z\|000)$	$(6_z^{-1}\|00_{1/3})$	$(6_z\|00_{2/3})$
			$(2_{xy}\|00_{1/3})$	$(2_x\|000)$	$(2_y\|00_{2/3})$
			$(2_3\|00_{1/3})$	$(2_2\|000)$	$(2_1\|00_{2/3})$
66.2.332	$p6_4221'$				
66.3.333	$p6_42'2'$	$p6_4$ (000;a,b,c)	$(1\|000)$	$(3_z\|00_{1/3})$	$(3_z^{-1}\|00_{2/3})$
			$(2_z\|000)$	$(6_z^{-1}\|00_{1/3})$	$(6_z\|00_{2/3})$
			$(2_{xy}\|00_{1/3})'$	$(2_x\|000)'$	$(2_y\|00_{2/3})'$
			$(2_3\|00_{1/3})'$	$(2_2\|000)'$	$(2_1\|00_{2/3})'$
66.4.334	$p6_4'2'2$	$p3_112$ (00$_{1/3}$;a,b,c)	$(1\|000)$	$(3_z\|00_{1/3})$	$(3_z^{-1}\|00_{2/3})$
			$(2_z\|000)'$	$(6_z^{-1}\|00_{1/3})'$	$(6_z\|00_{2/3})'$
			$(2_{xy}\|00_{1/3})'$	$(2_x\|000)'$	$(2_y\|00_{2/3})'$
			$(2_3\|00_{1/3})$	$(2_2\|000)$	$(2_1\|00_{2/3})$
66.5.335	$p_{2c}6_4'22'$	$p6_522$ (000;a,b,2c)	$(1\|000)$	$(3_z\|00_{4/3})$	$(3_z^{-1}\|00_{2/3})$
			$(2_z\|001)$	$(6_z^{-1}\|00_{1/3})$	$(6_z\|00_{5/3})$
			$(2_{xy}\|00_{4/3})$	$(2_x\|000)$	$(2_y\|00_{2/3})$
			$(2_3\|00_{1/3})$	$(2_2\|001)$	$(2_1\|00_{5/3})$

66.6.336 $p_{2c}6_422$ $p6_222$ (000;a,b,2c)

$(1|000)$ $(3_z|00_{4/3})$ $(3_z^{-1}|00_{2/3})$
$(2_z|000)$ $(6_z^{-1}|00_{4/3})$ $(6_z|00_{2/3})$
$(2_{xy}|00_{4/3})$ $(2_x|000)$ $(2_y|00_{2/3})$
$(2_3|00_{4/3})$ $(2_2|000)$ $(2_1|00_{2/3})$

67.1.337 $p6_522$

$(1|000)$ $(3_z|00_{2/3})$ $(3_z^{-1}|00_{1/3})$
$(2_z|00_{1/2})$ $(6_z^{-1}|00_{1/6})$ $(6_z|00_{5/6})$
$(2_{xy}|00_{2/3})$ $(2_x|000)$ $(2_y|00_{1/3})$
$(2_3|00_{1/6})$ $(2_2|00_{1/2})$ $(2_1|00_{5/6})$

67.2.338 $p6_5221'$

67.3.339 $p6_52'2'$ $p6_5$ (000;a,b,c)

$(1|000)$ $(3_z|00_{2/3})$ $(3_z^{-1}|00_{1/3})$
$(2_z|00_{1/2})$ $(6_z^{-1}|00_{1/6})$ $(6_z|00_{5/6})$
$(2_{xy}|00_{2/3})'$ $(2_x|000)'$ $(2_y|00_{1/3})'$
$(2_3|00_{1/6})'$ $(2_2|00_{1/2})'$ $(2_1|00_{5/6})'$

67.4.340 $p6_5'2'2$ $p3_212$ (00$^{-1/12}$;a,b,c)

$(1|000)$ $(3_z|00_{2/3})$ $(3_z^{-1}|00_{1/3})$
$(2_z|00_{1/2})'$ $(6_z^{-1}|00_{1/6})'$ $(6_z|00_{5/6})'$
$(2_{xy}|00_{2/3})'$ $(2_x|000)'$ $(2_y|00_{1/3})'$
$(2_3|00_{1/6})$ $(2_2|00_{1/2})$ $(2_1|00_{5/6})$

68.1.341	*p*6mm		$(1\|000)$ $(2_z\|000)$ $(m_{xy}\|000)$ $(m_3\|000)$	$(3_z\|000)$ $(6_z^{-1}\|000)$ $(m_x\|000)$ $(m_2\|000)$	$(3_z^{-1}\|000)$ $(6_z\|000)$ $(m_y\|000)$ $(m_1\|000)$
68.2.342	*p*6mm1'				
68.3.343	*p*6m'm'	*p*6 (000;a,b,c)	$(1\|000)$ $(2_z\|000)$ $(m_{xy}\|000)'$ $(m_3\|000)'$	$(3_z\|000)$ $(6_z^{-1}\|000)$ $(m_x\|000)'$ $(m_2\|000)'$	$(3_z^{-1}\|000)$ $(6_z\|000)$ $(m_y\|000)'$ $(m_1\|000)'$
68.4.344	*p*6'mm'	*p*3m1 (000;a,b,c)	$(1\|000)$ $(2_z\|000)'$ $(m_{xy}\|000)$ $(m_3\|000)'$	$(3_z\|000)$ $(6_z^{-1}\|000)'$ $(m_x\|000)$ $(m_2\|000)'$	$(3_z^{-1}\|000)$ $(6_z\|000)'$ $(m_y\|000)$ $(m_1\|000)'$
68.5.345	p_{2c}6m'm'	*p*6cc (000;a,b,2c)	$(1\|000)$ $(2_z\|000)$ $(m_{xy}\|001)$ $(m_3\|001)$	$(3_z\|000)$ $(6_z^{-1}\|000)$ $(m_x\|001)$ $(m_2\|001)$	$(3_z^{-1}\|000)$ $(6_z\|000)$ $(m_y\|001)$ $(m_1\|001)$
68.6.346	p_{2c}6'mm'	$p6_3mc$ (000;a,b,2c)	$(1\|000)$ $(2_z\|001)$ $(m_{xy}\|000)$ $(m_3\|001)$	$(3_z\|000)$ $(6_z^{-1}\|001)$ $(m_x\|000)$ $(m_2\|001)$	$(3_z^{-1}\|000)$ $(6_z\|001)$ $(m_y\|000)$ $(m_1\|001)$
68.7.347	p_{2c}6mm	*p*6mm (000;a,b,2c)	$(1\|000)$ $(2_z\|000)$ $(m_{xy}\|000)$ $(m_3\|000)$	$(3_z\|000)$ $(6_z^{-1}\|000)$ $(m_x\|000)$ $(m_2\|000)$	$(3_z^{-1}\|000)$ $(6_z\|000)$ $(m_y\|000)$ $(m_1\|000)$

69.1.348	*p*6cc		(1|000)	(3_z|000)	(3_z^{-1}|000)
			(2_z|000)	(6_z^{-1}|000)	(6_z|000)
			(m_{xy}|00½)	(m_x|00½)	(m_y|00½)
			(m_3|00½)	(m_2|00½)	(m_1|00½)
69.2.349	*p*6cc1'				
69.3.350	*p*6c'c'	*p*6 (000;a,b,c)	(1|000)	(3_z|000)	(3_z^{-1}|000)
			(2_z|000)	(6_z^{-1}|000)	(6_z|000)
			(m_{xy}|00½)'	(m_x|00½)'	(m_y|00½)'
			(m_3|00½)'	(m_2|00½)'	(m_1|00½)'
69.4.351	*p*6'cc'	*p*3c1 (000;a,b,c)	(1|000)	(3_z|000)	(3_z^{-1}|000)
			(2_z|000)'	(6_z^{-1}|000)'	(6_z|000)'
			(m_{xy}|00½)	(m_x|00½)	(m_y|00½)
			(m_3|00½)'	(m_2|00½)'	(m_1|00½)'
70.1.352	*p*6_3mc		(1|000)	(3_z|000)	(3_z^{-1}|000)
			(2_z|00½)	(6_z^{-1}|00½)	(6_z|00½)
			(m_{xy}|000)	(m_x|000)	(m_y|000)
			(m_3|00½)	(m_2|00½)	(m_1|00½)
70.2.353	*p*6_3mc1'				
70.3.354	*p*6_3m'c'	*p*6_3 (000;a,b,c)	(1|000)	(3_z|000)	(3_z^{-1}|000)

			$(2_z\|00½)$	$(6_z^{-1}\|00½)$	$(6_z\|00½)$
			$(m_{xy}\|000)'$	$(m_x\|000)'$	$(m_y\|000)'$
			$(m_3\|00½)'$	$(m_2\|00½)'$	$(m_1\|00½)'$
70.4.355	$p6_3'mc'$	$p3m1$ (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|00½)'$	$(6_z^{-1}\|00½)'$	$(6_z\|00½)'$
			$(m_{xy}\|000)$	$(m_x\|000)$	$(m_y\|000)$
			$(m_3\|00½)'$	$(m_2\|00½)'$	$(m_1\|00½)'$
70.5.356	$p6_3'm'c$	$p3c1$ (000;2a+b,-a+b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|00½)'$	$(6_z^{-1}\|00½)'$	$(6_z\|00½)'$
			$(m_{xy}\|000)'$	$(m_x\|000)'$	$(m_y\|000)'$
			$(m_3\|00½)$	$(m_2\|00½)$	$(m_1\|00½)$
71.1.357	$p\bar{6}m2$		$(1\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$	$(\bar{6}_z\|000)$
			$(m_{xy}\|000)$	$(m_x\|000)$	$(m_y\|000)$
			$(2_3\|000)$	$(2_2\|000)$	$(2_1\|000)$
71.2.358	$p\bar{6}m21'$				
71.3.359	$p\bar{6}m'2'$	$p\bar{6}$ (000;a,b,c)	$(1\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$	$(\bar{6}_z\|000)$
			$(m_{xy}\|000)'$	$(m_x\|000)'$	$(m_y\|000)'$
			$(2_3\|000)'$	$(2_2\|000)'$	$(2_1\|000)'$
71.4.360	$p\bar{6}'m2'$	$p3m1$ (000;a,b,c)	$(1\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|000)'$	$(\bar{6}_z^{-1}\|000)'$	$(\bar{6}_z\|000)'$
			$(m_{xy}\|000)$	$(m_x\|000)$	$(m_y\|000)$
			$(2_3\|000)'$	$(2_2\|000)'$	$(2_1\|000)'$

71.5.361	$p\bar{6}$'m'2	p312 (000;a,b,c)	(1|000) (m_z|000)' (m_{xy}|000)' (2_3|000)	(3_z|000) ($\bar{6}_z^{-1}$|000)' (m_x|000)' (2_2|000)	(3_z^{-1}|000) ($\bar{6}_z$|000)' (m_y|000)' (2_1|000)
71.6.362	$p_{2c}\bar{6}$m'2'	$p\bar{6}$c2 (000;a,b,2c)	(1|000) (m_z|000) (m_{xy}|001) (2_3|001)	(3_z|000) ($\bar{6}_z^{-1}$|000) (m_x|001) (2_2|001)	(3_z^{-1}|000) ($\bar{6}_z$|000) (m_y|001) (2_1|001)
71.7.363	$p_{2c}\bar{6}$m2	$p\bar{6}$m2 (000;a,b,2c)	(1|000) (m_z|000) (m_{xy}|000) (2_3|000)	(3_z|000) ($\bar{6}_z^{-1}$|000) (m_x|000) (2_2|000)	(3_z^{-1}|000) ($\bar{6}_z$|000) (m_y|000) (2_1|000)
72.1.364	$p\bar{6}$c2		(1|000) (m_z|000) (m_{xy}|00½) (2_3|00½)	(3_z|000) ($\bar{6}_z^{-1}$|000) (m_x|00½) (2_2|00½)	(3_z^{-1}|000) ($\bar{6}_z$|000) (m_y|00½) (2_1|00½)
72.2.365	$p\bar{6}$c21'				
72.3.366	$p\bar{6}$c'2'	$p\bar{6}$ (000;a,b,c)	(1|000) (m_z|000) (m_{xy}|00½)' (2_3|00½)'	(3_z|000) ($\bar{6}_z^{-1}$|000) (m_x|00½)' (2_2|00½)'	(3_z^{-1}|000) ($\bar{6}_z$|000) (m_y|00½)' (2_1|00½)'
72.4.367	$p\bar{6}$'c2'	p3c1 (000;a,b,c)	(1|000) (m_z|000)' (m_{xy}|00½) (2_3|00½)'	(3_z|000) ($\bar{6}_z^{-1}$|000)' (m_x|00½) (2_2|00½)'	(3_z^{-1}|000) ($\bar{6}_z$|000)' (m_y|00½) (2_1|00½)'
72.5.368	$p\bar{6}$'c'2	p312 (00¼;a,b,c)	(1|000)	(3_z|000)	(3_z^{-1}|000)

			$(m_z\|000)'$	$(\bar{6}_z^{-1}\|000)'$	$(\bar{6}_z\|000)'$
			$(m_{xy}\|00½)'$	$(m_x\|00½)'$	$(m_y\|00½)'$
			$(2_3\|00½)$	$(2_2\|00½)$	$(2_1\|00½)$
73.1.369	*p*6/mmm		$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)$	$(6_z^{-1}\|000)$	$(6_z\|000)$
			$(2_{xy}\|000)$	$(2_x\|000)$	$(2_y\|000)$
			$(\bar{2}_3\|000)$	$(\bar{2}_2\|000)$	$(\bar{2}_1\|000)$
			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$	$(\bar{6}_z\|000)$
			$(m_{xy}\|000)$	$(m_x\|000)$	$(m_y\|000)$
			$(m_3\|000)$	$(m_2\|000)$	$(m_1\|000)$
73.2.370	*p*6/mmm1'				
73.3.371	*p*6/m'm'm'	*p*622 (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)$	$(6_z^{-1}\|000)$	$(6_z\|000)$
			$(2_{xy}\|000)$	$(2_x\|000)$	$(2_y\|000)$

			$(2_3\|000)$	$(2_2\|000)$	$(2_1\|000)$
			$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$
			$(m_z\|000)'$	$(\bar{6}_z^{-1}\|000)'$	$(\bar{6}_z\|000)'$
			$(m_{xy}\|000)'$	$(m_x\|000)'$	$(m_y\|000)'$
			$(m_3\|000)'$	$(m_2\|000)'$	$(m_1\|000)'$
73.4.372	*p*6/mm'm'	*p*6/m (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)$	$(6_z^{-1}\|000)$	$(6_z\|000)$
			$(2_{xy}\|000)'$	$(2_x\|000)'$	$(2_y\|000)'$
			$(2_3\|000)'$	$(2_2\|000)'$	$(2_1\|000)'$
			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$	$(\bar{6}_z\|000)$
			$(m_{xy}\|000)'$	$(m_x\|000)'$	$(m_y\|000)'$
			$(m_3\|000)'$	$(m_2\|000)'$	$(m_1\|000)'$
73.5.373	*p*6/m'mm	*p*6mm (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)$	$(6_z^{-1}\|000)$	$(6_z\|000)$
			$(2_{xy}\|000)'$	$(2_x\|000)'$	$(2_y\|000)'$
			$(2_3\|000)'$	$(2_2\|000)'$	$(2_1\|000)'$
			$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$
			$(m_z\|000)'$	$(\bar{6}_z^{-1}\|000)'$	$(\bar{6}_z\|000)'$
			$(m_{xy}\|000)$	$(m_x\|000)$	$(m_y\|000)$
			$(m_3\|000)$	$(m_2\|000)$	$(m_1\|000)$
73.6.374	*p*6'/m'm'm	*p*$\bar{3}$1m (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)'$	$(6_z^{-1}\|000)'$	$(6_z\|000)'$
			$(2_{xy}\|000)'$	$(2_x\|000)'$	$(2_y\|000)'$
			$(2_3\|000)$	$(2_2\|000)$	$(2_1\|000)$
			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|000)'$	$(\bar{6}_z^{-1}\|000)'$	$(\bar{6}_z\|000)'$
			$(m_{xy}\|000)'$	$(m_x\|000)'$	$(m_y\|000)'$
			$(m_3\|000)$	$(m_2\|000)$	$(m_1\|000)$
73.7.375	*p*6'/mmm'	*p*$\bar{6}$m2 (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)'$	$(6_z^{-1}\|000)'$	$(6_z\|000)'$
			$(2_{xy}\|000)'$	$(2_x\|000)'$	$(2_y\|000)'$

			$(\bar{2}_3\|000)$	$(\bar{2}_2\|000)$	$(\bar{2}_1\|000)$
			$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$
			$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$	$(\bar{6}_z\|000)$
			$(m_{xy}\|000)$	$(m_x\|000)$	$(m_y\|000)$
			$(m_3\|000)'$	$(m_2\|000)'$	$(m_1\|000)'$
73.8.376	$p_{2c}6/mm'm'$	$p6/mcc$ (000;a,b,2c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)$	$(6_z^{-1}\|000)$	$(6_z\|000)$
			$(2_{xy}\|001)$	$(2_x\|001)$	$(2_y\|001)$
			$(\bar{2}_3\|001)$	$(\bar{2}_2\|001)$	$(\bar{2}_1\|001)$
			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$	$(\bar{6}_z\|000)$
			$(m_{xy}\|001)$	$(m_x\|001)$	$(m_y\|001)$
			$(m_3\|001)$	$(m_2\|001)$	$(m_1\|001)$
73.9.377	$p_{2c}6'/m'mm'$	$p6_3/mmc$ (000;a,b,2c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|001)$	$(6_z^{-1}\|001)$	$(6_z\|001)$
			$(2_{xy}\|000)$	$(2_x\|000)$	$(2_y\|000)$
			$(\bar{2}_3\|001)$	$(\bar{2}_2\|001)$	$(\bar{2}_1\|001)$
			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|001)$	$(\bar{6}_z^{-1}\|001)$	$(\bar{6}_z\|001)$
			$(m_{xy}\|000)$	$(m_x\|000)$	$(m_y\|000)$
			$(m_3\|001)$	$(m_2\|001)$	$(m_1\|001)$
73.10.378	$p_{2c}6/mmm$	$p6/mmm$ (000;a,b,2c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)$	$(6_z^{-1}\|000)$	$(6_z\|000)$
			$(2_{xy}\|000)$	$(2_x\|000)$	$(2_y\|000)$
			$(\bar{2}_3\|000)$	$(\bar{2}_2\|000)$	$(\bar{2}_1\|000)$
			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$	$(\bar{6}_z\|000)$
			$(m_{xy}\|000)$	$(m_x\|000)$	$(m_y\|000)$
			$(m_3\|000)$	$(m_2\|000)$	$(m_1\|000)$
74.1.379	$p6/mcc$		$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$

			$(2_z\|000)$	$(6_z^{-1}\|000)$	$(6_z\|000)$
			$(2_{xy}\|00½)$	$(2_x\|00½)$	$(2_y\|00½)$
			$(\bar{2}_3\|00½)$	$(\bar{2}_2\|00½)$	$(\bar{2}_1\|00½)$
			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$	$(\bar{6}_z\|000)$
			$(m_{xy}\|00½)$	$(m_x\|00½)$	$(m_y\|00½)$
			$(m_3\|00½)$	$(m_2\|00½)$	$(m_1\|00½)$
74.2.380	*p*6/mcc1'				
74.3.381	*p*6/m'c'c'	*p*622 (00¼;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)$	$(6_z^{-1}\|000)$	$(6_z\|000)$
			$(2_{xy}\|00½)$	$(2_x\|00½)$	$(2_y\|00½)$
			$(\bar{2}_3\|00½)$	$(\bar{2}_2\|00½)$	$(\bar{2}_1\|00½)$
			$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$
			$(m_z\|000)'$	$(\bar{6}_z^{-1}\|000)'$	$(\bar{6}_z\|000)'$
			$(m_{xy}\|00½)'$	$(m_x\|00½)'$	$(m_y\|00½)'$
			$(m_3\|00½)'$	$(m_2\|00½)'$	$(m_1\|00½)'$
74.4.382	*p*6/mc'c'	*p*6/m (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)$	$(6_z^{-1}\|000)$	$(6_z\|000)$
			$(2_{xy}\|00½)'$	$(2_x\|00½)'$	$(2_y\|00½)'$
			$(\bar{2}_3\|00½)'$	$(\bar{2}_2\|00½)'$	$(\bar{2}_1\|00½)'$
			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$	$(\bar{6}_z\|000)$
			$(m_{xy}\|00½)'$	$(m_x\|00½)'$	$(m_y\|00½)'$
			$(m_3\|00½)'$	$(m_2\|00½)'$	$(m_1\|00½)'$
74.5.383	*p*6/m'cc	*p*6cc (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)$	$(6_z^{-1}\|000)$	$(6_z\|000)$
			$(2_{xy}\|00½)'$	$(2_x\|00½)'$	$(2_y\|00½)'$

			$(\underline{2}_3\|00½)'$	$(\underline{2}_2\|00½)'$	$(\underline{2}_1\|00½)'$
			$(\underline{1}\|000)'$	$(\underline{3}_z\|000)'$	$(\underline{3}_z^{-1}\|000)'$
			$(m_z\|000)'$	$(\underline{6}_z^{-1}\|000)'$	$(\underline{6}_z\|000)'$
			$(m_{xy}\|00½)$	$(m_x\|00½)$	$(m_y\|00½)$
			$(m_3\|00½)$	$(m_2\|00½)$	$(m_1\|00½)$
74.6.384	*p*6'/m'c'c	*p*$\bar{3}$1c (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)'$	$(6_z^{-1}\|000)'$	$(6_z\|000)'$
			$(2_{xy}\|00½)'$	$(2_x\|00½)'$	$(2_y\|00½)'$
			$(\underline{2}_3\|00½)$	$(\underline{2}_2\|00½)$	$(\underline{2}_1\|00½)$
			$(\underline{1}\|000)$	$(\underline{3}_z\|000)$	$(\underline{3}_z^{-1}\|000)$
			$(m_z\|000)'$	$(\underline{6}_z^{-1}\|000)'$	$(\underline{6}_z\|000)'$
			$(m_{xy}\|00½)'$	$(m_x\|00½)'$	$(m_y\|00½)'$
			$(m_3\|00½)$	$(m_2\|00½)$	$(m_1\|00½)$
74.7.385	*p*6'/mcc'	*p*$\bar{6}$c2 (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|000)'$	$(6_z^{-1}\|000)'$	$(6_z\|000)'$
			$(2_{xy}\|00½)'$	$(2_x\|00½)'$	$(2_y\|00½)'$
			$(\underline{2}_3\|00½)$	$(\underline{2}_2\|00½)$	$(\underline{2}_1\|00½)$
			$(\underline{1}\|000)'$	$(\underline{3}_z\|000)'$	$(\underline{3}_z^{-1}\|000)'$
			$(m_z\|000)$	$(\underline{6}_z^{-1}\|000)$	$(\underline{6}_z\|000)$
			$(m_{xy}\|00½)$	$(m_x\|00½)$	$(m_y\|00½)$
			$(m_3\|00½)'$	$(m_2\|00½)'$	$(m_1\|00½)'$
75.1.386	*p*6$_3$/mmc		$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|00½)$	$(6_z^{-1}\|00½)$	$(6_z\|00½)$
			$(2_{xy}\|000)$	$(2_x\|000)$	$(2_y\|000)$
			$(\underline{2}_3\|00½)$	$(\underline{2}_2\|00½)$	$(\underline{2}_1\|00½)$
			$(\underline{1}\|000)$	$(\underline{3}_z\|000)$	$(\underline{3}_z^{-1}\|000)$
			$(m_z\|00½)$	$(\underline{6}_z^{-1}\|00½)$	$(\underline{6}_z\|00½)$
			$(m_{xy}\|000)$	$(m_x\|000)$	$(m_y\|000)$
			$(m_3\|00½)$	$(m_2\|00½)$	$(m_1\|00½)$
75.2.387	*p*6$_3$/mmc1'				

75.3.388	$p6_3/m'm'c'$	$p6_322$ (000;a,b,c)	$(1\|000)$ $(2_z\|00½)$ $(2_{xy}\|000)$ $(2_3\|00½)$ $(1\|000)'$ $(m_z\|00½)'$ $(m_{xy}\|000)'$ $(m_3\|00½)'$	$(3_z\|000)$ $(6_z^{-1}\|00½)$ $(2_x\|000)$ $(2_2\|00½)$ $(\bar{3}_z\|000)'$ $(\bar{6}_z^{-1}\|00½)'$ $(m_x\|000)'$ $(m_2\|00½)'$	$(3_z^{-1}\|000)$ $(6_z\|00½)$ $(2_y\|000)$ $(2_1\|00½)$ $(\bar{3}_z^{-1}\|000)'$ $(\bar{6}_z\|00½)'$ $(m_y\|000)'$ $(m_1\|00½)'$
75.4.389	$p6_3/mm'c'$	$p6_3/m$ (000;a,b,c)	$(1\|000)$ $(2_z\|00½)$ $(2_{xy}\|000)'$ $(2_3\|00½)'$ $(\bar{1}\|000)$ $(m_z\|00½)$ $(m_{xy}\|000)'$ $(m_3\|00½)'$	$(3_z\|000)$ $(6_z^{-1}\|00½)$ $(2_x\|000)'$ $(2_2\|00½)'$ $(\bar{3}_z\|000)$ $(\bar{6}_z^{-1}\|00½)$ $(m_x\|000)'$ $(m_2\|00½)'$	$(3_z^{-1}\|000)$ $(6_z\|00½)$ $(2_y\|000)'$ $(2_1\|00½)'$ $(\bar{3}_z^{-1}\|000)$ $(\bar{6}_z\|00½)$ $(m_y\|000)'$ $(m_1\|00½)'$
75.5.390	$p6_3/m'mc$	$p6_3mc$ (000;a,b,c)	$(1\|000)$ $(2_z\|00½)$ $(2_{xy}\|000)'$ $(2_3\|00½)'$ $(\bar{1}\|000)'$ $(m_z\|00½)'$ $(m_{xy}\|000)$ $(m_3\|00½)$	$(3_z\|000)$ $(6_z^{-1}\|00½)$ $(2_x\|000)'$ $(2_2\|00½)'$ $(\bar{3}_z\|000)'$ $(\bar{6}_z^{-1}\|00½)'$ $(m_x\|000)$ $(m_2\|00½)$	$(3_z^{-1}\|000)$ $(6_z\|00½)$ $(2_y\|000)'$ $(2_1\|00½)'$ $(\bar{3}_z^{-1}\|000)'$ $(\bar{6}_z\|00½)'$ $(m_y\|000)$ $(m_1\|00½)$
75.6.391	$p6_3'/m'mc'$	$p\bar{3}1m$ (000;2a+b,-a+b,c)	$(1\|000)$ $(2_z\|00½)'$ $(2_{xy}\|000)$ $(2_3\|00½)'$	$(3_z\|000)$ $(6_z^{-1}\|00½)'$ $(2_x\|000)$ $(2_2\|00½)'$	$(3_z^{-1}\|000)$ $(6_z\|00½)'$ $(2_y\|000)$ $(2_1\|00½)'$

			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|00½)'$	$(\bar{6}_z^{-1}\|00½)'$	$(\bar{6}_z\|00½)'$
			$(m_{xy}\|000)$	$(m_x\|000)$	$(m_y\|000)$
			$(m_3\|00½)'$	$(m_2\|00½)'$	$(m_1\|00½)'$
75.7.392	$p6_3'/m'm'c$	$p\bar{3}1c$ (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|00½)'$	$(6_z^{-1}\|00½)'$	$(6_z\|00½)'$
			$(2_{xy}\|000)'$	$(2_x\|000)'$	$(2_y\|000)'$
			$(2_3\|00½)$	$(2_2\|00½)$	$(2_1\|00½)$
			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_z\|00½)'$	$(\bar{6}_z^{-1}\|00½)'$	$(\bar{6}_z\|00½)'$
			$(m_{xy}\|000)'$	$(m_x\|000)'$	$(m_y\|000)'$
			$(m_3\|00½)$	$(m_2\|00½)$	$(m_1\|00½)$
75.8.393	$p6_3'/mmc'$	$p\bar{6}m2$ (00¼;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|00½)'$	$(6_z^{-1}\|00½)'$	$(6_z\|00½)'$
			$(2_{xy}\|000)'$	$(2_x\|000)'$	$(2_y\|000)'$
			$(2_3\|00½)$	$(2_2\|00½)$	$(2_1\|00½)$
			$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$
			$(m_z\|00½)$	$(\bar{6}_z^{-1}\|00½)$	$(\bar{6}_z\|00½)$
			$(m_{xy}\|000)$	$(m_x\|000)$	$(m_y\|000)$
			$(m_3\|00½)'$	$(m_2\|00½)'$	$(m_1\|00½)'$
75.9.394	$p6_3'/mm'c$	$p\bar{6}c2$ (00¼;2a+b,-a+b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_z\|00½)'$	$(6_z^{-1}\|00½)'$	$(6_z\|00½)'$
			$(2_{xy}\|000)$	$(2_x\|000)$	$(2_y\|000)$
			$(2_3\|00½)'$	$(2_2\|00½)'$	$(2_1\|00½)'$
			$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$
			$(m_z\|00½)$	$(\bar{6}_z^{-1}\|00½)$	$(\bar{6}_z\|00½)$
			$(m_{xy}\|000)'$	$(m_x\|000)'$	$(m_y\|000)'$
			$(m_3\|00½)$	$(m_2\|00½)$	$(m_1\|00½)$

3. Magnetic Layer Groups

Serial Number	Magnetic Group/ Type Symbol	Non-Magnetic Subgroup of Index Two		Coset Representatives of the Decomposition of the Magnetic Group with Respect to its Translational Subgroup.	
1.1.1	p1			(1|000)	
1.2.2	p11'				
1.3.3	$p_{2a}1$	p1	(000;2a,b,c)	(1|000)	
2.1.4	$p\bar{1}$			(1|000)	($\bar{1}$|000)
2.2.5	$p\bar{1}1'$				
2.3.6	$p\bar{1}'$	p1		(1|000)	($\bar{1}$|000)'
2.4.7	$p_{2a}\bar{1}$	$p\bar{1}$	(000;2a,b,c)	(1|000)	($\bar{1}$|000)
3.1.8	p112			(1|000)	(2_z|000)
3.2.9	p1121'				
3.3.10	p112'	p1	(000;a,b,c)	(1|000)	(2_z|000)'
3.4.11	$p_{2a}112$	p112	(000;2a,b,c)	(1|000)	(2_z|000)

Table 3: Magnetic Layer Groups 1

4.1.12	p11m		(1|000)	(m_z|000)		
4.2.13	p11m1'					
4.3.14	p11m'	p1 (000;a,b,c)	(1|000)	(m_z|000)'		
4.4.15	p_{2a}11m	p11m (000;2a,b,c)	(1|000)	(m_z|000)		
4.5.16	p_{2a}11m'	p11a (000;2a,b,c)	(1|000)	(m_z|100)		
5.1.17	p11a		(1|000)	(m_z|½00)		
5.2.18	p11a1'					
5.3.19	p11a'	p1 (000;a,b,c)	(1|000)	(m_z|½00)'		
5.4.20	p_{2b}11a	p11a (000;a,2b,c)	(1|000)	(m_z|½00)		
6.1.21	p112/m		(1|000)	(2_z|000)	($\bar{1}$|000)	(m_z|000)
6.2.22	p112/m1'					
6.3.23	p112'/m	p11m (000;a,b,c)	(1|000)	(2_z|000)'	($\bar{1}$|000)'	(m_z|000)
6.4.24	p112/m'	p112 (000;a,b,c)	(1|000)	(2_z|000)	($\bar{1}$|000)'	(m_z|000)'
6.5.25	p112'/m'	p$\bar{1}$ (000;a,b,c)	(1|000)	(2_z|000)'	($\bar{1}$|000)	(m_z|000)'
6.6.26	p_{2a}112/m	p112/m (000;2a,b,c)	(1|000)	(2_z|000)	($\bar{1}$|000)	(m_z|000)
6.7.27	p_{2a}112'/m'	p112/a (000;2a,b,c)	(1|000)	(2_z|100)	($\bar{1}$|000)	(m_z|100)

Table 3: Magnetic Layer Groups 2

7.1.28	p112/a		(1|000)	(2_z|½00)	($\bar{1}$|000)	(m_z|½00)
7.2.29	p112/a1'					
7.3.30	p112'/a	p11a (000;a,b,c)	(1|000)	(2_z|½00)'	($\bar{1}$|000)'	(m_z|½00)
7.4.31	p112/a'	p112 (¼00;a,b,c)	(1|000)	(2_z|½00)	($\bar{1}$|000)'	(m_z|½00)'
7.5.32	p112'/a'	p$\bar{1}$ (000;a,b,c)	(1|000)	(2_z|½00)'	($\bar{1}$|000)	(m_z|½00)'
7.6.33	p_{2b}112/a	p112/a (000;a,2b,c)	(1|000)	(2_z|½00)	($\bar{1}$|000)	(m_z|½00)
8.1.34	p211		(1|000)	(2_x|000)		
8.2.35	p2111'					
8.3.36	p2'11	p1 (000;a,b,c)	(1|000)	(2_x|000)'		
8.4.37	p_{2a}2'11	$p2_1$11 (000;2a,b,c)	(1|000)	(2_x|100)		
8.5.38	p_c211	c211 (000;2a,2b,c)	(1|000)	(2_x|000)		
8.6.39	p_{2a}211	p211 (000;2a,b,c)	(1|000)	(2_x|000)		
8.7.40	p_{2b}211	p211 (000;a,2b,c)	(1|000)	(2_x|000)		
9.1.41	$p2_1$11		(1|000)	(2_x|½00)		
9.2.42	$p2_1$111'					
9.3.43	$p2_1$'11	p1 (000;a,b,c)	(1|000)	(2_x|½00)'		
9.4.44	$p_{2b}2_1$11	$p2_1$11 (000;a,2b,c)	(1|000)	(2_x|½00)		

Table 3: Magnetic Layer Groups 3

10.1.45	c211			(1|000)	(2_x|000)
10.2.46	c2111'				
10.3.47	c2'11	p1	(000;a,(a+b)/2,c)	(1|000)	(2_x|000)'
10.4.48	c_p211	p211	(000;a,b,c)	(1|000)	(2_x|000)
10.5.49	c_p2'11	$p2_1$11	(0¼0;a,b,c)	(1|000)	(2_x|½½0)
11.1.50	pm11			(1|000)	(m_x|000)
11.2.51	pm111'				
11.3.52	pm'11	p1	(000;a,b,c)	(1|000)	(m_x|000)'
11.4.53	p_{2a}m11	pm11	(000;2a,b,c)	(1|000)	(m_x|000)
11.5.54	p_{2b}m11	pm11	(000;a,2b,c)	(1|000)	(m_x|000)
11.6.55	p_{2b}m'11	pb11	(000;a,2b,c)	(1|000)	(m_x|010)
11.7.56	p_cm11	cm11	(000;2a,2b,c)	(1|000)	(m_x|000)
12.1.57	pb11			(1|000)	(m_x|0½0)
12.2.58	pb111'				
12.3.59	pb'11	p1	(000;a,b,c)	(1|000)	(m_x|0½0)'
12.4.60	p_{2a}b11	pb11	(000;2a,b,c)	(1|000)	(m_x|0½0)

13.1.61	cm11			(1|000)	(m_x|000)
13.2.62	cm111'				
13.3.63	cm'11	p1	(000;a,(a+b)/2,c)	(1|000)	(m_x|000)'
13.4.64	c_pm11	pm11	(000;a,b,c)	(1|000)	(m_x|000)
13.5.65	c_pm'11	pb11	(¼00;a,b,c)	(1|000)	(m_x|½½0)

14.1.66	p2/m11		(1|000)	(2_x|000)	($\bar{1}$|000)	(m_x|000)
14.2.67	p2/m111'					
14.3.68	p2/m'11	p211 (000;a,b,c)	(1|000)	(2_x|000)	($\bar{1}$|000)'	(m_x|000)'
14.4.69	p2'/m11	pm11 (000;a,b,c)	(1|000)	(2_x|000)'	($\bar{1}$|000)'	(m_x|000)
14.5.70	p2'/m'11	p$\bar{1}$ (000;a,b,c)	(1|000)	(2_x|000)'	($\bar{1}$|000)	(m_x|000)'
14.6.71	p_{2a}2'/m'11	$p2_1$/m11 (000;2a,b,c)	(1|000)	(2_x|100)	($\bar{1}$|000)	(m_x|100)
14.7.72	p_{2b}2'/m'11	p2/b11 (000;a,2b,c)	(1|000)	(2_x|010)	($\bar{1}$|000)	(m_x|010)
14.8.73	p_c2/m11	c2/m11 (000;2a,2b,c)	(1|000)	(2_x|000)	($\bar{1}$|000)	(m_x|000)
14.9.74	p_{2a}2/m11	p2/m11 (000;2a,b,c)	(1|000)	(2_x|000)	($\bar{1}$|000)	(m_x|000)
14.10.75	p_{2b}2/m11	p2/m11 (000;a,2b,c)	(1|000)	(2_x|000)	($\bar{1}$|000)	(m_x|000)
15.1.76	$p2_1$/m11		(1|000)	(2_x|½00)	($\bar{1}$|000)	(m_x|½00)
15.2.77	$p2_1$/m111'					
15.3.78	$p2_1$/m'11	$p2_1$11 (000;a,b,c)	(1|000)	(2_x|½00)	($\bar{1}$|000)'	(m_x|½00)'
15.4.79	$p2_1$'/m'11	p$\bar{1}$ (000;a,b,c)	(1|000)	(2_x|½00)'	($\bar{1}$|000)	(m_x|½00)'
15.5.80	$p2_1$'/m	pm11 (¼00;a,b,c)	(1|000)	(2_x|½00)'	($\bar{1}$|000)'	(m_x|½00)
15.6.81	$p_{2b}2_1$'/m'11	$p2_1$/b11 (000;a,2b,c)	(1|000)	(2_x|½10)	($\bar{1}$|000)	(m_x|½10)
15.7.82	$p_{2b}2_1$/m11	$p2_1$/m11 (000;a,2b,c)	(1|000)	(2_x|½00)	($\bar{1}$|000)	(m_x|½00)

16.1.83	p2/b11		(1|000)	(2_x|0½0)	($\bar{1}$|000)	(m_x|0½0)
16.2.84	p2/b111'					
16.3.85	p2/b'11	p211 (0¼0;a,b,c)	(1|000)	(2_x|0½0)	($\bar{1}$|000)'	(m_x|0½0)'
16.4.86	p2'/b'11	$p\bar{1}$ (000;a,b,c)	(1|000)	(2_x|0½0)'	($\bar{1}$|000)	(m_x|0½0)'
16.5.87	p2'/b11	pb11 (000;a,b,c)	(1|000)	(2_x|0½0)'	($\bar{1}$|000)'	(m_x|0½0)
16.6.88	p_{2a}2'/b'11	$p2_1$/b11 (000;2a,b,c)	(1|000)	(2_x|1½0)	($\bar{1}$|000)	(m_x|1½0)
16.7.89	p_{2a}2/b11	p2/b11 (000;2a,b,c)	(1|000)	(2_x|0½0)	($\bar{1}$|000)	(m_x|0½0)
17.1.90	$p2_1$/b11		(1|000)	(2_x|½½0)	($\bar{1}$|000)	(m_x|½½0)
17.2.91	$p2_1$/b111'					
17.3.92	$p2_1$/b'11	$p2_1$11 (0¼0;a,b,c)	(1|000)	(2_x|½½0)	($\bar{1}$|000)'	(m_x|½½0)'
17.4.93	$p2_1$'/b'11	$p\bar{1}$ (000;a,b,c)	(1|000)	(2_x|½½0)'	($\bar{1}$|000)	(m_x|½½0)'
17.5.94	$p2_1$'/b11	pb11 (¼00;a,b,c)	(1|000)	(2_x|½½0)'	($\bar{1}$|000)'	(m_x|½½0)

18.1.95	c2/m11		(1|000)	(2_x|000)	($\bar{1}$|000)	(m_x|000)
18.2.96	c2/m111'					
18.3.97	c2/m'11	c211 (000;a,b,c)	(1|000)	(2_x|000)	($\bar{1}$|000)'	(m_x|000)'
18.4.98	c2'/m'11	p$\bar{1}$ (000;a,(a+b)/2,c)	(1|000)	(2_x|000)'	($\bar{1}$|000)	(m_x|000)'
18.5.99	c2'/m11	cm11 (000;a,b,c)	(1|000)	(2_x|000)'	($\bar{1}$|000)'	(m_x|000)
18.6.100	c_p2/m11	p2/m11 (000;a,b,c)	(1|000)	(2_x|000)	($\bar{1}$|000)	(m_x|000)
18.7.101	c_p2/m'11	p2/b11 (¼¼0;a,b,c)	(1|000)	(2_x|000)	($\bar{1}$|½½0)	(m_x|½½0)
18.8.102	c_p2'/m'11	$p2_1$/b11 (000;a,b,c)	(1|000)	(2_x|½½0)	($\bar{1}$|000)	(m_x|½½0)
18.9.103	c_p2'/m11	$p2_1$/m11 (¼¼0;a,b,c)	(1|000)	(2_x|½½0)	($\bar{1}$|½½0)	(m_x|000)
19.1.104	p222		(1|000)	(2_x|000)	(2_y|000)	(2_z|000)
19.2.105	p2221'					
19.3.106	p2'2'2	p112 (000;a,b,c)	(1|000)	(2_x|000)'	(2_y|000)'	(2_z|000)
19.4.107	p22'2'	p211 (000;a,b,c)	(1|000)	(2_x|000)	(2_y|000)'	(2_z|000)'
19.5.108	p_{2a}2'2'2	$p2_1$22 (000;2a,b,c)	(1|000)	(2_x|100)	(2_y|100)	(2_z|000)
19.6.109	p_c222	c222 (000;2a,2b,c)	(1|000)	(2_x|000)	(2_y|000)	(2_z|000)
19.7.110	p_{2a}222	p222 (000;2a,b,c)	(1|000)	(2_x|000)	(2_y|000)	(2_z|000)

20.1.111	$p2_122$		(1|000)	(2_x|½00)	(2_y|½00)	(2_z|000)
20.2.112	$p2_122'$					
20.3.113	$p2_12'2'$	$p2_111$ (000;a,b,c)	(1|000)	(2_x|½00)	(2_y|½00)'	(2_z|000)'
20.4.114	$p2_1'22'$	p211 (¼00;b,$\overline{a}$,c)	(1|000)	(2_x|½00)'	(2_y|½00)	(2_z|000)'
20.5.115	$p2_1'2'2$	p112 (000;a,b,c)	(1|000)	(2_x|½00)'	(2_y|½00)'	(2_z|000)
20.6.116	$p_{2b}2_1'2'2$	$p2_12_12$ (000;a,2b,c)	(1|000)	(2_x|½10)	(2_y|½10)	(2_z|000)
20.7.117	$p_{2b}2_122$	$p2_122$ (000;a,2b,c)	(1|000)	(2_x|½00)	(2_y|½00)	(2_z|000)
21.1.118	$p2_12_12$		(1|000)	(2_x|½½0)	(2_y|½½0)	(2_z|000)
21.2.119	$p2_12_121'$					
21.3.120	$p2_1'2_1'2$	p112 (000;a,b,c)	(1|000)	(2_x|½½0)'	(2_y|½½0)'	(2_z|000)
21.4.121	$p2_12_1'2'$	$p2_111$ (0¼0;a,b,c)	(1|000)	(2_x|½½0)	(2_y|½½0)'	(2_z|000)'
22.1.122	c222		(1|000)	(2_x|000)	(2_y|000)	(2_z|000)
22.2.123	c2221'					
22.3.124	c2'2'2	p112 (000;a,(a+b)/2,c)	(1|000)	(2_x|000)'	(2_y|000)'	(2_z|000)
22.4.125	c22'2'	c211 (000;a,b,c)	(1|000)	(2_x|000)	(2_y|000)'	(2_z|000)'
22.5.126	c_p222	p222 (000;a,b,c)	(1|000)	(2_x|000)	(2_y|000)	(2_z|000)
22.6.127	$c_p2'2'2$	$p2_12_12$ (000;a,b,c)	(1|000)	(2_x|½½0)	(2_y|½½0)	(2_z|000)
22.7.128	$c_p2'22'$	$p2_122$ (¼¼0;a,b,c)	(1|000)	(2_x|½½0)	(2_y|000)	(2_z|½½0)

23.1.129	pmm2		(1|000)	(m_x|000)	(m_y|000)	(2_z|000)
23.2.130	pmm21'					
23.3.131	pm'm'2	p112 (000;a,b,c)	(1|000)	(m_x|000)'	(m_y|000)'	(2_z|000)
23.4.132	pmm'2'	pm11 (000;a,b,c)	(1|000)	(m_x|000)	(m_y|000)'	(2_z|000)'
23.5.133	p_{2a}m'm'2	pma2 (000;2a,b,c)	(1|000)	(m_x|100)	(m_y|100)	(2_z|000)
23.6.134	$p_c$mm2	cmm2 (000;2a,2b,c)	(1|000)	(m_x|000)	(m_y|000)	(2_z|000)
23.7.135	p_{2a}mm2	pmm2 (000;2a,b,c)	(1|000)	(m_x|000)	(m_y|000)	(2_z|000)
24.1.136	pma2		(1|000)	(m_x|½00)	(m_y|½00)	(2_z|000)
24.2.137	pma21'					
24.3.138	pm'a'2	p112 (000;a,b,c)	(1|000)	(m_x|½00)'	(m_y|½00)'	(2_z|000)
24.4.139	pm'a2'	pb11 (000;b,$\bar{a}$,c)	(1|000)	(m_x|½00)'	(m_y|½00)	(2_z|000)'
24.5.140	pma'2'	pm11 (¼00;a,b,c)	(1|000)	(m_x|½00)	(m_y|½00)'	(2_z|000)'
24.6.141	p_{2b}m'a'2	pba2 (000;a,2b,c)	(1|000)	(m_x|½10)	(m_y|½10)	(2_z|000)
24.7.142	p_{2b}ma2	pma2 (000;a,2b,c)	(1|000)	(m_x|½00)	(m_y|½00)	(2_z|000)
25.1.143	pba2		(1|000)	(m_x|½½0)	(m_y|½½0)	(2_z|000)
25.2.144	pba21'					
25.3.145	pb'a'2	p112 (000;a,b,c)	(1|000)	(m_x|½½0)'	(m_y|½½0)'	(2_z|000)
25.4.146	pba'2'	pb11 (¼00;a,b,c)	(1|000)	(m_x|½½0)	(m_y|½½0)'	(2_z|000)'

26.1.147	cmm2		(1|000)	(m_x|000)	(m_y|000)	(2_z|000)
26.2.148	cmm21'					
26.3.149	cm'm'2	p112 (000;a,(a+b)/2,c)	(1|000)	(m_x|000)'	(m_y|000)'	(2_z|000)
26.4.150	cmm'2'	pm11 (000;a,(a+b)/2,c)	(1|000)	(m_x|000)	(m_y|000)'	(2_z|000)'
26.5.151	$c_p$mm2	pmm2 (000;a,b,c)	(1|000)	(m_x|000)	(m_y|000)	(2_z|000)
26.6.152	c_pm'm'2	pba2 (000;a,b,c)	(1|000)	(m_x|½½0)	(m_y|½½0)	(2_z|000)
26.7.153	$c_p$mm'2'	pma2 (¼¼0;a,b,c)	(1|000)	(m_x|000)	(m_y|½½0)	(2_z|½½0)
27.1.154	pm2m		(1|000)	(m_x|000)	(2_y|000)	(m_z|000)
27.2.155	pm2m1'					
27.3.156	pm'2m'	p211 (000;b,$\bar{a}$,c)	(1|000)	(m_x|000)'	(2_y|000)	(m_z|000)'
27.4.157	pm2'm'	pm11 (000;a,b,c)	(1|000)	(m_x|000)	(2_y|000)'	(m_z|000)'
27.5.158	pm'2'm	p11m (000;a,b,c)	(1|000)	(m_x|000)'	(2_y|000)'	(m_z|000)
27.6.159	p_{2b}m'2m'	pb2b (000;a,2b,c)	(1|000)	(m_x|010)	(2_y|000)	(m_z|010)
27.7.160	p_{2b}m'2'm	pb2_1m (000;a,2b,c)	(1|000)	(m_x|010)	(2_y|010)	(m_z|000)
27.8.161	p_{2b}m2'm'	pm2_1b (000;a,2b,c)	(1|000)	(m_x|000)	(2_y|010)	(m_z|010)
27.9.162	p_{2a}m'2m'	pm2a (000;2a,b,c)	(1|000)	(m_x|100)	(2_y|000)	(m_z|100)
27.10.163	p_cm2m	cm2m (000;2a,2b,c)	(1|000)	(m_x|000)	(2_y|000)	(m_z|000)
27.11.164	p_cm'2m'	cm2a (000;2a,2b,c)	(1|000)	(m_x|010)	(2_y|000)	(m_z|010)
27.12.165	p_{2a}m2m	pm2m (000;2a,b,c)	(1|000)	(m_x|000)	(2_y|000)	(m_z|000)
27.13.166	p_{2b}m2m	pm2m (000;a,2b,c)	(1|000)	(m_x|000)	(2_y|000)	(m_z|000)

28.1.167	$pm2_1b$		(1|000)	(m_x|000)	(2_y|0½0)	(m_z|0½0)
28.2.168	$pm2_1b1'$					
28.3.169	$pm'2_1b'$	$p2_111$ (000;b,$\bar{a}$,c)	(1|000)	(m_x|000)'	(2_y|0½0)	(m_z|0½0)'
28.4.170	$pm'2_1'b$	p11a (000;b,$\bar{a}$,c)	(1|000)	(m_x|000)'	(2_y|0½0)'	(m_z|0½0)
28.5.171	$pm2_1'b'$	pm11 (000;a,b,c)	(1|000)	(m_x|000)	(2_y|0½0)'	(m_z|0½0)'
28.6.172	$p_{2a}m2_1'b'$	$pm2_1n$ (000;a,b,c)	(1|000)	(m_x|000)	(2_y|1½0)	(m_z|1½0)
28.7.173	$p_{2a}m2_1b$	$pm2_1b$ (000;2a,b,c)	(1|000)	(m_x|000)	(2_y|0½0)	(m_z|0½0)
29.1.174	$pb2_1m$		(1|000)	(m_x|0½0)	(2_y|0½0)	(m_z|000)
29.2.175	$pb2_1m1'$					
29.3.176	$pb'2_1m'$	$p2_111$ (000;b,$\bar{a}$,c)	(1|000)	(m_x|0½0)'	(2_y|0½0)	(m_z|000)'
29.4.177	$pb2_1'm'$	pb11 (000;a,b,c)	(1|000)	(m_x|0½0)	(2_y|0½0)'	(m_z|000)'
29.5.178	$pb'2_1'm$	p11m (000;a,b,c)	(1|000)	(m_x|0½0)'	(2_y|0½0)'	(m_z|000)
29.6.179	$p_{2a}b'2_1m'$	$pb2_1a$ (000;2a,b,c)	(1|000)	(m_x|1½0)	(2_y|0½0)	(m_z|100)
29.7.180	$p_{2a}b2_1m$	$pb2_1m$ (000;2a,b,c)	(1|000)	(m_x|0½0)	(2_y|0½0)	(m_z|000)

30.1.181	pb2b		(1|000)	(m_x|0½0)	(2_y|000)	(m_z|0½0)
30.2.182	pb2b1'					
30.3.183	pb'2b'	p211 (000;b,$\bar{a}$,c)	(1|000)	(m_x|0½0)'	(2_y|000)	(m_z|0½0)'
30.4.184	pb'2'b	p11a (000;b,$\bar{a}$,c)	(1|000)	(m_x|0½0)'	(2_y|000)'	(m_z|0½0)
30.5.185	pb2'b'	pb11 (000;a,b,c)	(1|000)	(m_x|0½0)	(2_y|000)'	(m_z|0½0)'
30.6.186	p_{2a}b'2b'	pb2n (000;2a,b,c)	(1|000)	(m_x|1½0)	(2_y|000)	(m_z|1½0)
30.7.187	p_{2a}b2b	pb2b (000;2a,b,c)	(1|000)	(m_x|0½0)	(2_y|000)	(m_z|0½0)
31.1.188	pm2a		(1|000)	(m_x|½00)	(2_y|000)	(m_z|½00)
31.2.189	pm2a1'					
31.3.190	pm'2a'	p211 (000;b,$\bar{a}$,c)	(1|000)	(m_x|½00)'	(2_y|000)	(m_z|½00)'
31.4.191	pm'2'a	p11a (000;a,b,c)	(1|000)	(m_x|½00)'	(2_y|000)'	(m_z|½00)
31.5.192	pm2'a'	pm11 (¼00;a,b,c)	(1|000)	(m_x|½00)	(2_y|000)'	(m_z|½00)'
31.6.193	p_{2b}m2'a'	$pm2_1$n (¼00;a,2b,c)	(1|000)	(m_x|½00)	(2_y|010)	(m_z|½10)
31.7.194	p_{2b}m'2'a	$pb2_1$a (000;a,2b,c)	(1|000)	(m_x|½10)	(2_y|010)	(m_z|½00)
31.8.195	p_{2b}m'2a'	pb2n (000;a,2b,c)	(1|000)	(m_x|½10)	(2_y|000)	(m_z|½10)
31.9.196	p_{2b}m2a	pm2a (000;a,2b,c)	(1|000)	(m_x|½00)	(2_y|000)	(m_z|½00)

32.1.197	$pm2_1n$		(1|000)	(m_x|000)	(2_y|½½0)	(m_z|½½0)
32.2.198	$pm2_1n1'$					
32.3.199	$pm'2_1n'$	$p2_111$ (¼00;b,$\bar{a}$,c)	(1|000)	(m_x|000)'	(2_y|½½0)	(m_z|½½0)'
32.4.200	$pm'2_1'n$	p11a (000;a+b,b,c)	(1|000)	(m_x|000)'	(2_y|½½0)'	(m_z|½½0)
32.5.201	$pm2_1'n'$	pm11 (000;a,b,c)	(1|000)	(m_x|000)	(2_y|½½0)'	(m_z|½½0)'
33.1.202	$pb2_1a$		(1|000)	(m_x|½½0)	(2_y|0½0)	(m_z|½00)
33.2.203	$pb2_1a1'$					
33.3.204	$pb'2_1a'$	$p2_111$ (000;b,$\bar{a}$,c)	(1|000)	(m_x|½½0)'	(2_y|0½0)	(m_z|½00)'
33.4.205	$pb'2_1'a$	p11a (000;a,b,c)	(1|000)	(m_x|½½0)'	(2_y|0½0)'	(m_z|½00)
33.5.206	$pb2_1'a'$	pb11 (¼00;a,b,c)	(1|000)	(m_x|½½0)	(2_y|0½0)'	(m_z|½00)'
34.1.207	pb2n		(1|000)	(m_x|½½0)	(2_y|000)	(m_z|½½0)
34.2.208	pb2n1'					
34.3.209	pb'2n'	p211 (000;b,$\bar{a}$,c)	(1|000)	(m_x|½½0)'	(2_y|000)	(m_z|½½0)'
34.4.210	pb2'n'	pb11 (¼00;a,b,c)	(1|000)	(m_x|½½0)	(2_y|000)'	(m_z|½½0)'
34.5.211	pb'2'n	p11a (000;a+b,b,c)	(1|000)	(m_x|½½0)'	(2_y|000)'	(m_z|½½0)

35.1.212	cm2m		(1|000)	(m_x|000)	(2_y|000)	(m_z|000)
35.2.213	cm2m1'					
35.3.214	cm'2m'	c211 (000;b,$\bar{a}$,c)	(1|000)	(m_x|000)'	(2_y|000)	(m_z|000)'
35.4.215	cm2'm'	cm11 (000;a,b,c)	(1|000)	(m_x|000)	(2_y|000)'	(m_z|000)'
35.5.216	cm'2'm	p11m (000;a,(a+b)/2,c)	(1|000)	(m_x|000)'	(2_y|000)'	(m_z|000)
35.6.217	c_pm2m	pm2m (000;a,b,c)	(1|000)	(m_x|000)	(2_y|000)	(m_z|000)
35.7.218	c_pm'2m'	pb2n (000;a,b,c)	(1|000)	(m_x|½½0)	(2_y|000)	(m_z|½½0)
35.8.219	c_pm2'm'	pm2_1n (000;a,b,c)	(1|000)	(m_x|000)	(2_y|½½0)	(m_z|½½0)
35.9.220	c_pm'2'm	pb2_1m (¼00;a,b,c)	(1|000)	(m_x|½½0)	(2_y|½½0)	(m_z|000)
36.1.221	cm2a		(1|000)	(m_x|½00)	(2_y|000)	(m_z|½00)
36.2.222	cm2a1'					
36.3.223	cm'2a'	c211 (000;b,$\bar{a}$,c)	(1|000)	(m_x|½00)'	(2_y|000)	(m_z|½00)'
36.4.224	cm2'a'	cm11 (¼00;a,b,c)	(1|000)	(m_x|½00)	(2_y|000)'	(m_z|½00)'
36.5.225	cm'2'a	p11a (000;a,(a+b)/2,c)	(1|000)	(m_x|½00)'	(2_y|000)'	(m_z|½00)
36.6.226	c_pm2a	pm2a (000;a,b,c)	(1|000)	(m_x|½00)	(2_y|000)	(m_z|½00)
36.7.227	c_pm'2a'	pb2b (000;a,b,c)	(1|000)	(m_x|0½0)	(2_y|000)	(m_z|0½0)
36.8.228	c_pm2'a'	pm2_1b (¼00;a,b,c)	(1|000)	(m_x|½00)	(2_y|½½0)	(m_z|0½0)
36.9.229	c_pm'2'a	pb2_1a (¼00;a,b,c)	(1|000)	(m_x|0½0)	(2_y|½½0)	(m_z|½00)

37.1.230	pmmm		$(\underline{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|000)$ $(m_y\|000)$	$(2_z\|000)$ $(m_z\|000)$
37.2.231	pmmm1'					
37.3.232	pm'm'm'	p222 (000;a,b,c)	$(\underline{1}\|000)$ $(1\|000)'$	$(2_x\|000)$ $(m_x\|000)'$	$(2_y\|000)$ $(m_y\|000)'$	$(2_z\|000)$ $(m_z\|000)'$
37.4.233	pm'm'm	p112/m (000;a,b,c)	$(\underline{1}\|000)$ $(1\|000)$	$(2_x\|000)'$ $(m_x\|000)'$	$(2_y\|000)'$ $(m_y\|000)'$	$(2_z\|000)$ $(m_z\|000)$
37.5.234	pmm'm'	p2/m11 (000;a,b,c)	$(\underline{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|000)'$ $(m_y\|000)'$	$(2_z\|000)'$ $(m_z\|000)'$
37.6.235	pmmm'	pmm2 (000;a,b,c)	$(\underline{1}\|000)$ $(1\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|000)'$ $(m_y\|000)$	$(2_z\|000)$ $(m_z\|000)'$
37.7.236	pmm'm	pm2m (000;a,b,c)	$(\underline{1}\|000)$ $(1\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|000)$ $(m_y\|000)'$	$(2_z\|000)'$ $(m_z\|000)$
37.8.237	p_{2a}mm'm'	pmaa (000;2a,b,c)	$(\underline{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|100)$ $(m_y\|100)$	$(2_z\|100)$ $(m_z\|100)$
37.9.238	p_{2a}m'm'm	pmam (000;2a,b,c)	$(\underline{1}\|000)$ $(1\|000)$	$(2_x\|100)$ $(m_x\|100)$	$(2_y\|100)$ $(m_y\|100)$	$(2_z\|000)$ $(m_z\|000)$
37.10.239	p_{2a}m'mm'	pmma (000;2a,b,c)	$(\underline{1}\|000)$ $(1\|000)$	$(2_x\|100)$ $(m_x\|100)$	$(2_y\|000)$ $(m_y\|000)$	$(2_z\|100)$ $(m_z\|100)$
37.11.240	$p_c$mmm	cmmm (000;2a,2b,c)	$(\underline{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|000)$ $(m_y\|000)$	$(2_z\|000)$ $(m_z\|000)$
37.12.241	$p_c$mm'm'	cmme (000;2a,2b,c)	$(\underline{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|010)$ $(m_y\|010)$	$(2_z\|010)$ $(m_z\|010)$
37.13.242	p_{2a}mmm	pmmm (000;2a,b,c)	$(\underline{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|000)$ $(m_y\|000)$	$(2_z\|000)$ $(m_z\|000)$

38.1.243	pmaa		$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|½00)$ $(m_y\|½00)$	$(2_z\|½00)$ $(m_z\|½00)$
38.2.244	pmaa1'					
38.3.245	pm'a'a'	p222 (¼00;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|000)$ $(m_x\|000)'$	$(2_y\|½00)$ $(m_y\|½00)'$	$(2_z\|½00)$ $(m_z\|½00)'$
38.4.246	pma'a'	p2/m11 (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|½00)'$ $(m_y\|½00)'$	$(2_z\|½00)'$ $(m_z\|½00)'$
38.5.247	pm'a'a	p112/a (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|000)'$ $(m_x\|000)'$	$(2_y\|½00)'$ $(m_y\|½00)'$	$(2_z\|½00)$ $(m_z\|½00)$
38.6.248	pm'aa'	p2/b11 (000;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|000)'$ $(m_x\|000)'$	$(2_y\|½00)$ $(m_y\|½00)$	$(2_z\|½00)'$ $(m_z\|½00)'$
38.7.249	pm'aa	pb2b (000;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|000)$ $(m_x\|000)'$	$(2_y\|½00)'$ $(m_y\|½00)$	$(2_z\|½00)'$ $(m_z\|½00)$
38.8.250	pmaa'	pma2 (¼00;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|½00)'$ $(m_y\|½00)$	$(2_z\|½00)$ $(m_z\|½00)'$
38.9.251	pma'a	pm2a (¼00;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|½00)$ $(m_y\|½00)'$	$(2_z\|½00)'$ $(m_z\|½00)$
38.10.252	p_{2b}m'aa'	pban (000;a,2b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|010)$ $(m_x\|010)$	$(2_y\|½00)$ $(m_y\|½00)$	$(2_z\|½10)$ $(m_z\|½10)$
38.11.253	p_{2b}ma'a'	pman (000;a,2b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|½10)$ $(m_y\|½10)$	$(2_z\|½10)$ $(m_z\|½10)$
38.12.254	p_{2b}m'a'a	pbaa (000;a,2b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|010)$ $(m_x\|010)$	$(2_y\|½10)$ $(m_y\|½10)$	$(2_z\|½00)$ $(m_z\|½00)$
38.13.255	p_{2b}maa	pmaa (000;a,2b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|½00)$ $(m_y\|½00)$	$(2_z\|½00)$ $(m_z\|½00)$

39.1.256	pban		$(\underline{1}\|000)$ $(1\|000)$	$(2_x\|0\frac{1}{2}0)$ $(m_x\|0\frac{1}{2}0)$	$(2_y\|\frac{1}{2}00)$ $(m_y\|\frac{1}{2}00)$	$(2_z\|\frac{1}{2}\frac{1}{2}0)$ $(m_z\|\frac{1}{2}\frac{1}{2}0)$
39.2.257	pban1'					
39.3.258	pb'a'n'	p222 (¼¼0;a,b,c)	$(\underline{1}\|000)$ $(1\|000)'$	$(2_x\|0\frac{1}{2}0)$ $(m_x\|0\frac{1}{2}0)'$	$(2_y\|\frac{1}{2}00)$ $(m_y\|\frac{1}{2}00)'$	$(2_z\|\frac{1}{2}\frac{1}{2}0)$ $(m_z\|\frac{1}{2}\frac{1}{2}0)'$
39.4.259	pb'a'n	p112/a (000;a+b,b,c)	$(\underline{1}\|000)$ $(1\|000)$	$(2_x\|0\frac{1}{2}0)'$ $(m_x\|0\frac{1}{2}0)'$	$(2_y\|\frac{1}{2}00)'$ $(m_y\|\frac{1}{2}00)'$	$(2_z\|\frac{1}{2}\frac{1}{2}0)$ $(m_z\|\frac{1}{2}\frac{1}{2}0)$
39.5.260	pba'n'	p2/b11 (000;a,b,c)	$(\underline{1}\|000)$ $(1\|000)$	$(2_x\|0\frac{1}{2}0)$ $(m_x\|0\frac{1}{2}0)$	$(2_y\|\frac{1}{2}00)'$ $(m_y\|\frac{1}{2}00)'$	$(2_z\|\frac{1}{2}\frac{1}{2}0)'$ $(m_z\|\frac{1}{2}\frac{1}{2}0)'$
39.6.261	pban'	pba2 (¼¼0;a,b,c)	$(\underline{1}\|000)$ $(1\|000)'$	$(2_x\|0\frac{1}{2}0)'$ $(m_x\|0\frac{1}{2}0)$	$(2_y\|\frac{1}{2}00)'$ $(m_y\|\frac{1}{2}00)$	$(2_z\|\frac{1}{2}\frac{1}{2}0)$ $(m_z\|\frac{1}{2}\frac{1}{2}0)'$
39.7.262	pba'n	pb2n(¼00;a,b,c)	$(\underline{1}\|000)$ $(1\|000)'$	$(2_x\|0\frac{1}{2}0)'$ $(m_x\|0\frac{1}{2}0)$	$(2_y\|\frac{1}{2}00)$ $(m_y\|\frac{1}{2}00)'$	$(2_z\|\frac{1}{2}\frac{1}{2}0)'$ $(m_z\|\frac{1}{2}\frac{1}{2}0)$

40.1.263	pmam		$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)$ $(m_x\|½00)$	$(2_y\|½00)$ $(m_y\|½00)$	$(2_z\|000)$ $(m_z\|000)$
40.2.264	pmam1'					
40.3.265	pm'a'm'	$p2_122$ (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½00)$ $(m_x\|½00)'$	$(2_y\|½00)$ $(m_y\|½00)'$	$(2_z\|000)$ $(m_z\|000)'$
40.4.266	pm'am'	p2/b11 (000;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)'$ $(m_x\|½00)'$	$(2_y\|½00)$ $(m_y\|½00)$	$(2_z\|000)'$ $(m_z\|000)'$
40.5.267	pm'a'm	p112/m (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)'$ $(m_x\|½00)'$	$(2_y\|½00)'$ $(m_y\|½00)'$	$(2_z\|000)$ $(m_z\|000)$
40.6.268	pma'm'	$p2_1$/m11 (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)$ $(m_x\|½00)$	$(2_y\|½00)'$ $(m_y\|½00)'$	$(2_z\|000)'$ $(m_z\|000)'$
40.7.269	pma'm	pm2m (¼00;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½00)'$ $(m_x\|½00)$	$(2_y\|½00)$ $(m_y\|½00)'$	$(2_z\|000)'$ $(m_z\|000)$
40.8.270	pmam'	pma2 (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½00)'$ $(m_x\|½00)$	$(2_y\|½00)'$ $(m_y\|½00)$	$(2_z\|000)$ $(m_z\|000)'$
40.9.271	pm'am	$pb2_1m$ (000;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½00)$ $(m_x\|½00)'$	$(2_y\|½00)'$ $(m_y\|½00)$	$(2_z\|000)'$ $(m_z\|000)$
40.10.272	p_{2b}m'am'	pbaa (000;2b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½10)$ $(m_x\|½10)$	$(2_y\|½00)$ $(m_y\|½00)$	$(2_z\|010)$ $(m_z\|010)$
40.11.273	p_{2b}m'a'm	pbam (000;a,2b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½10)$ $(m_x\|½10)$	$(2_y\|½10)$ $(m_y\|½10)$	$(2_z\|000)$ $(m_z\|000)$
40.12.274	p_{2b}ma'm'	pbma (000;2b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)$ $(m_x\|½00)$	$(2_y\|½10)$ $(m_y\|½10)$	$(2_z\|010)$ $(m_z\|010)$
40.13.275	p_{2b}mam	pmam (000;a,2b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)$ $(m_x\|½00)$	$(2_y\|½00)$ $(m_y\|½00)$	$(2_z\|000)$ $(m_z\|000)$

41.1.276	pmma		$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)$ $(m_x\|½00)$	$(2_y\|000)$ $(m_y\|000)$	$(2_z\|½00)$ $(m_z\|½00)$
41.2.277	pmma1'					
41.3.278	pm'm'a'	$p2_122$ (¼00;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½00)$ $(m_x\|½00)'$	$(2_y\|000)$ $(m_y\|000)'$	$(2_z\|½00)$ $(m_z\|½00)'$
41.4.279	pm'm'a	p112/a (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)'$ $(m_x\|½00)'$	$(2_y\|000)'$ $(m_y\|000)'$	$(2_z\|½00)$ $(m_z\|½00)$
41.5.280	pm'ma'	p2/m11 (000;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)'$ $(m_x\|½00)'$	$(2_y\|000)$ $(m_y\|000)$	$(2_z\|½00)'$ $(m_z\|½00)'$
41.6.281	pmm'a'	$p2_1$/m11 (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)$ $(m_x\|½00)$	$(2_y\|000)'$ $(m_y\|000)'$	$(2_z\|½00)'$ $(m_z\|½00)'$
41.7.282	pmma'	pmm2 (¼00;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½00)'$ $(m_x\|½00)$	$(2_y\|000)'$ $(m_y\|000)$	$(2_z\|½00)$ $(m_z\|½00)'$
41.8.283	pmm'a	pm2a (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½00)'$ $(m_x\|½00)$	$(2_y\|000)$ $(m_y\|000)'$	$(2_z\|½00)'$ $(m_z\|½00)$
41.9.284	pm'ma	$pm2_1b$ (000;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½00)$ $(m_x\|½00)'$	$(2_y\|000)'$ $(m_y\|000)$	$(2_z\|½00)'$ $(m_z\|½00)$
41.10.285	p_{2b}m'ma'	pman (000;2b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½10)$ $(m_x\|½10)$	$(2_y\|000)$ $(m_y\|000)$	$(2_z\|½10)$ $(m_z\|½10)$
41.11.286	p_{2b}m'm'a	pbma (000;a,2b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½10)$ $(m_x\|½10)$	$(2_y\|010)$ $(m_y\|010)$	$(2_z\|½00)$ $(m_z\|½00)$
41.12.287	p_{2b}mm'a'	pmmn (000;a,2b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)$ $(m_x\|½00)$	$(2_y\|010)$ $(m_y\|010)$	$(2_z\|½10)$ $(m_z\|½10)$
41.13.288	p_{2b}mma	pmma (000;a,2b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)$ $(m_x\|½00)$	$(2_y\|000)$ $(m_y\|000)$	$(2_z\|½00)$ $(m_z\|½00)$

42.1.289	pman		$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|½½0)$ $(m_y\|½½0)$	$(2_z\|½½0)$ $(m_z\|½½0)$
42.2.290	pman1'					
42.3.291	pm'a'n'	$p2_122$ (¼¼0;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|000)$ $(m_x\|000)'$	$(2_y\|½½0)$ $(m_y\|½½0)'$	$(2_z\|½½0)$ $(m_z\|½½0)'$
42.4.292	pm'an'	$p2_1/b11$ (000;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|000)'$ $(m_x\|000)'$	$(2_y\|½½0)$ $(m_y\|½½0)$	$(2_z\|½½0)'$ $(m_z\|½½0)'$
42.5.293	pm'a'n	p112/a (000;a+b,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|000)'$ $(m_x\|000)'$	$(2_y\|½½0)'$ $(m_y\|½½0)'$	$(2_z\|½½0)$ $(m_z\|½½0)$
42.6.294	pma'n'	p2/m11 (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|½½0)'$ $(m_y\|½½0)'$	$(2_z\|½½0)'$ $(m_z\|½½0)'$
42.7.295	pma'n	$pm2_1n$ (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|½½0)$ $(m_y\|½½0)'$	$(2_z\|½½0)'$ $(m_z\|½½0)$
42.8.296	pman'	pma2 (¼¼0;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|½½0)'$ $(m_y\|½½0)$	$(2_z\|½½0)$ $(m_z\|½½0)'$
42.9.297	pm'an	pb2n (000;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|000)$ $(m_x\|000)'$	$(2_y\|½½0)'$ $(m_y\|½½0)$	$(2_z\|½½0)'$ $(m_z\|½½0)$

43.1.298	pbaa		$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|0½0)$ $(m_x\|0½0)$	$(2_y\|½½0)$ $(m_y\|½½0)$	$(2_z\|½00)$ $(m_z\|½00)$
43.2.299	pbaa1'					
43.3.300	pb'a'a'	$p2_122$ (¼00;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|0½0)$ $(m_x\|0½0)'$	$(2_y\|½½0)$ $(m_y\|½½0)'$	$(2_z\|½00)$ $(m_z\|½00)'$
43.4.301	pba'a'	p2/b11 (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|0½0)$ $(m_x\|0½0)$	$(2_y\|½½0)'$ $(m_y\|½½0)'$	$(2_z\|½00)'$ $(m_z\|½00)'$
43.5.302	pb'aa'	$p2_1/b11$ (000;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|0½0)'$ $(m_x\|0½0)'$	$(2_y\|½½0)$ $(m_y\|½½0)$	$(2_z\|½00)'$ $(m_z\|½00)'$
43.6.303	pb'a'a	p112/a (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|0½0)'$ $(m_x\|0½0)'$	$(2_y\|½½0)'$ $(m_y\|½½0)'$	$(2_z\|½00)$ $(m_z\|½00)$
43.7.304	pb'aa	pb2b (0¼0;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|0½0)$ $(m_x\|0½0)'$	$(2_y\|½½0)'$ $(m_y\|½½0)$	$(2_z\|½00)'$ $(m_z\|½00)$
43.8.305	pbaa'	pba2 (¼00;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|0½0)'$ $(m_x\|0½0)$	$(2_y\|½½0)'$ $(m_y\|½½0)$	$(2_z\|½00)$ $(m_z\|½00)'$
43.9.306	pba'a	$pb2_1a$ (¼00;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|0½0)'$ $(m_x\|0½0)$	$(2_y\|½½0)$ $(m_y\|½½0)'$	$(2_z\|½00)'$ $(m_z\|½00)$

44.1.307	pbam		$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½½0)$ $(m_x\|½½0)$	$(2_y\|½½0)$ $(m_y\|½½0)$	$(2_z\|000)$ $(m_z\|000)$
44.2.308	pbam1'					
44.3.309	pb'a'm'	$p2_12_12$ (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½½0)$ $(m_x\|½½0)'$	$(2_y\|½½0)$ $(m_y\|½½0)'$	$(2_z\|000)$ $(m_z\|000)'$
44.4.310	pb'a'm	p112/m (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½½0)'$ $(m_x\|½½0)'$	$(2_y\|½½0)'$ $(m_y\|½½0)'$	$(2_z\|000)$ $(m_z\|000)$
44.5.311	pba'm'	$p2_1/b11$ (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½½0)$ $(m_x\|½½0)$	$(2_y\|½½0)'$ $(m_y\|½½0)'$	$(2_z\|000)'$ $(m_z\|000)'$
44.6.312	pbam'	pba2 (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½½0)'$ $(m_x\|½½0)$	$(2_y\|½½0)'$ $(m_y\|½½0)$	$(2_z\|000)$ $(m_z\|000)'$
44.7.313	pba'm	$pb2_1m$ (¼00;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½½0)'$ $(m_x\|½½0)$	$(2_y\|½½0)$ $(m_y\|½½0)'$	$(2_z\|000)'$ $(m_z\|000)$

45.1.314	pbma		$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½½0)$ $(m_x\|½½0)$	$(2_y\|0½0)$ $(m_y\|0½0)$	$(2_z\|½00)$ $(m_z\|½00)$
45.2.315	pbma1'					
45.3.316	pb'm'a'	$p2_12_12$ (¼00;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½½0)$ $(m_x\|½½0)'$	$(2_y\|0½0)$ $(m_y\|0½0)'$	$(2_z\|½00)$ $(m_z\|½00)'$
45.4.317	pb'ma'	$p2_1/m11$ (000;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½½0)'$ $(m_x\|½½0)'$	$(2_y\|0½0)$ $(m_y\|0½0)$	$(2_z\|½00)'$ $(m_z\|½00)'$
45.5.318	pbm'a'	$p2_1/b11$ (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½½0)$ $(m_x\|½½0)$	$(2_y\|0½0)'$ $(m_y\|0½0)'$	$(2_z\|½00)'$ $(m_z\|½00)'$
45.6.319	pb'm'a	p112/a (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½½0)'$ $(m_x\|½½0)'$	$(2_y\|0½0)'$ $(m_y\|0½0)'$	$(2_z\|½00)$ $(m_z\|½00)$
45.7.320	pbm'a	$pb2_1a$ (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½½0)'$ $(m_x\|½½0)$	$(2_y\|0½0)$ $(m_y\|0½0)'$	$(2_z\|½00)'$ $(m_z\|½00)$
45.8.321	pb'ma	$pm2_1b$ (0¼0;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½½0)$ $(m_x\|½½0)'$	$(2_y\|0½0)'$ $(m_y\|0½0)$	$(2_z\|½00)'$ $(m_z\|½00)$
45.9.322	pbma'	pma2 (¼00;b,$\overline{a}$,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½½0)'$ $(m_x\|½½0)$	$(2_y\|0½0)'$ $(m_y\|0½0)$	$(2_z\|½00)$ $(m_z\|½00)'$

46.1.323	pmmn		$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)$ $(m_x\|½00)$	$(2_y\|0½0)$ $(m_y\|0½0)$	$(2_z\|½½0)$ $(m_z\|½½0)$
46.2.324	pmmn1'					
46.3.325	pm'm'n'	$p2_12_12$ (¼¼0;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½00)$ $(m_x\|½00)'$	$(2_y\|0½0)$ $(m_y\|0½0)'$	$(2_z\|½½0)$ $(m_z\|½½0)'$
46.4.326	pm'm'n	p112/a (000;a+b,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)'$ $(m_x\|½00)'$	$(2_y\|0½0)'$ $(m_y\|0½0)'$	$(2_z\|½½0)$ $(m_z\|½½0)$
46.5.327	pmm'n'	$p2_1/m11$ (000;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)$	$(2_x\|½00)$ $(m_x\|½00)$	$(2_y\|0½0)'$ $(m_y\|0½0)'$	$(2_z\|½½0)'$ $(m_z\|½½0)'$
46.6.328	pmmn'	pmm2 (¼¼0;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½00)'$ $(m_x\|½00)$	$(2_y\|0½0)'$ $(m_y\|0½0)$	$(2_z\|½½0)$ $(m_z\|½½0)'$
46.7.329	pmm'n	$pm2_1n$ (¼00;a,b,c)	$(\underline{1}\|000)$ $(\overline{1}\|000)'$	$(2_x\|½00)'$ $(m_x\|½00)$	$(2_y\|0½0)$ $(m_y\|0½0)'$	$(2_z\|½½0)'$ $(m_z\|½½0)$

47.1.330	cmmm		$(\bar{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|000)$ $(m_y\|000)$	$(2_z\|000)$ $(m_z\|000)$
47.2.331	cmmm1'					
47.3.332	cm'm'm'	c222 (000;a,b,c)	$(\bar{1}\|000)$ $(1\|000)'$	$(2_x\|000)$ $(m_x\|000)'$	$(2_y\|000)$ $(m_y\|000)'$	$(2_z\|000)$ $(m_z\|000)'$
47.4.333	cm'm'm	p112/m (000;a,(a+b)/2,c)	$(\bar{1}\|000)$ $(1\|000)$	$(2_x\|000)'$ $(m_x\|000)'$	$(2_y\|000)'$ $(m_y\|000)'$	$(2_z\|000)$ $(m_z\|000)$
47.5.334	cmm'm'	c2/m11 (000;a,b,c)	$(\bar{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|000)'$ $(m_y\|000)'$	$(2_z\|000)'$ $(m_z\|000)'$
47.6.335	cmmm'	cmm2 (000;a,b,c)	$(\bar{1}\|000)$ $(1\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|000)'$ $(m_y\|000)$	$(2_z\|000)$ $(m_z\|000)'$
47.7.336	cmm'm	cm2m (000;a,b,c)	$(\bar{1}\|000)$ $(1\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|000)$ $(m_y\|000)'$	$(2_z\|000)'$ $(m_z\|000)$
47.8.337	$c_p$mmm	pmmm (000;a,b,c)	$(\bar{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|000)$ $(m_y\|000)$	$(2_z\|000)$ $(m_z\|000)$
47.9.338	c_pm'm'm'	pban (¼¼0;a,b,c)	$(\bar{1}\|000)$ $(1\|½½0)$	$(2_x\|000)$ $(m_x\|½½0)$	$(2_y\|000)$ $(m_y\|½½0)$	$(2_z\|000)$ $(m_z\|½½0)$
47.10.339	c_pm'm'm	pbam (000;a,b,c)	$(\bar{1}\|000)$ $(1\|000)$	$(2_x\|½½0)$ $(m_x\|½½0)$	$(2_y\|½½0)$ $(m_y\|½½0)$	$(2_z\|000)$ $(m_z\|000)$
47.11.340	$c_p$mm'm'	pman (000;a,b,c)	$(\bar{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|½½0)$ $(m_y\|½½0)$	$(2_z\|½½0)$ $(m_z\|½½0)$
47.12.341	$c_p$mmm'	pmmn (¼¼0;a,b,c)	$(\bar{1}\|000)$ $(1\|½½0)$	$(2_x\|½½0)$ $(m_x\|000)$	$(2_y\|½½0)$ $(m_y\|000)$	$(2_z\|000)$ $(m_z\|½½0)$
47.13.342	$c_p$mm'm	pmam (¼¼0;a,b,c)	$(\bar{1}\|000)$ $(1\|½½0)$	$(2_x\|½½0)$ $(m_x\|000)$	$(2_y\|000)$ $(m_y\|½½0)$	$(2_z\|½½0)$ $(m_z\|000)$

48.1.343	cmme		$(\bar{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|0½0)$ $(m_y\|0½0)$	$(2_z\|0½0)$ $(m_z\|0½0)$
48.2.344	cmme1'					
48.3.345	cm'm'e'	c222 (¼00;a,b,c)	$(\bar{1}\|000)$ $(1\|000)'$	$(2_x\|000)$ $(m_x\|000)'$	$(2_y\|0½0)$ $(m_y\|0½0)'$	$(2_z\|0½0)$ $(m_z\|0½0)'$
48.4.346	cm'm'e	p112/a (000;b,(-a+b)/2,c)	$(\bar{1}\|000)$ $(1\|000)$	$(2_x\|000)'$ $(m_x\|000)'$	$(2_y\|0½0)'$ $(m_y\|0½0)'$	$(2_z\|0½0)$ $(m_z\|0½0)$
48.5.347	cmm'e'	c2/m11 (000;a,b,c)	$(\bar{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|0½0)'$ $(m_y\|0½0)'$	$(2_z\|0½0)'$ $(m_z\|0½0)'$
48.6.348	cmme'	cmm2 (0¼0;a,b,c)	$(\bar{1}\|000)$ $(1\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|0½0)'$ $(m_y\|0½0)$	$(2_z\|0½0)$ $(m_z\|0½0)'$
48.7.349	cmm'e	cm2a (¼¼0;a,b,c)	$(\bar{1}\|000)$ $(1\|000)'$	$(2_x\|000)'$ $(m_x\|000)$	$(2_y\|0½0)$ $(m_y\|0½0)'$	$(2_z\|0½0)'$ $(m_z\|0½0)$
48.8.350	c_pm'm'e'	pbaa (¼¼0;a,b,c)	$(\bar{1}\|000)$ $(1\|½½0)$	$(2_x\|000)$ $(m_x\|½½0)$	$(2_y\|0½0)$ $(m_y\|½00)$	$(2_z\|0½0)$ $(m_z\|½00)$
48.9.351	c_pm'me'	pbma (000;a,b,c)	$(\bar{1}\|000)$ $(1\|000)$	$(2_x\|½½0)$ $(m_x\|½½0)$	$(2_y\|0½0)$ $(m_y\|0½0)$	$(2_z\|½00)$ $(m_z\|½00)$
48.10.352	$c_p$mm'e'	pmaa (000;a,b,c)	$(\bar{1}\|000)$ $(1\|000)$	$(2_x\|000)$ $(m_x\|000)$	$(2_y\|½00)$ $(m_y\|½00)$	$(2_z\|½00)$ $(m_z\|½00)$
48.11.353	$c_p$mme'	pmma (¼¼0;a,b,c)	$(\bar{1}\|000)$ $(1\|½½0)$	$(2_x\|½½0)$ $(m_x\|000)$	$(2_y\|½00)$ $(m_y\|0½0)$	$(2_z\|0½0)$ $(m_z\|½00)$

49.1.354	p4		(1|000)	(4_z|000)	(2_z|000)	(4_z^{-1}|000)
49.2.355	p41'					
49.3.356	p4'	p112 (000;a,b,c)	(1|000)	(4_z|000)'	(2_z|000)	(4_z^{-1}|000)'
49.4.357	p_p4	p4 (000;a-b,a+b,c)	(1|000)	(4_z|000)	(2_z|000)	(4_z^{-1}|000)
50.1.358	p$\bar{4}$		(1|000)	($\bar{4}_z$|000)	(2_z|000)	($\bar{4}_z^{-1}$|000)
50.2.359	p$\bar{4}$1'					
50.3.360	p$\bar{4}$'	p112 (000;a,b,c)	(1|000)	($\bar{4}_z$|000)'	(2_z|000)	($\bar{4}_z^{-1}$|000)'
50.4.361	$p_p\bar{4}$	p$\bar{4}$ (000;a-b,a+b,c)	(1|000)	($\bar{4}_z$|000)	(2_z|000)	($\bar{4}_z^{-1}$|000)
51.1.362	p4/m		($\underline{1}$|000) ($\bar{1}$|000)	(4_z|000) ($\bar{4}_z$|000)	(2_z|000) (m_z|000)	(4_z^{-1}|000) ($\bar{4}_z^{-1}$|000)
51.2.363	p4/m1'					
51.3.364	p4/m'	p4 (000;a,b,c)	($\underline{1}$|000) ($\bar{1}$|000)'	(4_z|000) (4_z|000)'	(2_z|000) (m_z|000)'	(4_z^{-1}|000) ($\bar{4}_z^{-1}$|000)'
51.4.365	p4'/m'	p$\bar{4}$ (000;a,b,c)	($\underline{1}$|000) ($\bar{1}$|000)'	($\bar{4}_z$|000)' (4_z|000)	(2_z|000) (m_z|000)'	($\bar{4}_z^{-1}$|000)' ($\bar{4}_z^{-1}$|000)
51.5.366	p4'/m	p112/m (000;a,b,c)	($\underline{1}$|000) ($\bar{1}$|000)	($\bar{4}_z$|000)' ($\bar{4}_z$|000)'	(2_z|000) (m_z|000)	($\bar{4}_z^{-1}$|000)' ($\bar{4}_z^{-1}$|000)'
51.6.367	p_p4/m'	p4/n (000;a-b,a+b,c)	($\underline{1}$|000) ($\bar{1}$|100)	($\bar{4}_z$|000) ($\bar{4}_z$|100)	(2_z|000) (m_z|100)	($\bar{4}_z^{-1}$|000) ($\bar{4}_z^{-1}$|100)
51.7.368	p_p4/m	p4/m (000;a-b,a+b,c)	($\underline{1}$|000) ($\bar{1}$|000)	($\bar{4}_z$|000) ($\bar{4}_z$|000)	(2_z|000) (m_z|000)	($\bar{4}_z^{-1}$|000) ($\bar{4}_z^{-1}$|000)

52.1.369	p4/n		$(\underline{1}\|000)$ $(1\|½½0)$	$(\underline{4}_z\|000)$ $(\underline{4}_z\|½½0)$	$(2_z\|000)$ $(m_z\|½½0)$	$(\underline{4}_z^{-1}\|000)$ $(\underline{4}_z^{-1}\|½½0)$
52.2.370	p4/n1'					
52.3.371	p4/n'	p4 (000;a,b,c)	$(\underline{1}\|000)$ $(1\|½½0)'$	$(\underline{4}_z\|000)$ $(\underline{4}_z\|½½0)'$	$(2_z\|000)$ $(m_z\|½½0)'$	$(\underline{4}_z^{-1}\|000)$ $(\underline{4}_z^{-1}\|½½0)'$
52.4.372	p4'/n'	$p\overline{4}$ (½00;a,b,c)	$(\underline{1}\|000)$ $(1\|½½0)'$	$(\underline{4}_z\|000)'$ $(\underline{4}_z\|½½0)$	$(2_z\|000)$ $(m_z\|½½0)'$	$(\underline{4}_z^{-1}\|000)'$ $(\underline{4}_z^{-1}\|½½0)$
52.5.373	p4'/n	p112/a (¼¼0;a+b,b,c)	$(\underline{1}\|000)$ $(1\|½½0)$	$(\underline{4}_z\|000)'$ $(\underline{4}_z\|½½0)'$	$(2_z\|000)$ $(m_z\|½½0)$	$(\underline{4}_z^{-1}\|000)'$ $(\underline{4}_z^{-1}\|½½0)'$
53.1.374	p422		$(1\|000)$ $(2_x\|000)$	$(4_z\|000)$ $(2_y\|000)$	$(2_z\|000)$ $(2_{xy}\|000)$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|000)$
53.2.375	p4221'					
53.3.376	p42'2'	p4 (000;a,b,c)	$(1\|000)$ $(2_x\|000)'$	$(4_z\|000)$ $(2_y\|000)'$	$(2_z\|000)$ $(2_{xy}\|000)'$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|000)'$
53.4.377	p4'22'	p222 (000;a,b,c)	$(1\|000)$ $(2_x\|000)$	$(4_z\|000)'$ $(2_y\|000)$	$(2_z\|000)$ $(2_{xy}\|000)'$	$(4_z^{-1}\|000)'$ $(2_{\bar{x}y}\|000)'$
53.5.378	p4'2'2	c222 (000;a-b,a+b,c)	$(1\|000)$ $(2_x\|000)'$	$(4_z\|000)'$ $(2_y\|000)'$	$(2_z\|000)$ $(2_{xy}\|000)$	$(4_z^{-1}\|000)'$ $(2_{\bar{x}y}\|000)$
53.6.379	p_p42'2'	$p42_12$ (000;a-b,a+b,c)	$(1\|000)$ $(2_x\|100)$	$(4_z\|000)$ $(2_y\|100)$	$(2_z\|000)$ $(2_{xy}\|100)$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|100)$
53.7.380	p_p422	p422 (000;a-b,a+b,c)	$(1\|000)$ $(2_x\|000)$	$(4_z\|000)$ $(2_y\|000)$	$(2_z\|000)$ $(2_{xy}\|000)$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|000)$

54.1.381	$p42_12$		$(1\|000)$ $(2_x\|½½0)$	$(4_z\|000)$ $(2_y\|½½0)$	$(2_z\|000)$ $(2_{xy}\|½½0)$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|½½0)$
54.2.382	$p42_121'$					
54.3.383	$p42_1'2'$	p4 (000;a,b,c)	$(1\|000)$ $(2_x\|½½0)'$	$(4_z\|000)$ $(2_y\|½½0)'$	$(2_z\|000)$ $(2_{xy}\|½½0)'$	$(4_z^{-1}\|000)$ $(2_{\bar{x}y}\|½½0)'$
54.4.384	$p4'2_12'$	$p2_12_12$ (000;a,b,c)	$(1\|000)$ $(2_x\|½½0)$	$(4_z\|000)'$ $(2_y\|½½0)$	$(2_z\|000)$ $(2_{xy}\|½½0)'$	$(4_z^{-1}\|000)'$ $(2_{\bar{x}y}\|½½0)'$
54.5.385	$p4'2_1'2$	c222 (½00;a-b,a+b,c)	$(1\|000)$ $(2_x\|½½0)'$	$(4_z\|000)'$ $(2_y\|½½0)'$	$(2_z\|000)$ $(2_{xy}\|½½0)$	$(4_z^{-1}\|000)'$ $(2_{\bar{x}y}\|½½0)$
55.1.386	p4mm		$(1\|000)$ $(m_x\|000)$	$(4_z\|000)$ $(m_y\|000)$	$(2_z\|000)$ $(m_{xy}\|000)$	$(4_z^{-1}\|000)$ $(m_{\bar{x}y}\|000)$
55.2.387	p4mm1'					
55.3.388	p4m'm'	p4 (000;a,b,c)	$(1\|000)$ $(m_x\|000)'$	$(4_z\|000)$ $(m_y\|000)'$	$(2_z\|000)$ $(m_{xy}\|000)'$	$(4_z^{-1}\|000)$ $(m_{\bar{x}y}\|000)'$
55.4.389	p4'mm'	pmm2 (000;a,b,c)	$(1\|000)$ $(m_x\|000)$	$(4_z\|000)'$ $(m_y\|000)$	$(2_z\|000)$ $(m_{xy}\|000)'$	$(4_z^{-1}\|000)'$ $(m_{\bar{x}y}\|000)'$
55.5.390	p4'm'm	cmm2 (000;a-b,a+b,c)	$(1\|000)$ $(m_x\|000)'$	$(4_z\|000)'$ $(m_y\|000)'$	$(2_z\|000)$ $(m_{xy}\|000)$	$(4_z^{-1}\|000)'$ $(m_{\bar{x}y}\|000)$
55.6.391	$p_p4m'm'$	p4bm (000;a-b,a+b,c)	$(1\|000)$ $(m_x\|100)$	$(4_z\|000)$ $(m_y\|100)$	$(2_z\|000)$ $(m_{xy}\|100)$	$(4_z^{-1}\|000)$ $(m_{\bar{x}y}\|100)$
55.7.392	p_p4mm	p4mm (000;a-b,a+b,c)	$(1\|000)$ $(m_x\|000)$	$(4_z\|000)$ $(m_y\|000)$	$(2_z\|000)$ $(m_{xy}\|000)$	$(4_z^{-1}\|000)$ $(m_{\bar{x}y}\|000)$

56.1.393	p4bm			$(1\|000)$ $(m_x\|½½0)$	$(4_z\|000)$ $(m_y\|½½0)$	$(2_z\|000)$ $(m_{xy}\|½½0)$	$(4_z^{-1}\|000)$ $(m_{\bar{x}y}\|½½0)$
56.2.394	p4bm1'						
56.3.395	p4b'm'	p4	(000;a,b,c)	$(1\|000)$ $(m_x\|½½0)'$	$(4_z\|000)$ $(m_y\|½½0)'$	$(2_z\|000)$ $(m_{xy}\|½½0)'$	$(4_z^{-1}\|000)$ $(m_{\bar{x}y}\|½½0)'$
56.4.396	p4'bm'	pba2	(000;a,b,c)	$(1\|000)$ $(m_x\|½½0)$	$(4_z\|000)'$ $(m_y\|½½0)$	$(2_z\|000)$ $(m_{xy}\|½½0)'$	$(4_z^{-1}\|000)'$ $(m_{\bar{x}y}\|½½0)'$
56.5.397	p4'b'm	cmm2	(½00;a-b,a+b,c)	$(1\|000)$ $(m_x\|½½0)'$	$(4_z\|000)'$ $(m_y\|½½0)'$	$(2_z\|000)$ $(m_{xy}\|½½0)$	$(4_z^{-1}\|000)'$ $(m_{\bar{x}y}\|½½0)$
57.1.398	p$\bar{4}$2m			$(1\|000)$ $(2_x\|000)$	$(\bar{4}_z\|000)$ $(2_y\|000)$	$(2_z\|000)$ $(m_{xy}\|000)$	$(\bar{4}_z^{-1}\|000)$ $(m_{\bar{x}y}\|000)$
57.2.399	p$\bar{4}$2m1'						
57.3.400	p$\bar{4}$2'm'	p$\bar{4}$	(000;a,b,c)	$(1\|000)$ $(2_x\|000)'$	$(\bar{4}_z\|000)$ $(2_y\|000)'$	$(2_z\|000)$ $(m_{xy}\|000)'$	$(\bar{4}_z^{-1}\|000)$ $(m_{\bar{x}y}\|000)'$
57.4.401	p$\bar{4}$'2m'	p222	(000;a,b,c)	$(1\|000)$ $(2_x\|000)$	$(\bar{4}_z\|000)'$ $(2_y\|000)$	$(2_z\|000)$ $(m_{xy}\|000)'$	$(\bar{4}_z^{-1}\|000)'$ $(m_{\bar{x}y}\|000)'$
57.5.402	p$\bar{4}$'2'm	cmm2	(000;a-b,a+b,c)	$(1\|000)$ $(2_x\|000)'$	$(\bar{4}_z\|000)'$ $(2_y\|000)'$	$(2_z\|000)$ $(m_{xy}\|000)$	$(\bar{4}_z^{-1}\|000)'$ $(m_{\bar{x}y}\|000)$
57.6.403	$p_p\bar{4}$2m	p$\bar{4}$m2	(000;a-b,a+b,c)	$(1\|000)$ $(2_x\|000)$	$(\bar{4}_z\|000)$ $(2_y\|000)$	$(2_z\|000)$ $(m_{xy}\|000)$	$(\bar{4}_z^{-1}\|000)$ $(m_{\bar{x}y}\|000)$
57.7.404	$p_p\bar{4}$2'm'	p$\bar{4}$b2	(000;a-b,a+b,c)	$(1\|000)$ $(2_x\|100)$	$(\bar{4}_z\|000)$ $(2_y\|100)$	$(2_z\|000)$ $(m_{xy}\|100)$	$(\bar{4}_z^{-1}\|000)$ $(m_{\bar{x}y}\|100)$

58.1.405	$p\bar{4}2_1m$		$(1\|000)$ $(2_x\|½½0)$	$(\bar{4}_z\|000)$ $(2_y\|½½0)$	$(2_z\|000)$ $(m_{xy}\|½½0)$	$(\bar{4}_z^{-1}\|000)$ $(m_{\bar{x}y}\|½½0)$
58.2.406	$p\bar{4}2_1m1'$					
58.3.407	$p\bar{4}2_1'm'$	$p\bar{4}$ (000;a,b,c)	$(1\|000)$ $(2_x\|½½0)'$	$(\bar{4}_z\|000)$ $(2_y\|½½0)'$	$(2_z\|000)$ $(m_{xy}\|½½0)'$	$(\bar{4}_z^{-1}\|000)$ $(m_{\bar{x}y}\|½½0)'$
58.4.408	$p\bar{4}'2_1m'$	$p2_12_12$ (000;a,b,c)	$(1\|000)$ $(2_x\|½½0)$	$(\bar{4}_z\|000)'$ $(2_y\|½½0)$	$(2_z\|000)$ $(m_{xy}\|½½0)'$	$(\bar{4}_z^{-1}\|000)'$ $(m_{\bar{x}y}\|½½0)'$
58.5.409	$p\bar{4}'2_1'm$	cmm2 (½00;a-b,a+b,c)	$(1\|000)$ $(2_x\|½½0)'$	$(\bar{4}_z\|000)'$ $(2_y\|½½0)'$	$(2_z\|000)$ $(m_{xy}\|½½0)$	$(\bar{4}_z^{-1}\|000)'$ $(m_{\bar{x}y}\|½½0)$
59.1.410	$p\bar{4}m2$		$(1\|000)$ $(m_x\|000)$	$(\bar{4}_z\|000)$ $(m_y\|000)$	$(2_z\|000)$ $(2_{xy}\|000)$	$(\bar{4}_z^{-1}\|000)$ $(2_{\bar{x}y}\|000)$
59.2.411	$p\bar{4}m21'$					
59.3.412	$p\bar{4}m'2'$	$p\bar{4}$ (000;a,b,c)	$(1\|000)$ $(m_x\|000)'$	$(\bar{4}_z\|000)$ $(m_y\|000)'$	$(2_z\|000)$ $(2_{xy}\|000)'$	$(\bar{4}_z^{-1}\|000)$ $(2_{\bar{x}y}\|000)'$
59.4.413	$p\bar{4}'m2'$	pmm2 (000;a,b,c)	$(1\|000)$ $(m_x\|000)$	$(\bar{4}_z\|000)'$ $(m_y\|000)$	$(2_z\|000)$ $(2_{xy}\|000)'$	$(\bar{4}_z^{-1}\|000)'$ $(2_{\bar{x}y}\|000)'$
59.5.414	$p\bar{4}'m'2$	c222 (000;a-b,a+b,c)	$(1\|000)$ $(m_x\|000)'$	$(\bar{4}_z\|000)'$ $(m_y\|000)'$	$(2_z\|000)$ $(2_{xy}\|000)$	$(\bar{4}_z^{-1}\|000)'$ $(2_{\bar{x}y}\|000)$
59.6.415	$p_p\bar{4}m2$	$p\bar{4}2m$ (000;a-b,a+b,c)	$(1\|000)$ $(m_x\|000)$	$(\bar{4}_z\|000)$ $(m_y\|000)$	$(2_z\|000)$ $(2_{xy}\|000)$	$(\bar{4}_z^{-1}\|000)$ $(2_{\bar{x}y}\|000)$
59.7.416	$p_p\bar{4}m'2'$	$p\bar{4}2_1m$ (000;a-b,a+b,c)	$(1\|000)$ $(m_x\|100)$	$(\bar{4}_z\|000)$ $(m_y\|100)$	$(2_z\|000)$ $(2_{xy}\|100)$	$(\bar{4}_z^{-1}\|000)$ $(2_{\bar{x}y}\|100)$

60.1.417	p$\bar{4}$b2			(1|000)	($\bar{4}_z$|000)	(2_z|000)	($\bar{4}_z^{-1}$|000)
				(m_x|½½0)	(m_y|½½0)	(2_{xy}|½½0)	($2_{\bar{x}y}$|½½0)
60.2.418	p$\bar{4}$b21'						
60.3.419	p$\bar{4}$b'2'	p$\bar{4}$	(000;a,b,c)	(1|000)	($\bar{4}_z$|000)	(2_z|000)	($\bar{4}_z^{-1}$|000)
				(m_x|½½0)'	(m_y|½½0)'	(2_{xy}|½½0)'	($2_{\bar{x}y}$|½½0)'
60.4.420	p$\bar{4}$'b2'	pba2	(000;a,b,c)	(1|000)	($\bar{4}_z$|000)'	(2_z|000)	($\bar{4}_z^{-1}$|000)'
				(m_x|½½0)	(m_y|½½0)	(2_{xy}|½½0)'	($2_{\bar{x}y}$|½½0)'
60.5.421	p$\bar{4}$'b'2	c222	(½00;a-b,a+b,c)	(1|000)	($\bar{4}_z$|000)'	(2_z|000)	($\bar{4}_z^{-1}$|000)'
				(m_x|½½0)'	(m_y|½½0)'	(2_{xy}|½½0)	($2_{\bar{x}y}$|½½0)

61.1.422 p4/mmm

$(1|000)$ $(4_z|000)$ $(2_z|000)$ $(4_z^{-1}|000)$
$(\underline{2}_x|000)$ $(\underline{2}_y|000)$ $(2_{xy}|000)$ $(\underline{2}_{\bar{x}y}|000)$
$(1|000)$ $(4_z|000)$ $(m_z|000)$ $(4_z^{-1}|000)$
$(m_x|000)$ $(m_y|000)$ $(m_{xy}|000)$ $(m_{\bar{x}y}|000)$

61.2.423 p4/mmm1'

61.3.424 p4/m'm'm' p422 (000;a,b,c)

$(1|000)$ $(4_z|000)$ $(2_z|000)$ $(4_z^{-1}|000)$
$(\underline{2}_x|000)$ $(\underline{2}_y|000)$ $(2_{xy}|000)$ $(\underline{2}_{\bar{x}y}|000)$
$(1|000)'$ $(4_z|000)'$ $(m_z|000)'$ $(4_z^{-1}|000)'$
$(m_x|000)'$ $(m_y|000)'$ $(m_{xy}|000)'$ $(m_{\bar{x}y}|000)'$

61.4.425 p4/mm'm' p4/m (000;a,b,c)

$(1|000)$ $(4_z|000)$ $(2_z|000)$ $(4_z^{-1}|000)$
$(\underline{2}_x|000)'$ $(\underline{2}_y|000)'$ $(2_{xy}|000)'$ $(\underline{2}_{\bar{x}y}|000)'$
$(1|000)$ $(4_z|000)$ $(m_z|000)$ $(4_z^{-1}|000)$
$(m_x|000)'$ $(m_y|000)'$ $(m_{xy}|000)'$ $(m_{\bar{x}y}|000)'$

61.5.426 p4/m'mm p4mm (000;a,b,c)

$(1|000)$ $(4_z|000)$ $(2_z|000)$ $(4_z^{-1}|000)$
$(\underline{2}_x|000)'$ $(\underline{2}_y|000)'$ $(2_{xy}|000)'$ $(\underline{2}_{\bar{x}y}|000)'$
$(1|000)'$ $(4_z|000)'$ $(m_z|000)'$ $(4_z^{-1}|000)'$
$(m_x|000)$ $(m_y|000)$ $(m_{xy}|000)$ $(m_{\bar{x}y}|000)$

61.6.427 p4'/m'm'm p$\bar{4}$2m (000;a,b,c)

$(1|000)$ $(4_z|000)'$ $(2_z|000)$ $(4_z^{-1}|000)'$
$(\underline{2}_x|000)$ $(\underline{2}_y|000)$ $(2_{xy}|000)'$ $(\underline{2}_{\bar{x}y}|000)'$
$(1|000)'$ $(4_z|000)$ $(m_z|000)'$ $(4_z^{-1}|000)$
$(m_x|000)'$ $(m_y|000)'$ $(m_{xy}|000)$ $(m_{\bar{x}y}|000)$

61.7.428 p4'/m'mm' p$\bar{4}$m2 (000;a,b,c)

$(1|000)$ $(4_z|000)'$ $(2_z|000)$ $(4_z^{-1}|000)'$
$(\underline{2}_x|000)'$ $(\underline{2}_y|000)'$ $(2_{xy}|000)$ $(\underline{2}_{\bar{x}y}|000)$
$(1|000)'$ $(4_z|000)$ $(m_z|000)'$ $(4_z^{-1}|000)$
$(m_x|000)$ $(m_y|000)$ $(m_{xy}|000)'$ $(m_{\bar{x}y}|000)'$

61.8.429 p4'/mmm' pmmm (000;a,b,c)

$(1|000)$ $(4_z|000)'$ $(2_z|000)$ $(4_z^{-1}|000)'$
$(\underline{2}_x|000)$ $(\underline{2}_y|000)$ $(2_{xy}|000)'$ $(\underline{2}_{\bar{x}y}|000)'$
$(1|000)$ $(4_z|000)'$ $(m_z|000)$ $(4_z^{-1}|000)'$
$(m_x|000)$ $(m_y|000)$ $(m_{xy}|000)'$ $(m_{\bar{x}y}|000)'$

61.9.430	p4'/mm'm	cmmm (000;a-b,a+b,c)	$(1\|000)$	$(4_z\|000)'$	$(2_z\|000)$	$(4_z^{-1}\|000)'$
			$(\bar{2}_x\|000)'$	$(\bar{2}_y\|000)'$	$(2_{xy}\|000)$	$(\bar{2}_{\bar{x}y}\|000)$
			$(\bar{1}\|000)$	$(\bar{4}_z\|000)'$	$(m_z\|000)$	$(\bar{4}_z^{-1}\|000)'$
			$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|000)$	$(m_{\bar{x}y}\|000)$
61.10.431	$p_p4/m'm'm'$	p4/nbm (000;a-b,a+b,c)	$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(\bar{2}_x\|000)$	$(\bar{2}_y\|000)$	$(2_{xy}\|000)$	$(\bar{2}_{\bar{x}y}\|000)$
			$(\bar{1}\|100)$	$(\bar{4}_z\|100)$	$(m_z\|100)$	$(\bar{4}_z^{-1}\|100)$
			$(m_x\|100)$	$(m_y\|100)$	$(m_{xy}\|100)$	$(m_{\bar{x}y}\|100)$
61.11.432	$p_p4/mm'm'$	p4/mbm (000;a-b,a+b,c)	$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(\bar{2}_x\|100)$	$(\bar{2}_y\|100)$	$(2_{xy}\|100)$	$(\bar{2}_{\bar{x}y}\|100)$
			$(\bar{1}\|000)$	$(\bar{4}_z\|000)$	$(m_z\|000)$	$(\bar{4}_z^{-1}\|000)$
			$(m_x\|100)$	$(m_y\|100)$	$(m_{xy}\|100)$	$(m_{\bar{x}y}\|100)$
61.12.433	$p_p4/m'mm$	p4/nmm (000;a-b,a+b,c)	$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(\bar{2}_x\|100)$	$(\bar{2}_y\|100)$	$(2_{xy}\|100)$	$(\bar{2}_{\bar{x}y}\|100)$
			$(\bar{1}\|100)$	$(\bar{4}_z\|100)$	$(m_z\|100)$	$(\bar{4}_z^{-1}\|100)$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|000)$	$(m_{\bar{x}y}\|000)$
61.13.434	p_p4/mmm	p4/mmm (000;a-b,a+b,c)	$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(\bar{2}_x\|000)$	$(\bar{2}_y\|000)$	$(2_{xy}\|000)$	$(\bar{2}_{\bar{x}y}\|000)$
			$(\bar{1}\|000)$	$(\bar{4}_z\|000)$	$(m_z\|000)$	$(\bar{4}_z^{-1}\|000)$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|000)$	$(m_{\bar{x}y}\|000)$

62.1.435	p4/nbm		$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(\bar{2}_x\|000)$	$(\bar{2}_y\|000)$	$(2_{xy}\|000)$	$(\bar{2}_{\bar{x}y}\|000)$
			$(1\|½½0)$	$(4_z\|½½0)$	$(m_z\|½½0)$	$(4_z^{-1}\|½½0)$
			$(m_x\|½½0)$	$(m_y\|½½0)$	$(m_{xy}\|½½0)$	$(m_{\bar{x}y}\|½½0)$
62.2.436	p4/nbm1'					
62.3.437	p4/n'b'm'	p422 (000;a,b,c)	$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(\bar{2}_x\|000)$	$(\bar{2}_y\|000)$	$(2_{xy}\|000)$	$(\bar{2}_{\bar{x}y}\|000)$
			$(1\|½½0)'$	$(4_z\|½½0)'$	$(m_z\|½½0)'$	$(4_z^{-1}\|½½0)'$
			$(m_x\|½½0)'$	$(m_y\|½½0)'$	$(m_{xy}\|½½0)'$	$(m_{\bar{x}y}\|½½0)'$
62.4.438	p4/nb'm'	p4/n (000;a,b,c)	$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(\bar{2}_x\|000)'$	$(\bar{2}_y\|000)'$	$(2_{xy}\|000)'$	$(\bar{2}_{\bar{x}y}\|000)'$
			$(1\|½½0)$	$(4_z\|½½0)$	$(m_z\|½½0)$	$(4_z^{-1}\|½½0)$
			$(m_x\|½½0)'$	$(m_y\|½½0)'$	$(m_{xy}\|½½0)'$	$(m_{\bar{x}y}\|½½0)'$
62.5.439	p4/n'bm	p4bm (000;a,b,c)	$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(\bar{2}_x\|000)'$	$(\bar{2}_y\|000)'$	$(2_{xy}\|000)'$	$(\bar{2}_{\bar{x}y}\|000)'$
			$(1\|½½0)'$	$(4_z\|½½0)'$	$(m_z\|½½0)'$	$(4_z^{-1}\|½½0)'$
			$(m_x\|½½0)$	$(m_y\|½½0)$	$(m_{xy}\|½½0)$	$(m_{\bar{x}y}\|½½0)$
62.6.440	p4'/n'b'm	p$\bar{4}$2m (½00;a,b,c)	$(1\|000)$	$(4_z\|000)'$	$(2_z\|000)$	$(4_z^{-1}\|000)'$
			$(\bar{2}_x\|000)$	$(\bar{2}_y\|000)$	$(2_{xy}\|000)'$	$(\bar{2}_{\bar{x}y}\|000)'$
			$(1\|½½0)'$	$(4_z\|½½0)$	$(m_z\|½½0)'$	$(4_z^{-1}\|½½0)$
			$(m_x\|½½0)'$	$(m_y\|½½0)'$	$(m_{xy}\|½½0)$	$(m_{\bar{x}y}\|½½0)$
62.7.441	p4'/n'bm'	p$\bar{4}$b2 (½00;a,b,c)	$(1\|000)$	$(4_z\|000)'$	$(2_z\|000)$	$(4_z^{-1}\|000)'$
			$(\bar{2}_x\|000)'$	$(\bar{2}_y\|000)'$	$(2_{xy}\|000)$	$(\bar{2}_{\bar{x}y}\|000)$
			$(1\|½½0)'$	$(4_z\|½½0)$	$(m_z\|½½0)'$	$(4_z^{-1}\|½½0)$
			$(m_x\|½½0)$	$(m_y\|½½0)$	$(m_{xy}\|½½0)'$	$(m_{\bar{x}y}\|½½0)'$
62.8.442	p4'/nbm'	pban (¼¼0;a,b,c)	$(1\|000)$	$(4_z\|000)'$	$(2_z\|000)$	$(4_z^{-1}\|000)'$
			$(\bar{2}_x\|000)$	$(\bar{2}_y\|000)$	$(2_{xy}\|000)'$	$(\bar{2}_{\bar{x}y}\|000)'$
			$(1\|½½0)$	$(4_z\|½½0)'$	$(m_z\|½½0)$	$(4_z^{-1}\|½½0)'$
			$(m_x\|½½0)$	$(m_y\|½½0)$	$(m_{xy}\|½½0)'$	$(m_{\bar{x}y}\|½½0)'$

62.9.443	p4'/nb'm	cmme (-¼¼0;a-b,a+b,c)	$(1\|000)$ $(\bar{2}_x\|000)'$ $(1\|½½0)$ $(m_x\|½½0)'$	$(4_z\|000)'$ $(\bar{2}_y\|000)'$ $(\bar{4}_z\|½½0)'$ $(m_y\|½½0)'$	$(2_z\|000)$ $(2_{xy}\|000)$ $(m_z\|½½0)$ $(m_{\bar{x}y}\|½½0)$	$(4_z^{-1}\|000)'$ $(\bar{2}_{\bar{x}y}\|000)$ $(\bar{4}_z^{-1}\|½½0)'$ $(m_{\bar{x}y}\|½½0)$
63.1.444	p4/mbm		$(1\|000)$ $(\bar{2}_x\|½½0)$ $(\bar{1}\|000)$ $(m_x\|½½0)$	$(4_z\|000)$ $(\bar{2}_y\|½½0)$ $(\bar{4}_z\|000)$ $(m_y\|½½0)$	$(2_z\|000)$ $(2_{xy}\|½½0)$ $(m_z\|000)$ $(m_{xy}\|½½0)$	$(4_z^{-1}\|000)$ $(\bar{2}_{\bar{x}y}\|½½0)$ $(\bar{4}_z^{-1}\|000)$ $(m_{\bar{x}y}\|½½0)$
63.2.445	p4/mbm1'					
63.3.446	p4/m'b'm'	$p42_12$ (000;a,b,c)	$(1\|000)$ $(\bar{2}_x\|½½0)$ $(\bar{1}\|000)'$ $(m_x\|½½0)'$	$(4_z\|000)$ $(\bar{2}_y\|½½0)$ $(\bar{4}_z\|000)'$ $(m_y\|½½0)'$	$(2_z\|000)$ $(2_{xy}\|½½0)$ $(m_z\|000)'$ $(m_{xy}\|½½0)'$	$(4_z^{-1}\|000)$ $(\bar{2}_{\bar{x}y}\|½½0)$ $(\bar{4}_z^{-1}\|000)'$ $(m_{\bar{x}y}\|½½0)'$
63.4.447	p4/mb'm'	p4/m (000;a,b,c)	$(1\|000)$ $(\bar{2}_x\|½½0)'$ $(\bar{1}\|000)$ $(m_x\|½½0)'$	$(4_z\|000)$ $(\bar{2}_y\|½½0)'$ $(\bar{4}_z\|000)$ $(m_y\|½½0)'$	$(2_z\|000)$ $(2_{xy}\|½½0)'$ $(m_z\|000)$ $(m_{xy}\|½½0)'$	$(4_z^{-1}\|000)$ $(\bar{2}_{\bar{x}y}\|½½0)'$ $(\bar{4}_z^{-1}\|000)$ $(m_{\bar{x}y}\|½½0)'$
63.5.448	p4/m'bm	p4bm (000;a,b,c)	$(1\|000)$ $(\bar{2}_x\|½½0)'$ $(\bar{1}\|000)'$ $(m_x\|½½0)$	$(4_z\|000)$ $(\bar{2}_y\|½½0)'$ $(\bar{4}_z\|000)'$ $(m_y\|½½0)$	$(2_z\|000)$ $(2_{xy}\|½½0)'$ $(m_z\|000)'$ $(m_{xy}\|½½0)$	$(4_z^{-1}\|000)$ $(\bar{2}_{\bar{x}y}\|½½0)'$ $(\bar{4}_z^{-1}\|000)'$ $(m_{\bar{x}y}\|½½0)$
63.6.449	p4'/m'b'm	$p\bar{4}2_1m$ (000;a,b,c)	$(1\|000)$ $(\bar{2}_x\|½½0)$ $(\bar{1}\|000)'$ $(m_x\|½½0)'$	$(4_z\|000)'$ $(\bar{2}_y\|½½0)$ $(\bar{4}_z\|000)$ $(m_y\|½½0)'$	$(2_z\|000)$ $(2_{xy}\|½½0)'$ $(m_z\|000)'$ $(m_{xy}\|½½0)$	$(4_z^{-1}\|000)'$ $(\bar{2}_{\bar{x}y}\|½½0)'$ $(\bar{4}_z^{-1}\|000)$ $(m_{\bar{x}y}\|½½0)$

63.7.450	p4'/m'bm'	p$\bar{4}$b2 (000;a,b,c)	(1|000)	(4_z|000)'	(2_z|000)	(4_z^{-1}|000)'
			($\bar{2}_x$|½½0)'	($\bar{2}_y$|½½0)'	(2_{xy}|½½0)	($\bar{2}_{\bar{x}y}$|½½0)
			(1|000)'	($\bar{4}_z$|000)	(m_z|000)'	($\bar{4}_z^{-1}$|000)
			(m_x|½½0)	(m_y|½½0)	(m_{xy}|½½0)'	($m_{\bar{x}y}$|½½0)'
63.8.451	p4'/mbm'	pbam (000;a,b,c)	(1|000)	(4_z|000)'	(2_z|000)	(4_z^{-1}|000)'
			($\bar{2}_x$|½½0)	($\bar{2}_y$|½½0)	(2_{xy}|½½0)'	($\bar{2}_{\bar{x}y}$|½½0)'
			(1|000)	($\bar{4}_z$|000)'	(m_z|000)	($\bar{4}_z^{-1}$|000)'
			(m_x|½½0)	(m_y|½½0)	(m_{xy}|½½0)'	($m_{\bar{x}y}$|½½0)'
63.9.452	p4'/mb'm	cmmm (½00;a-b,a+b,c)	(1|000)	(4_z|000)'	(2_z|000)	(4_z^{-1}|000)'
			($\bar{2}_x$|½½0)'	($\bar{2}_y$|½½0)'	(2_{xy}|½½0)	($\bar{2}_{\bar{x}y}$|½½0)
			(1|000)	($\bar{4}_z$|000)'	(m_z|000)	($\bar{4}_z^{-1}$|000)'
			(m_x|½½0)'	(m_y|½½0)'	(m_{xy}|½½0)	($m_{\bar{x}y}$|½½0)
64.1.453	p4/nmm		(1|000)	(4_z|000)	(2_z|000)	(4_z^{-1}|000)
			($\bar{2}_x$|½½0)	($\bar{2}_y$|½½0)	(2_{xy}|½½0)	($\bar{2}_{\bar{x}y}$|½½0)
			(1|½½0)	($\bar{4}_z$|½½0)	(m_z|½½0)	($\bar{4}_z^{-1}$|½½0)
			(m_x|000)	(m_y|000)	(m_{xy}|000)	($m_{\bar{x}y}$|000)
64.2.454	p4/nmm1'					
64.3.455	p4/n'm'm'	p$4_2$2 (000;a,b,c)	(1|000)	(4_z|000)	(2_z|000)	(4_z^{-1}|000)
			($\bar{2}_x$|½½0)	($\bar{2}_y$|½½0)	(2_{xy}|½½0)	($\bar{2}_{\bar{x}y}$|½½0)
			(1|½½0)'	($\bar{4}_z$|½½0)'	(m_z|½½0)'	($\bar{4}_z^{-1}$|½½0)'
			(m_x|000)'	(m_y|000)'	(m_{xy}|000)'	($m_{\bar{x}y}$|000)'
64.4.456	p4/nm'm'	p4/n (000;a,b,c)	(1|000)	(4_z|000)	(2_z|000)	(4_z^{-1}|000)
			($\bar{2}_x$|½½0)'	($\bar{2}_y$|½½0)'	(2_{xy}|½½0)'	($\bar{2}_{\bar{x}y}$|½½0)
			(1|½½0)	($\bar{4}_z$|½½0)	(m_z|½½0)	($\bar{4}_z^{-1}$|½½0)
			(m_x|000)'	(m_y|000)'	(m_{xy}|000)'	($m_{\bar{x}y}$|000)

64.5.457	p4/n'mm	p4mm (000;a,b,c)	$(1\|000)$	$(4_z\|000)$	$(2_z\|000)$	$(4_z^{-1}\|000)$
			$(\underline{2}_x\|½½0)'$	$(\underline{2}_y\|½½0)'$	$(2_{xy}\|½½0)'$	$(\underline{2}_{\bar{x}y}\|½½0)'$
			$(\underline{1}\|½½0)'$	$(\underline{4}_z\|½½0)'$	$(m_z\|½½0)'$	$(\underline{4}_z^{-1}\|½½0)'$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|000)$	$(m_{\bar{x}y}\|000)$
64.6.458	p4'/n'm'm	$p\bar{4}2_1m$ (½00;a,b,c)	$(1\|000)$	$(4_z\|000)'$	$(2_z\|000)$	$(4_z^{-1}\|000)'$
			$(2_x\|½½0)$	$(2_y\|½½0)$	$(2_{xy}\|½½0)'$	$(2_{\bar{x}y}\|½½0)'$
			$(\underline{1}\|½½0)'$	$(\underline{4}_z\|½½0)$	$(m_z\|½½0)'$	$(\underline{4}_z^{-1}\|½½0)$
			$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|000)$	$(m_{\bar{x}y}\|000)$
64.7.459	p4'/n'mm'	$p\bar{4}m2$ (½00;a,b,c)	$(1\|000)$	$(4_z\|000)'$	$(2_z\|000)$	$(4_z^{-1}\|000)'$
			$(\underline{2}_x\|½½0)'$	$(\underline{2}_y\|½½0)'$	$(2_{xy}\|½½0)$	$(\underline{2}_{\bar{x}y}\|½½0)$
			$(\underline{1}\|½½0)'$	$(\underline{4}_z\|½½0)$	$(m_z\|½½0)'$	$(\underline{4}_z^{-1}\|½½0)$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|000)'$	$(m_{\bar{x}y}\|000)'$
64.8.460	p4'/nmm'	pmmn (¼¼0;a,b,c)	$(1\|000)$	$(4_z\|000)'$	$(2_z\|000)$	$(4_z^{-1}\|000)'$
			$(\underline{2}_x\|½½0)$	$(\underline{2}_y\|½½0)$	$(2_{xy}\|½½0)'$	$(\underline{2}_{\bar{x}y}\|½½0)'$
			$(\underline{1}\|½½0)$	$(\underline{4}_z\|½½0)'$	$(m_z\|½½0)$	$(\underline{4}_z^{-1}\|½½0)'$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|000)'$	$(m_{\bar{x}y}\|000)'$
64.9.461	p4'/nm'm	cmme (¼¼0;a-b,a+b,c)	$(1\|000)$	$(4_z\|000)'$	$(2_z\|000)$	$(4_z^{-1}\|000)'$
			$(\underline{2}_x\|½½0)'$	$(\underline{2}_y\|½½0)'$	$(2_{xy}\|½½0)$	$(\underline{2}_{\bar{x}y}\|½½0)$
			$(\underline{1}\|½½0)$	$(\underline{4}_z\|½½0)'$	$(m_z\|½½0)$	$(\underline{4}_z^{-1}\|½½0)'$
			$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|000)$	$(m_{\bar{x}y}\|000)$
65.1.462	p3		$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$	
65.2.463	p31'					
66.1.464	$p\bar{3}$		$(\underline{1}\|000)$	$(\underline{3}_z\|000)$	$(\underline{3}_z^{-1}\|000)$	
			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$	
66.2.465	$p\bar{3}1'$					
66.3.466	$p\bar{3}'$	p3 (000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$	
			$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$	

67.1.467	p312			(1|000)	(3_z|000)	(3_z^{-1}|000)
				(2_1|000)	(2_2|000)	(2_3|000)
67.2.468	p3121'					
67.3.469	p312'	p3	(000;a,b,c)	(1|000)	(3_z|000)	(3_z^{-1}|000)
				(2_1|000)'	(2_2|000)'	(2_3|000)'
68.1.470	p321			(1|000)	(3_z|000)	(3_z^{-1}|000)
				(2_x|000)	(2_y|000)	(2_{xy}|000)
68.2.471	p3211'					
68.3.472	p32'1	p3	(000;a,b,c)	(1|000)	(3_z|000)	(3_z^{-1}|000)
				(2_x|000)'	(2_y|000)'	(2_{xy}|000)'
69.1.473	p3m1			(1|000)	(3_z|000)	(3_z^{-1}|000)
				(m_x|000)	(m_y|000)	(m_{xy}|000)
69.2.474	p3m11'					
69.3.475	p3m'1	p3	(000;a,b,c)	(1|000)	(3_z|000)	(3_z^{-1}|000)
				(m_x|000)'	(m_y|000)'	(m_{xy}|000)'

70.1.476	p31m			$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(m_1\|000)$	$(m_2\|000)$	$(m_3\|000)$
70.2.477	p31m1'					
70.3.478	p31m'	p3	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(m_1\|000)'$	$(m_2\|000)'$	$(m_3\|000)'$
71.1.479	p$\bar{3}$1m			$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(2_1\|000)$	$(2_2\|000)$	$(2_3\|000)$
				$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
				$(m_1\|000)$	$(m_2\|000)$	$(m_3\|000)$
71.2.480	p$\bar{3}$1m1'					
71.3.481	p$\bar{3}$'1m'	p312	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(2_1\|000)$	$(2_2\|000)$	$(2_3\|000)$
				$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$
				$(m_1\|000)'$	$(m_2\|000)'$	$(m_3\|000)'$
71.4.482	p$\bar{3}$1m'	p$\bar{3}$	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(2_1\|000)'$	$(2_2\|000)'$	$(2_3\|000)'$
				$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
				$(m_1\|000)'$	$(m_2\|000)'$	$(m_3\|000)'$
71.5.483	p$\bar{3}$'1m	p31m	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(2_1\|000)'$	$(2_2\|000)'$	$(2_3\|000)'$
				$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$
				$(m_1\|000)$	$(m_2\|000)$	$(m_3\|000)$

72.1.484	p$\bar{3}$m1				
			$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|000)$
			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|000)$
72.2.485	p$\bar{3}$m11'				
72.3.486	p$\bar{3}$'m'1	p321	(000;a,b,c)		
			$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|000)$
			$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$
			$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|000)'$
72.4.487	p$\bar{3}$m'1	p$\bar{3}$	(000;a,b,c)		
			$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|000)'$
			$(\bar{1}\|000)$	$(\bar{3}_z\|000)$	$(\bar{3}_z^{-1}\|000)$
			$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|000)'$
72.5.488	p$\bar{3}$'m1	p3m1	(000;a,b,c)		
			$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|000)'$
			$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$
			$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|000)$
73.1.489	p6				
			$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(6_z\|000)$	$(2_z\|000)$	$(6_z^{-1}\|000)$
73.2.490	p61'				
73.3.491	p6'	p3	(000;a,b,c)		
			$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
			$(6_z\|000)'$	$(2_z\|000)'$	$(6_z^{-1}\|000)'$

74.1.492	$p\bar{6}$			$(\underline{1}\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(\bar{6}_z\|000)$	$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$
74.2.493	$p\bar{6}1'$					
74.3.494	$p\bar{6}'$	p3	(000;a,b,c)	$(\underline{1}\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(\bar{6}_z\|000)'$	$(m_z\|000)'$	$(\bar{6}_z^{-1}\|000)'$
75.1.495	p6/m			$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(6_z\|000)$	$(2_z\|000)$	$(6_z^{-1}\|000)$
				$(\underline{1}\|000)$	$(\underline{3}_z\|000)$	$(\underline{3}_z^{-1}\|000)$
				$(\bar{6}_z\|000)$	$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$
75.2.496	p6/m1'					
75.3.497	p6/m'	p6	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(6_z\|000)$	$(2_z\|000)$	$(6_z^{-1}\|000)$
				$(\underline{1}\|000)'$	$(\underline{3}_z\|000)'$	$(\underline{3}_z^{-1}\|000)'$
				$(\bar{6}_z\|000)'$	$(m_z\|000)'$	$(\bar{6}_z^{-1}\|000)'$
75.4.498	p6'/m'	$p\bar{3}$	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(6_z\|000)'$	$(2_z\|000)'$	$(6_z^{-1}\|000)'$
				$(\underline{1}\|000)$	$(\underline{3}_z\|000)$	$(\underline{3}_z^{-1}\|000)$
				$(\bar{6}_z\|000)'$	$(m_z\|000)'$	$(\bar{6}_z^{-1}\|000)'$
75.5.499	p6'/m	$p\bar{6}$	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(\underline{6}_z\|000)'$	$(\underline{2}_z\|000)'$	$(\underline{6}_z^{-1}\|000)'$
				$(\underline{1}\|000)'$	$(\underline{3}_z\|000)'$	$(\underline{3}_z^{-1}\|000)'$
				$(\bar{6}_z\|000)$	$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$

76.1.500	p622			$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(6_z\|000)$	$(2_z\|000)$	$(6_z^{-1}\|000)$
				$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|000)$
				$(2_1\|000)$	$(2_2\|000)$	$(2_3\|000)$
76.2.501	p6221'					
76.3.502	p62'2'	p6	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(6_z\|000)$	$(2_z\|000)$	$(6_z^{-1}\|000)$
				$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|000)'$
				$(2_1\|000)'$	$(2_2\|000)'$	$(2_3\|000)'$
76.4.503	p6'22'	p321	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(6_z\|000)'$	$(2_z\|000)'$	$(6_z^{-1}\|000)'$
				$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|000)$
				$(2_1\|000)'$	$(2_2\|000)'$	$(2_3\|000)'$
76.5.504	p6'2'2	p312	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(6_z\|000)'$	$(2_z\|000)'$	$(6_z^{-1}\|000)'$
				$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|000)'$
				$(2_1\|000)$	$(2_2\|000)$	$(2_3\|000)$

77.1.505	p6mm			$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(6_z\|000)$	$(2_z\|000)$	$(6_z^{-1}\|000)$
				$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|000)$
				$(m_1\|000)$	$(m_2\|000)$	$(m_3\|000)$
77.2.506	p6mm1'					
77.3.507	p6m'm'	p6	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(6_z\|000)$	$(2_z\|000)$	$(6_z^{-1}\|000)$
				$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|000)'$
				$(m_1\|000)'$	$(m_2\|000)'$	$(m_3\|000)'$
77.4.508	p6'mm'	p3m1	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(6_z\|000)'$	$(2_z\|000)'$	$(6_z^{-1}\|000)'$
				$(m_x\|000)$	$(m_y\|000)$	$(m_{xy}\|000)$
				$(m_1\|000)'$	$(m_2\|000)'$	$(m_3\|000)'$
77.5.509	p6'm'm	p31m	(000;a,b,c)	$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
				$(6_z\|000)'$	$(2_z\|000)'$	$(6_z^{-1}\|000)'$
				$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|000)'$
				$(m_1\|000)$	$(m_2\|000)$	$(m_3\|000)$

78.1.510	p$\bar{6}$m2			($\underline{1}$|000)	(3_z|000)	($\underline{3}_z^{-1}$|000)
				($\bar{6}_z$|000)	(m_z|000)	($\bar{6}_z^{-1}$|000)
				(m_x|000)	(m_y|000)	(m_{xy}|000)
				(2_1|000)	(2_2|000)	(2_3|000)
78.2.511	p$\bar{6}$m21'					
78.3.512	p$\bar{6}$m'2'	p$\bar{6}$	(000;a,b,c)	($\underline{1}$|000)	(3_z|000)	($\underline{3}_z^{-1}$|000)
				($\bar{6}_z$|000)	(m_z|000)	($\bar{6}_z^{-1}$|000)
				(m_x|000)'	(m_y|000)'	(m_{xy}|000)'
				(2_1|000)'	(2_2|000)'	(2_3|000)'
78.4.513	p$\bar{6}$'m2'	p3m1	(000;a,b,c)	($\underline{1}$|000)	(3_z|000)	($\underline{3}_z^{-1}$|000)
				($\bar{6}_z$|000)'	(m_z|000)'	($\bar{6}_z^{-1}$|000)'
				(m_x|000)	(m_y|000)	(m_{xy}|000)
				(2_1|000)'	(2_2|000)'	(2_3|000)'
78.5.514	p$\bar{6}$'m'2	p312	(000;a,b,c)	($\underline{1}$|000)	(3_z|000)	($\underline{3}_z^{-1}$|000)
				($\bar{6}_z$|000)'	(m_z|000)'	($\bar{6}_z^{-1}$|000)'
				(m_x|000)'	(m_y|000)'	(m_{xy}|000)'
				(2_1|000)	(2_2|000)	(2_3|000)

79.1.515	$p\bar{6}2m$			$(\underline{1}\|000)$	$(3_z\|000)$	$(\underline{3}_z^{-1}\|000)$
				$(\bar{6}_z\|000)$	$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$
				$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|000)$
				$(m_1\|000)$	$(m_2\|000)$	$(m_3\|000)$
79.2.516	$p\bar{6}2m1'$					
79.3.517	$p\bar{6}2'm'$	$p\bar{6}$	(000;a,b,c)	$(\underline{1}\|000)$	$(3_z\|000)$	$(\underline{3}_z^{-1}\|000)$
				$(\bar{6}_z\|000)$	$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$
				$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|000)'$
				$(m_1\|000)'$	$(m_2\|000)'$	$(m_3\|000)'$
79.4.518	$p\bar{6}'2m'$	p321	(000;a,b,c)	$(\underline{1}\|000)$	$(3_z\|000)$	$(\underline{3}_z^{-1}\|000)$
				$(\bar{6}_z\|000)'$	$(m_z\|000)'$	$(\bar{6}_z^{-1}\|000)'$
				$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|000)$
				$(m_1\|000)'$	$(m_2\|000)'$	$(m_3\|000)'$
79.5.519	$p\bar{6}'2'm$	p31m	(000;a,b,c)	$(\underline{1}\|000)$	$(3_z\|000)$	$(\underline{3}_z^{-1}\|000)$
				$(\bar{6}_z\|000)'$	$(m_z\|000)'$	$(\bar{6}_z^{-1}\|000)'$
				$(2_x\|000)'$	$(2_y\|000)'$	$(2_{xy}\|000)'$
				$(m_1\|000)$	$(m_2\|000)$	$(m_3\|000)$

80.1.520 p6/mmm

$(1|000)$ $(3_z|000)$ $(3_z^{-1}|000)$
$(6_z|000)$ $(2_z|000)$ $(6_z^{-1}|000)$
$(2_x|000)$ $(2_y|000)$ $(2_{xy}|000)$
$(2_1|000)$ $(2_2|000)$ $(2_3|000)$
$(\bar{1}|000)$ $(\bar{3}_z|000)$ $(\bar{3}_z^{-1}|000)$
$(\bar{6}_z|000)$ $(m_z|000)$ $(\bar{6}_z^{-1}|000)$
$(m_x|000)$ $(m_y|000)$ $(m_{xy}|000)$
$(m_1|000)$ $(m_2|000)$ $(m_3|000)$

80.2.521 p6/mmm1'

80.3.522 p6/m'm'm' p622 (000;a,b,c)

$(1|000)$ $(3_z|000)$ $(3_z^{-1}|000)$
$(6_z|000)$ $(2_z|000)$ $(6_z^{-1}|000)$
$(2_x|000)$ $(2_y|000)$ $(2_{xy}|000)$
$(2_1|000)$ $(2_2|000)$ $(2_3|000)$
$(\bar{1}|000)'$ $(\bar{3}_z|000)'$ $(\bar{3}_z^{-1}|000)'$
$(\bar{6}_z|000)'$ $(m_z|000)'$ $(\bar{6}_z^{-1}|000)'$
$(m_x|000)'$ $(m_y|000)'$ $(m_{xy}|000)'$
$(m_1|000)'$ $(m_2|000)'$ $(m_3|000)'$

80.4.523 p6/mm'm' p6/m (000;a,b,c)

$(1|000)$ $(3_z|000)$ $(3_z^{-1}|000)$
$(6_z|000)$ $(2_z|000)$ $(6_z^{-1}|000)$
$(2_x|000)'$ $(2_y|000)'$ $(2_{xy}|000)'$
$(2_1|000)'$ $(2_2|000)'$ $(2_3|000)'$
$(\bar{1}|000)$ $(\bar{3}_z|000)$ $(\bar{3}_z^{-1}|000)$
$(\bar{6}_z|000)$ $(m_z|000)$ $(\bar{6}_z^{-1}|000)$
$(m_x|000)'$ $(m_y|000)'$ $(m_{xy}|000)'$
$(m_1|000)'$ $(m_2|000)'$ $(m_3|000)'$

80.5.524	p6/m'mm	p6mm (000;a,b,c)	$(1\|000)$ $(6_z\|000)$ $(2_x\|000)'$ $(2_1\|000)'$ $(\bar{1}\|000)'$ $(\bar{6}_z\|000)'$ $(m_x\|000)$ $(m_1\|000)$	$(3_z\|000)$ $(2_z\|000)$ $(2_y\|000)'$ $(2_2\|000)'$ $(\bar{3}_z\|000)'$ $(m_z\|000)'$ $(m_y\|000)$ $(m_2\|000)$	$(3_z^{-1}\|000)$ $(6_z^{-1}\|000)$ $(2_{xy}\|000)'$ $(2_3\|000)'$ $(\bar{3}_z^{-1}\|000)'$ $(\bar{6}_z^{-1}\|000)'$ $(m_{xy}\|000)$ $(m_3\|000)$
80.6.525	p6'/m'mm'	p$\bar{3}$m1 (000;a,b,c)	$(1\|000)$ $(6_z\|000)'$ $(2_x\|000)$ $(2_1\|000)'$ $(\bar{1}\|000)$ $(\bar{6}_z\|000)'$ $(m_x\|000)$ $(m_1\|000)'$	$(3_z\|000)$ $(2_z\|000)'$ $(2_y\|000)$ $(2_2\|000)'$ $(\bar{3}_z\|000)$ $(m_z\|000)'$ $(m_y\|000)$ $(m_2\|000)'$	$(3_z^{-1}\|000)$ $(6_z^{-1}\|000)'$ $(2_{xy}\|000)$ $(2_3\|000)'$ $(\bar{3}_z^{-1}\|000)$ $(\bar{6}_z^{-1}\|000)'$ $(m_{xy}\|000)$ $(m_3\|000)'$
80.7.526	p6'/m'm'm	p$\bar{3}$1m (000;a,b,c)	$(1\|000)$ $(6_z\|000)'$ $(2_x\|000)'$ $(2_1\|000)$ $(\bar{1}\|000)$ $(\bar{6}_z\|000)'$ $(m_x\|000)'$ $(m_1\|000)$	$(3_z\|000)$ $(2_z\|000)'$ $(2_y\|000)'$ $(2_2\|000)$ $(\bar{3}_z\|000)$ $(m_z\|000)'$ $(m_y\|000)'$ $(m_2\|000)$	$(3_z^{-1}\|000)$ $(6_z^{-1}\|000)'$ $(2_{xy}\|000)'$ $(2_3\|000)$ $(\bar{3}_z^{-1}\|000)$ $(\bar{6}_z^{-1}\|000)'$ $(m_{xy}\|000)'$ $(m_3\|000)$
80.8.527	p6'/mmm'	p$\bar{6}$m2 (000;a,b,c)	$(1\|000)$ $(6_z\|000)'$ $(2_x\|000)'$ $(2_1\|000)$ $(\bar{1}\|000)'$ $(\bar{6}_z\|000)$ $(m_x\|000)$ $(m_1\|000)'$	$(3_z\|000)$ $(2_z\|000)'$ $(2_y\|000)'$ $(2_2\|000)$ $(\bar{3}_z\|000)'$ $(m_z\|000)$ $(m_y\|000)$ $(m_2\|000)'$	$(3_z^{-1}\|000)$ $(6_z^{-1}\|000)'$ $(2_{xy}\|000)'$ $(2_3\|000)$ $(\bar{3}_z^{-1}\|000)'$ $(\bar{6}_z^{-1}\|000)$ $(m_{xy}\|000)$ $(m_3\|000)'$

80.9.528 p6'mm'm p$\bar{6}$2m (000;a,b,c)

$(1\|000)$	$(3_z\|000)$	$(3_z^{-1}\|000)$
$(6_z\|000)'$	$(2_z\|000)'$	$(6_z^{-1}\|000)'$
$(2_x\|000)$	$(2_y\|000)$	$(2_{xy}\|000)$
$(\bar{2}_1\|000)'$	$(\bar{2}_2\|000)'$	$(\bar{2}_3\|000)'$
$(\bar{1}\|000)'$	$(\bar{3}_z\|000)'$	$(\bar{3}_z^{-1}\|000)'$
$(\bar{6}_z\|000)$	$(m_z\|000)$	$(\bar{6}_z^{-1}\|000)$
$(m_x\|000)'$	$(m_y\|000)'$	$(m_{xy}\|000)'$
$(m_1\|000)$	$(m_2\|000)$	$(m_3\|000)$