Supplemental Material for "Spin Space Symmetry Without Spin Space Groups"

Jeffrey G. Rau[1]

[1]*Department of Physics, University of Windsor, 401 Sunset Avenue, Windsor, Ontario, N9B 3P4, Canada*

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This Supplemental Material applies the analysis of the main text to the commensurate magnetic structures in the MAGNDATA database of the Bilbao Crystallographic Server [1, 2]. For each of the 2318 structures, the table in Section S7 lists the parent space group of the spin space group, the defining representation Γ and its wave-vector content, the responses allowed in the non-relativistic limit, and the leading even and odd parts of the momentum-space spin texture. The table was generated with the code published with this paper [3], which performs the analysis for any commensurate magnetic structure supplied in the magCIF format. The notation is that of the main text. The allowed responses and the spin texture follow from the characters of Γ and of its exterior powers alone: neither the labels of the components of Γ nor its decomposition into irreducible representations is needed to find them (Section S2).

Each structure is analyzed as it is reported. The entries therefore describe the non-relativistic limit of the refined structure, and not of an idealized form of it. A weak canting of relativistic origin or an unequal moment amplitude, for example, enters Γ and can change its dimension, the parent space group and the allowed responses. For this reason the entries for compounds that the main text treats in an idealized form can differ from the results given there, as Section S4 describes.

Section S1 describes the columns of the table, Section S2 the method, Section S3 the tolerances and the entries treated specially, Section S4 the examples of the main text that are idealized, and Section S5 the contents of the table in summary.

S1. COLUMNS OF THE TABLE

ID: The label of the entry in MAGNDATA, linked to its page in the database.

Compound: The chemical formula under which MAGNDATA lists the entry, corrected in the 17 entries where it is in error. The corrections, each with its reason, are distributed with the code [3].

PM SG: The paramagnetic space group G_0, the space group of the crystal structure with the moments removed.

MSG (BNS): The magnetic space group in the Belov–Neronova–Smirnova notation [4], as it is labeled in the MAGNDATA file, written uniformly. It is quoted and not recomputed.

Order: Collinear, coplanar or non-coplanar, according to whether the moments span one, two or three dimensions.

Parent SG: The parent space group G of the spin space group, formed by the spatial parts of its operations.

Γ: The defining representation, as a direct sum of real irreducible representations of G.

$\boldsymbol{k}$: The wave vectors of the components of Γ, in the conventional reciprocal basis of the standard setting of G. A wave vector is given as $\mathbf{0}$, by its Brillouin-zone label where it has one, or by its coordinates.

Allowed responses: The responses of Table I of the main text that are allowed in the non-relativistic limit. The cell is empty where none is allowed.

$s(\boldsymbol{q})$: The lowest even and the lowest odd multipole rank of the momentum-space spin texture, in the form even/odd, with a dash where the texture has no part of that parity.

The space groups G_0 and G are given by their short Hermann–Mauguin symbols in the standard setting. The magnetic space group is given as in the file.

A. Labels of the representation

A component of Γ at $\boldsymbol{k} = \mathbf{0}$ carries a Mulliken label of the point group P of G, and a component at a nonzero wave vector its Miller–Love label [5], taken from the ISO-IR tables of physically irreducible representations [6, 7]. The wave vectors present in Γ are found from its characters on the translations of G. At one wave vector of each star, the number of times each irreducible representation of the little group occurs in Γ is found from the characters, and the tables combine these into the real components and give their labels. A multiplicity is written before the label. Irreducible here means irreducible over the real numbers, so a complex-conjugate pair of representations counts as a single component. The labels are given for reference: the allowed responses and the spin texture do not use them.

Neither kind of label is fixed by the representation alone. A Mulliken label depends on the axes it refers to. In D_{2h}, for example, which two-fold axis is called z decides between B_{1g}, B_{2g} and B_{3g}, and in D_{4h} whether the two-fold axes perpendicular to the main axis run along the cell edges or along their diagonals decides between B_{1g} and B_{2g}. A Miller–Love label depends on the origin as well. All the labels of an entry refer to the standard setting of G that `spglib` finds: that of the International Tables, with origin choice 2, hexagonal axes for the rhombohedral groups and unique axis b for the monoclinic groups, and always right-handed. It is found for a crystal built to have exactly the symmetry of G, two generic points and all their images, in the cell of the file, so its axes and origin can differ from those of the file. Where G has several equivalent standard settings, which of them `spglib` returns depends on what it is given, and another implementation may

arrive at another and give other, equivalent labels. In the axes of the setting chosen, the Mulliken labels follow the conventions of the Point Group Tables of the Bilbao Crystallographic Server [2]. The main axis is z (b for a monoclinic group).

B. Responses

The seven responses and their conditions are those of Table I of the main text, and each cell of the table lists them in the order given there. Since $\Lambda^2\Gamma = 0$ for collinear order and $\Lambda^3\Gamma = 0$ unless the order is non-coplanar, Σ^+ and α^+ never appear for a collinear entry, and σ^- appears only for non-coplanar entries. The piezomagnetic condition is the one for compensated order. Where a net magnetization is allowed, a uniform dilation can also change it, whether or not $\boldsymbol{C}_{\mu\nu}$ is listed.

C. Spin texture

The even entry is the lowest even ℓ for which $\Gamma \cap \Gamma_\ell^+ \neq 0$, and the odd entry is the lowest odd ℓ for which $\Lambda^2\Gamma \cap \Gamma_\ell^- \neq 0$, in both cases for the $\boldsymbol{k} = \boldsymbol{0}$ parts. Ranks up to $\ell = 12$ are searched. The ranks $\ell = 0, 1, \ldots, 7$ are written s, p, d, f, g, h, i and k. Those that occur in the table are s, d and g for the even part and p, f, h and k for the odd part. An even entry s is equivalent to an allowed net magnetization. A dash in the even place means that Γ overlaps no even-rank multipole, most often because it has no component at $\boldsymbol{k} = \boldsymbol{0}$. A dash in the odd place means the same of $\Lambda^2\Gamma$, as is always the case for collinear order.

S2. METHOD

The input is the magCIF file of each MAGNDATA entry, as retrieved in October 2026. Of the 2487 entries in our copy of the database, 169 are incommensurate structures described in superspace [8] and are not treated here. The remaining 2318 are all analyzed. Fifty of the files are corrected before they are read (Section S3). For each we proceed as follows:

1. *Reading.* The full magnetic unit cell is generated by applying each magnetic symmetry operation listed in the file, combined with each centering translation, to each atom. A position $\boldsymbol{r}$ goes to $\boldsymbol{R}\boldsymbol{r}+\boldsymbol{t}$ and a moment $\boldsymbol{m}$ to $\pm\det(\boldsymbol{R})\boldsymbol{R}\boldsymbol{m}$, with the minus sign for an operation that includes time reversal. The file is parsed with `pymatgen` [9]. Occupancies above one are taken as one. Images that coincide to within 0.01 Å are counted once, and atoms of different elements at the same place share a site, whose moment is the sum of their moments weighted by occupancy.
2. *Paramagnetic space group.* G_0 is found with `spglib` [10] from the atomic positions alone.
3. *Magnetic primitive cell.* The structure is reduced to the primitive cell of its magnetic lattice, the lattice of translations that leave every moment unchanged. In this cell every operation of G has an integer rotation matrix.
4. *Spin-space operations.* For each symmetry operation $g = \{\boldsymbol{R}|\boldsymbol{t}\}$ of the atoms in this cell, found with `spglib`, let $\boldsymbol{m}_i$ be the moment of site i and $\boldsymbol{m}_{g(i)}$ that of the site to which g carries it. The orthogonal matrix $\boldsymbol{U}$ that best carries each moment onto the moment at its image minimizes
$$\sum_i |\boldsymbol{U}\boldsymbol{m}_i - \boldsymbol{m}_{g(i)}|^2, \tag{S1}$$
which is the orthogonal Procrustes problem [11]. Its solution follows from the singular value decomposition
$$\sum_i \boldsymbol{m}_{g(i)}\boldsymbol{m}_i{}^{\mathsf{T}} = \boldsymbol{W}\boldsymbol{D}\boldsymbol{V}^{\mathsf{T}}, \tag{S2}$$
with $\boldsymbol{D}$ diagonal and $\boldsymbol{W}$ and $\boldsymbol{V}$ orthogonal, as $\boldsymbol{U} = \boldsymbol{W}\boldsymbol{V}^{\mathsf{T}}$. The operation $[\boldsymbol{U}\|g]$ is kept if every moment then agrees to within the tolerance. When the moments map onto one another exactly, this is the construction given in the appendix of the main text on extracting the defining representation. The spatial parts g of the operations kept form the parent space group G, whose type is identified with `spglib`.
5. *Defining representation.* With $\boldsymbol{Q}$ the matrix whose columns are an orthonormal basis of the space spanned by the moments, the defining representation is
$$\boldsymbol{\Gamma}(g) = \boldsymbol{Q}^{\mathsf{T}}\boldsymbol{U}\boldsymbol{Q}. \tag{S3}$$
The space spanned by the moments has one, two or three dimensions for collinear, coplanar and non-coplanar order, counting only the directions along which the root-mean-square moment per magnetic site exceeds the tolerance.
6. *Conditions.* Each condition of Table I of the main text, for a response or for the spin texture, is an overlap between two representations of G. It is evaluated as the average, over the operations kept, of the product of their characters. Those of Γ and its exterior powers are
$$\chi_\Gamma(g) = \operatorname{tr}\boldsymbol{\Gamma}(g), \tag{S4a}$$
$$\chi_{\Lambda^2\Gamma}(g) = \tfrac{1}{2}\big[(\operatorname{tr}\boldsymbol{\Gamma}(g))^2 - \operatorname{tr}\boldsymbol{\Gamma}(g^2)\big], \tag{S4b}$$
$$\chi_{\Lambda^3\Gamma}(g) = \det\boldsymbol{\Gamma}(g), \tag{S4c}$$
the last for non-coplanar order. For collinear order $\Lambda^2\Gamma$ and $\Lambda^3\Gamma$ vanish, and for coplanar order $\Lambda^3\Gamma$ does. The character of $\Gamma_\ell^\pm$ on a rotation by an angle φ, or on that rotation combined with inversion, is
$$\chi_{\Gamma_\ell^\pm}(\varphi) = \eta\sum_{m=-\ell}^{\ell}\cos m\varphi, \tag{S5}$$
where $\eta = 1$ for a rotation and $\eta = \pm 1$ for $\Gamma_\ell^\pm$ when the operation includes inversion. Since the multipoles are invariant under translations, only the $\boldsymbol{k} = \boldsymbol{0}$ part of each power contributes, without its being separated out. The characters of Γ come from its matrices and those of the multipoles from the rotation angle of each operation, so no character table of G, no decomposition of Γ and none of the labels of its components are needed for the responses or the spin texture.

7. *Labels.* The components of Γ and their wave vectors are labeled as described in Section S1.

S3. TOLERANCES AND EXCEPTIONS

Positions are compared to within 0.01 Å and moments to within 0.01 μ_B. For 17 entries the paramagnetic or parent space group, the type of order or the allowed responses change when these tolerances are halved. In 11 of them the higher symmetry is broken only by rounding in the file, and the default tolerances are kept. The other six are analyzed at a tighter tolerance, because the file resolves the deviation or because its moments come from a calculation. These are entries 0.226, 0.989, 1.791, 1.800 and 3.28, at tolerances of 0.005 in the same units, and entry 0.1067, at 0.002.

Fifty files are corrected before they are read. The corrections, each with its reason and the checksum of the file it applies to, are distributed with the code [3]. Seven repair errors that prevent the file from being read. The others correct the element or occupancy of a site, a cell parameter, an atomic position or a moment, where these are mistyped or disagree with the reference from which the structure is taken, or the label of the magnetic space group. Without the corrections, the seven files cannot be read by `pymatgen`, and the entries for 22 others differ from the table in the paramagnetic space group, five of them in the parent space group as well, but never in the type of order, the allowed responses or the spin texture.

The magnetic space group in the table is the label given in the file. In 10 entries that label, or the operations listed in the file, differ from what the structure in the file gives. In 26 entries some sites carry no moment although they belong to an orbit of G_0 that carries moments elsewhere.

	Collinear	Coplanar	Non-coplanar	All
Structures	1390	601	327	2318
$\boldsymbol{k} = \boldsymbol{0}$ in G_0	691	286	207	1184
Γ entirely at $\boldsymbol{k} = \boldsymbol{0}$ in G	733	313	226	1272
Γ irreducible	1390	153	52	1595
Spin texture (compensated)				
Even part only	230	64	45	339
d-wave	174	64	45	283
g-wave	56	0	0	56
Odd part only	0	101	34	135
p-wave	0	55	33	88
f-wave	0	44	1	45
h-wave	0	2	0	2
Even and odd parts	0	36	33	69
No allowed texture	900	230	79	1209
Allowed responses				
$\boldsymbol{M}$	260	170	136	566
$\boldsymbol{C}_{\mu\nu}$	400	264	210	874
Σ^-	465	264	213	942
Σ^+	0	465	315	780
σ^-	0	0	135	135
α^-	191	123	78	392
α^+	0	94	96	190
None	770	66	10	846

TABLE S1. The entries of the table by type of order. Here $\boldsymbol{k}$ in G_0 is the propagation vector of the order in the paramagnetic space group. The spin-texture rows divide the compensated entries, those in which no net magnetization is allowed, by which parts of the texture are allowed. Indented rows give the wave character of the part allowed, named by its lowest rank: d- and g-wave for $\ell = 2$ and 4, p-, f- and h-wave for $\ell = 1$, 3 and 5. Collinear entries with an even part are the altermagnets, and entries with an odd part only are the odd-parity magnets of the main text.

S4. THE IDEALIZED EXAMPLES OF THE MAIN TEXT

Three examples of the main text, marked by a double dagger in its table of examples, are treated in an idealized form of the reported magnetic structure. The table gives the structures as MAGNDATA has them, which compare with the idealized forms as follows.

a. *Mn_3Ge.* The main text takes the coplanar 120° order with equal moments and leaves out the small weak-ferromagnetic moment of the observed state [12]. The structure of Ref. [12] in MAGNDATA, entry 0.377, already has this form, with equal moments of 2.65 μ_B and no net moment, and its row agrees with the main text: $\Gamma = E_{2g}$, with piezomagnetism, both spin conductivities and a d-wave texture allowed. Entry 0.203 is a structure under pressure [13], in which the moments cant out of the plane to give a net moment along c. Its order is non-coplanar, with $\Gamma = A_{1g} \oplus E_{2g}$, and a net magnetization and an anomalous Hall conductivity are allowed as well.

b. *$CoTa_3S_6$.* The main text takes the equal-amplitude tetrahedral triple-Q order. The structure in MAGNDATA, entry 3.25, from Ref. [14], has moments of two sizes, 1.34 and 1.47 μ_B. The translations of G_0 that are not translations of the magnetic cell then no longer combine with a spin rotation to leave the structure as it is. The parent space group is the subgroup of index 4 that keeps only the translations of the magnetic cell, and $\Gamma = A_1 \oplus E_2$ lies entirely at $\boldsymbol{k} = \boldsymbol{0}$. Every response but the time-odd Edelstein effect is allowed, and the texture is s-wave in its even part and p-wave in its odd part, where the idealized order allows only the anomalous Hall conductivity and has no spin texture.

c. *$Gd_3(Ru_{0.95}Rh_{0.05})_4Al_{12}$.* The main text idealizes the structure of Ref. [15] as a circular single-harmonic helix, leaving out its small distortions and its net magnetization of about 2% of the saturated moment. That structure is not in MAGNDATA. The table's entry 3.27 is $Gd_3Ru_4Al_{12}$ in a different magnetic state, a lattice-commensurate skyrmion texture [16].

S5. SUMMARY OF THE TABLE

Table S1 gives the number of entries with each type of order: collinear, coplanar and non-coplanar. For each type, it also gives the number with zero propagation vector, the number with Γ irreducible, and the numbers that allow each form of spin texture and each response. The series 0, 1, 1.0, 2 and 3

of MAGNDATA contribute 1198, 903, 64, 123 and 30 entries. The table of Section S7 follows the order of MAGNDATA, with a small space between its series.

S6. SOFTWARE

The table was generated with the code of Ref. [3], under `Python` (version `3.14`) with `NumPy` (version `2.5.4`) [17], `spglib` (version `2.8.0`) [10] and `pymatgen` (version `2026.10.24`) [9]. The labels at nonzero wave vector are from the ISO-IR tables (version `1.1.1`) [6, 7].

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S7. RESULTS FOR MAGNDATA DATABASE

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.1	$LaMnO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.2	$Cd_2Os_2O_7$	$Fd\bar{3}m$	$Fd\bar{3}m'$	Non-coplanar	$Fd\bar{3}m$	T_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.3	Ca_3LiOsO_6	$R\bar{3}c$	$C2'/c'$	Collinear	$R\bar{3}c$	A_{2g}	**0**	Σ^-	g/–
0.4	$NiCr_2O_4$	$I4_1/amd$	$Fd'd'd$	Collinear	$I4_1/amd$	A_{1g}	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.5	Cr_2S_3	$R\bar{3}$	$P\bar{1}$	Collinear	$R\bar{3}$	A_g	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.6	$YMnO_3$	$P6_3cm$	$P6_3cm$	Coplanar	$P6_3cm$	E_1	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-	d/k
0.7	$ScMnO_3$	$P6_3cm$	$P6_3c'm'$	Coplanar	$P6_3cm$	E_1	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-	d/k
0.8	$ScMnO_3$	$P6_3cm$	$P6_3$	Coplanar	$P6_3cm$	E_1	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-	d/k
0.9	GdB_4	$P4/mbm$	$P4/m'b'm'$	Coplanar	$P4/mbm$	E_u	**0**	Σ^+, α^-	–/–
0.10	$DyFeO_3$	$Pnma$	$P2_12_12_1$	Coplanar	$P2_12_12_1$	$B_1 \oplus B_2$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	d/p
0.11	$DyFeO_3$	$Pnma$	$Pn'a'2_1$	Coplanar	$Pna2_1$	$A_1 \oplus B_1$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	s/p
0.12	$U_3Ru_4Al_{12}$	$P6_3/mmc$	$Cmcm'$	Coplanar	$Cmcm$	$B_{2u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.13	$Ca_3Co_{2-x}Mn_xO_6$	$R\bar{3}c$	$R3c$	Collinear	$R3c$	A_2	**0**	Σ^-	g/–
0.14	Gd_5Ge_4	$Pnma$	$Pnm'a$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.15	MnF_2	$P4_2/mnm$	$P4_2'/mnm'$	Collinear	$P4_2/mnm$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.16	$EuTiO_3$	$I4/mcm$	$Fm'mm$	Collinear	$I4/mcm$	B_{1u}	**0**		–/–
0.17	$FePO_4$	$Pnma$	$P2_12_12_1$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3u}$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, α^-, α^+	d/p
0.18	$BaMn_2As_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.19	$MnTiO_3$	$R\bar{3}$	$R\bar{3}'$	Collinear	$R\bar{3}$	A_u	**0**	α^-	–/–
0.20	$MnTe_2$	$Pa\bar{3}$	$Pa\bar{3}$	Non-coplanar	$Pa\bar{3}$	T_g	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.21	$PbNiO_3$	$R3c$	$R3c$	Collinear	$R3c$	A_2	**0**	Σ^-	g/–
0.22	DyB_4	$P4/mbm$	$Pb'am$	Collinear	$Pbam$	B_{3u}	**0**	α^-	–/–
0.23	$Ca_3Mn_2O_7$	$Cmc2_1$	$Cm'c2_1'$	Collinear	$Cmc2_1$	A_2	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.24	$LiMnPO_4$	$Pnma$	$Pn'm'a'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.25	$NaOsO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.26	TmAgGe	$P\bar{6}2m$	$Am'm'2$	Coplanar	$Amm2$	$A_1 \oplus B_2$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	s/p
0.27	YFe_4Ge_2	$Pnnm$	$Pn'n'm'$	Coplanar	$Pnnm$	$B_{2u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.28	$LiFeSi_2O_6$	$P2_1/c$	$P2_1/c'$	Coplanar	$P2_1/c$	$A_u \oplus B_u$	**0**	Σ^+, α^-	–/–
0.29	$Er_2Ti_2O_7$	$Fd\bar{3}m$	$I4_1'/am'd$	Non-coplanar	$I4_1/amd$	$B_{1g} \oplus E_g$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.30	$YbMnO_3$	$P6_3cm$	$P6_3'c'm$	Coplanar	$P6_3cm$	E_2	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/k
0.31	$HoMnO_3$	$P6_3cm$	$P6_3c'm'$	Coplanar	$P6_3cm$	E_1	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-	d/k
0.32	$HoMnO_3$	$P6_3cm$	$P6_3cm$	Coplanar	$P6_3cm$	E_1	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-	d/k
0.33	$HoMnO_3$	$P6_3cm$	$P6_3cm$	Non-coplanar	$P6_3cm$	$A_2 \oplus E_1$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	d/p
0.34	$La_{0.5}Sr_{0.5}FeO_{2.5}F_{0.5}$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.35	Cu_2OSeO_3	$P2_13$	$R3$	Collinear	$P2_13$	A	**0**	$\boldsymbol{M}$, Σ^-	s/–
0.36	NiF_2	$P4_2/mnm$	$Pnn'm'$	Coplanar	$P4_2/mnm$	$A_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.37	$U_3Al_2Si_3$	$I4$	$C2'$	Coplanar	$C2$	$2A$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	s/p
0.38	$GaFeO_3$	$Pna2_1$	$Pna'2_1'$	Collinear	$Pna2_1$	A_1	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, α^-	s/–
0.39	Nd_2NaRuO_6	$P2_1/c$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
0.40	Mn_2O_3-alpha	$Pbca$	$Pbca$	Coplanar	$Pbca$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.41	Mn_2O_3-alpha	$Pbca$	$Pbca$	Coplanar	$Pbca$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.42	$HoMnO_3$	$P6_3cm$	$P6_3'c'm$	Non-coplanar	$P6_3cm$	$B_1 \oplus E_2$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^+	d/p
0.43	$HoMnO_3$	$P6_3cm$	$P6_3'cm'$	Non-coplanar	$P6_3cm$	$B_2 \oplus E_2$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^+	d/p
0.44	$YMnO_3$	$P6_3cm$	$P6_3'$	Coplanar	$P6_3cm$	E_2	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/k
0.45	La_2NiO_4	$P4_2/ncm$	$Pc'c'n$	Collinear	$Pccn$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.46	$CaBaCo_4O_7$	$Pna2_1$	$Pna'2_1'$	Coplanar	$Pna2_1$	$A_1 \oplus A_2$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-	s/f
0.47	$Gd_2Sn_2O_7$	$Fd\bar{3}m$	$I4_1'/amd'$	Coplanar	$I4_1/amd$	E_g	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.48	$Tb_2Sn_2O_7$	$Fd\bar{3}m$	$I4_1/am'd'$	Non-coplanar	$I4_1/amd$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
0.49	$Ho_2Ru_2O_7$	$Fd\bar{3}m$	$I4_1/am'd'$	Non-coplanar	$I4_1/amd$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.50	$MnTiO_3$	$R3c$	Cc'	Collinear	$R3c$	A_2	**0**	Σ^-	g/–
0.51	$Ho_2Ru_2O_7$	$Fd\bar{3}m$	$I4_1/am'd'$	Non-coplanar	$I4_1/amd$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.52	$K_yFe_{2-x}Se_2$	$I4/m$	$C2'/m'$	Collinear	$C2/m$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.53	$Rb_yFe_{2-x}Se_2$	$I4/m$	$C2'/m'$	Collinear	$C2/m$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.54	$Rb_yFe_{2-x}Se_2$	$I4/m$	$I4/m'$	Collinear	$I4/m$	A_u	**0**	α^-	–/–
0.55	$K_yFe_{2-x}Se_2$	$I4/m$	$I4/m'$	Collinear	$I4/m$	A_u	**0**	α^-	–/–
0.56	$Ba_2CoGe_2O_7$	$P\bar{4}2_1m$	$Cm'm2'$	Collinear	$P\bar{4}2_1m$	A_2	**0**	Σ^-	g/–
0.57	$ScFeO_3$	$R3c$	Cc'	Collinear	$R3c$	A_2	**0**	Σ^-	g/–
0.58	$CoAl_2O_4$	$Fd\bar{3}m$	$I4_1'/a'm'd$	Collinear	$Fd\bar{3}m$	A_{2u}	**0**		–/–
0.59	Cr_2O_3	$R\bar{3}c$	$R\bar{3}'c'$	Collinear	$R\bar{3}c$	A_{2u}	**0**	α^-	–/–
0.60	$[NH_2(CH_3)_2]_n$ $[FeIIIFeII(HCOO)_6]_n$	$R\bar{3}c$	$R\bar{3}c'$	Non-coplanar	$R\bar{3}c$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.61	$Li_2FeP_2O_7$	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$2B_g$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.62	$SrMn_2V_2O_8$	$I4_1cd$	$Ib'a2'$	Collinear	$I4_1cd$	B_1	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.63	Ho_2CrSbO_7	$Fd\bar{3}m$	$I4_1/am'd'$	Non-coplanar	$I4_1/amd$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.64	MnV_2O_4	$I4_1/amd$	$I4_1/a$	Non-coplanar	$I4_1/amd$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.65	Fe_2O_3-alpha	$R\bar{3}c$	$C2'/c'$	Collinear	$R\bar{3}c$	A_{2g}	**0**	Σ^-	g/–
0.66	Fe_2O_3-alpha	$R\bar{3}c$	$P\bar{1}$	Collinear	$R\bar{3}c$	A_{2g}	**0**	Σ^-	g/–
0.67	$BiFe_{0.5}Sc_{0.5}O_3$	$Ima2$	$Im'a2'$	Collinear	$Ima2$	A_2	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.68	$BiFe_{0.5}Sc_{0.5}O_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.69	$Co_4(OH)_2(C_{10}H_{16}O_4)_3$	$P2_1/c$	$P2_1'/c'$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.70	$Na_3Co(CO_3)_2Cl$	$Fd\bar{3}$	$Fd\bar{3}$	Non-coplanar	$Fd\bar{3}$	T_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.71	$Li_2Ni(SO_4)_2$	$Pbca$	$Pb'c'a'$	Collinear	$Pbca$	B_{2u}	**0**	α^-	–/–
0.72	$CaMnBi_2$	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	**0**		–/–
0.73	$SrMnBi_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.74	$Mn_3Cu_{0.5}Ge_{0.5}N$	$Pm\bar{3}m$	$R\bar{3}m$	Coplanar	$Pm\bar{3}m$	E_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.75	Cr_2WO_6	$P4_2/mnm$	$Pn'nm$	Collinear	$P4_2/mnm$	B_{1u}	**0**		–/–
0.76	Cr_2TeO_6	$P4_2/mnm$	$Pn'nm$	Collinear	$P4_2/mnm$	A_{2u}	**0**	α^-	–/–
0.77	$Tb_2Ti_2O_7$	$Fd\bar{3}m$	$R\bar{3}m'$	Non-coplanar	$R\bar{3}m$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.78	NiN_2O_6	$R\bar{3}$	$R\bar{3}$	Non-coplanar	$R\bar{3}$	$A_g \oplus E_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.79	$CaIrO_3$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.80	U_2Pd_2In	$P4/mbm$	$P4'/m'bm'$	Coplanar	$P4/mbm$	E_u	**0**	Σ^+, α^-	–/–
0.81	U_2Pd_2Sn	$P4/mbm$	$P4'/m'bm'$	Coplanar	$P4/mbm$	E_u	**0**	Σ^+, α^-	–/–
0.82	Gd_2CuO_4	$Cmce$	$Cm'ca'$	Coplanar	$Cmce$	$A_g \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.83	$LiFeP_2O_7$	$P2_1$	$P2_1$	Collinear	$P2_1$	B	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.84	Mn_2FeMoO_6	$R3$	$R3$	Collinear	$R3$	A	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	s/–
0.85	$KCo_4(PO_4)_3$	$Pnnm$	$Pnn'm'$	Coplanar	$Pnnm$	$A_g \oplus B_{1g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.86	$KMn_4(PO_4)_3$	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.87	$NaFePO_4$	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.88	$LiNiPO_4$	$Pnma$	$Pnm'a$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.89	$BaMn_2Bi_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.90	$Rb_2Fe_2O(AsO_4)_2$	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.91	$Rb_2Fe_2O(AsO_4)_2$	$Pnma$	$Pn'ma'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.92	$CaMn_2Sb_2$	$P\bar{3}m1$	$C2'/m$	Collinear	$P\bar{3}m1$	A_{2u}	**0**	α^-	–/–
0.93	$Ca_2Fe_2O_5$	$Pnma$	$Pcm'n'$	Non-coplanar	$Pnma$	$A_g \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.94	$TeNiO_3$	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$A_g \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.95	$LiFePO_4$	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.96	$CoSO_4$	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.97	$FeSb_2O_4$	$P4_2/mbc$	$Pmc2_1$	Non-coplanar	$P4_2/mbc$	$A_{1u} \oplus B_{2g} \oplus B_{2u}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/f
0.98	$YBaMn_2O_{5.5}$	$Ibam$	$Ib'a'm$	Collinear	$Ibam$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.99	$YBaMn_2O_{5.5}$	$Ibam$	$C2/m$	Collinear	$Ibam$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.100	$YCr_{0.5}Mn_{0.5}O_3$	$Pnma$	$Pn'ma'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.101	Mn_2GeO_4	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.102	Mn_2GeO_4	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.103	Mn_2GeO_4	$Pnma$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.104	$ErVO_3$	$Pnma$	$P2'_1/m'$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.105	$ErVO_3$	$Pnma$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.106	$DyVO_3$	$Pnma$	$P2'_1/m'$	Non-coplanar	$Pnma$	$A_g \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.107	$Ho_2Ge_2O_7$	$P4_12_12$	$P4_12_12$	Coplanar	$P4_12_12$	E	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.108	Mn_3Ir	$Pm\bar{3}m$	$R\bar{3}m'$	Coplanar	$Pm\bar{3}m$	E_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.109	Mn_3Pt	$Pm\bar{3}m$	$R\bar{3}m'$	Coplanar	$Pm\bar{3}m$	E_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.110	Cr_2O_3	$R\bar{3}c$	$C2'/c$	Collinear	$R\bar{3}c$	A_{2u}	**0**	α^-	–/–
0.111	$Co_4Nb_2O_9$	$P\bar{3}c1$	$P\bar{3}'c'1$	Collinear	$P\bar{3}c1$	A_{2u}	**0**	α^-	–/–
0.112	$FeBO_3$	$R\bar{3}c$	$C2'/c'$	Collinear	$R\bar{3}c$	A_{2g}	**0**	Σ^-	g/–
0.113	$NiCO_3$	$R\bar{3}c$	$C2/c$	Collinear	$R\bar{3}c$	A_{2g}	**0**	Σ^-	g/–
0.114	$CoCO_3$	$R\bar{3}c$	$C2/c$	Collinear	$R\bar{3}c$	A_{2g}	**0**	Σ^-	g/–
0.115	$MnCO_3$	$R\bar{3}c$	$C2/c$	Collinear	$R\bar{3}c$	A_{2g}	**0**	Σ^-	g/–
0.116	$FeCO_3$	$R\bar{3}c$	$R\bar{3}c$	Collinear	$R\bar{3}c$	A_{2g}	**0**	Σ^-	g/–
0.117	$LuFeO_3$	$P6_3cm$	$P6_3c'm'$	Coplanar	$P6_3cm$	E_1	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-$	d/k
0.118	$Ba_5Co_5ClO_{13}$	$P6_3/mmc$	$P6'_3/m'm'c$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.119	$CoSe_2O_5$	$Pbcn$	$Pb'cn$	Coplanar	$Pbcn$	$A_u \oplus B_{2u}$	**0**	Σ^+, α^-	–/–
0.120	$LiFe(SO_4)_2$	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.121	$Li_2Co(SO_4)_2$	$P2_1/c$	$P2'_1/c'$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.122	$Li_2Mn(SO_4)_2$	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.123	Mn_3NiN	$Pm\bar{3}m$	$R\bar{3}$	Coplanar	$Pm\bar{3}m$	E_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.124	Mn_3NiN	$Pm\bar{3}m$	$R\bar{3}$	Coplanar	$Pm\bar{3}m$	E_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.125	$MnGeO_3$	$R\bar{3}$	$R\bar{3}'$	Collinear	$R\bar{3}$	A_u	**0**	α^-	–/–
0.126	$NpCo_2$	$Fd\bar{3}m$	$I4'_1/a'm'd$	Collinear	$Fd\bar{3}m$	A_{2u}	**0**		–/–
0.127	$Dy_3Al_5O_{12}$	$Ia\bar{3}d$	$Ia\bar{3}d'$	Non-coplanar	$Ia\bar{3}d$	T_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.128	$FeSO_4F$	$C2/c$	$C2'/c'$	Collinear	$C2/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.129	$Cu_3Mo_2O_9$	$Pnma$	$P2'_12'_12_1$	Coplanar	$P2_12_12_1$	$B_1 \oplus B_2$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.130	$Cu_3Mo_2O_9$	$Pnma$	$Pm'c2'_1$	Coplanar	$Pmc2_1$	$A_1 \oplus B_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
0.131	$Mn(N(CN)_2)_2$	$Pnnm$	$Pnn'm'$	Collinear	$Pnnm$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.132	$Fe(N(CN)_2)_2$	$Pnnm$	$Pnn'm'$	Coplanar	$Pnnm$	$A_g \oplus B_{1g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.133	$Ni_3B_7O_{13}Cl$	$Pca2_1$	$Pc'a2'_1$	Coplanar	$Pca2_1$	$A_1 \oplus A_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-$	s/f
0.134	$Mn_3B_7O_{13}I$	$Pca2_1$	$Pc'a2'_1$	Coplanar	$Pca2_1$	$A_2 \oplus B_2$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.135	$Ni_3B_7O_{13}Br$	$Pca2_1$	$Pc'a2'_1$	Non-coplanar	$Pca2_1$	$A_1 \oplus A_2 \oplus B_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.136	$Co_3B_7O_{13}Br$	$Pca2_1$	$Pc'a2'_1$	Non-coplanar	$Pca2_1$	$A_1 \oplus A_2 \oplus B_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.137	$Cu_2V_2O_7$	$Fdd2$	$Fd'd'2$	Collinear	$Fdd2$	B_2	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.138	$BiCrO_3$	$C2/c$	$C2/c$	Collinear	$C2/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.139	$BiCrO_3$	$C2/c$	$P\bar{1}$	Collinear	$C2/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.140	$LuFe_4Ge_2$	$Pnnm$	$Pn'n'm'$	Coplanar	$Pnnm$	$B_{2u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.141	Tb_5Ge_4	$Pnma$	$Pnm'a$	Non-coplanar	$Pnma$	$A_u \oplus B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.142	Fe_2TeO_6	$P4_2/mnm$	$P4_2/m'n'm'$	Collinear	$P4_2/mnm$	A_{2u}	**0**	α^-	–/–
0.143	Cr_2TeO_6	$P4_2/mnm$	$Pn'nm$	Collinear	$P4_2/mnm$	A_{2u}	**0**	α^-	–/–
0.144	Cr_2WO_6	$P4_2/mnm$	$Pn'nm$	Collinear	$P4_2/mnm$	B_{1u}	**0**		–/–
0.145	Co_3TeO_6	$C2/c$	$C2'/c$	Non-coplanar	$C2/c$	$2A_u \oplus B_u$	**0**	Σ^+, α^-	–/–
0.146	$EuZrO_3$	$Pnma$	$Pnm'a$	Collinear	$Pnma$	B_{1u}	**0**	α^-	–/–
0.147	$EuZrO_3$	$Pnma$	$Pn'm'a'$	Collinear	$Pnma$	B_{1u}	**0**	α^-	–/–
0.148	La_2LiRuO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.149	$Nd_3Ru_4Al_{12}$	$P6_3/mmc$	$Cm'c'm$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.150	NiS_2	$Pa\bar{3}$	$Pa\bar{3}$	Non-coplanar	$Pa\bar{3}$	T_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.151	$Tm_2Mn_2O_7$	$Fd\bar{3}m$	$I4_1/am'd'$	Non-coplanar	$I4_1/amd$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.152	$LiFePO_4$	$Pnma$	$P2_1/c'$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.153	Bi_2RuMnO_7	$Fd\bar{3}m$	$Fd'd'd$	Collinear	$I4_1/amd$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.154	$Er_2Ru_2O_7$	$Fd\bar{3}m$	$I4_1'/am'd$	Collinear	$I4_1/amd$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.155	$CaMnGe_2O_6$	$C2/c$	$P\bar{1}'$	Collinear	$C2/c$	A_u	**0**	α^-	–/–
0.156	$CaMnGe_2O_6$	$C2/c$	$C2'/c$	Collinear	$C2/c$	A_u	**0**	α^-	–/–
0.157	$Yb_2Sn_2O_7$	$Fd\bar{3}m$	$I4_1/am'd'$	Non-coplanar	$I4_1/amd$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
0.158	$Yb_2Ti_2O_7$	$Fd\bar{3}m$	$I4_1/am'd'$	Non-coplanar	$I4_1/amd$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
0.159	$DyCoO_3$	$Pnma$	$Pn'm'a'$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.160	$TbCoO_3$	$Pnma$	$Pnm'a$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.161	$CoSe_2O_5$	$Pbcn$	$Pb'cn$	Collinear	$Pbcn$	A_u	**0**		–/–
0.162	$NdCrTiO_5$	$Pbam$	$Pbam'$	Non-coplanar	$Pbam$	$A_u \oplus B_{2u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.163	$MnPS_3$	$C2/m$	$C2'/m$	Collinear	$C2/m$	A_u	**0**	α^-	–/–
0.164	Y_2MnCoO_6	$P2_1/c$	$P2_1'/c'$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.165	$SrMn(VO_4)(OH)$	$P2_12_12_1$	$P2_1$	Coplanar	$P2_12_12_1$	$A \oplus B_2$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	s/p
0.166	Ce_2PdGe_3	$P4_2/mmc$	$P4_2'/m'm'c$	Collinear	$P4_2/mmc$	B_{2u}	**0**		–/–
0.167	$Nd_3Sb_3Mg_2O_{14}$	$R\bar{3}m$	$R\bar{3}m'$	Non-coplanar	$R\bar{3}m$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
0.168	$NH_4Fe_2F_6$	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.169	U_3As_4	$I\bar{4}3d$	$R3c'$	Non-coplanar	$I\bar{4}3d$	$A_1 \oplus E$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/h
0.170	U_3P_4	$I\bar{4}3d$	$R3c'$	Non-coplanar	$I\bar{4}3d$	$A_1 \oplus E$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/h
0.171	$DyScO_3$	$Pnma$	$Pn'm'a'$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.172	$Tb_3Co_{3.25}Al_{0.75}$	$Cmcm$	$Cm'cm'$	Coplanar	$Cmcm$	$A_g \oplus B_{3g}$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.173	$Pr_3Ru_4Al_{12}$	$P6_3/mmc$	$Cm'c'm$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.174	$Pr_3Ru_4Al_{12}$	$P6_3/mmc$	$C2'/c'$	Coplanar	$Cmcm$	$2A_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.175	$Ca_2CoSi_2O_7$	$P2_12_12$	$P2_12_1'2'$	Coplanar	$P2_12_12$	$A \oplus B_1$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	s/p
0.176	$Mn_3Si_2Te_6$	$P\bar{3}1c$	$C2'/c'$	Collinear	$P\bar{3}1c$	A_{1g}	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.177	Mn_3GaN	$Pm\bar{3}m$	$R\bar{3}m$	Coplanar	$Pm\bar{3}m$	E_g	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.178	CoF_2	$P4_2/mnm$	$P4_2'/mnm'$	Collinear	$P4_2/mnm$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.179	$FeCl_5D_2O(ND_4)_2$	$P2_1/c$	$P2_1'$	Coplanar	$P2_1/c$	$A_g \oplus B_u$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, α^-, α^+	s/p
0.180	$MnPSe_3$	$R\bar{3}$	$P\bar{1}'$	Collinear	$R\bar{3}$	A_u	**0**	α^-	–/–
0.181	$Nd_{15}Ge_9C_{0.39}$	$P6_3mc$	$P6_3m'c'$	Non-coplanar	$P6_3mc$	$A_1 \oplus E_1$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-, α^-, α^+	s/p
0.182	$KCrF_4$	$Pnma$	$Pn'ma$	Coplanar	$Pnma$	$A_u \oplus B_{2u}$	**0**	Σ^+, α^-	–/–
0.183	$KMnFeF_6$	$P4_2bc$	$Pb'a2'$	Coplanar	$P4_2bc$	$A_1 \oplus A_2$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-	s/h
0.184	Nd_5Si_4	$P4_12_12$	$P4_12_1'2'$	Non-coplanar	$P4_12_12$	$A_1 \oplus E$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-, α^-, α^+	s/p
0.185	Nd_5Ge_4	$Pnma$	$Pnm'a'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
0.186	$CeMnAsO$	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	**0**		–/–
0.187	$CeMnAsO$	$P4/nmm$	$Pm'mn$	Collinear	$Pmmn$	B_{1u}	**0**	α^-	–/–
0.188	$CeMnAsO$	$P4/nmm$	$P2'/c$	Coplanar	$Pmmn$	$2B_{1u}$	**0**	Σ^+, α^-	–/–
0.189	$CeMn_2Ge_4O_{12}$	$P4/nbm$	$P4'/nbm'$	Collinear	$P4/nbm$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.190	$CeMnCoGe_4O_{12}$	$P4/nbm$	$Pb'an'$	Collinear	$P4/nbm$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.191	$BaCuF_4$	$Cmc2_1$	$Cm'c'2_1$	Coplanar	$Cmc2_1$	$A_1 \oplus B_2$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	s/p
0.192	$RbFe_2F_6$	$Pnma$	$Pnma$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.193	$LiCoPO_4$	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.194	UPt_2Si_2	$P4/nmm$	$P4/n'm'm'$	Collinear	$P4/nmm$	A_{2u}	**0**	α^-	–/–
0.195	$Sr_2Ir_{0.92}Sn_{0.08}O_4$	$I4_1/acd$	$Ib'c'a$	Coplanar	$I4_1/acd$	$A_{1g} \oplus A_{2g}$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.196	$Co_4Nb_2O_9$	$P\bar{3}c1$	$C2/c'$	Coplanar	$P\bar{3}c1$	$2A_{2u}$	**0**	Σ^+, α^-	–/–
0.197	$Co_4Nb_2O_9$	$P\bar{3}c1$	$C2/c'$	Coplanar	$P\bar{3}c1$	$A_{1u} \oplus A_{2u}$	**0**	Σ^+, α^-	–/–
0.198	$GdVO_4$	$I4_1/amd$	$I4_1'/a'm'd$	Collinear	$I4_1/amd$	B_{2u}	**0**		–/–
0.199	Mn_3Sn	$P6_3/mmc$	$Cmc'm'$	Coplanar	$P6_3/mmc$	E_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.200	Mn_3Sn	$P6_3/mmc$	$Cm'cm'$	Coplanar	$P6_3/mmc$	E_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.201	$Ca_2PrCr_2NbO_9$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.202	$Ca_2PrCr_2TaO_9$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.203	Mn_3Ge	$P6_3/mmc$	$C2'/m'$	Non-coplanar	$P6_3/mmc$	$A_{1g} \oplus E_{2g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.204	Ca_2MnReO_6	$P2_1/c$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.205	Sr_2MnReO_6	$P2_1/c$	$P2_1'/c'$	Non-coplanar	$P2_1/c$	$2A_g \oplus B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.206	$Ca_2Fe_{0.875}Cr_{0.125}GaO_5$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.207	$TlFe_{1.6}Se_2$	$I4/m$	$I4/m$	Coplanar	$I4/m$	E_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.208	$TlFe_{1.6}Se_2$	$I4/m$	$C2'/m$	Collinear	$I4/m$	A_u	$\mathbf{0}$	α^-	–/–
0.209	$TlFe_{1.6}Se_2$	$I4/m$	$I4/m'$	Collinear	$I4/m$	A_u	$\mathbf{0}$	α^-	–/–
0.210	Sr_2CoOsO_6	$C2/c$	$C2/c$	Collinear	$C2/c$	B_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.211	Ca_2MnO_4	$I4_1/acd$	$I4_1'/a'cd'$	Collinear	$I4_1/acd$	B_{1u}	$\mathbf{0}$		–/–
0.212	$Sr_2Mn_3As_2O_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	$\mathbf{0}$		–/–
0.213	$Sr_2Mn_2CuAs_2O_2$	$I4/mmm$	$I4/mm'm'$	Collinear	$I4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.214	$FePbBiO_4$	$P4_2/mbc$	$Pmc2_1$	Coplanar	$P4_2/mbc$	$B_{2g} \oplus B_{2u}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/h
0.215	$BaNi_2P_2O_8$	$R\bar{3}$	$P\bar{1}'$	Collinear	$R\bar{3}$	A_u	$\mathbf{0}$	α^-	–/–
0.216	$SrEr_2O_4$	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{3u}	$\mathbf{0}$	α^-	–/–
0.217	$LiCrGe_2O_6$	$P2_1/c$	$P2_1'/c$	Collinear	$P2_1/c$	A_u	$\mathbf{0}$	α^-	–/–
0.218	Co_2SiO_4	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.219	Co_2SiO_4	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.220	Mn_2SiO_4	$Pnma$	$Pn'm'a$	Non-coplanar	$Pnma$	$A_g \oplus B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.221	Fe_2SiO_4	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.222	$CuMnAs$	$P4/nmm$	$Pm'mn$	Collinear	$P4/nmm$	A_{2u}	$\mathbf{0}$	α^-	–/–
0.223	$Cu_{0.95}MnAs$	$Pnma$	$Pn'ma$	Collinear	$Pnma$	B_{1u}	$\mathbf{0}$	α^-	–/–
0.224	$Nd_{0.5}Tb_{0.5}Co_2$	$R\bar{3}m$	$C2'/m'$	Coplanar	$R\bar{3}m$	$2A_{1g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.225	$Nd_{0.5}Tb_{0.5}Co_2$	$R\bar{3}m$	$C2'/m'$	Coplanar	$R\bar{3}m$	$2A_{1g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.226	$NdCo_2$	$Fddd$	$C2'/c'$	Collinear	$Fddd$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.227	$NdCo_2$	$I4_1/amd$	$I4_1/am'd'$	Collinear	$I4_1/amd$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.228	$TbCo_2$	$R\bar{3}m$	$R\bar{3}m'$	Collinear	$R\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.229	$Ba_2MnSi_2O_7$	$P\bar{4}2_1m$	$P\bar{4}2_1m$	Collinear	$P\bar{4}2_1m$	A_2	$\mathbf{0}$	Σ^-	g/–
0.230	$K_2CoP_2O_7$	$P4_2/mnm$	$Pn'nm$	Collinear	$P4_2/mnm$	B_{2u}	$\mathbf{0}$		–/–
0.231	$TmMn_3O_6$	$Pmmn$	$Pmm'n'$	Collinear	$Pmmn$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.232	$TmMn_3O_6$	$Pmmn$	$Pm'm'n$	Collinear	$Pmmn$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.233	Mn_2FeSbO_6	$R\bar{3}$	$P\bar{1}$	Collinear	$R\bar{3}$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.234	$MnLaMnSbO_6$	$P4_2/n$	$P2'/c'$	Collinear	$P4_2/n$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.235	$MnPrMnSbO_6$	$P4_2/n$	$P4_2/n$	Collinear	$P4_2/n$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.236	$CaFe_4Al_8$	$I4/mmm$	$I4'/mmm'$	Non-coplanar	$I4/mmm$	$B_{2g} \oplus E_g$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.237	$Er_2Sn_2O_7$	$Fd\bar{3}m$	$I4_1'/amd'$	Coplanar	$I4_1/amd$	E_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.238	$Er_2Pt_2O_7$	$Fd\bar{3}m$	$I4_1'/amd'$	Coplanar	$I4_1/amd$	E_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.239	Ca_3LiRuO_6	$R\bar{3}c$	$C2'/c'$	Collinear	$R\bar{3}c$	A_{2g}	$\mathbf{0}$	Σ^-	g/–
0.240	$Er_2Cu_2O_5$	$Pna2_1$	$Pna2_1$	Non-coplanar	$Pna2_1$	$A_2 \oplus B_1 \oplus B_2$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.241	$Y_2Cu_2O_5$	$Pna2_1$	$Pna2_1$	Collinear	$Pna2_1$	B_1	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.242	$Tm_2Cu_2O_5$	$Pna2_1$	$Pn'a'2_1$	Coplanar	$Pna2_1$	$A_1 \oplus B_1$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
0.243	$Li_2Fe(SO_4)_2$	$Pbca$	$P2_1'/c$	Collinear	$Pbca$	B_{2u}	$\mathbf{0}$	α^-	–/–
0.244	$Li_2Co(SO_4)_2$	$Pbca$	$Pb'c'a'$	Collinear	$Pbca$	B_{2u}	$\mathbf{0}$	α^-	–/–
0.245	$Li_{1.5}Fe(SO_4)_2$	$Pbca$	$P2_1'/c$	Collinear	$Pbca$	B_{2u}	$\mathbf{0}$	α^-	–/–
0.246	$LiFe(SO_4)_2$	$Pbca$	$Pb'c'a'$	Collinear	$Pbca$	B_{2u}	$\mathbf{0}$	α^-	–/–
0.247	$Nd_2NiO_{4.11}$	$P4_2/ncm$	$P4_2/nc'm'$	Coplanar	$P4_2/ncm$	E_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.248	$TbPt_{0.8}Cu_{0.2}$	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.249	$NdNi_{0.6}Cu_{0.4}$	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.250	$(NH_2(CH_3)_2)(FeCo(HCOO)_6)$	$P\bar{3}1c$	$C2'/c'$	Non-coplanar	$P\bar{3}1c$	$2A_{1g} \oplus A_{2g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.251	$(NH_2(CH_3)_2)(FeMn(HCOO)_6)$	$P\bar{3}1c$	$C2'/c'$	Non-coplanar	$P\bar{3}1c$	$2A_{1g} \oplus A_{2g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.252	$Cs_2FeCl_5{\cdot}D_2O$	$C2/c$	$C2'/c$	Collinear	$C2/c$	B_u	**0**	α^-	–/–
0.253	$Cs_2FeCl_5{\cdot}D_2O$	$C2/c$	$C2$	Coplanar	$C2/c$	$A_g \oplus B_u$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-, \alpha^+$	s/p
0.254	$[C(ND_2)_3]$ $Cu(DCOO)_3$	$Pna2_1$	$Pna2_1$	Collinear	$Pna2_1$	B_1	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	$d/–$
0.255	$[C(ND_2)_3]$ $Cu(DCOO)_3$	$Pna2_1$	$Pn'a'2_1$	Collinear	$Pna2_1$	B_1	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	$d/–$
0.256	$[C(ND_2)_3]$ $Mn(DCOO)_3$	$Pnna$	$Pn'n'a$	Collinear	$Pnna$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/–$
0.257	$[C(ND_2)_3]$ $Co(DCOO)_3$	$Pnna$	$Pn'na'$	Collinear	$Pnna$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/–$
0.258	$Li_3Fe_2(PO_4)_3$	$P2_1/c$	$P2_1'/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.259	$Li_3Fe_2(PO_4)_3$	$R\bar{3}$	$R\bar{3}$	Collinear	$R\bar{3}$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.260	$CuFePO_5$	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/–$
0.261	$NiFePO_5$	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/–$
0.262	$CoFePO_5$	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$B_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.263	Fe_2PO_5	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/–$
0.264	$Fe_3(PO_4)_2$	$P2_1/c$	$P2_1/c'$	Collinear	$P2_1/c$	B_u	**0**	α^-	–/–
0.265	$Mn_3(Co_{0.61}Mn_{0.39})N$	$Pm\bar{3}m$	$R\bar{3}$	Non-coplanar	$Pm\bar{3}m$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/–$
0.266	$Na_2BaCo(VO_4)_2$	$P\bar{3}m1$	$P\bar{3}m'1$	Collinear	$P\bar{3}m1$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.267	$YbMnBi_2$	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	**0**		–/–
0.268	Tb_2MnNiO_6	$P2_1/c$	$P2_1'$	Non-coplanar	$P2_1$	$2A \oplus B$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.269	Tb_2MnNiO_6	$P2_1/c$	$P2_1'/c'$	Non-coplanar	$P2_1/c$	$2A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	$s/–$
0.270	Tb_2MnNiO_6	$P2_1/c$	$P2_1'/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.271	Tb_2MnNiO_6	$P2_1/c$	$P2_1'/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.272	Tb_2MnNiO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.273	Mn_3ZnN	$Pm\bar{3}m$	$R\bar{3}m$	Coplanar	$Pm\bar{3}m$	E_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/–$
0.274	Mn_4N	$Pm\bar{3}m$	$R\bar{3}m'$	Collinear	$Pm\bar{3}m$	A_{1g}	**0**	$\boldsymbol{M}, \Sigma^-$	$s/–$
0.275	Mn_3AlN	$Pm\bar{3}m$	$R\bar{3}m'$	Collinear	$Pm\bar{3}m$	A_{1g}	**0**	$\boldsymbol{M}, \Sigma^-$	$s/–$
0.276	Mn_3AlN	$Pm\bar{3}m$	$Cmm'm'$	Collinear	$P4/mmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.277	$MgMnO_3$	$R\bar{3}$	$R\bar{3}'$	Collinear	$R\bar{3}$	A_u	**0**	α^-	–/–
0.278	$Cu_{0.82}Mn_{1.18}As$	$P\bar{6}$	$P\bar{6}'$	Coplanar	$P\bar{6}$	E'	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-$	d/f
0.279	Mn_3As	$P6_3/mmc$	$Cmc'm'$	Coplanar	$P6_3/mmc$	E_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.280	Mn_3As	$P6_3/mmc$	$Cm'cm'$	Coplanar	$P6_3/mmc$	E_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.281	$Co_2V_2O_7$	$P2_1/c$	$P2_1/c'$	Non-coplanar	$P2_1/c$	$A_u \oplus 2B_u$	**0**	Σ^+, α^-	–/–
0.282	$U_{14}Au_{51}$	$P6/m$	$P6'/m$	Collinear	$P6/m$	B_u	**0**		–/–
0.283	$U_{14}Au_{51}$	$P6/m$	$P6/m'$	Coplanar	$P6/m$	E_{1u}	**0**	Σ^+, α^-	–/–
0.284	$KOsO_4$	$I4_1/a$	$I4_1'/a'$	Collinear	$I4_1/a$	B_u	**0**		–/–
0.285	$KRuO_4$	$I4_1/a$	$I4_1'/a'$	Collinear	$I4_1/a$	B_u	**0**		–/–
0.286	Mn_5Ge_3	$P6_3/mcm$	$P6_3/mc'm'$	Collinear	$P6_3/mcm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.287	$SrCo(VO_4)(OH)$	$P2_12_12_1$	$P2_12_12_1$	Non-coplanar	$P2_12_12_1$	$B_1 \oplus B_2 \oplus B_3$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.288	$NdMnO_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{1g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/–$
0.289	$NdMnO_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{1g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/–$
0.290	$CeCu_2$	$Imma$	$Im'm'a'$	Collinear	$Imma$	B_{1u}	**0**	α^-	–/–
0.291	Tl_2NiMnO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.292	$NiTe_2O_5$	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.293	$(Tm_{0.7}Mn_{0.3})MnO_3$	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/–$
0.294	$Cu_4(OD)_6FBr$	$Pnma$	$Pn'm'a$	Non-coplanar	$Pnma$	$A_g \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	$s/–$
0.295	$Cu_2(OD)_3Cl$	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$2B_g$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.296	$Cu_2(OD)_3Cl$	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/–$
0.297	$NaCrGe_2O_6$	$C2/c$	$C2'/c'$	Collinear	$C2/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.298	$Na_2BaFe(VO_4)_2$	$C2/c$	$C2'/c'$	Coplanar	$C2/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/–$
0.299	Fe_2O_3	$Pna2_1$	$Pna'2_1'$	Collinear	$Pna2_1$	A_1	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	$s/–$
0.300	Fe_2O_3	$Pna2_1$	$Pna'2_1'$	Collinear	$Pna2_1$	A_1	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	$s/–$

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.301	Sr_2CoTeO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.302	$Sr_2Co_{0.9}Mg_{0.1}TeO_6$	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.303	$BaCrF_5$	$P2_12_12_1$	$P2'_12'_12_1$	Collinear	$P2_12_12_1$	B_1	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, α^-	d/–
0.304	$Pr_{0.5}Sr_{0.5}CoO_3$	$Imma$	$Im'm'a$	Collinear	$Imma$	A_g	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.305	$Pr_{0.5}Sr_{0.5}CoO_3$	$I4/mcm$	$Fm'm'm$	Collinear	$I4/mcm$	A_{1g}	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.306	$GaFeO_3$	$R3c$	Cc'	Collinear	$R3c$	A_2	**0**	Σ^-	g/–
0.307	$ScCrO_3$	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.308	$InCrO_3$	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.309	$TlCrO_3$	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.310	$NaMnFeF_6$	$P321$	$P32'1$	Collinear	$P321$	A_1	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.311	$CoGeO_3$	$Pbca$	$Pb'ca$	Non-coplanar	$Pbca$	$A_u \oplus B_{2u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.312	$MnGeO_3$	$C2/c$	$C2'/c$	Collinear	$C2/c$	A_u	**0**	α^-	–/–
0.313	$MnGeO_3$	$Pbca$	$Pb'ca$	Coplanar	$Pbca$	$A_u \oplus B_{1u}$	**0**	Σ^+, α^-	–/–
0.314	$ZrCo_2Ge_4O_{12}$	$P4/nbm$	$Pb'an'$	Coplanar	$P4/nbm$	$A_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.315	$ZrMn_2Ge_4O_{12}$	$P4/nbm$	$P4'/nbm'$	Collinear	$P4/nbm$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.316	$DyCrWO_6$	$Pna2_1$	$P2_1$	Non-coplanar	$Pna2_1$	$A_2 \oplus 2B_1$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-, α^-, α^+	d/p
0.317	Ho_2CoMnO_6	$P2_1/c$	$P2'_1/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.318	Tm_2CoMnO_6	$P2_1/c$	$P2'_1/c'$	Non-coplanar	$P2_1/c$	$2A_g \oplus B_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
0.319	Tm_2CoMnO_6	$P2_1/c$	$P2'_1/c'$	Coplanar	$P2_1/c$	$2A_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.320	U_2Pd_2In	$P4/mbm$	$P4'/m'bm'$	Coplanar	$P4/mbm$	E_u	**0**	Σ^+, α^-	–/–
0.321	U_2Pd_2Sn	$P4/mbm$	$P4'/m'bm'$	Coplanar	$P4/mbm$	E_u	**0**	Σ^+, α^-	–/–
0.322	$Cu_{1.94}Mn_{1.06}BO_5$	$P2_1/c$	$P2'_1/c'$	Coplanar	$P2_1/c$	$2A_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.323	$LaCrO_3$	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.324	$CdYb_2S_4$	$Fd\bar{3}m$	$I4_1/amd$	Coplanar	$I4_1/amd$	E_g	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.325	$CdYb_2Se_4$	$Fd\bar{3}m$	$I4_1/amd$	Coplanar	$I4_1/amd$	E_g	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.326	$Nd_2Sn_2O_7$	$Fd\bar{3}m$	$Fd\bar{3}m'$	Non-coplanar	$Fd\bar{3}m$	T_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.327	$CsMnF_4$	$P4/nmm$	$Pmm'n'$	Collinear	$P4/nmm$	A_{1g}	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.328	$KMnF_4$	$P2_1/c$	$P2'_1/c'$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.329	$RbMnF_4$	$P2_1/c$	$P\bar{1}$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.330	$ErGe_3$	$Cmcm$	$P2_1/m'$	Collinear	$Cmcm$	B_{2u}	**0**	α^-	–/–
0.331	$Fe_2Mo_3O_8$	$P6_3mc$	$P6'_3m'c$	Collinear	$P6_3mc$	B_1	**0**		g/–
0.332	$Co_2Mo_3O_8$	$P6_3mc$	$P6'_3m'c$	Collinear	$P6_3mc$	B_1	**0**		g/–
0.333	$Mn_2Mo_3O_8$	$P6_3mc$	$P6_3m'c'$	Collinear	$P6_3mc$	A_1	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, α^-	s/–
0.334	CoF_3	$R\bar{3}c$	$R\bar{3}c$	Collinear	$R\bar{3}c$	A_{2g}	**0**	Σ^-	g/–
0.335	FeF_3	$R\bar{3}c$	$C2'/c'$	Collinear	$R\bar{3}c$	A_{2g}	**0**	Σ^-	g/–
0.336	$NdFeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.337	$NdFeO_3$	$Pnma$	$P2'_1/c'$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.338	$Co_2Mo_3O_8$	$P6_3mc$	$P6'_3m'c$	Collinear	$P6_3mc$	B_1	**0**		g/–
0.339	$Nd_2Hf_2O_7$	$Fd\bar{3}m$	$Fd\bar{3}m'$	Non-coplanar	$Fd\bar{3}m$	T_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.340	$Nd_2Zr_2O_7$	$Fd\bar{3}m$	$Fd\bar{3}m'$	Non-coplanar	$Fd\bar{3}m$	T_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.341	$DyGe_{1.75}$	$Cmmm$	$Cm'mm$	Collinear	$Cmmm$	B_{2u}	**0**	α^-	–/–
0.342	Tb_3Ge_5	$Fdd2$	$Fdd2$	Non-coplanar	$Fdd2$	$A_2 \oplus B_1 \oplus B_2$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	d/p
0.343	$TbGe_2$	$Cmmm$	$Cm'mm$	Collinear	$Cmmm$	B_{2u}	**0**	α^-	–/–
0.344	$ErGe_{1.83}$	$Cmc2_1$	$Cmc2_1$	Collinear	$Cmc2_1$	B_2	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, α^-	d/–
0.345	Tb_2C_3	$I\bar{4}3d$	$Fd'd2'$	Collinear	$Fdd2$	A_2	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.346	Tb_2ReC_2	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.347	Er_2ReC_2	$Pnma$	$P2'_1/c$	Non-coplanar	$Pnma$	$B_{1u} \oplus 2B_{3u}$	**0**	Σ^+, α^-	–/–
0.348	Bi_2CuO_4	$P4/ncc$	$P4/n'c'c'$	Collinear	$P4/ncc$	A_{2u}	**0**	α^-	–/–
0.349	Nd_2NiO_4	$P4_2/ncm$	$P4_2/nc'm'$	Non-coplanar	$P4_2/ncm$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
0.350	$TbAlO_3$	$Pnma$	$Pn'm'a'$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.351	$TbFeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.352	$TbFeO_3$	$Pnma$	$Pn'm'a$	Non-coplanar	$Pnma$	$A_g \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
0.353	$TbFeO_3$	$Pnma$	$P2'_12'_12_1$	Coplanar	$P2_12_12_1$	$B_2 \oplus B_3$	**0**	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	d/p

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.354	$TbCrO_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.355	$Mn_{2.85}Ga_{1.15}$	$P6_3/mmc$	$P6_3'/m'$	Coplanar	$P6_3/mmc$	E_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.356	$Mn_{2.85}Ga_{1.15}$	$I4/mmm$	$I4/mm'm'$	Collinear	$I4/mmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.357	$CaFe_5O_7$	$P2_1/m$	$P2_1/m$	Non-coplanar	$P2_1/m$	$A_g \oplus 2B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.358	$CaFe_5O_7$	$P2_1/m$	$P2_1'/m'$	Collinear	$P2_1/m$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.359	Mn_2ScSbO_6	$R3$	$P1$	Collinear	$R3$	A	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	s/–
0.360	Mn_2ScSbO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.361	Sr_3LiRuO_6	$R\bar{3}c$	$C2'/c'$	Collinear	$R\bar{3}c$	A_{2g}	**0**	Σ^-	g/–
0.362	$Rb_2FeCl_5(D_2O)$	$Pnma$	$Pn'm'a'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.363	$K_2FeCl_5(D_2O)$	$Pnma$	$Pn'm'a'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.364	$SrCr_2As_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.365	$BaCr_2As_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.366	$BaCrFeAs_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.367	$EuCr_2As_2$	$I4/mmm$	$I\bar{4}m'2'$	Collinear	$I\bar{4}m2$	A_1	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.368	(CH_3NH_3) $Co(COOH)_3$	$Pnma$	$Pn'ma'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.369	(CH_3NH_3) $Co(COOH)_3$	$P2_1/c$	$P2_1'/c'$	Non-coplanar	$P2_1/c$	$2A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.370	$NdMnO_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{1g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.371	$NdMnO_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{1g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.372	$DyCrO_4$	$I4_1/a$	$C2'/c$	Collinear	$I4_1/a$	B_u	**0**		–/–
0.373	$La_{0.75}Bi_{0.25}Fe_{0.5}$ $Cr_{0.5}O_3$	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.374	YNi_4Si	$Cmmm$	$Cmm'm'$	Collinear	$Cmmm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.375	La_2CoIrO_6	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.376	$LaCaFeO_4$	$Cmce$	$Cm'c'a$	Collinear	$Cmce$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.377	Mn_3Ge	$P6_3/mmc$	$Cm'cm'$	Coplanar	$P6_3/mmc$	E_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.378	UBi_2	$P4/nmm$	$P4/n'm'm'$	Collinear	$P4/nmm$	A_{2u}	**0**	α^-	–/–
0.379	$SmFeO_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.380	$SmFeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.381	$Co_6(OH)_3(TeO_3)_4$ $(OH)_{0.9}(H_2O)$	$P6_3mc$	$P6_3'mc'$	Non-coplanar	$P6_3mc$	$B_2 \oplus E_2$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^+$	d/p
0.382	$LiMnPO_4$	$Pnma$	$Pn'm'a'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.383	$LiCoPO_4$	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.384	$LiCoPO_4$	$Pnma$	$P2_1'/c$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.385	$LiCoPO_4$	$Pnma$	$P2_1/c'$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.386	Fe_3BO_5	$Pnma$	$Pnm'a$	Collinear	$Pnma$	B_{1u}	**0**	α^-	–/–
0.387	Fe_3BO_5	$Pnma$	$Pm'c2_1'$	Coplanar	$Pnma$	$A_g \oplus B_{1u}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-, \alpha^+$	s/p
0.388	$Co_3Al_2Si_3O_{12}$	$Ia\bar{3}d$	$I4_1/a'cd$	Non-coplanar	$I4_1/acd$	$A_{1u} \oplus E_u$	**0**	Σ^+, α^-	–/–
0.389	$Fe_{1.5}Mn_{1.5}BO_5$	$Pbam$	$Pbam$	Collinear	$Pbam$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.390	$Y_2SrCu_{0.6}Co_{1.4}O_{6.5}$	$Ibam$	$Ib'a'm$	Collinear	$Ibam$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.391	$Y_2SrCu_{0.6}Co_{1.4}O_{6.5}$	$Ibam$	$Ib'a'm$	Collinear	$Ibam$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.392	$Fe_3(PO_4)_2(OH)_2$	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.393	$Cu_4(OH)_6FBr$	$P6_3/m$	$P2_1'/m'$	Non-coplanar	$P2_1/m$	$2A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.394	$Cu_2CdB_2O_6$	$P2_1/c$	$P2_1/c'$	Coplanar	$P2_1/c$	$A_u \oplus B_u$	**0**	Σ^+, α^-	–/–
0.395	$MnPtGa$	$P6_3/mmc$	$Cm'c'm$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.396	$MnPtGa$	$P6_3/mmc$	$Cm'c'm$	Coplanar	$P6_3/mmc$	$A_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.397	$Mn_3Si_2Te_6$	$P\bar{3}1c$	$C2'/c'$	Collinear	$P\bar{3}1c$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.398	Ca_2RuO_4	$Pbca$	$Pbca$	Coplanar	$Pbca$	$B_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.399	$FeOOH$	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.400	$Sr_2Fe_{1.9}Co_{0.1}O_{5.5}$	$Cmmm$	$Cm'm'm'$	Collinear	$Cmmm$	B_{3u}	**0**	α^-	–/–
0.401	$Sr_4Fe_4O_{11}$	$Cmmm$	$Cm'm'm'$	Collinear	$Cmmm$	B_{3u}	**0**	α^-	–/–
0.402	$Sr_4Fe_4O_{11}$	$Cmmm$	$Cmm'm'$	Collinear	$Cmmm$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.403	$NdCo_2$	$Imma$	$Imm'a'$	Collinear	$Imma$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.404	Sr_3NaRuO_6	$R\bar{3}c$	$C2'/c'$	Collinear	$R\bar{3}c$	A_{2g}	$\mathbf{0}$	Σ^-	g/–
0.405	$CsCoF_4$	$I\bar{4}c2$	$I\bar{4}'$	Collinear	$I\bar{4}$	B	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-, α^-	d/–
0.406	$GdNiSi_3$	$Cmmm$	$Cmmm'$	Collinear	$Cmmm$	B_{2u}	$\mathbf{0}$	α^-	–/–
0.407	NdSi	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.408	PrSi	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.409	TmNi	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.410	$GdAlO_3$	$Pnma$	$Pn'm'a'$	Collinear	$Pnma$	B_{1u}	$\mathbf{0}$	α^-	–/–
0.411	Tb_5Ge_4	$Pnma$	$Pnm'a$	Non-coplanar	$Pnma$	$A_u \oplus B_{1u} \oplus B_{3u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.412	Tb_5Ge_4	$Pnma$	$Pnm'a$	Non-coplanar	$Pnma$	$A_u \oplus B_{1u} \oplus B_{3u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.413	UGeSe	$I4/mmm$	$I4/m'm'm'$	Collinear	$I4/mmm$	A_{2u}	$\mathbf{0}$	α^-	–/–
0.414	$AlFe_2B_2$	$Cmmm$	$Cmm'm'$	Collinear	$Cmmm$	A_g	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.415	$EuFe_2P_2$	$I4/mmm$	$C2'/m'$	Collinear	$I4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.416	$LaCrO_3$	$R\bar{3}c$	$R\bar{3}c$	Collinear	$R\bar{3}c$	A_{2g}	$\mathbf{0}$	Σ^-	g/–
0.417	$LaCrO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.418	$K_{0.8}Fe_{1.8}Se_2$	$I4/m$	$I4/m'$	Collinear	$I4/m$	A_u	$\mathbf{0}$	α^-	–/–
0.419	$Er_2Ge_2O_7$	$P4_12_12$	$P4_1'2_12'$	Non-coplanar	$P4_12_12$	$B_2 \oplus E$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	d/p
0.420	Sr_2LuRuO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.421	$EuMnSb_2$	$Pnma$	$Pn'm'a'$	Collinear	$Pnma$	B_{3u}	$\mathbf{0}$	α^-	–/–
0.422	$EuMnSb_2$	$Pnma$	$P2_1/m'$	Coplanar	$Pnma$	$2B_{3u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.423	$EuMnSb_2$	$Pnma$	$Pn'm'a'$	Collinear	$Pnma$	B_{3u}	$\mathbf{0}$	α^-	–/–
0.424	$EuMnSb_2$	$Pnma$	$Pn'm'a'$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.425	$Na_2CoP_2O_7$	$Pna2_1$	$Pn'a2_1'$	Coplanar	$Pna2_1$	$A_2 \oplus B_2$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	d/p
0.426	$EuMnBi_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	$\mathbf{0}$		–/–
0.427	$Sm_2Ti_2O_7$	$Fd\bar{3}m$	$Fd\bar{3}m'$	Non-coplanar	$Fd\bar{3}m$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
0.428	$BaMn_2Si_2O_7$	$C2/c$	$C2/c$	Collinear	$C2/c$	A_g	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.429	$CaCr_{0.86}Fe_{3.14}As_3$	$Pnma$	$Pn'ma$	Collinear	$Pnma$	B_{1u}	$\mathbf{0}$	α^-	–/–
0.430	Yb_3Pt_4	$R\bar{3}$	$R\bar{3}'$	Non-coplanar	$R\bar{3}$	$A_u \oplus E_u$	$\mathbf{0}$	Σ^+, α^-	–/–
0.431	CuB_2O_4	$I\bar{4}2d$	$P1$	Coplanar	Cc	$2A''$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	d/p
0.432	$KMnF_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.433	$KMnF_3$	$I4/mcm$	$I4/mcm$	Collinear	$I4/mcm$	A_{2g}	$\mathbf{0}$	Σ^-	g/–
0.434	K_2ReI_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.435	$Pb_5Fe_3TiO_{11}Cl$	$P4/mmm$	P_Bmma	Collinear	$P4/mmm$	M_3^-	M		–/–
0.436	$TbNi_4Si$	$Cmmm$	$Cmm'm'$	Collinear	$Cmmm$	A_g	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.437	Ho_3NiGe_2	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.438	Pr_3CoGe_2	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.439	Tb_3NiGe_2	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	A_g	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.440	$SrCuTe_2O_6$	$P4_132$	$P4_132$	Non-coplanar	$P4_132$	T_1	$\mathbf{0}$	Σ^-, Σ^+, α^-, α^+	g/p
0.441	$Fe_4Nb_2O_9$	$P\bar{3}c1$	$C2/c'$	Coplanar	$P\bar{3}c1$	$A_{1u} \oplus A_{2u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.442	$Fe_4Nb_2O_9$	$C2/c$	$C2/c'$	Collinear	$C2/c$	B_u	$\mathbf{0}$	α^-	–/–
0.443	$Fe_4Nb_2O_9$	$P\bar{3}c1$	$C2/c'$	Collinear	$P\bar{3}c1$	A_{2u}	$\mathbf{0}$	α^-	–/–
0.444	$YbCl_3$	$C2/m$	$C2'/m$	Collinear	$C2/m$	A_u	$\mathbf{0}$	α^-	–/–
0.445	MnCoGe	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	A_g	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.446	$MnCoGeB_{0.05}$	$P6_3/mmc$	$Cm'c'm$	Coplanar	$P6_3/mmc$	$A_{1g} \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.447	$MnCoGeB_{0.05}$	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.448	Ce_4Ge_3	$I\bar{4}3d$	$I\bar{4}2d$	Collinear	$I\bar{4}2d$	A_2	$\mathbf{0}$	Σ^-	g/–
0.449	Tb_2Pt	$Pnma$	$P2_1'/m'$	Coplanar	$P2_1/m$	$2A_g$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.450	Nd_5Ge_4	$Pnma$	$Pnm'a'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
0.451	DyRuAsO	$Pmmn$	$Pm'mn$	Collinear	$Pmmn$	B_{1u}	$\mathbf{0}$	α^-	–/–
0.452	TbRuAsO	$P4/nmm$	$Pm'mn$	Collinear	$P4/nmm$	A_{2u}	$\mathbf{0}$	α^-	–/–
0.453	$DyCoSi_2$	$Cmcm$	$Cm'cm$	Collinear	$Cmcm$	B_{2u}	$\mathbf{0}$	α^-	–/–
0.454	PrScSb	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
0.455	$RbFeO_2$	$Pbca$	$Pb'c'a'$	Collinear	$Pbca$	B_{1u}	$\mathbf{0}$	α^-	–/–
0.456	$RbFeO_2$	$Fd\bar{3}m$	$I4_1'/a'm'd$	Collinear	$Fd\bar{3}m$	A_{2u}	$\mathbf{0}$		–/–
0.457	$CsFeO_2$	$Pbca$	$Pb'c'a'$	Collinear	$Pbca$	B_{1u}	$\mathbf{0}$	α^-	–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.458	$CsFeO_2$	$Fd\bar{3}m$	$I4_1'/a'm'd$	Collinear	$Fd\bar{3}m$	A_{2u}	**0**		–/–
0.459	$KFeO_2$	$Pbca$	$Pb'ca$	Collinear	$Pbca$	B_{1u}	**0**	α^-	–/–
0.460	$KFeO_2$	$Pbca$	$Pb'ca$	Collinear	$Pbca$	B_{1u}	**0**	α^-	–/–
0.461	$CoRh_2O_4$	$Fd\bar{3}m$	$I4_1'/a'm'd$	Collinear	$Fd\bar{3}m$	A_{2u}	**0**		–/–
0.462	$MnAl_2O_4$	$Fd\bar{3}m$	$I4_1'/a'm'd$	Collinear	$Fd\bar{3}m$	A_{2u}	**0**		–/–
0.463	Co_3O_4	$Fd\bar{3}m$	$I4_1'/a'm'd$	Collinear	$Fd\bar{3}m$	A_{2u}	**0**		–/–
0.464	$BaMn_2P_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.465	$HoCr_2Si_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.466	$ThCr_2Si_2$	$I4/mmm$	$Im'mm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.467	$TbPO_4$	$I4_1/amd$	$I4_1'/a'm'd$	Collinear	$I4_1/amd$	B_{2u}	**0**		–/–
0.468	ErB_4	$P4/mbm$	$Pb'am$	Collinear	$Pbam$	B_{2u}	**0**	α^-	–/–
0.469	TbB_4	$P4/mbm$	$Pb'a'm'$	Collinear	$Pbam$	B_{2u}	**0**	α^-	–/–
0.470	$BaMn_2Sb_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.471	$Ba_2Mn_3Sb_2O_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.472	$LaMn_2Si_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.473	$LaMn_2Si_2$	$I4/mmm$	$Im'm2'$	Coplanar	$I4/mmm$	$A_{1g} \oplus B_{2u}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/f
0.474	$EuMn_2Ge_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.475	Sr_2TbIrO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.476	$Cs_2[FeCl_5(H_2O)]$	$C2/c$	$C2'/c$	Collinear	$C2/c$	B_u	**0**	α^-	–/–
0.477	$Mn_4Ta_2O_9$	$P\bar{3}c1$	$P\bar{3}'c'1$	Collinear	$P\bar{3}c1$	A_{2u}	**0**	α^-	–/–
0.478	$SmCrO_3$	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.479	$SmCrO_3$	$Pnma$	$Pn'ma'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.480	HoNi	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.481	HoNi	$Pnma$	$P2_1'/c'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.482	$SrMn_2As_2$	$P\bar{3}m1$	$C2'/m$	Collinear	$P\bar{3}m1$	A_{2u}	**0**	α^-	–/–
0.483	$YbMn_2Sb_2$	$P\bar{3}m1$	$P\bar{1}'$	Collinear	$P\bar{3}m1$	A_{2u}	**0**	α^-	–/–
0.484	U_2N_2S	$P\bar{3}m1$	$P\bar{3}'m'1$	Collinear	$P\bar{3}m1$	A_{2u}	**0**	α^-	–/–
0.485	U_2N_2Se	$P\bar{3}m1$	$P\bar{3}'m'1$	Collinear	$P\bar{3}m1$	A_{2u}	**0**	α^-	–/–
0.486	$ErCr_2Si_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.487	$ErCr_2Si_2$	$I4/mmm$	$Im'm'2$	Coplanar	$I4/mmm$	$A_{1g} \oplus B_{2u}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/f
0.488	$YbMnO_3$	$P6_3cm$	$P6_3'c'm$	Non-coplanar	$P6_3cm$	$B_1 \oplus E_2$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^+$	d/p
0.489	$YbMnO_3$	$P6_3cm$	$P6_3'c'm$	Non-coplanar	$P6_3cm$	$B_1 \oplus E_2$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^+$	d/p
0.490	$YbMnO_3$	$P6_3cm$	$P6_3c'm'$	Non-coplanar	$P6_3cm$	$A_1 \oplus E_1$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.491	NdB_4	$P4/mbm$	$P4/m'$	Coplanar	$P4/mbm$	E_u	**0**	Σ^+, α^-	–/–
0.492	NdB_4	$P4/mbm$	$P2_1'/c$	Coplanar	$Pbam$	$B_{2u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.493	$Ho(Co_{0.667}Ga_{0.333})_2$	$P6_3/mmc$	$C2'/c'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.494	$Er(Co_{0.667}Ga_{0.333})_2$	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.495	$LaMn_2Si_2$	$I4/mmm$	$Im'm2'$	Coplanar	$I4/mmm$	$A_{1g} \oplus B_{2u}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/f
0.496	$LaMn_2Si_2$	$I4/mmm$	$Im'm2'$	Coplanar	$I4/mmm$	$A_{1g} \oplus B_{2u}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/f
0.497	$LaMn_2Si_2$	$I4/mmm$	$Im'm2'$	Coplanar	$I4/mmm$	$A_{1g} \oplus B_{2u}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/f
0.498	$LaMn_2Si_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.499	UCr_2Si_2C	$P4/mmm$	$Pm'm'm$	Collinear	$P4/mmm$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.500	$Ca_2FeMn_{0.5}W_{0.5}O_6$	$P2_1/c$	$P2_1'/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.501	$LiFe_2F_6$	$P4_2/mnm$	$P4_2'/mnm'$	Collinear	$P4_2/mnm$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.502	$La_2Ni_{1.19}Os_{0.81}O_6$	$P2_1/c$	$P2_1'/c'$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.503	$K_{1.62}Fe_4O_{6.62}(OH)_{0.38}$	$P\bar{3}1c$	$P\bar{3}1c$	Collinear	$P\bar{3}1c$	A_{2g}	**0**	Σ^-	g/–
0.504	$NaCrSi_2O_6$	$C2/c$	$P\bar{1}'$	Collinear	$C2/c$	A_u	**0**	α^-	–/–
0.505	$Pb_2VO(PO_4)_2$	$P2_1/c$	$P2_1/c'$	Collinear	$P2_1/c$	A_u	**0**	α^-	–/–
0.506	$Cs_2Cu_3SnF_{12}$	$P2_1/c$	$P2_1'/c'$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.507	$Mn_4Nb_2O_9$	$P\bar{3}c1$	$P\bar{3}'c'1$	Collinear	$P\bar{3}c1$	A_{2u}	**0**	α^-	–/–
0.508	$FeMnO_3$	$Ia\bar{3}$	$Ib'c'a$	Collinear	$Ia\bar{3}$	A_g	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.509	$BaFe_{12}O_{19}$	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.510	Mn_2NiReO_6	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$2B_g$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.511	$Co_4Ta_2O_9$	$P\bar{3}c1$	$C2'/c$	Coplanar	$P\bar{3}c1$	$A_{1u} \oplus A_{2u}$	**0**	Σ^+, α^-	–/–
0.512	Mn_3As_2	$C2/m$	$C2/m$	Collinear	$C2/m$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.513	$YRuO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.514	$CoFe_3O_5$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.515	$CoFe_3O_5$	$Cmcm$	$P2_1'/m'$	Coplanar	$Cmcm$	$A_g \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.516	$BaMg_2Fe_{16}O_{27}$	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.517	$BaCo_2Fe_{16}O_{27}$	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.518	$TbCr_2Si_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.519	$HoCr_2Si_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	**0**		–/–
0.520	$TbCoO_3$	$Pnma$	$Pnm'a$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.521	$DyCoO_3$	$Pnma$	$Pn'm'a'$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.522	$La_2O_3FeMnSe_2$	$I4/mmm$	$Im'm'm$	Collinear	$I4/mmm$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.523	$CaMn_2Sb_2$	$P\bar{3}m1$	$P\bar{1}'$	Collinear	$P\bar{3}m1$	A_{2u}	**0**	α^-	–/–
0.524	$MnPSe_3$	$R\bar{3}$	$P\bar{1}'$	Collinear	$R\bar{3}$	A_u	**0**	α^-	–/–
0.525	$NaCeO_2$	$I4_1/amd$	$I4_1'/a'm'd$	Collinear	$I4_1/amd$	B_{2u}	**0**		–/–
0.526	$Mn_4Ta_2O_9$	$P\bar{3}c1$	$P\bar{3}'c'1$	Collinear	$P\bar{3}c1$	A_{2u}	**0**	α^-	–/–
0.527	$Er_2Si_2O_7$	$C2/m$	$C2'/m$	Collinear	$C2/m$	A_u	**0**	α^-	–/–
0.528	$CrSb$	$P6_3/mmc$	$P6_3'/m'm'c$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.529	$Co_4Nb_2O_9$	$P\bar{3}c1$	$C2/c'$	Coplanar	$P\bar{3}c1$	$A_{1u} \oplus A_{2u}$	**0**	Σ^+, α^-	–/–
0.530	$SrCuTe_2O_6$	$P4_132$	$P4_132$	Non-coplanar	$P4_132$	T_1	**0**	$\Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	g/p
0.531	$Sr_{0.7}Tb_{0.3}CoO_{2.9}$	$I4/mmm$	$I4'/mmm'$	Collinear	$I4/mmm$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.532	$Sr_{0.7}Ho_{0.3}CoO_{2.7}$	$I4/mmm$	$I4'/mmm'$	Collinear	$I4/mmm$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.533	$Sr_{0.7}Er_{0.3}CoO_{2.8}$	$I4/mmm$	$I4'/mmm'$	Collinear	$I4/mmm$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.534	$Tb_{0.55}Sr_{0.45}MnO_3$	$Pnma$	$Pnm'a'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.535	$Tb_{0.55}Sr_{0.45}MnO_3$	$Pnma$	$Pnm'a'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.536	$Tb_{0.55}Sr_{0.45}MnO_3$	$Pnma$	$Pnm'a'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.537	$CaMn_{0.7}Co_{1.3}ReO_6$	$P4_2/n$	$P4_2/n$	Collinear	$P4_2/n$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.538	$CaMn_{1.2}Ni_{0.8}ReO_6$	$P4_2/n$	$P4_2/n$	Collinear	$P4_2/n$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.539	$Mn_2Fe_{0.8}Mo_{1.2}O_6$	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.540	$Mn_2Fe_{0.8}Mo_{1.2}O_6$	$P2_1/c$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.541	Mn_2FeReO_6	$P2_1/c$	$P2_1'/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.542	Mn_2FeReO_6	$P2_1/c$	$P\bar{1}$	Collinear	$P\bar{1}$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.543	Mn_2FeReO_6	$P2_1/c$	$P\bar{1}$	Collinear	$P\bar{1}$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.544	Mn_2FeReO_6	$P2_1/c$	$P\bar{1}$	Non-coplanar	$P\bar{1}$	$3A_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.545	Mn_2FeReO_6	$P2_1/c$	$P\bar{1}$	Non-coplanar	$P\bar{1}$	$3A_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.546	Mn_2FeReO_6	$P2_1/c$	$P2_1'/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.547	Mn_2FeReO_6	$P2_1/c$	$P2_1'/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.548	Mn_2FeReO_6	$P2_1/c$	$P\bar{1}$	Coplanar	$P\bar{1}$	$2A_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.549	Mn_2FeReO_6	$P2_1/c$	$P\bar{1}$	Coplanar	$P\bar{1}$	$2A_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.550	Mn_3ReO_6	$P2_1/c$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2V_1^-$	$(\frac{1}{2}, \frac{1}{2}, 0)$	Σ^+	–/–
0.551	Mn_3ReO_6	$P2_1/c$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2V_1^-$	$(\frac{1}{2}, \frac{1}{2}, 0)$	Σ^+	–/–
0.552	Pb_2MnO_4	$P\bar{4}2_1c$	$P\bar{4}'2_1c'$	Coplanar	$P\bar{4}2_1c$	E	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-$	d/f
0.553	K_2ReI_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.554	Co_2MnSi	$Fm\bar{3}m$	$I4/mm'm'$	Collinear	$Fm\bar{3}m$	A_{1g}	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.555	$Ho_{0.05}Bi_{0.95}FeO_3$	$R3c$	$R3c$	Collinear	$R3c$	A_2	**0**	Σ^-	g/–
0.556	$Ho_{0.1}Bi_{0.9}FeO_3$	$R3c$	$R3c$	Collinear	$R3c$	A_2	**0**	Σ^-	g/–
0.557	$Ho_{0.15}Bi_{0.85}FeO_3$	$R3c$	Cc	Coplanar	$R3c$	$A_1 \oplus A_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-$	s/f
0.558	$Ho_{0.2}Bi_{0.8}FeO_3$	$R3c$	Cc	Coplanar	$R3c$	$A_1 \oplus A_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-$	s/f
0.559	$Ho_{0.15}Bi_{0.85}FeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.560	$Ho_{0.2}Bi_{0.8}FeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.561	$NdNiGe_2$	$Cmcm$	$Cm'c'm$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.562	$Ce_2Ni_3Ge_5$	$Ibam$	P_Ibcn	Collinear	$Ibam$	X_1^+	$(0, 1, 0)$		–/–
0.563	$Ce_2Ni_3Ge_5$	$Ibam$	P_Iccn	Collinear	$Ibam$	X_4^-	$(0, 1, 0)$		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.564	$U_2Rh_3Si_5$	$C2/c$	P_C2/c	Coplanar	$C2/c$	$Y_1^- \oplus Y_2^-$	$(0,1,0)$	Σ^+	–/–
0.565	$Ce_2Ni_3Ge_5$	$Ibam$	P_Ibcn	Coplanar	$Ibam$	$X_1^+ \oplus X_2^+$	$(0,1,0)$	Σ^+	–/–
0.566	$TbNiGe_2$	$Cmcm$	$Cm'cm$	Collinear	$Cmcm$	B_{2u}	$\mathbf{0}$	α^-	–/–
0.567	$HoNi_{0.64}Ge_2$	$Cmcm$	$Cm'cm$	Collinear	$Cmcm$	B_{2u}	$\mathbf{0}$	α^-	–/–
0.568	$TbNi_{0.4}Ge_2$	$Cmcm$	$Cm'cm$	Collinear	$Cmcm$	B_{2u}	$\mathbf{0}$	α^-	–/–
0.569	$TbCu_{0.4}Ge_2$	$Cmcm$	$Cm'cm$	Collinear	$Cmcm$	B_{2u}	$\mathbf{0}$	α^-	–/–
0.570	$Li_{0.5}FeCr_{1.5}O_4$	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.571	$CoSO_4$	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.572	Na_2NiCrF_7	$Imma$	$Im'm'a$	Non-coplanar	$Imma$	$A_g \oplus B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.573	Na_2NiCrF_7	$Imma$	$Im'm'a$	Non-coplanar	$Imma$	$A_g \oplus B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.574	$MnFeF_5(H_2O)_2$	$Imm2$	$C2'$	Non-coplanar	$C2$	$2A \oplus B$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.575	$ZnFeF_5(H_2O)_2$	$Imm2$	$Imm2$	Collinear	$Imm2$	B_1	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.576	Cr_2F_5	$C2/c$	$C2/c$	Non-coplanar	$C2/c$	$A_g \oplus 2B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.577	$BaMnFeF_7$	$P2_1/c$	$P2_1'/c'$	Coplanar	$P2_1/c$	$2A_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.578	$NaBaFe_2F_9$	$P2_1/c$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.579	Na_2NiFeF_7	$Imma$	$Imm'a'$	Coplanar	$Imma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.580	Na_2NiFeF_7	$Imma$	$Imm'a'$	Coplanar	$Imma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.581	FeF_3	$R\bar{3}c$	$C2'/c'$	Collinear	$R\bar{3}c$	A_{2g}	$\mathbf{0}$	Σ^-	g/–
0.582	$Fe_3F_8(H_2O)_2$	$C2/m$	$C2'/m'$	Collinear	$C2/m$	B_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.583	$Fe_2F_5(H_2O)_2$	$Imma$	$Imm'a'$	Coplanar	$Imma$	$A_g \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.584	$Fe_2F_5(H_2O)_2$	$Imma$	$C2'/c'$	Non-coplanar	$C2/c$	$2A_g \oplus B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.585	$YbCl_3$	$C2/m$	$C2'/m$	Collinear	$C2/m$	A_u	$\mathbf{0}$	α^-	–/–
0.586	$YCrO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.587	$TmCrO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.588	$PrCrO_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.589	$NdCrO_3$	$Pnma$	$P2_1/m$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.590	$ErCrO_3$	$Pnma$	$P2_1/m$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.591	$ErCrO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.592	$DyCrO_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.593	UPSe	$P4/nmm$	$P4/nm'm'$	Collinear	$P4/nmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.594	UAsS	$P4/nmm$	$P4/nm'm'$	Collinear	$P4/nmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.595	UPTe	$I4/mmm$	$I4/mm'm'$	Collinear	$I4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.596	UAsTe	$I4/mmm$	$I4/mm'm'$	Collinear	$I4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.597	$MnBi_8Te_{13}$	$R\bar{3}m$	$R\bar{3}m'$	Collinear	$R\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.598	$AlCr_2$	$I4/mmm$	P_A2_1/c	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
0.599	CaMnSi	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.600	CaMnSi	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.601	CaMnGe	$P4/nmm$	$P2_1/m'$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.602	CaMnGe	$P4/nmm$	$P2_1/m'$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.603	$CaMn_2Ge_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	$\mathbf{0}$		–/–
0.604	$CaMn_2Ge_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	$\mathbf{0}$		–/–
0.605	$BaMn_2Ge_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	$\mathbf{0}$		–/–
0.606	$BaMn_2Ge_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	$\mathbf{0}$		–/–
0.607	RuO_2	$P4_2/mnm$	$P4_2'/mnm'$	Collinear	$P4_2/mnm$	B_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.608	$PrMnO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{1g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.609	$NdMnO_3$	$Pnma$	$P2_1/m$	Collinear	$Pnma$	B_{1g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.610	$Pr_{0.95}K_{0.05}MnO_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{1g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.611	$BaMnSb_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	$\mathbf{0}$		–/–
0.612	Cu_2OSO_4	$C2/m$	$C2/m$	Coplanar	$C2/m$	$A_g \oplus B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.613	$FeCr_2S_4$	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.614	$FeCr_2S_4$	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.615	$FeCr_2S_4$	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.616	HoB_2	$P6/mmm$	$C2'/m'$	Collinear	$P6/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.617	KMnSb	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.618	KMnBi	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.619	LaMnAsO	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.620	NdMnAsO	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.621	NdMnAsO	$P4/nmm$	$Pm'mn$	Collinear	$Pmmn$	B_{1u}	$\mathbf{0}$	α^-	–/–
0.622	NdMnAsO	$P4/nmm$	$Pm'mn$	Collinear	$Pmmn$	B_{1u}	$\mathbf{0}$	α^-	–/–
0.623	NdMnAsO	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.624	LaMnAsO	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.625	U_2Pd_2In	$P4/mbm$	$P4'/m'bm'$	Coplanar	$P4/mbm$	E_u	$\mathbf{0}$	Σ^+, α^-	–/–
0.626	NaMnP	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.627	NaMnP	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.628	NaMnP	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.629	NaMnAs	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.630	NaMnAs	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.631	NaMnSb	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.632	NaMnSb	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.633	$KFeS_2$	$C2/c$	$C2'/c$	Collinear	$C2/c$	A_u	$\mathbf{0}$	α^-	–/–
0.634	NaMnBi	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.635	NaMnBi	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.636	$RbFeS_2$	$C2/c$	$C2'/c$	Collinear	$C2/c$	A_u	$\mathbf{0}$	α^-	–/–
0.637	$KFeSe_2$	$C2/c$	$C2/c'$	Collinear	$C2/c$	A_u	$\mathbf{0}$	α^-	–/–
0.638	$RbFeSe_2$	$C2/c$	$C2/c'$	Collinear	$C2/c$	A_u	$\mathbf{0}$	α^-	–/–
0.639	Mn_2Au	$I4/mmm$	$Im'mm$	Collinear	$I4/mmm$	A_{2u}	$\mathbf{0}$	α^-	–/–
0.640	Mn_2Au	$I4/mmm$	$Im'mm$	Collinear	$I4/mmm$	A_{2u}	$\mathbf{0}$	α^-	–/–
0.641	Mn_3Ga	$I4/mmm$	$C2'/m'$	Coplanar	$I4/mmm$	$2A_{1g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.642	$LaMnO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{1g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.643	$La_{0.95}Ca_{0.05}MnO_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{1g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.644	$La_{0.95}Ba_{0.05}MnO_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{1g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.645	$La_{0.95}Ba_{0.05}Mn_{0.95}Ti_{0.05}O_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{1g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–
0.646	$La_{0.90}Ba_{0.10}Mn_{0.90}Ti_{0.10}O_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{1g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.647	$La_{0.875}Ba_{0.125}Mn_{0.875}Ti_{0.125}O_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{1g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.648	$(Ho_{0.8}Mn_{0.2})MnO_3$	$Pnma$	$Pnm'a'$	Collinear	$Pnma$	A_g	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.649	$(Ho_{0.8}Mn_{0.2})MnO_3$	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.650	$Er_2Si_2O_7$	$C2/m$	$C2'/m$	Collinear	$C2/m$	A_u	$\mathbf{0}$	α^-	–/–
0.651	$Er_3Cu_4Sn_4$	$C2/m$	C_c2/m	Collinear	$C2/m$	M_2^-	$(1, 0, -\frac{1}{2})$		–/–
0.652	$HoMnO_3$	$P6_3cm$	$P6_3'cm'$	Non-coplanar	$P6_3cm$	$B_2 \oplus E_2$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^+	d/p
0.653	$HoMn_{0.99}Fe_{0.01}O_3$	$P6_3cm$	$P6_3'cm'$	Non-coplanar	$P6_3cm$	$B_2 \oplus E_2$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^+	d/p
0.654	$HoMn_{0.95}Fe_{0.05}O_3$	$P6_3cm$	$P6_3'cm'$	Non-coplanar	$P6_3cm$	$B_2 \oplus E_2$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^+	d/p
0.655	$HoMn_{0.9}Fe_{0.1}O_3$	$P6_3cm$	$P6_3'cm'$	Non-coplanar	$P6_3cm$	$B_2 \oplus E_2$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^+	d/p
0.656	$NdMn_2Ge_2$	$I4/mmm$	$Im'm2'$	Coplanar	$I4/mmm$	$A_{1g} \oplus B_{2u}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/f
0.657	$PrMn_2Ge_2$	$I4/mmm$	$Im'm2'$	Coplanar	$I4/mmm$	$A_{1g} \oplus B_{2u}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/f
0.658	$BaCuTe_2O_6$	$P4_132$	$P4_1'32'$	Non-coplanar	$P4_132$	T_2	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^+	d/p
0.659	$NdMn_{0.8}Fe_{0.2}O_3$	$Pnma$	$Pn'ma'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
0.660	$NdMn_{0.8}Fe_{0.2}O_3$	$Pnma$	$Pn'ma'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
0.661	$(Lu_{0.6}Mn_{0.4})MnO_3$	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.662	Mn_3Sn_2	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	A_g	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
0.663	Mn_3Sn_2	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{1g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.664	Mn_3Sn_2	$Pnma$	$P2_1'/c'$	Coplanar	$Pnma$	$A_g \oplus B_{1g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
0.665	CeMnSbO	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.666	CeMnSbO	$P4/nmm$	$Pm'mn$	Collinear	$Pmmn$	B_{1u}	$\mathbf{0}$	α^-	–/–
0.667	LaMnSbO	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
0.668	PrMnSbO	$Pmmn$	$Pm'mn$	Collinear	$Pmmn$	B_{1u}	**0**	α^-	–/–
0.669	Sr_2YbRuO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.670	Sr_2YbRuO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.671	Sr_2TmRuO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.672	$CaCu_3Fe_2Sb_2O_{12}$	$Pn\bar{3}$	$Pn'n'n$	Collinear	$Pn\bar{3}$	A_g	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.673	$MnFe_4Si_3$	$P6_3/mcm$	$P6_3/mc'm'$	Collinear	$P6_3/mcm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.674	$MnFe_4Si_3$	$P6_3/mcm$	$P6_3/mc'm'$	Collinear	$P6_3/mcm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.675	$MnFe_4Si_3$	$P6_3/mcm$	$P6_3/mc'm'$	Collinear	$P6_3/mcm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.676	$Nd_{0.95}Sr_{0.05}CrO_3$	$Pnma$	$Pnma$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.677	$Nd_{0.9}Sr_{0.1}CrO_3$	$Pnma$	$Pnma$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.678	$Nd_{0.85}Sr_{0.15}CrO_3$	$Pnma$	$Pnma$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.679	$TbCr_{0.5}Mn_{0.5}O_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.680	$Bi_{0.8}La_{0.2}Fe_{0.5}Mn_{0.5}O_3$	$Imma$	$Imm'a'$	Collinear	$Imma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.681	Ce_4Sb_3	$I\bar{4}3d$	$I\bar{4}'2d'$	Collinear	$I\bar{4}2d$	B_2	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.682	Ca_2FeOsO_6	$P2_1/c$	$P2_1'/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.683	$SrCaFeOsO_6$	$P2_1/c$	$P2_1'/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.684	TbPt	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.685	ErPt	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.686	HoPt	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.687	DyPt	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.688	TmPt	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.689	PrPt	$Cmcm$	$Cm'c'm$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.690	NdPt	$Cmcm$	$C2'/c'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.691	$CaCo_{1.86}As_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0, 0, 1)$		–/–
0.692	$Ba_4Ru_3O_{10}$	$Cmce$	$Cm'ca$	Collinear	$Cmce$	B_{1u}	**0**	α^-	–/–
0.693	$Ba_4Ru_3O_{10}$	$Cmce$	$Cmc'a$	Collinear	$Cmce$	B_{1u}	**0**	α^-	–/–
0.694	Bi_2CuO_4	$P4/ncc$	$P4/n'c'c'$	Collinear	$P4/ncc$	A_{2u}	**0**	α^-	–/–
0.695	Bi_2CuO_4	$P4/ncc$	$Pc'cn$	Collinear	$P4/ncc$	A_{2u}	**0**	α^-	–/–
0.696	$SmCrO_3$	$Pnma$	$Pn'ma'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.697	$SmCrO_3$	$Pnma$	$Pn'm'a$	Non-coplanar	$Pnma$	$A_g \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.698	$SmCrO_3$	$Pnma$	$Pbn'm'$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.699	$LiMn_6Sn_6$	$P6/mmm$	$Cmm'm'$	Collinear	$P6/mmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.700	$TbMn_6Sn_6$	$P6/mmm$	$P6/mm'm'$	Collinear	$P6/mmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.701	$TbMn_6Sn_6$	$P6/mmm$	$P6/mm'm'$	Collinear	$P6/mmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.702	$TbMn_6Sn_6$	$P6/mmm$	$C2'/m'$	Collinear	$P6/mmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.703	$HoMn_6Sn_6$	$P6/mmm$	$C2'/m'$	Collinear	$P6/mmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.704	$HoMn_6Sn_6$	$P6/mmm$	$C2'/m'$	Collinear	$P6/mmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.705	$HoMn_6Sn_6$	$P6/mmm$	$Cmm'm'$	Collinear	$P6/mmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.706	$Tb_2Ir_3Ga_9$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.707	$Tb_2Ir_3Ga_9$	$Cmcm$	$Cm'cm'$	Coplanar	$Cmcm$	$A_g \oplus B_{1g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.708	$CrNb_4S_8$	$P6_3/mmc$	$P6_3'/m'm'c$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.709	$MnNb_4S_8$	$P6_3/mmc$	$Cmc'm'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.710	$MnNb_3S_6$	$P6_322$	$C22'2_1'$	Collinear	$P6_322$	A_1	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.711	$MnTa_4S_8$	$P6_3/mmc$	$Cmc'm'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.712	VNb_3S_6	$P6_322$	$C2'2'2_1$	Collinear	$P6_322$	B_1	**0**		g/–
0.713	$NiFe_2O_4$	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.714	$Li_2Ni(SO_4)_2$	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.715	$HoCrWO_6$	$Pna2_1$	$Pna2_1$	Non-coplanar	$Pna2_1$	$A_2 \oplus B_1 \oplus B_2$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.716	$HoCrWO_6$	$Pna2_1$	$Pna2_1$	Coplanar	$Pna2_1$	$A_2 \oplus B_1$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.717	$Pr_{0.5}Sr_{0.4}Ba_{0.1}CoO_3$	$Imma$	$Im'm'a$	Collinear	$Imma$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.718	$Pr_{0.5}Sr_{0.4}Ca_{0.1}CoO_3$	$I4/mcm$	$Fm'm'm$	Collinear	$I4/mcm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.719	$Yb_{0.42}Sc_{0.58}FeO_3$	$P6_3cm$	$P6_3c'm'$	Non-coplanar	$P6_3cm$	$A_1 \oplus E_1$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.720	$Yb_{0.42}Sc_{0.58}FeO_3$	$P6_3cm$	$P6_3$	Non-coplanar	$P6_3cm$	$A_1 \oplus E_1$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.721	$Yb_{0.42}Sc_{0.58}FeO_3$	$P6_3cm$	$P6_3$	Non-coplanar	$P6_3cm$	$A_1 \oplus E_1$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.722	$Mn_4Nb_2O_9$	Cc	Cc	Collinear	Cc	A''	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	$d/–$
0.723	$YbCl_3$	$C2/m$	$C2'/m$	Collinear	$C2/m$	A_u	$\mathbf{0}$	α^-	$–/–$
0.724	$BaCoSiO_4$	$P6_3$	$P6_3$	Coplanar	$P6_3$	E_1	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.725	Co_5TeO_8	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	$s/–$
0.726	$CsMn_2F_6$	$Pnma$	$Pnm'a'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	$s/–$
0.727	$CsMn_2F_6$	$Pnma$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	$s/–$
0.728	MoP_3SiO_{11}	$R\bar{3}c$	$C2/c'$	Collinear	$R\bar{3}c$	A_{2u}	$\mathbf{0}$	α^-	$–/–$
0.729	$ErNi_4B$	$P6/mmm$	$P6/mm'm'$	Collinear	$P6/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.730	$TbNi_4B$	$P6/mmm$	$C2'/m'$	Collinear	$P6/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.731	$HoNi_4B$	$P6/mmm$	$C2'/m'$	Collinear	$P6/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.732	$SrRuO_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.733	$AgRuO_3$	$R\bar{3}c$	$R\bar{3}'c'$	Collinear	$R\bar{3}c$	A_{2u}	$\mathbf{0}$	α^-	$–/–$
0.734	$Mn_3Ta_2O_8$	$I4_1/a$	$C2'/c$	Collinear	$I4_1/a$	B_u	$\mathbf{0}$		$–/–$
0.735	$LaBaMn_2O_5$	$P4/nmm$	$P4/nm'm'$	Collinear	$P4/nmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.736	$LaBaMn_2O_6$	$Pm\bar{3}m$	$P4/mm'm'$	Collinear	$Pm\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	$s/–$
0.737	$LaBaMn_2O_6$	$P4/mmm$	$P4/mm'm'$	Collinear	$P4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.738	$LaBaMn_2O_6$	$P4/mmm$	$P4/mm'm'$	Collinear	$P4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.739	$YBaMn_2O_5$	$P4/nmm$	$P4/nm'm'$	Collinear	$P4/nmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.740	$Dy_3Ga_5O_{12}$	$Ia\bar{3}d$	$Ia\bar{3}d'$	Non-coplanar	$Ia\bar{3}d$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.741	$Er_3Ga_5O_{12}$	$Ia\bar{3}d$	$Ia\bar{3}d'$	Non-coplanar	$Ia\bar{3}d$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.742	$Tb_3Ga_5O_{12}$	$Ia\bar{3}d$	$Ia\bar{3}d'$	Non-coplanar	$Ia\bar{3}d$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.743	$Ho_3Al_5O_{12}$	$Ia\bar{3}d$	$Ia\bar{3}d'$	Non-coplanar	$Ia\bar{3}d$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.744	$Tb_3Al_5O_{12}$	$Ia\bar{3}d$	$Ia\bar{3}d'$	Non-coplanar	$Ia\bar{3}d$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.745	$Ho_3Ga_5O_{12}$	$Ia\bar{3}d$	$Ia\bar{3}d'$	Non-coplanar	$Ia\bar{3}d$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.746	$Tb_3Ga_5O_{12}$	$Ia\bar{3}d$	$Ia\bar{3}d'$	Non-coplanar	$Ia\bar{3}d$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.747	$Ba_3CoIr_2O_9$	$C2/c$	$C2/c$	Collinear	$C2/c$	B_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/–$
0.748	$Ba_3NiRu_2O_9$	$P6_3/mmc$	$P6_3'/m'm'c$	Collinear	$P6_3/mmc$	B_{2g}	$\mathbf{0}$		$g/–$
0.749	$Ba_3CoRu_2O_9$	$Cmcm$	P_Bnma	Collinear	$Cmcm$	Y_3^+	$(0,1,0)$		$–/–$
0.750	$Ba_3CoRu_2O_9$	$P6_3/mmc$	P_Bnma	Collinear	$Cmcm$	Y_3^+	$(0,1,0)$		$–/–$
0.751	$Ca_2YZr_2Fe_3O_{12}$	$R\bar{3}c$	$R\bar{3}'c$	Non-coplanar	$R\bar{3}c$	$A_{1u} \oplus E_u$	$\mathbf{0}$	Σ^+, α^-	$–/–$
0.752	$Ca_2YZr_2Fe_3O_{12}$	$R\bar{3}c$	$R\bar{3}'c$	Non-coplanar	$R\bar{3}c$	$A_{1u} \oplus E_u$	$\mathbf{0}$	Σ^+, α^-	$–/–$
0.753	$Ca_2LaZr_2Fe_3O_{12}$	$R\bar{3}c$	$R\bar{3}'c$	Non-coplanar	$R\bar{3}c$	$A_{1u} \oplus E_u$	$\mathbf{0}$	Σ^+, α^-	$–/–$
0.754	$Ca_2LaZr_2Fe_3O_{12}$	$R\bar{3}c$	$R\bar{3}'c$	Non-coplanar	$R\bar{3}c$	$A_{1u} \oplus E_u$	$\mathbf{0}$	Σ^+, α^-	$–/–$
0.755	$Mn_2SeO_3F_2$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/–$
0.756	GaV_4S_8	$R3m$	$R3m'$	Non-coplanar	$R3m$	$A_1 \oplus E$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.757	$CeFeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/–$
0.758	$CeFeO_3$	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/–$
0.759	$CeFeO_3$	$Pnma$	$Pnma$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/–$
0.760	$FeOHSO_4$	$C2/c$	$C2'/c'$	Collinear	$C2/c$	B_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/–$
0.761	$SrFe_2Se_2O$	$Pmmn$	$Pm'm'n'$	Coplanar	$Pmmn$	$B_{1u} \oplus B_{2u}$	$\mathbf{0}$	Σ^+, α^-	$–/–$
0.762	$SrFe_2S_2O$	$Pmmn$	$Pm'm'n'$	Coplanar	$Pmmn$	$B_{1u} \oplus B_{2u}$	$\mathbf{0}$	Σ^+, α^-	$–/–$
0.763	$Mn_5(PO_4)_2(PO_3(OH))_2(HOH)_4$	$C2/c$	$C2'/c'$	Non-coplanar	$C2/c$	$2A_g \oplus B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	$s/–$
0.764	$Mn_5(PO_4)_2(PO_3(OH))_2(HOH)_4$	$C2/c$	$C2'/c'$	Non-coplanar	$C2/c$	$2A_g \oplus B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	$s/–$
0.765	$Mn_5(PO_4)_2(PO_3(OH))_2(HOH)_4$	$C2/c$	$C2'/c'$	Non-coplanar	$C2/c$	$2A_g \oplus B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	$s/–$
0.766	$YbMnSb_2$	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		$–/–$
0.767	$SrMnSb_2$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/–$
0.768	$SrMnSb_2$	$Pnma$	$Pn'a'2_1$	Coplanar	$Pnma$	$A_g \oplus B_{3u}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-, \alpha^+$	s/p

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
0.769	$YbMnBi_2$	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	**0**		–/–
0.770	$Fe_2Co_2Nb_2O_9$	$C2/c$	$C2/c'$	Collinear	$C2/c$	B_u	**0**	α^-	–/–
0.771	$PrMnSi_2$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.772	$PrMnSi_2$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.773	$NdMnSi_2$	$Cmcm$	$C2'/m'$	Coplanar	$Cmcm$	$2A_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.774	$NdMnSi_2$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.775	$NdMnSi_2$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.776	$CeMnSi_2$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.777	$CeMnSi_2$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.778	$LaMnSi_2$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.779	$LaMnSi_2$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.780	$LaMnSi_2$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.781	$CeMnSi_2$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.782	$NdScO_3$	$Pnma$	$Pnm'a$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.783	$NdInO_3$	$Pnma$	$Pnm'a$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.784	$NdCoO_3$	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.785	$NdVO_3$	$Pnma$	$P2_1'/m'$	Coplanar	$Pnma$	$2B_{2g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.786	$NdVO_3$	$Pnma$	$P2_1'/m'$	Collinear	$Pnma$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.787	YVO_3	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.788	YVO_3	$P2_1/c$	$P\bar{1}$	Coplanar	$P2_1/c$	$2B_g$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.789	$CeCuSi$	$P6_3/mmc$	$Cmc'm'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.790	Sr_2DyRuO_6	$P2_1/c$	$P2_1'/c'$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.791	Sr_2TbRuO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.792	Sr_2HoRuO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.793	Sr_2HoRuO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.794	Sr_2HoRuO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.795	Sr_2YRuO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.796	Ca_2NiOsO_6	$P2_1/c$	$P2_1'/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.797	$SmBaMn_2O_5$	$P4/nmm$	$P4/nm'm'$	Collinear	$P4/nmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.798	$MnPd_2$	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.799	$Sr_2Co_2O_5$	$Ima2$	P_Inc2	Collinear	$Ima2$	X_1	$(1,0,0)$		–/–
0.800	$MnTe$	$P6_3/mmc$	$Cmcm$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.801	$Tl_3Fe_2S_4$	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{2u}	**0**	α^-	–/–
0.802	$CuFeS_2$	$I\bar{4}2d$	$I\bar{4}2d$	Collinear	$I\bar{4}2d$	A_2	**0**	Σ^-	g/–
0.803	$NbMnP$	$Pnma$	$Pm'n2_1'$	Coplanar	$Pnma$	$B_{1u} \oplus B_{2g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-, \alpha^+$	d/p
0.804	MoP_3SiO_{11}	$R\bar{3}c$	$C2/c'$	Collinear	$R\bar{3}c$	A_{2u}	**0**	α^-	–/–
0.805	Dy_2BaCuO_5	$Pnma$	$Pnm'a$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.806	$Fe_2Se_2O_7$	$Pccn$	$Pc'cn$	Non-coplanar	$Pccn$	$A_u \oplus B_{1u} \oplus B_{2u}$	**0**	Σ^+, α^-	–/–
0.807	$Fe_2Se_2O_7$	$Pccn$	$Pc'cn$	Non-coplanar	$Pccn$	$A_u \oplus B_{1u} \oplus B_{2u}$	**0**	Σ^+, α^-	–/–
0.808	$Fe_2Se_2O_7$	$Pccn$	$Pc'cn$	Non-coplanar	$Pccn$	$A_u \oplus B_{1u} \oplus B_{2u}$	**0**	Σ^+, α^-	–/–
0.809	Fe_2WO_6	$P2_1/c$	$P2_1/c'$	Non-coplanar	$P2_1/c$	$A_u \oplus 2B_u$	**0**	Σ^+, α^-	–/–
0.810	Fe_2WO_6	$Pbcn$	$Pbc'n'$	Coplanar	$Pbcn$	$A_g \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.811	Fe_2WO_6	$Pbcn$	$Pbc'n'$	Collinear	$Pbcn$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.812	Fe_2WO_6	$Pbcn$	$Pn'c2'$	Coplanar	$Pbcn$	$B_{2g} \oplus B_{2u}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/f
0.813	Fe_2WO_6	$Pbcn$	$Pbc'n'$	Collinear	$Pbcn$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.814	Fe_2WO_6	$Pbcn$	$Pb'cn$	Collinear	$Pbcn$	B_{2u}	**0**	α^-	–/–
0.815	$MnNb_2O_6$	$Pbcn$	$Pb'cn$	Collinear	$Pbcn$	A_u	**0**		–/–
0.816	$MnTa_2O_6$	$Pbcn$	$Pb'cn$	Collinear	$Pbcn$	A_u	**0**		–/–
0.817	$Mn(Nb_{0.5}Ta_{0.5})_2O_6$	$Pbcn$	$Pb'cn$	Coplanar	$Pbcn$	$A_u \oplus B_{2u}$	**0**	Σ^+, α^-	–/–
0.818	$MnTa_2O_6$	$Pbcn$	$Pb'cn$	Coplanar	$Pbcn$	$A_u \oplus B_{2u}$	**0**	Σ^+, α^-	–/–
0.819	$MnNb_2O_6$	$Pbcn$	$Pb'cn$	Coplanar	$Pbcn$	$A_u \oplus B_{2u}$	**0**	Σ^+, α^-	–/–
0.820	$Bi_{0.85}Ca_{0.15}Fe_{0.55}Mn_{0.45}O_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.821	$SrGd_2O_4$	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.822	Nd_2ScNbO_7	$Fd\bar{3}m$	$Fd\bar{3}m'$	Non-coplanar	$Fd\bar{3}m$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/-$
0.823	Sr_2MnGaO_5	$Ima2$	$Im'a2'$	Collinear	$Ima2$	A_2	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/-$
0.824	$Sr_2MnGaO_{5.5}$	$P4/mmm$	P_C4/mbm	Collinear	$P4/mmm$	M_1^+	M		$-/-$
0.825	Ca_2MnGaO_5	$Pnma$	$Pnm'a'$	Collinear	$Pnma$	B_{1g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/-$
0.826	$MnTeLi_{0.003}$	$P6_3/mmc$	$C2'/m'$	Collinear	$P6_3/mmc$	B_{2g}	$\mathbf{0}$		$g/-$
0.827	Na_2MnPO_4F	$P2_1/c$	$P2_1/c'$	Collinear	$P2_1/c$	B_u	$\mathbf{0}$	α^-	$-/-$
0.828	Na_2MnPO_4F	$P2_1/c$	$P2_1/c'$	Collinear	$P2_1/c$	B_u	$\mathbf{0}$	α^-	$-/-$
0.829	Na_2MnPO_4F	$P2_1/c$	$P2_1/c'$	Collinear	$P2_1/c$	B_u	$\mathbf{0}$	α^-	$-/-$
0.830	Na_2MnPO_4F	$P2_1/c$	$P2_1/c'$	Collinear	$P2_1/c$	B_u	$\mathbf{0}$	α^-	$-/-$
0.831	$BaCaFe_4O_7$	$Pna2_1$	$Pn'a'2_1$	Coplanar	$Pna2_1$	$A_1 \oplus B_1$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
0.832	CeAuGe	$P6_3mc$	$Cmc'2_1'$	Collinear	$P6_3mc$	A_1	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	$s/-$
0.833	CeCuGe	$P6_3/mmc$	$Cmc'm'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.834	$CrSbSe_3$	$Pnma$	$Pnm'a'$	Collinear	$Pnma$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.835	$Dy_5Pd_2In_4$	$Pbam$	$Pb'a'm$	Collinear	$Pbam$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.836	$DyFeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/-$
0.837	$DyFeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/-$
0.838	$DyFeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/-$
0.839	$DyFeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/-$
0.840	$DyFeO_3$	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/-$
0.841	$DyFeO_3$	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	$d/-$
0.842	$DyAlO_3$	$Pnma$	$Pn'm'a'$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	$\mathbf{0}$	Σ^+, α^-	$-/-$
0.843	$SrZn_2Fe_{16}O_{27}$	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.844	$SrNi_2Fe_{16}O_{27}$	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.845	$SrMg_2Fe_{16}O_{27}$	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.846	$SrCo_2Fe_{16}O_{27}$	$P6_3/mmc$	$Cm'cm'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.847	$Er_5Pd_2In_4$	$Pbam$	$P2'/m'$	Coplanar	$P2/m$	$2A_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/-$
0.848	$Er_5Pd_2In_4$	$Pbam$	$P2'/m'$	Coplanar	$P2/m$	$2A_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/-$
0.849	$Er_5Pd_2In_4$	$Pbam$	$Pb'am'$	Coplanar	$Pbam$	$A_g \oplus B_{1g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/-$
0.850	$Er_5Pd_2In_4$	$Pbam$	$Pb'am'$	Coplanar	$Pbam$	$A_g \oplus B_{1g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/-$
0.851	$C_7H_{14}NFeCl_4$	$Pbca$	$P2_1'2_1'2_1$	Non-coplanar	$P2_12_12_1$	$A \oplus B_2 \oplus B_3$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.852	$HoVO_3$	$Pnma$	$P2_1'/m'$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/-$
0.853	$HoVO_3$	$Pnma$	$Pn'a2_1'$	Non-coplanar	$Pna2_1$	$A_1 \oplus A_2 \oplus B_2$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.854	$Gd_2Pt_2O_7$	$Fd\bar{3}m$	$I4_1'/amd'$	Coplanar	$I4_1/amd$	E_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/-$
0.855	Mn_2Sb	$P4/nmm$	$P4/nm'm'$	Collinear	$P4/nmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.856	Tm_2Fe_{17}	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.857	Tm_2Fe_{17}	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.858	Tm_2Fe_{17}	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.859	YCo_3	$R\bar{3}m$	$R\bar{3}m'$	Collinear	$R\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.860	$Co_3Sn_2S_2$	$R\bar{3}m$	$R\bar{3}m'$	Collinear	$R\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.861	$Co_3Sn_2S_2$	$R\bar{3}m$	$R\bar{3}m'$	Collinear	$R\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.862	$Eu_2Ir_2O_7$	$Fd\bar{3}m$	$Fd\bar{3}m'$	Non-coplanar	$Fd\bar{3}m$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/-$
0.863	$EuCd_2As_2$	$P\bar{3}m1$	$C2'/m'$	Collinear	$P\bar{3}m1$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.864	La_2NiIrO_6	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$2B_g$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$d/-$
0.865	Nd_2NiIrO_6	$P2_1/c$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	$s/-$
0.866	Pr_2NiIrO_6	$P2_1/c$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	$s/-$
0.867	Nd_2NiIrO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	$s/-$
0.868	Pr_2NiIrO_6	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/-$
0.869	Pr_2NiIrO_6	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/-$
0.870	Pr_2NiIrO_6	$P2_1/c$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	$s/-$
0.871	Pr_2NiIrO_6	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/-$
0.872	Pr_2NiIrO_6	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	$s/-$

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.873	Pr_2NiIrO_6	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.874	Nd_2NiIrO_6	$P2_1/c$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.875	Nd_2NiIrO_6	$P2_1/c$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.876	La_2ZnIrO_6	$P2_1/c$	$P2_1'/c'$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.877	Nd_2ZnIrO_6	$P2_1/c$	$P_S\bar{1}$	Non-coplanar	$P\bar{1}$	$3V_1^-$	$(\frac{1}{2}, \frac{1}{2}, 0)$	Σ^+	–/–
0.878	Nd_2ZnIrO_6	$P2_1/c$	$P_S\bar{1}$	Non-coplanar	$P\bar{1}$	$3V_1^-$	$(\frac{1}{2}, \frac{1}{2}, 0)$	Σ^+	–/–
0.879	Nd_2ZnIrO_6	$P2_1/c$	$P_S\bar{1}$	Non-coplanar	$P\bar{1}$	$3V_1^-$	$(\frac{1}{2}, \frac{1}{2}, 0)$	Σ^+	–/–
0.880	$CdCu_3(OH)_6(NO_3)_2H_2O$	$P\bar{3}m1$	$C2/m$	Coplanar	$P\bar{3}m1$	E_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.881	CuMnAs	$P4/nmm$	$Pm'mn$	Collinear	$P4/nmm$	A_{2u}	$\mathbf{0}$	α^-	–/–
0.882	$Bi_{0.85}Ca_{0.15}Fe_{0.55}Mn_{0.45}O_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.883	$NaCo_2(SeO_3)_2(OH)$	$Pnma$	$Pn'ma'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.884	$Mn_{1.15}Co_{1.85}O_4$	$I4_1/amd$	$I4_1/am'd'$	Non-coplanar	$I4_1/amd$	$A_{1g} \oplus E_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.885	$Mn_{1.17}Co_{1.60}Cu_{0.23}O_4$	$I4_1/amd$	$I4_1/am'd'$	Non-coplanar	$I4_1/amd$	$A_{1g} \oplus E_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.886	$SnCo_2O_4$	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.887	$MnCo_2O_4$	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.888	$Mn_{0.6}Co_{2.4}O_4$	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.889	$Mn_{0.8}Co_{2.2}O_4$	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.890	$Mn_{1.2}Co_{1.8}O_4$	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.891	$CuCr_2O_4$	$I4_1/amd$	$C2'/c'$	Coplanar	$I4_1/amd$	$A_{1g} \oplus B_{1g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.892	$NiCr_2O_4$	$Fddd$	$Fd'd'd$	Collinear	$Fddd$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.893	$NiCr_2O_4$	$Fddd$	$Fd'd'd$	Collinear	$Fddd$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.894	$Ni_{0.85}Cu_{0.15}Cr_2O_4$	$Fddd$	$C2'/c'$	Coplanar	$Fddd$	$A_g \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.895	$NiCr_2O_4$	$I4_1/amd$	$Imm'a'$	Collinear	$I4_1/amd$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.896	$NiCrO_4$	$Cmcm$	$Cmcm$	Collinear	$Cmcm$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.897	$TbMn_2Ge_2$	$I4/mmm$	$I4/mm'm'$	Collinear	$I4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.898	Mn_3IrSi	$P2_13$	$P2_13$	Non-coplanar	$P2_13$	T	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.899	Mn_3IrGe	$P2_13$	$P2_13$	Non-coplanar	$P2_13$	T	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.900	Mn_3CoGe	$P2_13$	$P2_13$	Non-coplanar	$P2_13$	T	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.901	$La_{0.3}Y_{0.7}Mn_2Ge_2$	$I4/mmm$	$Im'm2'$	Coplanar	$I4/mmm$	$A_{1g} \oplus B_{2u}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/f
0.902	$DyMn_2Ge_2$	$I4/mmm$	$I4/mm'm'$	Collinear	$I4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.903	Pr_2PdGe_6	$Cmce$	$Cm'c'a$	Coplanar	$Cmce$	$B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.904	Nd_2PdGe_6	$Cmce$	$Cm'c'a$	Collinear	$Cmce$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.905	Tb_2PdGe_6	$Cmce$	$Cm'ca$	Coplanar	$Cmce$	$A_u \oplus B_{1u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.906	Dy_2PdGe_6	$Cmce$	$Cm'ca$	Coplanar	$Cmce$	$A_u \oplus B_{1u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.907	Ho_2PdGe_6	$Cmce$	$Cm'ca$	Coplanar	$Cmce$	$A_u \oplus B_{1u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.908	Tb_2PtGe_6	$Cmce$	$Cm'ca$	Coplanar	$Cmce$	$A_u \oplus B_{1u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.909	Er_2PtGe_6	$Cmce$	$Cmc'a$	Collinear	$Cmce$	B_{1u}	$\mathbf{0}$	α^-	–/–
0.910	$TbNiSi_2$	$Cmcm$	$Cm'cm$	Collinear	$Cmcm$	B_{2u}	$\mathbf{0}$	α^-	–/–
0.911	$Tb_5Pd_2In_4$	$Pbam$	$Pb'a'm$	Collinear	$Pbam$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.912	$Ho_5Ni_2In_4$	$Pbam$	$P2_1/c$	Coplanar	$Pbam$	$2B_{1g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.913	$Ho_5Ni_2In_4$	$Pbam$	$P2_1'/c'$	Coplanar	$Pbam$	$2A_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.914	$Tb_5Ni_2In_4$	$Pbam$	$Pb'a'm$	Collinear	$Pbam$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.915	$Tb_5Ni_2In_4$	$Pbam$	$P2_1'/c'$	Coplanar	$Pbam$	$2A_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.916	$Cd_2Os_2O_7$	$Fd\bar{3}m$	$Fd\bar{3}m'$	Non-coplanar	$Fd\bar{3}m$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.917	Sr_2ScOsO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.918	Ag_2RuO_4	$Pnma$	$Pnm'a$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.919	$EuMnBi_2$	$I4/mmm$	$I4'/m'm'm$	Collinear	$I4/mmm$	B_{2u}	$\mathbf{0}$		–/–
0.920	ThMnPN	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.921	ThMnPN	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.922	ThMnAsN	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–
0.923	ThMnAsN	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	$\mathbf{0}$		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.924	$RbRuO_4$	$Pnma$	$Pn'm'a'$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.925	$Au_{70}Si_{17}Tb_{13}$	$Im\bar{3}$	$R\bar{3}$	Non-coplanar	$R\bar{3}$	$A_g \oplus E_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.926	Pr_2PdGe_6	$Cmce$	$Cm'c'a$	Coplanar	$Cmce$	$B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.927	Nd_2PdGe_6	$Cmce$	$Cm'c'a$	Collinear	$Cmce$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.928	Dy_2PdGe_6	$Cmce$	$Cm'ca$	Coplanar	$Cmce$	$A_u \oplus B_{1u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.929	Tb_2PdGe_6	$Cmce$	$Cm'ca$	Coplanar	$Cmce$	$A_u \oplus B_{1u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.930	Ho_2PdGe_6	$Cmce$	$Cm'ca$	Coplanar	$Cmce$	$A_u \oplus B_{1u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.931	Tb_2PtGe_6	$Cmce$	$Cm'ca$	Coplanar	$Cmce$	$A_u \oplus B_{1u}$	$\mathbf{0}$	Σ^+, α^-	–/–
0.932	Er_2PtGe_6	$Cmce$	$Cmc'a$	Collinear	$Cmce$	B_{1u}	$\mathbf{0}$	α^-	–/–
0.933	Na_2RuO_4	$P2_1/c$	$P2_1/c'$	Collinear	$P2_1/c$	B_u	$\mathbf{0}$	α^-	–/–
0.934	Sr_2NiTeO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.935	$Sr_2Ni_{0.9}Mg_{0.1}TeO_6$	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.936	Sr_2MnTeO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.937	Sr_2CoTeO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.938	$TbNi_3Ga_2$	$P6/mmm$	$Cmm'm'$	Collinear	$P6/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.939	$NiMn_{0.85}Ti_{0.15}Ge$	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.940	$NiMn_{0.75}Ti_{0.25}Ge$	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.941	Er_2O_3	$Ia\bar{3}$	$Ia\bar{3}$	Non-coplanar	$Ia\bar{3}$	T_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.942	$Er_2Ge_2O_7$	$P4_12_12$	$P4_1'2_12'$	Non-coplanar	$P4_12_12$	$B_2 \oplus E$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.943	$Yb_2Ge_2O_7$	$P4_12_12$	$P4_12_1'2'$	Non-coplanar	$P4_12_12$	$A_1 \oplus E$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.944	$Yb_2Ir_2O_7$	$Fd\bar{3}m$	$R\bar{3}m'$	Non-coplanar	$R\bar{3}m$	$A_{1g} \oplus E_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.945	$Yb_2Ir_2O_7$	$Fd\bar{3}m$	$Fd\bar{3}m'$	Non-coplanar	$Fd\bar{3}m$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.946	$YCr_{0.5}Fe_{0.5}O_3$	$Pnma$	$P2_1/m$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.947	$YCrO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.948	$CaNi_3P_4O_{14}$	$P2_1/c$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.949	$(La_{0.5}Er_{0.5})_2O_3$	$Ia\bar{3}$	$Ia\bar{3}$	Non-coplanar	$Ia\bar{3}$	T_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.950	$LaErO_3$	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.951	$LaYbO_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.952	$YbPdSi$	$Pmmn$	$Pm'm'n$	Coplanar	$Pmmn$	$A_g \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.953	Pb_2FeMoO_6	$Fm\bar{3}m$	$I4/mm'm'$	Collinear	$Fm\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.954	$Nd_2Ir_2O_7$	$Fd\bar{3}m$	$Fd\bar{3}m'$	Non-coplanar	$Fd\bar{3}m$	T_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.955	$Na_2Mn(H_2C_3O_4)_2(H_2O)_2$	$Pbca$	$Pbca$	Collinear	$Pbca$	B_{1g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.956	$Fe_{2.71}GeTe_2$	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.957	$Fe_{2.90}GeTe_2$	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.958	$Mn_3Si_2Te_6$	$P\bar{3}1c$	$C2'/c'$	Non-coplanar	$P\bar{3}1c$	$2A_{1g} \oplus A_{2g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.959	Cr_2TeO_6	$P4_2/mnm$	$Pn'nm$	Collinear	$P4_2/mnm$	A_{2u}	$\mathbf{0}$	α^-	–/–
0.960	Fe_2TeO_6	$P4_2/mnm$	$P4_2/m'n'm'$	Collinear	$P4_2/mnm$	A_{2u}	$\mathbf{0}$	α^-	–/–
0.961	$LiCrGe_2O_6$	$P2_1/c$	$P2_1'/c$	Collinear	$P2_1/c$	A_u	$\mathbf{0}$	α^-	–/–
0.962	$LiCrGe_2O_6$	$P2_1/c$	$P2_1'/c$	Collinear	$P2_1/c$	A_u	$\mathbf{0}$	α^-	–/–
0.963	$LiCrGe_2O_6$	$P2_1/c$	$P2_1'/c$	Collinear	$P2_1/c$	A_u	$\mathbf{0}$	α^-	–/–
0.964	$LiCrGe_2O_6$	$P2_1/c$	$P2_1'/c$	Collinear	$P2_1/c$	A_u	$\mathbf{0}$	α^-	–/–
0.965	$LuFe_2O_4$	Pm	P_S1	Collinear	$P1$	U_1	$(\frac{1}{2}, 0, \frac{1}{2})$		–/–
0.966	V_2WO_6	$P4_2/mnm$	$Pn'nm$	Collinear	$P4_2/mnm$	B_{1u}	$\mathbf{0}$		–/–
0.967	$BaMn_2V_2O_8$	$I4_1cd$	$Ib'a2'$	Collinear	$I4_1cd$	B_1	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.968	$CaFe_2O_4$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.969	$CaFe_2O_4$	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{3u}	$\mathbf{0}$	α^-	–/–
0.970	$PrRu_2Si_2$	$I4/mmm$	$I4/mm'm'$	Collinear	$I4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.971	HoP	$Fm\bar{3}m$	$I4/mm'm'$	Collinear	$Fm\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.972	$HoPdIn$	$P\bar{6}2m$	$P\bar{6}2'm'$	Collinear	$P\bar{6}2m$	A_1'	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.973	$HoPdIn$	$P\bar{6}2m$	$P\bar{6}2'm'$	Collinear	$P\bar{6}2m$	A_1'	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.974	$ErPdIn$	$P\bar{6}2m$	$P\bar{6}2'm'$	Collinear	$P\bar{6}2m$	A_1'	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.975	$ErPdIn$	$P\bar{6}2m$	$P\bar{6}2'm'$	Collinear	$P\bar{6}2m$	A_1'	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.976	NdPdIn	$P\bar{6}2m$	$Am'm'2$	Collinear	$P\bar{6}2m$	A_1'	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.977	NdPdIn	$P\bar{6}2m$	Cm'	Collinear	$P\bar{6}2m$	A_1'	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.978	ErNiIn	$P\bar{6}2m$	$P\bar{6}2'm'$	Collinear	$P\bar{6}2m$	A_1'	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.979	$TmVO_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.980	$TmVO_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.981	$TmVO_3$	$Pnma$	$Pnma$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.982	$TmVO_3$	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.983	$TmVO_3$	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.984	$LuVO_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.985	$EuPd_3Si_2$	$Imma$	$Imm'a'$	Collinear	$Imma$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.986	$CaFe_3O_5$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.987	$BaFe_2S_2O$	$Pmmn$	$Pm'm'n'$	Coplanar	$Pmmn$	$B_{1u} \oplus B_{2u}$	**0**	Σ^+, α^-	–/–
0.988	$BaFe_2Se_2O$	$Pmmn$	$Pm'm'n'$	Coplanar	$Pmmn$	$B_{1u} \oplus B_{2u}$	**0**	Σ^+, α^-	–/–
0.989	$MnCr_2O_4$	$I4_1/amd$	$Imm'a'$	Collinear	$Imma$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.990	$HoFeO_3$	$Pnma$	$Pn'm'a$	Non-coplanar	$Pnma$	$A_g \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.991	$HoFeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.992	$HoFeO_3$	$Pnma$	$Pn'm'a$	Non-coplanar	$Pnma$	$A_g \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.993	$HoFeO_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.994	$HoFeO_3$	$Pnma$	$Pn'm'a$	Non-coplanar	$Pnma$	$A_g \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.995	$MnFe_3O_5$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.996	$MnFe_3O_5$	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.997	$MnFe_3O_5$	$Cmcm$	$Cm'cm'$	Coplanar	$Cmcm$	$A_g \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.998	$MnFe_3O_5$	$Cmcm$	Cc	Non-coplanar	$Cmc2_1$	$A_1 \oplus 2B_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
0.999	Fe_4O_5	$Cmcm$	$Cm'c2_1'$	Collinear	$Cmc2_1$	B_2	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.1000	Fe_4O_5	$Cmcm$	$P2_1'$	Coplanar	$Cmc2_1$	$A_1 \oplus B_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
0.1001	$PbMn_2Ni_6Te_3O_{18}$	$P6_3/m$	$P6_3/m'$	Collinear	$P6_3/m$	A_u	**0**	α^-	–/–
0.1002	$SrZn_2Fe_{16}O_{27}$	$P6_3/mmc$	$P6_3/mm'c'$	Non-coplanar	$P6_3/mmc$	$A_{1g} \oplus E_{1g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.1003	$SrCo_2Fe_{16}O_{27}$	$Cmcm$	$Cm'cm'$	Non-coplanar	$Cmcm$	$A_g \oplus B_{1g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.1004	CsO_2	$Pnma$	$Pn'a'm'$	Coplanar	$Pnma$	$B_{1u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.1005	Mn_3RhGe	$P2_13$	$P2_13$	Non-coplanar	$P2_13$	T	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.1006	Mn_3IrGe	$P2_13$	$P2_13$	Non-coplanar	$P2_13$	T	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.1007	$Fe_{0.25}NbS_2$	$P6_3/mmc$	$P6_3'/m'm'c$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.1008	Sr_2ErRuO_6	$P2_1/c$	$P2_1/c$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1009	$CaBaFe_4O_7$	$Pna2_1$	$Pn'a'2_1$	Coplanar	$Pna2_1$	$A_1 \oplus B_1$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
0.1010	$C_{10}H_6MnN_4O_4$	$P2_1/c$	$P2_1'/c$	Coplanar	$P2_1/c$	$A_u \oplus B_u$	**0**	Σ^+, α^-	–/–
0.1011	$FeMn_2O_4$	$I4_1/amd$	$Imm'a'$	Coplanar	$Imma$	$A_g \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1012	$FeMn_2O_4$	$I4_1/amd$	$Imm'a'$	Collinear	$I4_1/amd$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1013	Ba_2NdRuO_6	$P2_1/c$	$P\bar{1}$	Collinear	$P2_1/c$	B_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1014	$CsNi(NCS)_3$	$P2_1/c$	$P2_1/n$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.1015	$CoTe_6O_{13}$	$R\bar{3}$	$R\bar{3}'$	Collinear	$R\bar{3}$	A_u	**0**	α^-	–/–
0.1016	$Co_5(TeO_3)_4Cl_2$	$C2/c$	$C2'/c$	Non-coplanar	$C2/c$	$2A_u \oplus B_u$	**0**	Σ^+, α^-	–/–
0.1017	$CePdAl_3$	$Cmcm$	$Cmcm'$	Collinear	$Cmcm$	B_{2u}	**0**	α^-	–/–
0.1018	$SrMnO_3$	$C222_1$	$C22'2_1'$	Collinear	$C222_1$	B_1	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.1019	$SrMnO_3$	$C222_1$	$C22'2_1'$	Collinear	$C222_1$	B_1	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.1020	$EuCu_2Sb_2$	$P4/nmm$	$Pm'mn$	Collinear	$P4/nmm$	A_{2u}	**0**	α^-	–/–
0.1021	$TmFeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1022	$TmFeO_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1023	Cr_2MoO_6	$P4_2/mnm$	$Pn'nm$	Collinear	$P4_2/mnm$	B_{1u}	**0**		–/–
0.1024	$BaFe_2Se_4$	$I4/m$	$C2'$	Coplanar	$I4/m$	$A_g \oplus B_u$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/f
0.1025	$Gd_2Pt_2O_7$	$Fd\bar{3}m$	$I4_1'/amd'$	Coplanar	$I4_1/amd$	E_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1026	$Mn_3Si_2Te_6$	$P\bar{3}1c$	$C2'/c'$	Non-coplanar	$P\bar{3}1c$	$2A_{1g} \oplus A_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.1027	YbNiSn	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1028	Mn	$I\bar{4}3m$	$I\bar{4}2'm'$	Non-coplanar	$I\bar{4}2m$	$A_1 \oplus E$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.1029	$CeSi_{1.7}Ag_{0.3}$	$I4_1/amd$	$Imm'a'$	Collinear	$I4_1/amd$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1030	$CeSi_{1.3}Ag_{0.7}$	$I4_1/amd$	$I4_1'/a'm'd$	Collinear	$I4_1/amd$	B_{2u}	**0**		–/–
0.1031	$TbMn_6Sn_6$	$P6/mmm$	$P6/mm'm'$	Collinear	$P6/mmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1032	$K_2Cu_3O(SO_4)_3$	$C2/c$	$C2'/c$	Non-coplanar	$C2/c$	$2A_u \oplus B_u$	**0**	Σ^+, α^-	–/–
0.1033	$NaKCu_3O(SO_4)_3$	$C2/c$	$C2'/c$	Non-coplanar	$C2/c$	$2A_u \oplus B_u$	**0**	Σ^+, α^-	–/–
0.1034	HoF_3	$Pnma$	$Pnm'a'$	Coplanar	$Pnma$	$A_g \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1035	$PbNi_{1.76}Mg_{0.24}V_2O_8$	$I4_1cd$	$I4_1'cd'$	Collinear	$I4_1cd$	B_2	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1036	$CoTa_4Se_8$	$P6_3/mmc$	$P6_3'/m'm'c$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.1037	Tm_2Cu_2In	$P4/mbm$	$P4/mb'm'$	Collinear	$P4/mbm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1038	$CeAu_{0.5}Cu_{0.5}Ge$	$P6_3/mmc$	$Cmc'm'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1039	$CeAu_{0.2}Cu_{0.8}Ge$	$P6_3/mmc$	$Cmc'm'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1040	$CeAu_{0.8}Cu_{0.2}Ge$	$P6_3mc$	$Cmc'2_1'$	Collinear	$P6_3mc$	A_1	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	s/–
0.1041	ErGa	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1042	ErGa	$Cmcm$	$C2'/m'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1043	$NdPt_6Al_3$	$R\bar{3}c$	$C2/c$	Coplanar	$R\bar{3}c$	$A_{1g} \oplus A_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1044	Cr_5Te_8	$P\bar{3}m1$	$P\bar{3}m'1$	Collinear	$P\bar{3}m1$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1045	$La_{0.5}Sr_{3.5}Fe_3O_{7.5}F_{2.6}$	$Pbca$	$Pbca$	Coplanar	$Pbca$	$B_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1046	GdGa	$Cmcm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1047	HoGa	$Cmcm$	$Cm'c'm$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1048	HoGa	$Cmcm$	$P\bar{1}$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1049	$Co(DCOO)_2(D_2O)_2$	$P2_1/c$	$P2_1/c$	Non-coplanar	$P2_1/c$	$A_g \oplus 2B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.1050	$Co(DCOO)_2(D_2O)_2$	$P2_1/c$	$P2_1'/c'$	Non-coplanar	$P2_1/c$	$2A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.1051	Fe_3S_4	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.1052	Fe_3S_4	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.1053	Fe_3S_4	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.1054	Fe_3S_4	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.1055	$La_{0.35}Pr_{0.35}Ca_{0.3}MnO_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1056	$La_{0.35}Pr_{0.35}Ca_{0.3}MnO_3$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1057	$Mn_3Zn_{0.83}Mn_{0.15}N_{0.99}$	$Pm\bar{3}m$	$R\bar{3}m$	Coplanar	$Pm\bar{3}m$	E_g	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1058	$PrBaMn_2O_6$	$P4/mmm$	$P4/mm'm'$	Collinear	$P4/mmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1059	$PrBaMn_2O_6$	$Pmc2_1$	$Pmc'2_1'$	Collinear	$Pmc2_1$	B_1	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.1060	$C_3H_6MnO_6$	$Pca2_1$	$Pc'a2_1'$	Coplanar	$Pca2_1$	$A_1 \oplus B_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
0.1061	Fe_2SeO	$P3_1$	$P3_1$	Non-coplanar	$P3_1$	$A \oplus E$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.1062	$Fe_2(SeO_3)_3(H_2O)_3$	$R3c$	Cc	Non-coplanar	$R3c$	$A_1 \oplus 2A_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
0.1063	$Fe_2(SeO_3)_3(H_2O)_3$	$R3c$	Cc	Non-coplanar	$R3c$	$A_1 \oplus 2A_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
0.1064	RuP_3SiO_{11}	$R\bar{3}c$	$R\bar{3}'c'$	Collinear	$R\bar{3}c$	A_{2u}	**0**	α^-	–/–
0.1065	$MnGeN_2$	$Pna2_1$	$Pn'a2_1'$	Collinear	$Pna2_1$	B_2	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.1066	$MnSiN_2$	$Pna2_1$	$Pn'a2_1'$	Collinear	$Pna2_1$	B_2	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.1067	$MnSiN_2$	Pc	Pc'	Non-coplanar	Pc	$2A' \oplus A''$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.1068	$LuCrO_3$	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$A_g \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1069	$Er_2CuMn_5O_{12}$	$Pmmn$	$Pmm'n'$	Coplanar	$Pmmn$	$A_g \oplus B_{1g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1070	$Er_2CuMn_5O_{12}$	$Pmmn$	$Pm'm'n$	Collinear	$Pmmn$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1071	Fe_2SiO_4	$Pnma$	$Pnma$	Collinear	$Pnma$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.1072	Fe_2SiO_4	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1073	Cr_2CoAl	$I\bar{4}m2$	$I\bar{4}m'2'$	Collinear	$I\bar{4}m2$	A_1	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1074	$Cr_2(Co_{0.8}Cr_{0.2})Al$	$I\bar{4}m2$	$I\bar{4}m'2'$	Collinear	$I\bar{4}m2$	A_1	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1075	$Cs_2Fe_2(MoO_4)_3$	$P2_13$	$P2_13$	Non-coplanar	$P2_13$	T	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.1076	$Li_2Ni_2W_2O_9$	$Pbcn$	$Pb'c'n'$	Coplanar	$Pbcn$	$B_{1u} \oplus B_{2u}$	**0**	Σ^+, α^-	–/–
0.1077	$Cu_2(MoO_4)(SeO_3)$	$P2_1/c$	$P2'_1/c$	Non-coplanar	$P2_1/c$	$2A_u \oplus B_u$	**0**	Σ^+, α^-	–/–
0.1078	$[Na(OH_2)_3]$ $Mn(NCS)_3$	$P\bar{3}$	$P\bar{3}'$	Collinear	$P\bar{3}$	A_u	**0**	α^-	–/–
0.1079	$Cu_{1.94}Zn_{0.06}V_2O_7$	$C2/c$	$C2'/c$	Collinear	$C2/c$	A_u	**0**	α^-	–/–
0.1080	$Ca_2Fe_2O_5$	$Pnma$	$Pn'm'a$	Collinear	$Pnma$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1081	Mn_2Au	$I4/mmm$	$Fm'mm$	Collinear	$I4/mmm$	A_{2u}	**0**	α^-	–/–
0.1082	$LuCrWO_6$	$Pna2_1$	$Pna2_1$	Collinear	$Pna2_1$	B_1	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.1083	RuP_3SiO_{11}	$R\bar{3}c$	$R\bar{3}'c'$	Collinear	$R\bar{3}c$	A_{2u}	**0**	α^-	–/–
0.1084	$Sr_2Fe_2O_5$	$Ima2$	$Im'a'2$	Collinear	$Ima2$	A_1	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	s/–
0.1085	$PrFeO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1086	$Ho_2Os_2O_7$	$Fd\bar{3}m$	$I4_1/am'd'$	Non-coplanar	$I4_1/amd$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.1087	$K_2Co_3(MoO_4)_3$ $(OH)_2$	$Pnma$	$Pnma'$	Non-coplanar	$Pnma$	$A_u \oplus B_{2u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.1088	$Co_{0.28}NbSe_2$	$P6_3/mmc$	$P6'_3/m'm'c$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.1089	$TmGa$	$Cmcm$	$Cmc'm'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1090	NH_4CrF_3	$P4_2/mbc$	$Ccc'm'$	Collinear	$P4_2/mbc$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1091	$La_2O_3Mn_2Se_2$	$I4/mmm$	$I4'/mm'm$	Collinear	$I4/mmm$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1092	$La_2O_3Mn_2Se_2$	$I4/mmm$	$I4'/mm'm$	Collinear	$I4/mmm$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1093	$La_2O_3Mn_2Se_2$	$I4/mmm$	$I4'/mm'm$	Collinear	$I4/mmm$	B_{1g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1094	Eu_2In	$Pnma$	$Pnm'a'$	Collinear	$Pnma$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1095	$Y_{0.2}La_{0.2}Pr_{0.2}Nd_{0.2}$ $Tb_{0.2}MnO_3$	$Pnma$	$Pn'ma'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.1096	$Y_{0.2}La_{0.2}Pr_{0.2}Nd_{0.2}$ $Tb_{0.2}MnO_3$	$Pnma$	$Pn'ma'$	Non-coplanar	$Pnma$	$A_g \oplus B_{1g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.1097	$NdGa$	$Cmcm$	$Cm'c'm$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1098	$NdGa$	$Cmcm$	$C2'/c'$	Collinear	$Cmcm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1099	$NdGaD_{0.9}$	$Cmcm$	$Cm'c2'_1$	Coplanar	$Cmcm$	$A_g \oplus B_{2u}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-, \alpha^+$	s/p
0.1100	$Sr_2VCrAsO_3$	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	**0**		–/–
0.1101	$Sr_2VCrAsO_3$	$P4/nmm$	$P4'/n'm'm$	Collinear	$P4/nmm$	B_{2u}	**0**		–/–
0.1102	$La_4Co_3O_9$	$Pnma$	$Pnm'a$	Collinear	$Pnma$	B_{1u}	**0**	α^-	–/–
0.1103	$EuSc_2Te_4$	$Pnma$	$Pn'ma$	Collinear	$Pnma$	B_{1u}	**0**	α^-	–/–
0.1104	$GdCrO_3$	$Pnma$	$Pn'ma'$	Collinear	$Pnma$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1105	$GdCrO_3$	$Pnma$	$P2'_1/c'$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1106	$CaCo_2TeO_6$	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1107	$NdNi_4Si$	$Cmmm$	$Cmm'm'$	Collinear	$Cmmm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1108	$LaTbMnCoO_6$	$P2_1/c$	$P2'_1/c'$	Non-coplanar	$P2_1/c$	$2A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.1109	Er_2MnCoO_6	$P2_1/c$	$P2'_1/c'$	Coplanar	$P2_1/c$	$2A_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1110	Tb_2MnCoO_6	$P2_1/c$	$P2'_1/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1111	$MnSb_2O_4$	$P4_2/mbc$	$Cc'cm$	Collinear	$P4_2/mbc$	B_{2u}	**0**		–/–
0.1112	$CoNb_4Se_8$	$P6_3/mmc$	$P6'_3/m'm'c$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.1113	$Cr_{1.22}Te_2$	$P\bar{3}m1$	$P\bar{3}m'1$	Non-coplanar	$P\bar{3}m1$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.1114	$CeAlSi$	$I4_1md$	$C2'$	Coplanar	$I4_1md$	$A_1 \oplus B_1$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-$	s/f
0.1115	Ba_2CrReO_6	$P6_3/mmc$	$P6'_3/m'm'c$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.1116	Ba_2CrReO_6	$P6_3/mmc$	$P6'_3/m'm'c$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.1117	$Ba_3Cr_2ReO_9$	$P6_3/mmc$	$P6'_3/m'm'c$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.1118	$Ba_3Cr_2ReO_9$	$Cmcm$	$Cmcm$	Collinear	$Cmcm$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1119	Mn_5SiC	$Cmc2_1$	$Cm'c'2_1$	Collinear	$Cmc2_1$	A_1	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	s/–
0.1120	KTb_3F_{10}	$Fm\bar{3}m$	$R\bar{3}m'$	Non-coplanar	$Fm\bar{3}m$	$A_{1g} \oplus E_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1121	KTb_3F_{10}	$Fm\bar{3}m$	$I4/mm'm'$	Collinear	$I4/mmm$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.1122	KTb_3F_{10}	$Fm\bar{3}m$	$Im'm'm$	Coplanar	$I4/mmm$	$A_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1123	Li_2CoCl_4	$Cmmm$	$Cm'm'm$	Collinear	$Cmmm$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1124	ErB_4	$P4/mbm$	$Pb'am$	Collinear	$Pbam$	B_{2u}	**0**	α^-	–/–
0.1125	ErB_4	$P4/mbm$	$Amm'2'$	Collinear	$Amm2$	A_1	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	s/–
0.1126	HoB_4	$P4/mbm$	$P2_1/c'$	Coplanar	$Pbam$	$B_{2u} \oplus B_{3u}$	**0**	Σ^+, α^-	–/–
0.1127	TmB_4	$P4/mbm$	$P4'/mbm'$	Collinear	$P4/mbm$	B_{2g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1128	DyB_4	$P2_1/c$	$P2_1/c'$	Coplanar	$P2_1/c$	$A_u \oplus B_u$	**0**	Σ^+, α^-	–/–
0.1129	$Er_2Be_2GeO_7$	$P2_12_12$	$P2_12_12'$	Non-coplanar	$P2_12_12$	$A \oplus B_1 \oplus B_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.1130	$MnGeO_3$	$R\bar{3}$	$R\bar{3}'$	Collinear	$R\bar{3}$	A_u	**0**	α^-	–/–
0.1131	Cr_7Te_8	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1132	Cr_7Te_8	$P6_3/mmc$	$C2/c$	Coplanar	$P6_3/mmc$	$A_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1133	$TmCrO_3$	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1134	$TmCrO_3$	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1135	$TmCrO_3$	$Pnma$	$P2_1'/c'$	Non-coplanar	$P2_1/c$	$2A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.1136	$YbPt_5B_2$	$C2/m$	$C2/m'$	Collinear	$C2/m$	B_u	**0**	α^-	–/–
0.1137	$NdCd_3P_3$	$P6_3/mmc$	$Cm'c'm$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.1138	$CoTeMoO_6$	$P2_12_12$	$P2_12_12'$	Coplanar	$P2_12_12$	$A \oplus B_1$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
0.1139	Gd_2CoRuO_6	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1140	Ca_3CoMnO_6	$R\bar{3}c$	$R\bar{3}c'$	Collinear	$R\bar{3}c$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1141	Ca_3CoMnO_6	$R\bar{3}c$	$R3c$	Collinear	$R3c$	A_2	**0**	Σ^-	g/–
0.1142	$Li_2Co_2W_2O_9$	$Pbcn$	$Pb'c'n$	Collinear	$Pbcn$	B_{3g}	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
0.1143	$Fe_4Nb_2O_9$	$C2/c$	$C2/c'$	Non-coplanar	$C2/c$	$A_u \oplus 2B_u$	**0**	Σ^+, α^-	–/–
0.1144	$Fe_4Nb_2O_9$	$P\bar{1}$	$P\bar{1}'$	Non-coplanar	$P\bar{1}$	$3A_u$	**0**	Σ^+, α^-	–/–
0.1145	$CeCrO_3$	$Pnma$	$Pn'm'a$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1146	Sr_2DyRuO_6	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1147	$CrSbS_3$	$Pnma$	$Pnm'a$	Collinear	$Pnma$	B_{1u}	**0**	α^-	–/–
0.1148	Nd_2NiMnO_6	$P2_1/c$	$P2_1'/c'$	Collinear	$P2_1/c$	A_g	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1149	Nd_2NiMnO_6	$P2_1/c$	$P\bar{1}$	Coplanar	$P2_1/c$	$A_g \oplus B_g$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1150	$ScFe_2$	$P6_3/mmc$	$C2'/c'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1151	$ScFe_2D_{3.2}$	$P6_3/mmc$	$Cmc'm'$	Collinear	$P6_3/mmc$	A_{1g}	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1152	$Bi_2CoO_2F_4$	$Pca2_1$	$Pc'a'2_1$	Coplanar	$Pca2_1$	$A_1 \oplus B_1$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
0.1153	$Bi_2NiO_2F_4$	$Pca2_1$	$Pca2_1$	Coplanar	$Pca2_1$	$A_2 \oplus B_1$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
0.1154	$CoFeVSb$	$F\bar{4}3m$	$R3m'$	Collinear	$F\bar{4}3m$	A_1	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.1155	$MnTe$	$P6_3/mmc$	$Cm'c'm$	Collinear	$P6_3/mmc$	B_{2g}	**0**		g/–
0.1156	$Eu_2MnSi_2O_7$	$P2_12_12$	$P2_12_12'$	Non-coplanar	$P2_12_12$	$A \oplus B_1 \oplus B_2$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.1157	$Tb_3Ni_6Ga_2$	$Im\bar{3}m$	$I4/mm'm'$	Collinear	$Im\bar{3}m$	A_{1g}	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.1158	$Tb_3Ni_6Ga_2$	$Im\bar{3}m$	$I4/mm'm'$	Collinear	$Im\bar{3}m$	A_{1g}	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.1159	Mn_4C	$Pm\bar{3}m$	$R\bar{3}m'$	Collinear	$Pm\bar{3}m$	A_{1g}	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.1160	Mn_4C	$Pm\bar{3}m$	$R\bar{3}m'$	Collinear	$Pm\bar{3}m$	A_{1g}	**0**	$\boldsymbol{M}, \Sigma^-$	s/–
0.1161	Mn_3GeN	$I4/mcm$	$Iba'm'$	Coplanar	$I4/mcm$	$A_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1162	Mn_3GeN	$I4/mcm$	$Iba'm'$	Coplanar	$I4/mcm$	$A_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1163	Mn_3GeN	$I4/mcm$	$Iba'm'$	Coplanar	$I4/mcm$	$A_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1164	Mn_3GeN	$I4/mcm$	$Iba'm'$	Coplanar	$I4/mcm$	$A_{1g} \oplus B_{2g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1165	$Li_{0.5}Al_{0.5}Fe_{4.5}O_8$	$P4_32_12$	$P4_32_12'$	Collinear	$P4_32_12$	A_1	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1166	$Li_{0.6}Al_{0.4}Fe_{4.6}O_8$	$P4_32_12$	$P4_32_12'$	Collinear	$P4_32_12$	A_1	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1167	$FeOOH$	$Pnma$	$Pnma'$	Collinear	$Pnma$	B_{3u}	**0**	α^-	–/–
0.1168	Fe_2SiSe_4	$Pnma$	$Pnma$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1169	$ErCrO_3$	$Pnma$	$Pnma$	Coplanar	$Pnma$	$B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1170	$ErCrO_3$	$Pnma$	$Pn'ma'$	Coplanar	$Pnma$	$A_g \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1171	Fe_2SiS_4	$Pnma$	$Pn'm'a$	Non-coplanar	$Pnma$	$A_g \oplus B_{2g} \oplus B_{3g}$	**0**	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
0.1172	Fe_2SiS_4	$Pnma$	$Pnma$	Non-coplanar	$Pnma$	$B_{1g} \oplus B_{2g} \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1173	$Ce_2CoAl_7Ge_4$	$P\bar{4}2_1m$	$Cm'm2'$	Coplanar	$P\bar{4}2_1m$	$A_2 \oplus B_2$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-$	d/h
0.1174	$Ba_3TbRu_2O_9$	$P6_3/mmc$	$P6_3'/m'm'c$	Collinear	$P6_3/mmc$	B_{2g}	$\mathbf{0}$		g/–
0.1175	$Ba_3ErRu_2O_9$	$P6_3/mmc$	P_Cbcn	Non-coplanar	$Amm2$	$Y_1 \oplus 2Y_3$	$(0,0,1)$	Σ^+, α^+	–/p
0.1176	$TbPt_6Al_3$	$R\bar{3}c$	$R\bar{3}c$	Collinear	$R\bar{3}c$	A_{2g}	$\mathbf{0}$	Σ^-	g/–
0.1177	$Cu_2P_2O_7$	$C2/c$	$C2/c'$	Collinear	$C2/c$	B_u	$\mathbf{0}$	α^-	–/–
0.1178	$Cu_2Cl(OH)_3$	$P2_1/c$	Pc	Non-coplanar	Pc	$A' \oplus 2A''$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
0.1179	$La_{0.5}Sr_{3.5}Fe_3O_{7.5}F_{2.6}$	$P2_1/c$	$P2_1/c$	Coplanar	$P2_1/c$	$2B_g$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1180	NiS_2	$Pa\bar{3}$	$Pa\bar{3}$	Non-coplanar	$Pa\bar{3}$	T_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1181	Mn_3Ga	$P6_3/mmc$	$Cm'cm'$	Coplanar	$P6_3/mmc$	E_{2g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
0.1182	Mn_3Ga	$P2_1/m$	$P2_1'/m'$	Coplanar	$P2_1/m$	$2A_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1183	$NdBaMn_2O_6$	$Pmc2_1$	$P2_1am$	Collinear	$Pmc2_1$	B_1	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	d/–
0.1184	Fe_3GaTe_2	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1185	Pr_2In	$P6_3/mmc$	$P6_3/mm'c'$	Collinear	$P6_3/mmc$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1186	Er_2RhSi_3	$P6_3/mmc$	$Cm'c'm$	Collinear	$Cmcm$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1187	Er_2RhSi_3	$P6_3/mmc$	$Cm'c'm$	Collinear	$Cmcm$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1188	$Eu_2CuZn_2P_3$	$P6_3/mmc$	$Cmcm'$	Collinear	$P6_3/mmc$	B_{1u}	$\mathbf{0}$		–/–
0.1189	Tb_2Fe_{17}	$R\bar{3}m$	$C2/m$	Collinear	$R\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1190	$CuCoFe_2O_5$	$Cmcm$	$Cm'c'm$	Coplanar	$Cmcm$	$A_g \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
0.1191	$CuCoFe_2O_5$	$Cmcm$	$C2'/c'$	Non-coplanar	$Cmcm$	$2A_g \oplus B_{3g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
0.1192	$Ni_4Nb_2O_9$	$Pbcn$	$Pb'cn'$	Collinear	$Pbcn$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1193	$MnFe_2O_4$	$Fd\bar{3}m$	$R\bar{3}m'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.1194	$CoFe_2O_4$	$Fd\bar{3}m$	$I4_1/am'd'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.1195	$NiFe_2O_4$	$Fd\bar{3}m$	$R\bar{3}m'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.1196	$ZnFe_2O_4$	$Fd\bar{3}m$	$R\bar{3}m'$	Collinear	$Fd\bar{3}m$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \Sigma^-$	s/–
0.1197	NdNi	$Cmcm$	$Cmc'm'$	Collinear	$Cmcm$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
0.1198	NdNi	$Cmcm$	$C2'/c'$	Collinear	$Cmcm$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.1	Ag_2CrO_2	$C2/m$	$C2'/m$	Collinear	$C2/m$	A_u	$\mathbf{0}$	α^-	–/–
1.0.2	$U(Ru_{0.96}Rh_{0.04})_2Si_2$	$I4/mmm$	$Im'm'm$	Collinear	$Immm$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.3	$CsCoBr_3$	$P6_3/mmc$	$Cm'c2_1'$	Coplanar	$P6_3/mcm$	$A_{1u} \oplus B_{1g}$	$\mathbf{0}$		g/f
1.0.4	$CsNiCl_3$	$P6_3/mmc$	$C22'2_1'$	Coplanar	$P6_3/mcm$	$A_{1u} \oplus B_{1g}$	$\mathbf{0}$		g/f
1.0.5	Sr_3CoIrO_6	$R\bar{3}c$	$P\bar{3}c'1$	Collinear	$P\bar{3}c1$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.6	CoV_2O_6	$C2/m$	$C2'/m'$	Collinear	$C2/m$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.7	$LuFe_2O_4$	$R\bar{3}m$	$C2'/m'$	Collinear	$C2/m$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.8	$Ba_3MnNb_2O_9$	$P\bar{3}m1$	$P31m$	Coplanar	$P\bar{3}m1$	K_1	K		–/f
1.0.9	$CsCoCl_3$	$P6_3/mmc$	$P6_3'/m'cm'$	Collinear	$P6_3/mcm$	B_{1g}	$\mathbf{0}$		g/–
1.0.10	Sr_3NiIrO_6	$R\bar{3}c$	$P\bar{3}c'1$	Collinear	$P\bar{3}c1$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.11	$CeCoGe_3$	$I4mm$	$I4m'm'$	Collinear	$I4mm$	A_1	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	s/–
1.0.12	UAu_2Si_2	$I4/mmm$	$Im'm'm$	Collinear	$Immm$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.13	FeI_2	$P\bar{3}m1$	$C2'/m'$	Collinear	$C2/m$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.14	$CsFeCl_3$	$P6_3/mmc$	$P\bar{6}'2'm$	Coplanar	$P6_3/mmc$	K_1	K		–/f
1.0.15	$La_{0.33}Sr_{0.67}FeO_3$	$R\bar{3}c$	$P3_221$	Non-coplanar	$R32$	$A_2 \oplus \Lambda_1$	$\mathbf{0}$, $(0,0,1)$, $(0,0,-1)$	$\Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	g/p
1.0.16	$La_{0.33}Sr_{0.67}FeO_3$	$R\bar{3}c$	$C2/c$	Collinear	$P\bar{3}c1$	A_{2g}	$\mathbf{0}$	Σ^-	g/–
1.0.17	$CaBaCo_2Fe_2O_7$	$P6_3mc$	$P31m'$	Non-coplanar	$P31m$	$A_1 \oplus E$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
1.0.18	$Cs_2MnU_3F_{16}$	$P6_3/mmc$	$P6_3/mc'm'$	Collinear	$P6_3/mcm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.19	$Cs_2CoU_3F_{16}$	$P6_3/mmc$	$P6_3/mc'm'$	Collinear	$P6_3/mcm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.20	$Cs_2NiU_3F_{16}$	$P6_3/mmc$	$P6_3/mc'm'$	Collinear	$P6_3/mcm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.21	$K_2Mn_3(VO_4)_2CO_3$	$P6_3/m$	$P6_3'/m$	Collinear	$P6_3/m$	B_u	$\mathbf{0}$		–/–
1.0.22	$K_2Mn_3(VO_4)_2CO_3$	$P6_3/m$	$P2_1'$	Coplanar	$P6_3/m$	$A_g \oplus B_u$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/f
1.0.23	$Dy_3Ru_4Al_{12}$	$P6_3/mmc$	$C2'/m'$	Non-coplanar	$Cmcm$	$2A_g \oplus B_{1g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
1.0.24	$ThMn_2$	$P6_3/mmc$	$P\bar{6}'2'm$	Coplanar	$P6_3/mmc$	K_4	K		–/f
1.0.25	$CaBaCo_3FeO_7$	$Pna2_1$	$Pn'a'2_1$	Coplanar	$Pna2_1$	$A_1 \oplus B_2$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
1.0.26	$RbCoBr_3$	$P6_3/mmc$	$P6'_3/m'cm'$	Collinear	$P6_3/mcm$	B_{1g}	$\mathbf{0}$		g/–
1.0.27	Li_2MnTeO_6	$P\bar{3}1c$	$P\bar{3}c1$	Coplanar	$P\bar{3}c1$	E_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
1.0.28	$Tb(DCO_2)_3$	$R3m$	$P3m'1$	Collinear	$P3m1$	A_1	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	s/–
1.0.29	$CeIrGe_3$	$I4mm$	$I4m'm'$	Collinear	$I4mm$	A_1	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	s/–
1.0.30	$LaCa_2Fe_3O_9$	$Pnma$	$Pmn2_1$	Coplanar	$Pnma$	$B_{1g} \oplus B_{2u}$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-, \alpha^+$	d/p
1.0.31	$EuIn_2As_2$	$P6_3/mmc$	$C2'2'2_1$	Coplanar	$P6_3/mmc$	$B_{1u} \oplus B_{2g}$	$\mathbf{0}$	α^+	g/p
1.0.32	$EuIn_2As_2$	$P6_3/mmc$	$P6_12'2'$	Coplanar	$P6_3/mmc$	Δ_1	$(0,0,\frac{1}{3}), (0,0,-\frac{1}{3})$	α^+	–/p
1.0.33	FeF_3	$P6_3/m$	$P6_3/m$	Coplanar	$P6_3/m$	E_{1g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
1.0.34	$RbNiCl_3$	$P6_3/mmc$	$Cm'c2'_1$	Coplanar	$P6_3/mcm$	$A_{1u} \oplus B_{1g}$	$\mathbf{0}$		g/f
1.0.35	$CsMnBr_3$	$P6_3/mmc$	$P\bar{6}2'm'$	Coplanar	$P6_3/mmc$	K_2	K		–/f
1.0.36	$CsMnI_3$	$P6_3/mmc$	$Cm'c2'_1$	Coplanar	$P6_3/mcm$	$A_{1u} \oplus B_{1g}$	$\mathbf{0}$		g/f
1.0.37	$CsMnI_3$	$P6_3/mmc$	$Cm'c2'_1$	Coplanar	$P6_3/mcm$	$A_{1u} \oplus B_{1g}$	$\mathbf{0}$		g/f
1.0.38	$CsCoCl_3$	$P6_3/mmc$	$P6'_3/m'cm'$	Collinear	$P6_3/mcm$	B_{1g}	$\mathbf{0}$		g/–
1.0.39	$BaMnO_3$	$P6_3/mmc$	$P6'_3/m'cm'$	Collinear	$P6_3/mcm$	B_{1g}	$\mathbf{0}$		g/–
1.0.40	$RbFeCl_3$	$P6_3/mmc$	$P\bar{6}'2m'$	Coplanar	$P6_3/mmc$	K_1	K		–/f
1.0.41	$RbNiCl_3$	$P6_3/mmc$	$C22'2'_1$	Coplanar	$P6_3/mmc$	K_2	K		–/f
1.0.42	$CsNiCl_3$	$P6_3/mmc$	$C22'2'_1$	Coplanar	$P6_3/mmc$	K_2	K		–/f
1.0.43	UPd_2Si_2	$I4/mmm$	$I4/mm'm'$	Collinear	$I4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.44	$Ba_3CoSb_2O_9$	$P6_3/mmc$	$Cm'c2'_1$	Coplanar	$P6_3/mmc$	K_2	K		–/f
1.0.45	$Ba_3CoSb_2O_9$	$P6_3/mmc$	$P\bar{6}2m$	Coplanar	$P6_3/mmc$	K_2	K		–/f
1.0.46	$Ba_3MnSb_2O_9$	$C2/c$	$C2$	Coplanar	$C2/c$	B_2	$(\frac{2}{3},0,0), (-\frac{2}{3},0,0)$	α^+	–/p
1.0.47	$MnSe_2$	$Pa\bar{3}$	$Pbca$	Collinear	$Pbca$	B_{1g}	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
1.0.48	$MnSe_2$	$Pa\bar{3}$	$Pca'2'_1$	Collinear	$Pca2_1$	A_2	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
1.0.49	$BaCoSiO_4$	$P6_3$	$P6_3$	Coplanar	$P6_3$	E_1	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
1.0.50	$CoGeO_3$	$C2/c$	$C2'/c'$	Coplanar	$C2/c$	$2A_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
1.0.51	Na_2MnTeO_6	$P\bar{3}1c$	$R\bar{3}'c'$	Coplanar	$R\bar{3}c$	E_u	$\mathbf{0}$	Σ^+, α^-	–/–
1.0.52	$Tb_{14}Ag_{51}$	$P6/m$	$P\bar{6}'$	Non-coplanar	$P\bar{6}$	$A'' \oplus E'$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-$	d/f
1.0.53	Ho_2Ni_2Pb	$Cmmm$	$Cm'm'm$	Collinear	$Cmmm$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.54	Ho_2Ni_2Pb	$Cmmm$	$Cm'm'm$	Collinear	$Cmmm$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
1.0.55	$Nd_{0.33}Sr_{0.67}FeO_3$	$C2/c$	$C2/c$	Non-coplanar	$C2/c$	$A_g \oplus 2B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
1.0.56	$Pr_{0.33}Sr_{0.67}FeO_3$	$C2/c$	$C2/c$	Non-coplanar	$C2/c$	$A_g \oplus 2B_g$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
1.0.57	$NdAlGe$	$I4_1md$	$Fd'd'2$	Collinear	$Fdd2$	A_1	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	s/–
1.0.58	Li_2MnTeO_6	$P\bar{3}1c$	$P\bar{3}c1$	Coplanar	$P\bar{3}c1$	E_g	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
1.0.59	Na_2MnTeO_6	$P\bar{3}1c$	$R3$	Coplanar	$R3c$	E	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-$	d/f
1.0.60	Ce_2SnS_5	$Pbam$	$Pb'a'm'$	Coplanar	$Pbam$	$B_{2u} \oplus B_{3u}$	$\mathbf{0}$	Σ^+, α^-	–/–
1.0.61	Nd_2In	$P6_3/mmc$	$P\bar{6}2'm'$	Non-coplanar	$P\bar{6}2m$	$A'_1 \oplus E''$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/f
1.0.62	Nd_2In	$P6_3/mmc$	$P\bar{6}2'm'$	Non-coplanar	$P\bar{6}2m$	$A'_1 \oplus E''$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/f
1.0.63	Nd_2In	$P6_3/mmc$	$P\bar{6}2'm'$	Non-coplanar	$P\bar{6}2m$	$A'_1 \oplus E''$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/f
1.0.64	$Cr_{0.23}TaS_2$	$P6_3/mmc$	$P\bar{6}'2'm$	Coplanar	$P6_3/mmc$	K_1	K		–/f
1.1	Mn_3O_4	$Pbcm$	P_cnma	Collinear	$Pbcm$	X_4^+	X		–/–
1.2	$CuSe_2O_5$	$C2/c$	P_C2_1/c	Coplanar	$C2/c$	$Y_1^+ \oplus Y_2^+$	$(1,0,0)$	Σ^+	–/–
1.3	Sr_2IrO_4	$I4_1/acd$	P_Icca	Collinear	$Ibca$	X_1^+	$(0,0,1)$		–/–
1.4	$YBa_2Cu_3O_6$+d	$P4/mmm$	C_ammm	Collinear	$P4/mmm$	M_3^-	M		–/–
1.5	$YBa_2Cu_3O_6$+d	$P4/mmm$	F_Smmm	Collinear	$P4/mmm$	A_1^+	A		–/–
1.6	NiO	$Fm\bar{3}m$	C_c2/c	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.7	$NdFe_3B_4O_{12}$	$R32$	C_c2	Collinear	$R32$	T_1	T		–/–
1.8	$CeRu_2Al_{10}$	$Cmcm$	P_Cbcm	Collinear	$Cmcm$	Y_4^-	$(0,1,0)$		–/–
1.9	Li_2VOSiO_4	$P4/nmm$	P_Abcm	Collinear	$Cmme$	Y_3^+	$(1,0,0)$		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
1.10	Na_2IrO_3	$C2/m$	C_c2/m	Collinear	$C2/m$	M_1^-	$(0,1,\frac{1}{2})$		–/–
1.11	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	–/–
1.12	$BaNd_{0.9}Y_{0.1}MoO_6$	$I4/m$	P_I4/m	Collinear	$I4/m$	M_1^+	$(0,0,1)$		–/–
1.13	$Ba_3Nb_2NiO_9$	$P\bar{3}m1$	P_c31c	Coplanar	$P\bar{3}m1$	H_2	H		–/f
1.14	Ho_2BaNiO_5	$Immm$	C_c2/c	Coplanar	$C2/m$	$2M_1^+$	$(1,0,-\frac{1}{2})$	Σ^+	–/–
1.15	Er_2BaNiO_5	$Immm$	C_c2/c	Coplanar	$C2/m$	$2M_1^+$	$(1,0,-\frac{1}{2})$	Σ^+	–/–
1.16	$BaFe_2As_2$	$Fmmm$	C_Amca	Collinear	$Fmmm$	T_3^+	$(1,0,0)$		–/–
1.17	CoV_2O_6-alpha	$C2/m$	C_c2/c	Collinear	$C2/m$	M_2^-	$(1,0,-\frac{1}{2})$		–/–
1.18	MnS_2	$Pa\bar{3}$	P_bca2_1	Collinear	$Pca2_1$	Y_2	Y		–/–
1.19	$PrMn_2O_5$	$Pbam$	P_aca2_1	Coplanar	$Pmc2_1$	$Y_1 \oplus Y_3$	Y	Σ^+, α^+	–/p
1.20	$HoMnO_3$	$Pnma$	P_bmn2_1	Collinear	$Pmn2_1$	Y_4	Y		–/–
1.21	$DyCo_2Si_2$	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.22	$DyCu_2Si_2$	$I4/mmm$	C_c2/m	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.23	La_2CuO_4	$Cmce$	P_Accn	Collinear	$Cmce$	Y_3^+	$(0,1,0)$		–/–
1.24	ZnV_2O_4	$I4_1/amd$	$P_I4_32_12$	Collinear	$I4_122$	M_2	$(0,0,1)$		–/–
1.25	$KFe_3(OH)_6(SO_4)_2$	$R\bar{3}m$	$R_I\bar{3}c$	Coplanar	$R\bar{3}m$	T_3^-	T	Σ^+	–/–
1.26	$CsFe_2Se_3$	$Cmcm$	P_c2_1/c	Collinear	$P2_1/m$	B_2^+	$(0,0,\frac{1}{2})$		–/–
1.27	$TaFe_{1+y}Te_3$	$P2_1/m$	P_c2_1/c	Collinear	$P2_1/m$	A_2^-	$(\frac{1}{2},0,-\frac{1}{2})$		–/–
1.28	CrN	$Fm\bar{3}m$	P_anma	Collinear	$Pmmn$	Z_2^-	Z		–/–
1.29	$LaSrFeO_4$	$I4/mmm$	C_Amca	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.30	$BaCo_2V_2O_8$	$I4_1/acd$	P_Icca	Collinear	$Ibca$	X_4^-	$(0,1,0)$		–/–
1.31	MnO	$Fm\bar{3}m$	C_c2/c	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.32	Lu_2MnCoO_6	$P2_1/c$	P_a2_1	Collinear	$P2_1$	B_1	$(0,0,\frac{1}{2})$		–/–
1.33	$ErAuGe$	$P6_3mc$	P_Cna2_1	Collinear	$Cmc2_1$	Y_1	$(0,1,0)$		–/–
1.34	$HoAuGe$	$P6_3mc$	P_Cna2_1	Coplanar	$Cmc2_1$	$Y_1 \oplus Y_3$	$(0,1,0)$	Σ^+, α^+	–/p
1.35	$LiErF_4$	$I4_1/a$	P_C2_1/c	Collinear	$C2/c$	Y_1^-	$(0,1,0)$		–/–
1.36	Dy_2BaNiO_5	$Immm$	C_c2/c	Coplanar	$C2/m$	$2M_1^+$	$(1,0,-\frac{1}{2})$	Σ^+	–/–
1.37	$VOCl$	$P2/c$	C_a2/c	Collinear	$P2/c$	C_2^+	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.38	Nd_2NaOsO_6	$P2_1/c$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2V_1^+$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
1.39	$LiFeGe_2O_6$	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^+ \oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.40	$SrNdFeO_4$	$I4/mmm$	C_Accm	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.41	$SrNdFeO_4$	$I4/mmm$	C_Amca	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.42	La_2NiO_4	$Cmce$	P_Cmna	Collinear	$Cmce$	Y_3^+	$(0,1,0)$		–/–
1.43	$PrNiO_3$	$Pnma$	C_amc2_1	Collinear	$Pmc2_1$	S_1	S		–/–
1.44	$NdNiO_3$	$Pnma$	C_amc2_1	Coplanar	$Pmc2_1$	$S_1 \oplus S_2$	S	Σ^+	–/f
1.45	$NdNiO_3$	$Pnma$	C_amc2_1	Collinear	$Pmc2_1$	S_1	S		–/–
1.46	Sr_2FeOsO_6	$I4/m$	P_c4/n	Collinear	$P4/n$	Z_1^+	Z		–/–
1.47	Sr_2FeOsO_6	$I4/m$	P_I4/m	Collinear	$I4/m$	M_1^+	$(0,0,1)$		–/–
1.48	$HoNiO_3$	$P2_1/c$	P_a2_1	Coplanar	$P2_1$	$2A_1$	$(\frac{1}{2},0,-\frac{1}{2})$	Σ^+, α^+	–/p
1.49	Ag_2NiO_2	$C2/m$	C_c2/c	Collinear	$C2/m$	A_1^+	$(0,0,\frac{1}{2})$		–/–
1.50	$AgNiO_2$	$P6_322$	$P_B2_12_12$	Collinear	$C222_1$	Y_4	$(0,1,0)$		–/–
1.51	Cs_2CoCl_4	$Pnma$	P_a2_1	Coplanar	$P2_1/c$	$Y_2^+ \oplus Y_2^-$	$(\frac{1}{2},0,0)$	α^+	–/p
1.52	$CaFe_2As_2$	$Fmmm$	C_Amca	Collinear	$Fmmm$	T_3^+	$(1,0,0)$		–/–
1.53	Er_2BaNiO_5	$Immm$	C_c2/c	Coplanar	$C2/m$	$2M_1^+$	$(1,0,-\frac{1}{2})$	Σ^+	–/–
1.54	$GdMn_2O_5$	$Pbam$	P_aca2_1	Coplanar	$Pmc2_1$	$Y_1 \oplus Y_3$	Y	Σ^+, α^+	–/p
1.55	Na_2MnF_5	$P2_1/c$	P_bc	Collinear	Pc	Z_2	$(0,\frac{1}{2},0)$		–/–
1.56	$Gd_2Ti_2O_7$	$Fd\bar{3}m$	$R_I\bar{3}m$	Coplanar	$R\bar{3}m$	T_3^+	T	Σ^+	–/–
1.57	$CuMnO_2$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	R_1^+	$(\frac{1}{2},-\frac{1}{2},\frac{1}{2})$		–/–
1.58	$La_2O_2Fe_2OSe_2$	$I4/mmm$	C_cc	Collinear	Cm	M_1	$(1,0,-\frac{1}{2})$		–/–
1.59	KTb_3F_{12}	$I4/m$	P_I4_2/m	Collinear	$I4/m$	M_2^+	$(1,0,0)$		–/–
1.60	$Ca_3Co_2O_6$	$R\bar{3}c$	P_C2_1/c	Collinear	$C2/c$	Y_1^-	$(0,1,0)$		–/–
1.61	$MnWO_4$	$P2/c$	C_a2/c	Collinear	$P2/c$	C_2^-	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.62	CuO	$C2/c$	P_a2_1/c	Collinear	$P2_1/c$	Y_2^-	$(\frac{1}{2},0,0)$		–/–
1.63	$MnPb_4Sb_6S_{14}$	$P2_1/c$	P_a2_1/c	Collinear	$P2_1/c$	Y_2^-	$(\frac{1}{2},0,0)$		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
1.64	$BaNiF_4$	$Cmc2_1$	P_a2_1	Collinear	$P2_1$	A_1	$(\frac{1}{2},0,-\frac{1}{2})$		–/–
1.65	$SrFeO_2$	$P4/mmm$	F_Smmm	Collinear	$P4/mmm$	A_1^+	A		–/–
1.66	$Fe(ND_3)_2PO_4$	$P2_1/c$	$P_S\bar{1}$	Collinear	$P\bar{1}$	X_1^-	$(\frac{1}{2},0,0)$		–/–
1.67	TmPtIn	$P\bar{6}2m$	A_bbm2	Coplanar	$Pmm2$	$U_2\oplus U_4$	U	Σ^+,α^+	–/p
1.68	$NaNdFeWO_6$	$P2_1$	P_S1	Coplanar	$P1$	$2U_1$	$(\frac{1}{2},0,-\frac{1}{2})$	Σ^+,α^+	–/p
1.69	CoO	$I4/mmm$	C_c2/c	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.70	CoV_2O_6	$C2/m$	C_c2/c	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.71	$SrCo_2V_2O_8$	$I4_1cd$	P_Ica2_1	Collinear	$Iba2$	X_4	$(1,0,0)$		–/–
1.72	Sr_2CoOsO_6	$C2/m$	C_c2/c	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.73	CaV_2O_4	$P2_1/c$	P_a2_1/c	Non-coplanar	$P2_1/c$	$2Y_1^+\oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.74	$BiMn_2O_5$	$Pbam$	C_amc2_1	Coplanar	$Pmc2_1$	$S_2\oplus S_4$	S	Σ^+,α^+	–/p
1.75	$BiMn_2O_5$	$Pbam$	C_am	Non-coplanar	Pm	$C_1\oplus 2C_2$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+,α^+	–/p
1.76	$DyMn_2O_5$	$Pbam$	P_aca2_1	Coplanar	$Pmc2_1$	$Y_1\oplus Y_3$	Y	Σ^+,α^+	–/p
1.77	Sr_2IrO_4	$I4_1/acd$	P_Icca	Coplanar	$Ibca$	$X_1^+\oplus X_2^+$	$(0,0,1)$	Σ^+	–/–
1.78	Li_2MnSiO_4	$P2_1/c$	P_a2_1/c	Collinear	$P2_1/c$	Y_2^+	$(\frac{1}{2},0,0)$		–/–
1.79	Li_2CoSiO_4	$Pna2_1$	C_ac	Collinear	Pc	C_1	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.80	Dy_2CoGa_8	$P4/mmm$	I_c4/mcm	Collinear	$P4/mmm$	A_3^-	A		–/–
1.81	$GdIn_3$	$Pm\bar{3}m$	P_C4/mbm	Collinear	$P4/mmm$	M_1^+	M		–/–
1.82	Nd_2RhIn_8	$P4/mmm$	I_c4/mcm	Collinear	$P4/mmm$	A_3^-	A		–/–
1.83	$BaFeO_{2.5}$	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$2Y_1^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.84	$SrFeO_2F$	$Pm\bar{3}m$	I_c4/mcm	Collinear	$Pm\bar{3}m$	R_1^+	R		–/–
1.85	alpha-Mn	$I\bar{4}2m$	$P_I\bar{4}2_1c$	Non-coplanar	$I\bar{4}2m$	$M_1\oplus M_5$	$(1,0,0)$	Σ^+,α^+	–/p
1.86	GeV_4S_8	$Pmn2_1$	P_ana2_1	Collinear	$Pmn2_1$	Y_1	Y		–/–
1.87	Tb_2CoGa_8	$P4/mmm$	I_c4/mcm	Collinear	$P4/mmm$	A_3^-	A		–/–
1.88	Mn_5Si_3	$Cmcm$	P_Cbcn	Coplanar	$Cmcm$	$Y_1^+\oplus Y_2^+$	$(1,0,0)$	Σ^+	–/–
1.89	$DyFe_3(BO_3)_4$	$P3_121$	P_c3_221	Non-coplanar	$P3_121$	$A_2\oplus A_3$	A	Σ^+,α^+	–/p
1.90	$YFe_3(BO_3)_4$	$P3_121$	C_c2	Collinear	$P3_121$	A_1	A		–/–
1.91	$TbFe_3(BO_3)_4$	$P3_121$	P_c3_221	Collinear	$P3_121$	A_2	A		–/–
1.92	$HoFe_3(BO_3)_4$	$P3_121$	P_c3_221	Non-coplanar	$P3_121$	$A_2\oplus A_3$	A	Σ^+,α^+	–/p
1.93	$HoFe_3(BO_3)_4$	$P3_121$	P_S1	Coplanar	$P3_121$	$2A_2$	A	Σ^+	–/f
1.94	$Ba_3LaRu_2O_9$	$P6_3/mmc$	P_C2_1/c	Collinear	$Cmcm$	Y_1^+	$(0,1,0)$		–/–
1.95	$BaNd_2O_4$	$Pnma$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^+\oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.96	$BaNd_2O_4$	$Pnma$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^+\oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.97	Li_2MnO_3	$C2/m$	C_c2/m	Collinear	$C2/m$	A_1^-	$(0,0,\frac{1}{2})$		–/–
1.98	$DyFe_4Ge_2$	$Cmmm$	P_cc2	Coplanar	$Pmm2$	$Z_1\oplus Z_3$	Z	Σ^+,α^+	–/p
1.99	$CsCoCl_3(D_2O)_2$	$Pcca$	P_bccn	Coplanar	$Pcca$	$Y_1^-\oplus Y_4^-$	Y	Σ^+	–/–
1.100	Cu_2MnSnS_4	$I\bar{4}2m$	C_c2	Collinear	$C2$	M_1	$(1,0,-\frac{1}{2})$		–/–
1.101	$LuMnO_3$	$Pnma$	P_bmn2_1	Collinear	$Pmn2_1$	Y_4	Y		–/–
1.102	U_2Ni_2In	$P4/mbm$	P_c4/mnc	Non-coplanar	$P4/mbm$	$Z_1^+\oplus Z_5^+$	Z	Σ^+	–/–
1.103	U_2Rh_2Sn	$P4/mbm$	P_c4_2/mbc	Collinear	$P4/mbm$	Z_2^-	Z		–/–
1.104	Gd_2CuO_4	$I4/mmm$	C_Accm	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.105	Gd_2CuO_4	$Cmce$	P_Accn	Coplanar	$Cmce$	$Y_1^+\oplus Y_3^+$	$(1,0,0)$	Σ^+	–/–
1.106	Pr_2CuO_4	$I4/mmm$	C_Accm	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.107	Sm_2CuO_4	$I4/mmm$	C_Amca	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.108	$TbMn_2O_5$	$Pbam$	C_am	Coplanar	Pm	$2C_1$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+,α^+	–/p
1.109	$HoMn_2O_5$	$Pbam$	C_am	Coplanar	Pm	$2C_1$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+,α^+	–/p
1.110	$ScMn_6Ge_6$	$P6/mmm$	P_c6/mcc	Collinear	$P6/mmm$	A_1^+	A		–/–
1.111	GdBiPt	$F\bar{4}3m$	C_cc	Collinear	$R3m$	T_1	T		–/–
1.112	$NiTa_2O_6$	$P4_2/mnm$	P_c2_1/c	Collinear	$P2_1/m$	A_1^+	$(\frac{1}{2},0,\frac{1}{2})$		–/–
1.113	$NiSb_2O_6$	$P4_2/mnm$	$P_S\bar{1}$	Collinear	$P2_1/c$	Y_2^+	$(\frac{1}{2},0,0)$		–/–
1.114	Ca_4IrO_6	$R\bar{3}c$	P_C2/c	Coplanar	$C2/c$	$Y_1^-\oplus Y_2^-$	$(0,1,0)$	Σ^+	–/–
1.115	$Dy_3Ru_4Al_{12}$	$P6_3/mmc$	C_c2/c	Non-coplanar	$C2/m$	$2M_1^+\oplus M_2^+$	$(1,0,\frac{1}{2})$	Σ^+	–/–
1.116	$AgMnVO_4$	$Pnma$	P_a2_1/m	Coplanar	$P2_1/m$	$2A_2^+$	$(\frac{1}{2},0,\frac{1}{2})$	Σ^+	–/–
1.117	$NaFePO_4$	$Pnma$	P_c2_1/c	Coplanar	$P2_1/m$	$2A_1^+$	$(\frac{1}{2},0,\frac{1}{2})$	Σ^+	–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
1.118	$GdPO_4$	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^- \oplus Y_2^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.119	$LaMn_3V_4O_{12}$	$Im\bar{3}$	$R_I\bar{3}$	Coplanar	$Im\bar{3}$	$H_2^+H_3^+$	H	Σ^+	–/–
1.120	$BaFe_2Se_3$	$Pnma$	C_ac	Collinear	Pc	C_2	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.121	$NaFeSO_4F$	$C2/c$	P_C2/c	Collinear	$C2/c$	Y_2^+	$(0,1,0)$		–/–
1.122	$Cu_3Bi(SeO_3)_2O_2Br$	$Pmmn$	P_ccen	Coplanar	$Pmmn$	$Z_1^+ \oplus Z_3^+$	Z	Σ^+	–/–
1.123	$Cu_3Y(SeO_3)_2O_2Cl$	$Pmmn$	P_ccen	Coplanar	$Pmmn$	$Z_1^+ \oplus Z_3^+$	Z	Σ^+	–/–
1.124	$YBaFe_4O_7$	$P2_1$	P_a2_1	Coplanar	$P2_1$	$Y_1 \oplus Y_2$	$(\frac{1}{2},0,0)$	Σ^+, α^+	–/p
1.125	LaFeAsO	$Cmme$	I_cbca	Collinear	$Cmme$	T_2^-	$(0,1,\frac{1}{2})$		–/–
1.126	$NaCoSO_4F$	$C2/c$	P_C2/c	Coplanar	$C2/c$	$Y_1^+ \oplus Y_2^+$	$(0,1,0)$	Σ^+	–/–
1.127	$BiNiO(PO_4)$	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^- \oplus Y_2^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.128	$BiCoO(PO_4)$	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^- \oplus Y_2^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.129	$AgFe_3(SO_4)_2(OD)_6$	$R\bar{3}m$	$R_I\bar{3}c$	Coplanar	$R\bar{3}m$	T_3^+	T	Σ^+	–/–
1.130	Cr_2As	$P4/nmm$	P_anma	Collinear	$Pmmn$	Z_2^-	Z		–/–
1.131	Fe_2As	$P4/nmm$	P_anma	Collinear	$P4/nmm$	Z_1^+	Z		–/–
1.132	Mn_2As	$P4/nmm$	P_anma	Collinear	$P4/nmm$	Z_1^+	Z		–/–
1.133	$CuSb_2O_6$	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^+ \oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.134	$Co_2C_{10}O_8H_2$	$C2/m$	P_C2_1/m	Collinear	$C2/m$	Y_1^-	$(0,1,0)$		–/–
1.135	$C_8H_{10}Co_2O_{11}$	$P\bar{1}$	$P_S\bar{1}$	Non-coplanar	$P\bar{1}$	$3X_1^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.136	$AgCrS_2$	Cm	C_cm	Collinear	Cm	M_1	$(1,0,-\frac{1}{2})$		–/–
1.137	Sr_2CaIrO_6	$P2_1/c$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^-	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.138	MgV_2O_4	$I\bar{4}m2$	C_A222_1	Non-coplanar	$F222$	$T_1 \oplus T_2 \oplus T_3$	$(1,0,0)$	Σ^+, α^+	–/p
1.139	Ho_2RhIn_8	$P4/mmm$	P_ccem	Collinear	$Pmmm$	X_2^-	X		–/–
1.140	PrMgPb	$I4/mmm$	P_A2/c	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.141	NdMgPb	$I4/mmm$	P_A2/c	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.142	CeMgPb	$I4/mmm$	C_Amma	Collinear	$Fmmm$	Y_2^-	$(0,1,0)$		–/–
1.143	Mn_3Pt	$Pm\bar{3}m$	P_c4_2/mcm	Collinear	$P4/mmm$	Z_4^-	Z		–/–
1.144	$NH_4FeCl_2(HCOO)$	$C2/c$	P_C2_1/c	Collinear	$C2/c$	Y_1^+	$(0,1,0)$		–/–
1.145	$Mn_3Ni_{20}P_6$	$Fm\bar{3}m$	C_Amca	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.146	LaCrAsO	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_2^+	Z		–/–
1.147	$Li_2Fe(SO_4)_2$	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^+ \oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.148	$CeOs_{1.84}Ir_{0.16}Al_{10}$	$Cmcm$	P_Anma	Collinear	$Cmcm$	Y_4^-	$(0,1,0)$		–/–
1.149	$La_{0.8}Bi_{0.2}Mn_2O_5$	$Pbam$	P_cbam	Non-coplanar	$Pbam$	$Z_2^+ \oplus Z_3^+ \oplus Z_4^+$	Z	Σ^+	–/–
1.150	PrAg	$Pm\bar{3}m$	P_Bmna	Collinear	$P4/mmm$	M_4^+	M		–/–
1.151	$Mn_{0.375}Co_{0.375}Fe_{0.25}$	$Fm\bar{3}m$	P_A2_1/c	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.152	Ce_3NIn	$Pm\bar{3}m$	$P_C\bar{4}b2$	Non-coplanar	$P4/mmm$	$M_4^+ \oplus M_5^-$	M	Σ^+, α^+	–/p
1.153	Mn_3GaC	$Pm\bar{3}m$	$R_I\bar{3}c$	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.154	$NaFeSi_2O_6$	$C2/c$	P_C2_1/c	Collinear	$C2/c$	Y_1^+	$(1,0,0)$		–/–
1.155	$LiFeSO_4F$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^+	$(\frac{1}{2},-\frac{1}{2},0)$		–/–
1.156	$LaMn_3Cr_4O_{12}$	$Im\bar{3}$	R_I3	Collinear	$I23$	H_1	H		–/–
1.157	$FeF_3(H_2O)_2H_2O$	$P4/n$	P_b2_1/c	Collinear	$P4/n$	Z_1^-	Z		–/–
1.158	$YMn_3Al_4O_{12}$	$Im\bar{3}$	P_Innm	Collinear	$Im\bar{3}$	H_1^+	H		–/–
1.159	$Li_2Ni(WO_4)_2$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	U_1^-	$(\frac{1}{2},0,-\frac{1}{2})$		–/–
1.160	UP	$Fm\bar{3}m$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.161	$PrFe_3(BO_3)_4$	$R32$	R_I32	Non-coplanar	$R32$	$T_1 \oplus T_3$	T	Σ^+, α^+	–/p
1.162	NdMg	$Pm\bar{3}m$	P_c4/mcc	Collinear	$P4/mmm$	Z_1^+	Z		–/–
1.163	TmPdIn	$P\bar{6}2m$	$P_c\bar{6}$	Coplanar	$P\bar{6}$	A_4A_6	A	Σ^+	–/f
1.164	Co_3TeO_6	$C2/c$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2X_1^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.165	Ni_3TeO_6	$R3$	R_I3	Collinear	$R3$	T_1	T		–/–
1.166	La_2LiOsO_6	$P2_1/c$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^+	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.167	NiS_2	$Pa\bar{3}$	$P_S\bar{1}$	Non-coplanar	$P\bar{1}$	$3R_1^+$	$(\frac{1}{2},\frac{1}{2},\frac{1}{2})$	Σ^+	–/–
1.168	Sr_2CuTeO_6	$I4/m$	C_c2/c	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.169	$CaCoGe_2O_6$	$C2/c$	P_C2_1/c	Collinear	$C2/c$	Y_1^+	$(1,0,0)$		–/–
1.170	$Tm_5Ni_2In_4$	$Pbam$	C_am	Coplanar	Pm	$2C_1$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+, α^+	–/p
1.171	$Tb_2Fe_2Si_2C$	$C2/m$	C_c2/m	Collinear	$C2/m$	A_2^-	$(0,0,\frac{1}{2})$		–/–

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1.172	$NiTa_2O_6$	$P4_2/mnm$	A_bba2	Collinear	$Pma2$	T_1	T		–/–
1.173	$La_{0.375}Ca_{0.625}MnO_3$	$Pnma$	P_bmc2_1	Coplanar	$Pmc2_1$	$Y_2 \oplus Y_4$	Y	Σ^+, α^+	–/p
1.174	$La_{0.333}Ca_{0.667}MnO_3$	$Pnma$	P_bmc2_1	Coplanar	$Pmc2_1$	$Y_2 \oplus Y_4$	Y	Σ^+, α^+	–/p
1.175	$La_{0.333}Ca_{0.667}MnO_3$	$Pnma$	P_bmn2_1	Coplanar	$Pmn2_1$	$Y_2 \oplus Y_4$	Y	Σ^+, α^+	–/p
1.176	$YbCo_2Si_2$	$I4/mmm$	I_cbca	Collinear	$Cmme$	T_3^+	$(0, 1, \frac{1}{2})$		–/–
1.177	Sr_2CuWO_6	$I4/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	Y_1^-	$(0, \frac{1}{2}, 0)$		–/–
1.178	$Cu_{1.07}Mn_{0.93}O_2$	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^+	$(\frac{1}{2}, -\frac{1}{2}, 0)$		–/–
1.179	NdCoAsO	$P4/nmm$	P_anma	Collinear	$P4/nmm$	Z_3^-	Z		–/–
1.180	$Na_3Co_2SbO_6$	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	X_1^-	$(\frac{1}{2}, 0, 0)$		–/–
1.181	$Ba_3Fe_3O_7F$	$P2_1/m$	P_a2_1/m	Collinear	$P2_1/m$	Y_2^-	$(\frac{1}{2}, 0, 0)$		–/–
1.182	$TlMnO_3$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^+	$(\frac{1}{2}, \frac{1}{2}, 0)$		–/–
1.183	$FePS_3$	$C2/m$	C_c2/m	Collinear	$C2/m$	M_1^-	$(0, 1, \frac{1}{2})$		–/–
1.184	$Na_2Co_2TeO_6$	$P6_322$	$P_C2_12_12_1$	Collinear	$C222_1$	Y_4	$(0, 1, 0)$		–/–
1.185	$GeCu_2O_4$	$I4_1/amd$	$I_c\bar{4}2d$	Coplanar	$I\bar{4}m2$	P_3	$(\frac{1}{2}, \frac{1}{2}, \frac{1}{2})$, $(\frac{1}{2}, \frac{1}{2}, -\frac{1}{2})$	Σ^+	–/f
1.186	$SrRu_2O_6$	$P\bar{3}1m$	$P_c\bar{3}1m$	Collinear	$P\bar{3}1m$	A_2^+	A		–/–
1.187	$TbRh_2Si_2$	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0, 0, 1)$		–/–
1.188	$CeRh_2Si_2$	$I4/mmm$	C_Amca	Collinear	$Fmmm$	Y_1^+	$(0, 1, 0)$		–/–
1.189	$TbMg_3$	$Fm\bar{3}m$	$R_I\bar{3}c$	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.190	$YCr(BO_3)_2$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$R\bar{3}$	T_1^-	T		–/–
1.191	$HoCr(BO_3)_2$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$R\bar{3}$	T_1^-	T		–/–
1.192	$SmMn_2O_5$	$Pbam$	P_bmc2_1	Collinear	$Pmc2_1$	Y_1	Y		–/–
1.193	$CrTe_3$	$P2_1/c$	$P_S\bar{1}$	Collinear	$P\bar{1}$	U_1^-	$(\frac{1}{2}, 0, \frac{1}{2})$		–/–
1.194	$NiWO_4$	$P2/c$	P_a2/c	Collinear	$P2/c$	Y_2^-	$(\frac{1}{2}, 0, 0)$		–/–
1.195	Er_2Ni_2In	$Cmmm$	C_amcm	Collinear	$Pmma$	T_4^-	T		–/–
1.196	MnV_2O_6	$Pbcn$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^+ \oplus Y_2^+$	$(\frac{1}{2}, 0, 0)$	Σ^+	–/–
1.197	$Fe_4Si_2Sn_7O_{16}$	$P\bar{3}m1$	C_c2/m	Coplanar	$C2/m$	$M_1^+ \oplus M_2^+$	$(1, 0, \frac{1}{2})$	Σ^+	–/–
1.198	$Ni_{1.64}Co_{0.36}Mn_{1.28}Ga_{0.72}$	$I4/mmm$	P_I4_2/mnm	Collinear	$I4/mmm$	M_2^+	$(0, 0, 1)$		–/–
1.199	Sc_2NiMnO_6	$P2_1/c$	P_a2_1/c	Collinear	$P2_1/c$	Y_2^+	$(\frac{1}{2}, 0, 0)$		–/–
1.200	U_2Ni_2Sn	$P4/mbm$	C_cmcm	Collinear	$P4/mbm$	Z_2^-	Z		–/–
1.201	Cr_2ReO_6	$P4_2/mnm$	P_a2_1/c	Non-coplanar	$P2_1/c$	$2Y_1^+ \oplus Y_2^+$	$(\frac{1}{2}, 0, 0)$	Σ^+	–/–
1.202	$CrReO_4$	$C2/m$	C_c2/c	Coplanar	$C2/m$	$M_1^- \oplus M_2^-$	$(1, 0, -\frac{1}{2})$	Σ^+	–/–
1.203	Ni_2SiO_4	$Pnma$	P_c2_1/c	Coplanar	$Pnma$	$U_1^+U_4^+$	U	Σ^+	–/–
1.204	Ni_2SiO_4	$Pnma$	P_c2_1/c	Coplanar	$P2_1/m$	$2A_1^+$	$(\frac{1}{2}, 0, \frac{1}{2})$	Σ^+	–/–
1.205	$Dy_2Fe_2Si_2C$	$C2/m$	C_c2/m	Collinear	$C2/m$	A_2^-	$(0, 0, \frac{1}{2})$		–/–
1.206	$Dy_2Fe_2Si_2C$	$C2/m$	$P_S\bar{1}$	Collinear	$C2/m$	A_2^-	$(0, 0, \frac{1}{2})$		–/–
1.207	U_2Rh_2Sn	$P4/mbm$	P_c4_2/mbc	Non-coplanar	$P4/mbm$	$Z_2^- \oplus Z_5^-$	Z	Σ^+	–/–
1.208	UAs	$Fm\bar{3}m$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0, 0, 1)$		–/–
1.209	FeI_2	$P\bar{3}m1$	C_c2/c	Collinear	$C2/m$	A_2^-	$(0, 0, \frac{1}{2})$		–/–
1.210	$FePSe_3$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	X_1^+	$(\frac{1}{2}, 0, 0)$		–/–
1.211	Dy_2O_2S	$P\bar{3}m1$	C_c2/c	Collinear	$C2/m$	M_2^-	$(1, 0, \frac{1}{2})$		–/–
1.212	Dy_2O_2Se	$P\bar{3}m1$	C_c2/c	Collinear	$C2/m$	M_2^-	$(1, 0, \frac{1}{2})$		–/–
1.213	Ho_2O_2Se	$P\bar{3}m1$	P_A2/c	Collinear	$C2/m$	Y_2^-	$(1, 0, 0)$		–/–
1.214	Yb_2O_2Se	$P\bar{3}m1$	C_c2/c	Collinear	$P\bar{3}m1$	A_2^-	A		–/–
1.215	UP_2	$P4/nmm$	P_c4/ncc	Collinear	$P4/nmm$	Z_1^+	Z		–/–
1.216	Nd_2BaNiO_5	$Immm$	C_c2/c	Coplanar	$C2/m$	$2M_1^+$	$(1, 0, -\frac{1}{2})$	Σ^+	–/–
1.217	Tb_2BaNiO_5	$Immm$	C_c2/c	Coplanar	$C2/m$	$2M_1^+$	$(1, 0, -\frac{1}{2})$	Σ^+	–/–
1.218	Tm_2BaNiO_5	$Immm$	$P_S\bar{1}$	Coplanar	$C2/m$	$2M_1^+$	$(1, 0, -\frac{1}{2})$	Σ^+	–/–
1.219	CuF_2	$P2_1/c$	$P_S\bar{1}$	Collinear	$P2_1/c$	Y_2^+	$(\frac{1}{2}, 0, 0)$		–/–
1.220	$YBa_2Fe_3O_{8.08}$	$P4/mmm$	I_bmma	Collinear	$P4/mmm$	A_1^+	A		–/–
1.221	$YBa_2Fe_3O_{7.84}$	$Pmmm$	C_a2/m	Collinear	$Pmmm$	R_1^+	R		–/–
1.222	Er_2CoGa_8	$P4/mmm$	P_amma	Collinear	$Pmmm$	X_2^-	X		–/–
1.223	Tm_2CoGa_8	$P4/mmm$	C_ammm	Collinear	$Pmmm$	U_2^-	U		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
1.224	$CoNb_2O_6$	$Pbcn$	$P_c2_12_12_1$	Coplanar	$P2_12_12$	$Z_1 \oplus Z_2$	Z	Σ^+, α^+	–/p
1.225	$ScMn_6Ge_6$	$P6/mmm$	P_c6/mcc	Collinear	$P6/mmm$	A_1^+	A		–/–
1.226	$CeCo_2Ge_4O_{12}$	$P4/nbm$	P_bnna	Coplanar	$P4/nbm$	$Z_2^- \oplus Z_3^-$	Z	Σ^+	–/–
1.227	$Ca_2Cr_2O_5$	$Ima2$	P_C2_1	Coplanar	$Ima2$	$2X_1$	$(1,0,0)$	Σ^+, α^+	–/p
1.228	$RuCl_3$	$C2/m$	P_C2/m	Collinear	$C2/m$	Y_2^+	$(0,1,0)$		–/–
1.229	$BaMoP_2O_8$	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	U_1^-	$(\frac{1}{2},0,\frac{1}{2})$		–/–
1.230	$NiPS_3$	$C2/m$	P_C2_1/m	Collinear	$C2/m$	Y_1^-	$(0,1,0)$		–/–
1.231	$NiPS_3$	$C2/m$	P_S1	Coplanar	$C2$	$2Y_1$	$(0,1,0)$	Σ^+, α^+	–/p
1.232	$CuMnSb$	$F\bar{4}3m$	C_cc	Collinear	$R3m$	T_1	T		–/–
1.233	$CuMnSb$	$F\bar{4}3m$	R_I3c	Collinear	$R3m$	T_1	T		–/–
1.234	$Ca_2Sr_2IrO_6$	$R\bar{3}$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2T_1^+$	$(0,\frac{1}{2},-\frac{1}{2})$	Σ^+	–/–
1.235	$Ba(TiO)Cu_4(PO_4)_4$	$P42_12$	$P_c4_22_12$	Non-coplanar	$P42_12$	$Z_2 \oplus Z_5$	Z	Σ^+, α^+	–/p
1.236	$ErFeCuGe_4O_{12}$	$P4/nbm$	P_c4/nnc	Collinear	$P4/nbm$	Z_3^-	Z		–/–
1.237	VCl_2	$P\bar{3}m1$	C_cc	Coplanar	$P\bar{3}m1$	H_1	H		–/f
1.238	VBr_2	$P\bar{3}m1$	C_cc	Coplanar	$P\bar{3}m1$	H_1	H		–/f
1.239	$MnBr_2$	$P\bar{3}m1$	C_c2/m	Collinear	$C2/m$	A_1^+	$(0,0,\frac{1}{2})$		–/–
1.240	FeI_2	$P\bar{3}m1$	$P_S\bar{1}$	Collinear	$P\bar{1}$	X_1^-	$(\frac{1}{2},0,0)$		–/–
1.241	$FeCl_2$	$R\bar{3}m$	$R_I\bar{3}c$	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.242	$FeBr_2$	$P\bar{3}m1$	$P_c\bar{3}c1$	Collinear	$P\bar{3}m1$	A_1^+	A		–/–
1.243	Sr_2CoOsO_6	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	R_1^+	$(\frac{1}{2},\frac{1}{2},-\frac{1}{2})$		–/–
1.244	$CrCl_3$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$R\bar{3}$	T_1^+	T		–/–
1.245	$CoBr_2$	$P\bar{3}m1$	C_c2/c	Collinear	$P\bar{3}m1$	A_1^+	A		–/–
1.246	$CoCl_2$	$R\bar{3}m$	C_c2/c	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.247	$NiCl_2$	$R\bar{3}m$	C_c2/c	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.248	$NiBr_2$	$R\bar{3}m$	C_c2/c	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.249	K_2NiF_4	$I4/mmm$	C_Amca	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.250	$KNiF_3$	$Pm\bar{3}m$	I_c4/mcm	Collinear	$Pm\bar{3}m$	R_1^+	R		–/–
1.251	$NdCo_2P_2$	$I4/mmm$	P_c4/mcc	Collinear	$P4/mmm$	Z_3^-	Z		–/–
1.252	$CaCo_2P_2$	$I4/mmm$	P_Imnn	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.253	$CeCo_2P_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.254	$UNiGa_5$	$P4/mmm$	I_c4/mcm	Collinear	$P4/mmm$	A_1^+	A		–/–
1.255	$UPtGa_5$	$P4/mmm$	P_c4/mcc	Collinear	$P4/mmm$	Z_1^+	Z		–/–
1.256	$BaNi_2V_2O_8$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$R\bar{3}$	T_1^+	T		–/–
1.257	$BaNi_2As_2O_8$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	R_1^+	$(\frac{1}{2},\frac{1}{2},\frac{1}{2})$		–/–
1.258	$Cu_3Co_2SbO_6$	$C2/c$	P_C2_1/c	Collinear	$C2/c$	Y_2^+	$(1,0,0)$		–/–
1.259	$Cu_3Ni_2SbO_6$	$C2/c$	P_C2/c	Collinear	$C2/c$	Y_2^+	$(1,0,0)$		–/–
1.260	$NaMnGe_2O_6$	$C2/c$	$P_S\bar{1}$	Collinear	$P\bar{1}$	X_1^-	$(\frac{1}{2},0,0)$		–/–
1.261	$NpRhGa_5$	$P4/mmm$	P_c4/mcc	Collinear	$P4/mmm$	Z_1^+	Z		–/–
1.262	$NpRhGa_5$	$P4/mmm$	C_cmcm	Collinear	$P4/mmm$	Z_1^+	Z		–/–
1.263	$Ca_3Ru_2O_7$	$Cmc2_1$	P_Cna2_1	Collinear	$Cmc2_1$	Y_1	$(1,0,0)$		–/–
1.264	$CoPS_3$	$C2/m$	P_C2_1/m	Collinear	$C2/m$	Y_1^-	$(0,1,0)$		–/–
1.265	$CuMnSb$	$F\bar{4}3m$	R_I3c	Collinear	$R3m$	T_1	T		–/–
1.266	$SmFe_3(BO_3)_4$	$R32$	P_S1	Coplanar	$R32$	$2T_1$	T	Σ^+	–/f
1.267	$Dy_2Co_3Al_9$	$Cmcm$	A_amm2	Non-coplanar	$Amm2$	$Z_1 \oplus Z_2 \oplus Z_4$	$(\frac{1}{2},0,0)$	Σ^+, α^+	–/p
1.268	$Fe_{0.48}TiSe_2$	$C2/m$	C_c2/c	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.269	$Fe_{0.48}TiSe_2$	$C2/m$	C_c2/c	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.270	$Fe_{0.25}TiSe_2$	$C2/m$	C_c2/c	Collinear	$C2/m$	M_2^-	$(1,0,-\frac{1}{2})$		–/–
1.271	$CeSbTe$	$P4/nmm$	P_c4/ncc	Collinear	$P4/nmm$	Z_1^+	Z		–/–
1.272	$CeNiAsO$	$P4/nmm$	P_a2_1	Coplanar	$P2_1/m$	$Y_1^+ \oplus Y_2^-$	$(\frac{1}{2},0,0)$	α^+	–/p
1.273	$Pr_{0.5}Sr_{0.5}MnO_3$	$Fmmm$	C_Amcm	Collinear	$Fmmm$	T_3^-	$(1,0,0)$		–/–
1.274	$DyFeWO_6$	$Pna2_1$	C_ac	Non-coplanar	Pc	$2C_1 \oplus C_2$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+, α^+	–/p
1.275	$Ba_6Co_6ClO_{15.5}$	$P\bar{6}m2$	$P_c\bar{6}c2$	Collinear	$P\bar{6}m2$	A_3	A		–/–
1.276	$Na_{0.5}Li_{0.5}FeGe_2O_6$	$P2_1/c$	P_a2_1/c	Collinear	$P2_1/c$	Y_2^+	$(\frac{1}{2},0,0)$		–/–
1.277	$LiFeCr_4O_8$	$F\bar{4}3m$	$I\bar{4}m'2'$	Collinear	$F\bar{4}3m$	A_1	$\boldsymbol{0}$	$\boldsymbol{M}$, Σ^-	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
1.278	$Cu(NCS)_2$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	R_1^+	$(\frac{1}{2},\frac{1}{2},\frac{1}{2})$		–/–
1.279	$Ho_2Cu_2O_5$	$Pna2_1$	P_a2_1	Non-coplanar	$P2_1$	$2Y_1 \oplus Y_2$	$(\frac{1}{2},0,0)$	Σ^+, α^+	–/p
1.280	$Yb_2Cu_2O_5$	$Pna2_1$	P_ac	Coplanar	Pc	$Y_1 \oplus Y_2$	$(\frac{1}{2},0,0)$	Σ^+, α^+	–/p
1.281	$YBaCuFeO_5$	$P4mm$	F_Smm2	Collinear	$P4mm$	A_3	A		–/–
1.282	$YBaCuFeO_5$	$P4/mmm$	C_a2/m	Collinear	$P4/mmm$	A_4^+	A		–/–
1.283	$YBaCuFeO_5$	$P4/mmm$	C_a2/m	Collinear	$P4/mmm$	A_4^+	A		–/–
1.284	$YBaCuFeO_5$	$P4/mmm$	C_a2/m	Collinear	$P4/mmm$	A_2^-	A		–/–
1.285	$YBaCuFeO_5$	$P4/mmm$	F_Smmm	Collinear	$P4/mmm$	A_4^+	A		–/–
1.286	$Fe_2(C_2O_4)_3{\cdot}4H_2O$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^-	$(\frac{1}{2},-\frac{1}{2},0)$		–/–
1.287	V_2O_3	$C2/c$	P_C2_1/c	Collinear	$C2/c$	Y_1^-	$(1,0,0)$		–/–
1.288	$CePd_2Si_2$	$I4/mmm$	C_Accm	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.289	$CePd_2Ge_2$	$I4/mmm$	C_Accm	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.290	$CeRh_2Si_2$	$I4/mmm$	C_Amca	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.291	$CeAu_2Si_2$	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.292	$HoNi_2B_2C$	$I4/mmm$	C_Amca	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.293	$NdNi_2B_2C$	$I4/mmm$	C_c2/c	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.294	$HoNi_2B_2C$	$I4/mmm$	C_Amca	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.295	$DyNi_2B_2C$	$I4/mmm$	C_Amca	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.296	$PrNi_2B_2C$	$I4/mmm$	C_Amca	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.297	$CuFe_2(P_2O_7)_2$	$P2_1/c$	P_a2_1/c	Collinear	$P2_1/c$	Y_2^+	$(\frac{1}{2},0,0)$		–/–
1.298	$BaCdVO(PO_4)_2$	$Pbca$	P_bna2_1	Collinear	$Pca2_1$	Y_1	Y		–/–
1.299	$GdMn_2O_5$	$Pbam$	P_aca2_1	Non-coplanar	$Pmc2_1$	$Y_1 \oplus Y_2 \oplus Y_3$	Y	Σ^+, α^+	–/p
1.300	$GdMn_2O_5$	$Pbam$	P_aca2_1	Non-coplanar	$Pmc2_1$	$Y_1 \oplus Y_2 \oplus Y_3$	Y	Σ^+, α^+	–/p
1.301	$BiMnTeO_6$	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^- \oplus Y_2^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.302	Ba_2CoO_4	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^+ \oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.303	$Dy_3Ru_4Al_{12}$	$P6_3/mmc$	C_c2/c	Non-coplanar	$C2/m$	$2M_1^+ \oplus M_2^+$	$(1,0,\frac{1}{2})$	Σ^+	–/–
1.304	$ZnMnO_3$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	U_1^-	$(\frac{1}{2},0,\frac{1}{2})$		–/–
1.305	Mn_5Si_3	$Cmcm$	P_Cbcn	Collinear	$Cmcm$	Y_2^+	$(1,0,0)$		–/–
1.306	$Na_2BaMn(VO_4)_2$	$C2/c$	P_C2_1/c	Coplanar	$C2/c$	$Y_1^+ \oplus Y_2^+$	$(1,0,0)$	Σ^+	–/–
1.307	Mn_5Si_3	$P6_3/mcm$	P_S1	Non-coplanar	$Amm2$	$3Y_4$	$(0,1,0)$	Σ^+, α^+	–/p
1.308	$MnBi_2Te_4$	$R\bar{3}m$	$R_I\bar{3}c$	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.309	$MnBi_2Te_4$	$R\bar{3}m$	$R_I\bar{3}c$	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.310	$MnBi_4Te_7$	$P\bar{3}m1$	$P_c\bar{3}c1$	Collinear	$P\bar{3}m1$	A_2^-	A		–/–
1.311	$BaMo(PO_4)_2$	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	T_1^-	$(0,\frac{1}{2},\frac{1}{2})$		–/–
1.312	$HoNi_2B_2C$	$I4/mmm$	C_Amca	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.313	$GdFeZnGe_4O_{12}$	$P4/nbm$	P_bnna	Collinear	$P4/nbm$	Z_3^-	Z		–/–
1.314	$NaFeSi_2O_6$	$C2/c$	P_C2_1/c	Collinear	$C2/c$	Y_1^+	$(1,0,0)$		–/–
1.315	$Mn_{0.81}Cu_{0.19}WO_4$	$P2/c$	P_a2/c	Collinear	$P2/c$	Y_2^-	$(\frac{1}{2},0,0)$		–/–
1.316	$La_{0.25}Pr_{0.75}Co_2P_2$	$I4/mmm$	P_c4/mcc	Collinear	$P4/mmm$	Z_3^-	Z		–/–
1.317	$La_{0.25}Pr_{0.75}Co_2P_2$	$I4/mmm$	C_c2/c	Coplanar	$P4/mmm$	$2Z_3^-$	Z	Σ^+	–/–
1.318	$Sr_2Ru_{0.95}Fe_{0.05}O_4$	$I4/mmm$	C_cmca	Collinear	$Cmme$	Z_1^+	$(0,0,\frac{1}{2})$		–/–
1.319	$Sr_2Ru_{0.95}Fe_{0.05}O_4$	$I4/mmm$	C_cmcm	Collinear	$Cmmm$	Z_1^+	$(0,0,\frac{1}{2})$		–/–
1.320	Sr_2FeWO_6	$P2_1/c$	$P_S\bar{1}$	Collinear	$P\bar{1}$	U_1^-	$(\frac{1}{2},0,\frac{1}{2})$		–/–
1.321	Ba_2FeWO_6	$I4/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	Z_1^-	$(0,0,\frac{1}{2})$		–/–
1.322	Sr_2FeWO_5N	$I4/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	Y_1^+	$(0,\frac{1}{2},0)$		–/–
1.323	$CoGeO_3$	$C2/c$	P_C2_1/c	Coplanar	$C2/c$	$2Y_1^+$	$(1,0,0)$	Σ^+	–/–
1.324	$DyMn_2O_5$	$Pbam$	P_aca2_1	Coplanar	$Pmc2_1$	$Y_1 \oplus Y_3$	Y	Σ^+, α^+	–/p
1.325	$PrMn_2O_5$	$Pbam$	P_cc	Collinear	Pm	Y_1	$(\frac{1}{2},0,0)$		–/–
1.326	$PrMn_2O_5$	$Pbam$	P_bnma	Non-coplanar	$Pbam$	$Z_1^+ \oplus Z_2^+ \oplus Z_4^+$	Z	Σ^+	–/–
1.327	$LaMn_2O_5$	$Pbam$	P_cbam	Non-coplanar	$Pbam$	$Z_2^+ \oplus Z_3^+ \oplus Z_4^+$	Z	Σ^+	–/–
1.328	Yb_2CoMnO_6	$P2_1/c$	P_a2_1	Coplanar	$P2_1$	$2B_1$	$(0,0,\frac{1}{2})$	Σ^+, α^+	–/p
1.329	$YbLuCoMnO_6$	$P2_1/c$	P_a2_1	Coplanar	$P2_1$	$2B_1$	$(0,0,\frac{1}{2})$	Σ^+, α^+	–/p
1.330	Lu_2CoMnO_6	$P2_1/c$	P_a2_1	Collinear	$P2_1$	B_1	$(0,0,\frac{1}{2})$		–/–
1.331	$Li_{0.31}Na_{0.69}FeGe_2O_6$	$P2_1/c$	P_a2_1/c	Collinear	$P2_1/c$	Y_1^-	$(\frac{1}{2},0,0)$		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
1.332	$Li_{0.22}Na_{0.78}FeGe_2O_6$	$C2/c$	P_C2_1/c	Collinear	$C2/c$	Y_1^-	$(1,0,0)$		–/–
1.333	$Yb_2Pd_2(In_{0.4}Sn_{0.6})$	$P4/mbm$	P_c4/mbm	Coplanar	$P4/mbm$	Z_5^+	Z	Σ^+	–/–
1.334	Pr_2Pd_2In	$P4/mbm$	P_bnma	Collinear	$Pbam$	Z_4^+	Z		–/–
1.335	Nd_2Pd_2In	$P4/mbm$	P_cmc2_1	Collinear	$Pmm2$	Z_1	Z		–/–
1.336	$Tb_2Pd_{2.05}Sn_{0.95}$	$P4/mbm$	P_bnma	Coplanar	$P4/mbm$	$Z_2^- \oplus Z_3^-$	Z	Σ^+	–/–
1.337	$U_2Pd_{2.35}Sn_{0.65}$	$P4/mbm$	P_c4/mnc	Collinear	$P4/mbm$	Z_3^-	Z		–/–
1.338	U_2Ni_2In	$P4/mbm$	P_c4/mnc	Coplanar	$P4/mbm$	Z_5^+	Z	Σ^+	–/–
1.339	$EuAs_3$	$C2/m$	C_c2/m	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.340	$LuMnO_3$	$Pnma$	P_bmn2_1	Coplanar	$Pmn2_1$	$Y_3 \oplus Y_4$	Y	Σ^+	–/f
1.341	$TmMnO_3$	$Pnma$	P_bmn2_1	Collinear	$Pmn2_1$	Y_4	Y		–/–
1.342	$Co_3(PO_4)_2$	$P2_1/c$	P_a2_1/c	Non-coplanar	$P2_1/c$	$2Y_1^+ \oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.343	$Ba_2Co_9O_{14}$	$R\bar{3}m$	C_c2/c	Coplanar	$R\bar{3}m$	$2T_1^+$	T	Σ^+	–/–
1.344	$Ba_2Co_9O_{14}$	$R\bar{3}m$	C_c2/m	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.345	$NaMnF_4$	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^+ \oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.346	$TlMnF_4$	$C2/c$	P_C2/c	Collinear	$C2/c$	Y_1^-	$(1,0,0)$		–/–
1.347	$CuFeO_2$	$R\bar{3}m$	C_a2/c	Collinear	$P2/c$	C_1^+	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.348	$CuFeO_2$	$R\bar{3}m$	C_c2/c	Collinear	$C2/m$	A_1^+	$(0,0,\frac{1}{2})$		–/–
1.349	$CoNb_3S_6$	$P6_322$	$P_B2_12_12$	Collinear	$C222_1$	Y_1	$(0,1,0)$		–/–
1.350	Nd_2BaCoO_5	$Immm$	C_c2/c	Coplanar	$C2/m$	$2M_1^+$	$(1,0,-\frac{1}{2})$	Σ^+	–/–
1.351	$Ba_2Co_2F_7Cl$	$P2_1/m$	P_a2_1/m	Collinear	$P2_1/m$	Y_1^+	$(\frac{1}{2},0,0)$		–/–
1.352	$Ba_2Ni_2F_7Cl$	$P2_1/m$	P_c2_1/c	Coplanar	$P2_1/m$	$2Y_1^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.353	$SmNiO_3$	$Pnma$	C_amc2_1	Collinear	$Pmc2_1$	S_1	S		–/–
1.354	$EuNiO_3$	$Pnma$	C_amc2_1	Collinear	$Pmc2_1$	S_1	S		–/–
1.355	$DyGe_3$	$P2_1/m$	P_a2_1/m	Collinear	$P2_1/m$	Y_2^-	$(\frac{1}{2},0,0)$		–/–
1.356	Ho_3Ge_4	$Cmcm$	P_Bnna	Collinear	$Cmcm$	Y_2^-	$(0,1,0)$		–/–
1.357	Ho_3Ge_4	$Cmcm$	P_c2_1/c	Coplanar	$Cmcm$	$Y_2^- \oplus Y_4^-$	$(0,1,0)$	Σ^+	–/–
1.358	$HoGe_{1.5}$	$P6/mmm$	C_cmcm	Collinear	$P6/mmm$	A_1^+	A		–/–
1.359	Dy_3Ge_4	$Cmcm$	P_a2_1/m	Coplanar	$Cmcm$	$Y_2^- \oplus Y_4^-$	$(0,1,0)$	Σ^+	–/–
1.360	$DyGe_{1.3}$	$P6/mmm$	C_cmcm	Collinear	$P6/mmm$	A_1^+	A		–/–
1.361	$DyGe$	$Cmcm$	C_c2/c	Collinear	$C2/m$	A_2^-	$(0,0,\frac{1}{2})$		–/–
1.362	Er_3Ge_4	$Cmcm$	P_Cbcm	Coplanar	$Cmcm$	$Y_2^- \oplus Y_4^-$	$(0,1,0)$	Σ^+	–/–
1.363	$TbCu_2Si_2$	$I4/mmm$	$P_S\bar{1}$	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.364	$HoCu_2Si_2$	$I4/mmm$	$P_S\bar{1}$	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.365	$TbCu_2Si_2$	$I4/mmm$	$P_S\bar{1}$	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.366	$HoCu_2Si_2$	$I4/mmm$	C_c2/m	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.367	Pu_2O_3	$P\bar{3}m1$	C_c2/c	Collinear	$C2/m$	M_1^+	$(1,0,\frac{1}{2})$		–/–
1.368	$Tb_2Ni_3Si_5$	$Ibam$	P_Ibam	Collinear	$Ibam$	X_1^+	$(0,1,0)$		–/–
1.369	$HoFe_2Ge_2$	$I4/mmm$	C_Amca	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.370	Li_2CuO_2	$Immm$	P_Innm	Collinear	$Immm$	X_1^+	$(0,0,1)$		–/–
1.371	Nd_2NiO_4	$Cmce$	P_Cmna	Collinear	$Cmce$	Y_3^+	$(0,1,0)$		–/–
1.372	$Sr_2MnO_2Ag_{1.5}Se_2$	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.373	$Li_3Ni_2SbO_6$	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	Y_1^-	$(0,\frac{1}{2},0)$		–/–
1.374	$HoNiGe$	$Pnma$	P_cc	Collinear	Pm	A_1	$(\frac{1}{2},0,\frac{1}{2})$		–/–
1.375	$CeScGe$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	Z_1^-	$(0,0,\frac{1}{2})$		–/–
1.376	$CeScGe$	$I4/mmm$	C_Amcm	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.377	$CeScSi$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	Z_1^-	$(0,0,\frac{1}{2})$		–/–
1.378	$CeScSi$	$I4/mmm$	C_Amcm	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.379	$ErNiGe$	$Pnma$	P_a2_1/c	Collinear	$P2_1/c$	Y_1^+	$(\frac{1}{2},0,0)$		–/–
1.380	Sr_2FeO_3Cl	$P4/nmm$	$P_C\bar{4}2_1m$	Coplanar	$P4/nmm$	M_3	M		–/f
1.381	Sr_2FeO_3Br	$P4/nmm$	$P_C\bar{4}2_1m$	Coplanar	$P4/nmm$	M_3	M		–/f
1.382	Ca_2FeO_3Cl	$P4/nmm$	$P_C\bar{4}2_1m$	Coplanar	$P4/nmm$	M_3	M		–/f
1.383	Ca_2FeO_3Br	$P4/nmm$	$P_C\bar{4}2_1m$	Coplanar	$P4/nmm$	M_3	M		–/f
1.384	USb_2	$P4/nmm$	P_c4/ncc	Collinear	$P4/nmm$	Z_1^+	Z		–/–
1.385	Sr_2FeO_3F	$P4/nmm$	$P_C\bar{4}2_1m$	Coplanar	$P4/nmm$	M_3	M		–/f

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1.386	Sr_2FeO_3F	$P4/nmm$	$I_c\bar{4}2m$	Coplanar	$P4/nmm$	A_3	A		$-/f$
1.387	Sr_2FeO_3F	$P4/nmm$	$P_C\bar{4}2m$	Coplanar	$P4/nmm$	M_3	M		$-/f$
1.388	$La_2NiO_3F_2$	$Cccm$	P_Amna	Collinear	$Cccm$	Y_3^-	$(0,1,0)$		$-/-$
1.389	Sr_2CoO_3Cl	$P4/nmm$	P_Bccm	Collinear	$Cmme$	Y_3^+	$(1,0,0)$		$-/-$
1.390	$La_2NiO_3F_{1.93}$	$C2/c$	P_C2_1/c	Collinear	$C2/c$	Y_1^-	$(1,0,0)$		$-/-$
1.391	Fe_2MnBO_5	$Pbam$	P_bnma	Collinear	$Pbam$	Z_1^-	Z		$-/-$
1.392	$KCuMnS_2$	$I4/mmm$	C_Ammm	Collinear	$Fmmm$	T_3^+	$(1,0,0)$		$-/-$
1.393	$Pb_2BaCuFeO_5Br$	$P4/mmm$	I_bmma	Collinear	$P4/mmm$	A_3^-	A		$-/-$
1.394	$Pb_2BaCuFeO_5Cl$	$P4/mmm$	I_bmma	Collinear	$P4/mmm$	A_3^-	A		$-/-$
1.395	$NdCeBaCuFeO_7$	$I4/mmm$	C_Accm	Collinear	$Fmmm$	T_1^+	$(1,0,0)$		$-/-$
1.396	$NdCeBaCu_{0.9}Co_{1.1}O_7$	$I4/mmm$	C_Amca	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		$-/-$
1.397	$Cu_3Mg(OD)_6Br_2$	$P\bar{3}m1$	C_c2/m	Collinear	$P\bar{3}m1$	A_1^+	A		$-/-$
1.398	Pr_2CuO_4	$I4/mmm$	C_Accm	Collinear	$Fmmm$	T_1^+	$(1,0,0)$		$-/-$
1.399	Pr_2CuO_4	$I4/mmm$	C_Accm	Collinear	$Fmmm$	T_1^+	$(1,0,0)$		$-/-$
1.400	$TbAg_2$	$I4/mmm$	C_Amca	Collinear	$Fmmm$	T_1^+	$(1,0,0)$		$-/-$
1.401	Nd_5Pb_3	$P6_3/mcm$	P_Bnma	Collinear	$Cmcm$	Y_1^+	$(1,0,0)$		$-/-$
1.402	Nd_5Pb_3	$P6_3/mcm$	P_Bnma	Collinear	$Cmcm$	Y_1^+	$(1,0,0)$		$-/-$
1.403	La_2CoO_4	$Cmce$	P_Cmna	Collinear	$Cmce$	Y_3^+	$(0,1,0)$		$-/-$
1.404	$Sr_2CuO_2Cl_2$	$I4/mmm$	C_Amca	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		$-/-$
1.405	La_2CuO_4	$Cmce$	P_Accn	Collinear	$Cmce$	Y_3^+	$(0,1,0)$		$-/-$
1.406	Nd_2CuO_4	$I4/mmm$	C_Accm	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		$-/-$
1.407	Nd_2CuO_4	$I4/mmm$	C_Amca	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		$-/-$
1.408	Nd_2CuO_4	$I4/mmm$	C_Accm	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		$-/-$
1.409	$NaMnO_2$	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	R_1^+	$(\frac{1}{2},\frac{1}{2},\frac{1}{2})$		$-/-$
1.410	$Sr_2Fe_{1.9}Cr_{0.1}O_5$	$Imma$	P_Imna	Collinear	$Imma$	X_1^+	$(0,1,0)$		$-/-$
1.411	$EuMn_2P_2$	$P\bar{3}m1$	C_c2/m	Collinear	$P\bar{3}m1$	A_1^+	A		$-/-$
1.412	$Au_{72}Al_{14}Tb_{14}$	$Im\bar{3}$	$P_In\bar{3}$	Non-coplanar	$Im\bar{3}$	H_4^-	H	Σ^+	$-/-$
1.413	$Ce_3Ni_2Ge_7$	$Cmmm$	P_Cmmn	Collinear	$Cmmm$	Y_4^-	$(0,1,0)$		$-/-$
1.414	$CeNiGe_3$	$Cmmm$	P_Cmmn	Collinear	$Cmmm$	Y_4^-	$(0,1,0)$		$-/-$
1.415	Tb_2Pd_2In	$P4/mbm$	C_amca	Collinear	$Pmma$	T_4^-	T		$-/-$
1.416	Tb_2O_2S	$P\bar{3}m1$	C_c2/c	Collinear	$C2/m$	M_2^-	$(1,0,\frac{1}{2})$		$-/-$
1.417	Tb_2O_2Se	$P\bar{3}m1$	C_c2/c	Collinear	$C2/m$	M_2^-	$(1,0,\frac{1}{2})$		$-/-$
1.418	Cu_4O_3	$I4_1/amd$	$I_c\bar{4}2m$	Coplanar	$I\bar{4}m2$	P_4	$(\frac{1}{2},\frac{1}{2},\frac{1}{2}),$ $(\frac{1}{2},\frac{1}{2},-\frac{1}{2})$	Σ^+	$-/f$
1.419	$GdIn_3$	$Pm\bar{3}m$	P_C4/mbm	Collinear	$P4/mmm$	M_1^+	M		$-/-$
1.420	$YBa_2Cu_3O_6$	$P4/mmm$	C_ammm	Collinear	$P4/mmm$	M_3^-	M		$-/-$
1.421	$NdRh_2Si_2$	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		$-/-$
1.422	$ErRh_2Si_2$	$I4/mmm$	P_Innm	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		$-/-$
1.423	UPb_3	$Pm\bar{3}m$	P_c4/mcc	Collinear	$P4/mmm$	Z_1^+	Z		$-/-$
1.424	UCu_5	$F\bar{4}3m$	R_I3c	Collinear	$R3m$	T_1	T		$-/-$
1.425	$UGeTe$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		$-/-$
1.426	$UGeS$	$P4/nmm$	P_c4/ncc	Collinear	$P4/nmm$	Z_3^-	Z		$-/-$
1.427	$HoCo_2Ge_2$	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		$-/-$
1.428	UN	$Fm\bar{3}m$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		$-/-$
1.429	$BaFe_2Se_3$	$Pnma$	C_am	Collinear	Pm	E_1	$(\frac{1}{2},\frac{1}{2},\frac{1}{2})$		$-/-$
1.430	$Mn_5(VO_4)_2(OH)_4$	$C2/m$	P_b2/c	Collinear	$P2/c$	Z_1^-	$(0,\frac{1}{2},0)$		$-/-$
1.431	$Ca_2Mn_3O_8$	$C2/m$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2Y_1^+$	$(0,\frac{1}{2},0)$	Σ^+	$-/-$
1.432	Ba_2LuRuO_6	$Fm\bar{3}m$	C_Amca	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		$-/-$
1.433	Ba_2YRuO_6	$Fm\bar{3}m$	C_Amca	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		$-/-$
1.434	$Fe_{1.05}Te$	$P2_1/m$	P_a2_1/m	Collinear	$P2_1/m$	A_2^-	$(\frac{1}{2},0,-\frac{1}{2})$		$-/-$
1.435	$Fe_{1.05}Te$	$P2_1/m$	P_a2_1/m	Collinear	$P2_1/m$	A_2^-	$(\frac{1}{2},0,-\frac{1}{2})$		$-/-$
1.436	$Fe_{1.125}Te$	$P2_1/m$	$P_S\bar{1}$	Collinear	$P2_1/m$	A_2^-	$(\frac{1}{2},0,-\frac{1}{2})$		$-/-$
1.437	$Fe_{1.068}Te$	$Pmmn$	$P_S\bar{1}$	Collinear	$P2_1/m$	A_2^-	$(\frac{1}{2},0,\frac{1}{2})$		$-/-$

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
1.438	$BaCoF_4$	$Cmc2_1$	P_a2_1	Collinear	$P2_1$	A_1	$(\frac{1}{2},0,-\frac{1}{2})$		–/–
1.439	$BaCoF_4$	$Cmc2_1$	P_bca2_1	Collinear	$Pca2_1$	Y_2	Y		–/–
1.440	$CrPS_4$	$C2$	C_c2	Collinear	$C2$	A_1	$(0,0,\frac{1}{2})$		–/–
1.441	$NaFe_3(SO_4)_2(OH)_6$	$R\bar{3}m$	$R_I\bar{3}c$	Coplanar	$R\bar{3}m$	T_3^-	T	Σ^+	–/–
1.442	URu_2Si_2	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.443	Gd_2BaCuO_5	$Pnma$	P_aca2_1	Coplanar	$Pmc2_1$	$Y_1\oplus Y_3$	Y	Σ^+,α^+	–/p
1.444	Er_2Pt	$Pnma$	P_ana2_1	Coplanar	$Pmn2_1$	$Y_1\oplus Y_3$	Y	Σ^+,α^+	–/p
1.445	Y_2BaCuO_5	$Pnma$	P_a2_1/c	Collinear	$P2_1/c$	Y_1^+	$(\frac{1}{2},0,0)$		–/–
1.446	$CeCoAl_4$	$Pmma$	C_amca	Collinear	$Pmma$	T_2^-	T		–/–
1.447	$Ce_3Ni_2Sn_7$	$Cmmm$	P_Cmmn	Collinear	$Cmmm$	Y_4^-	$(0,1,0)$		–/–
1.448	$HoSi$	$Cmcm$	C_a2/c	Collinear	$P2/c$	C_2^+	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.449	$Li_2CuW_2O_8$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	Y_1^-	$(0,\frac{1}{2},0)$		–/–
1.450	$Pr_6Fe_{13}Sn$	$I4/mcm$	P_Ibcn	Collinear	$I4/mcm$	M_3^+	$(0,0,1)$		–/–
1.451	$Nd_6Fe_{13}Sn$	$I4/mcm$	P_I4/mcc	Collinear	$I4/mcm$	M_3^+	$(0,0,1)$		–/–
1.452	$FeSn$	$P6/mmm$	C_cmcm	Collinear	$P6/mmm$	A_1^+	A		–/–
1.453	$EuMn_2Si_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.454	$Mn_6Ni_{16}Si_7$	$Fm\bar{3}m$	C_Amca	Collinear	$I4/mmm$	M_4^+	$(0,0,1)$		–/–
1.455	$Mn_6Ni_{16}Si_7$	$Fm\bar{3}m$	P_A2_1/c	Coplanar	$Fmmm$	$2Z_1^+$	$(0,0,1)$	Σ^+	–/–
1.456	$Sr_2CuO_2Cu_2Se_2$	$I4/mmm$	$I_c\bar{4}2d$	Coplanar	$I4/mmm$	P_1	$(\frac{1}{2},\frac{1}{2},\frac{1}{2}),$ $(\frac{1}{2},\frac{1}{2},-\frac{1}{2})$		–/f
1.457	$NdNiMg_{15}$	$P4/nmm$	P_Bcca	Collinear	$Cmme$	Y_4^-	$(1,0,0)$		–/–
1.458	$CsCo_2Se_2$	$I4/mmm$	C_Amcm	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.459	$CeFe_3(BO_3)_4$	$R32$	C_c2	Collinear	$R32$	T_1	T		–/–
1.460	$PrCuSi$	$P6_3/mmc$	P_Cbcn	Collinear	$Cmcm$	Y_1^+	$(0,1,0)$		–/–
1.461	$Sr_2Cr_3As_2O_2$	$I4/mmm$	P_I4_2/mnm	Collinear	$I4/mmm$	M_2^+	$(0,0,1)$		–/–
1.462	La_2CoPtO_6	$P2_1/c$	P_a2_1/c	Collinear	$P2_1/c$	Y_2^+	$(\frac{1}{2},0,0)$		–/–
1.463	$Sr_2Fe_3Se_2O_3$	$Pbam$	C_amc2_1	Collinear	$Pmc2_1$	S_1	S		–/–
1.464	U_2N_2P	$P\bar{3}m1$	$P_c\bar{3}c1$	Collinear	$P\bar{3}m1$	A_1^+	A		–/–
1.465	U_2N_2As	$P\bar{3}m1$	$P_c\bar{3}c1$	Collinear	$P\bar{3}m1$	A_1^+	A		–/–
1.466	$MnPt_{0.5}Pd_{0.5}$	$P4/mmm$	C_amma	Collinear	$P4/mmm$	M_4^+	M		–/–
1.467	$Tb_{0.6}Y_{0.4}RhIn_5$	$P4/mmm$	C_amma	Collinear	$Pmmm$	U_1^+	U		–/–
1.468	$TbMn_2Si_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.469	YMn_2Si_2	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.470	UCr_2Si_2	$C2/m$	C_c2/c	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.471	$EuCd_2As_2$	$P\bar{3}m1$	C_c2/m	Collinear	$P\bar{3}m1$	A_1^+	A		–/–
1.472	$CaOFeS$	$P6_3mc$	P_Cca2_1	Collinear	$Cmc2_1$	Y_3	$(0,1,0)$		–/–
1.473	$CuBr(C_4H_4N_2)_2(BF_4)$	$P4/nbm$	P_bnna	Collinear	$P4/nbm$	Z_1^-	Z		–/–
1.474	$CuCl(C_4H_4N_2)_2(BF_4)$	$P4/nbm$	P_bnna	Collinear	$P4/nbm$	Z_1^-	Z		–/–
1.475	$DyNiAl_4$	$Cmcm$	P_Anma	Collinear	$Cmcm$	Y_4^-	$(0,1,0)$		–/–
1.476	Ba_2CoO_4	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^-\oplus Y_2^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.477	Ba_2CoO_4	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^-\oplus Y_2^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.478	$CoTi_2O_5$	$Cmcm$	P_a2_1/m	Collinear	$P2_1/m$	A_2^-	$(\frac{1}{2},0,-\frac{1}{2})$		–/–
1.479	U_2Ni_2Sn	$P4/mbm$	P_c4_2/mbc	Collinear	$P4/mbm$	Z_2^-	Z		–/–
1.480	Mn_2CoReO_6	$P2_1/c$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2V_1^-$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
1.481	$LaSr_3Fe_3O_9$	$Cmcm$	P_Cbcm	Collinear	$Cmcm$	Y_4^-	$(1,0,0)$		–/–
1.482	$Er_2Fe_2Si_2C$	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	X_1^-	$(\frac{1}{2},0,0)$		–/–
1.483	$Eu_{0.5}Ca_{0.5}Fe_2As_2$	$I4/mmm$	C_Amca	Collinear	$Fmmm$	T_3^+	$(1,0,0)$		–/–
1.484	Li_2MnGeO_4	$Pmn2_1$	C_ac	Coplanar	Pc	$C_1\oplus C_2$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+,α^+	–/p
1.485	Mn_3TeO_6	$P2_1/c$	P_a2_1/c	Collinear	$P2_1/c$	Y_2^-	$(\frac{1}{2},0,0)$		–/–
1.486	$CeRhAl_4Si_2$	$P4/mmm$	P_c4/mcc	Collinear	$P4/mmm$	Z_3^-	Z		–/–
1.487	$CeIrAl_4Si_2$	$P4/mmm$	P_c4/mcc	Collinear	$P4/mmm$	Z_3^-	Z		–/–
1.488	$CeMn_2Si_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
1.489	$CeMn_2Si_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.490	$CeMn_2Si_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.491	$PrMn_2Si_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.492	$PrMn_2Si_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.493	$NdMn_2Si_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.494	$NdMn_2Si_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.495	YMn_2Si_2	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.496	YMn_2Ge_2	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.497	$EuMg_2Bi_2$	$P\bar{3}m1$	C_c2/m	Collinear	$P\bar{3}m1$	A_1^+	A		–/–
1.498	$Cu_6(SiO_3)_6(H_2O)_6$	$R\bar{3}$	$R_I\bar{3}$	Non-coplanar	$R\bar{3}$	$T_1^+ \oplus T_2^+T_3^+$	T	Σ^+	–/–
1.499	$CsFe(MoO_4)_2$	$P\bar{3}$	P_c3	Coplanar	$P\bar{3}$	H_1	H	α^+	–/p
1.500	$Sr_2CoO_2Cu_2S_2$	$I4/mmm$	$P_S\bar{1}$	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.501	$Ba_2CoO_2Cu_2S_2$	$Immm$	$P_S\bar{1}$	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.502	$Li_3Co_2SbO_6$	$C2/m$	C_c2/m	Collinear	$C2/m$	A_1^+	$(0,0,\frac{1}{2})$		–/–
1.503	$NdScSiC_{0.5}H_{0.2}$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.504	GdCuSn	$P6_3mc$	P_Cna2_1	Collinear	$Cmc2_1$	Y_1	$(0,1,0)$		–/–
1.505	GdAgSn	$P6_3mc$	P_Cna2_1	Collinear	$Cmc2_1$	Y_1	$(0,1,0)$		–/–
1.506	GdAuSn	$Cmc2_1$	P_Cna2_1	Collinear	$P2_1$	Y_1	$(\frac{1}{2},0,0)$		–/–
1.507	$NdPd_5Al_2$	$I4/mmm$	P_anma	Collinear	$Pmmn$	Z_1^+	Z		–/–
1.508	Mn_2AlB_2	$Cmmm$	C_cmcm	Collinear	$Cmmm$	Z_1^+	$(0,0,\frac{1}{2})$		–/–
1.509	$Pd_{2.87}Mn_{0.88}$	$I4/mmm$	P_A2_1/c	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.510	$TbNi_2Ge_2$	$I4/mmm$	P_c4/mcc	Collinear	$P4/mmm$	Z_3^-	Z		–/–
1.511	$TbNi_2Si_2$	$I4/mmm$	C_Amca	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.512	$TbCo_2Si_2$	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.513	$HoCo_2Si_2$	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.514	$HoCo_2Si_2$	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.515	$ErCo_2Si_2$	$I4/mmm$	P_A2_1/c	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.516	$ErCo_2Si_2$	$I4/mmm$	P_Innm	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.517	$DyBe_{13}$	$Fm\bar{3}c$	C_A222_1	Coplanar	$I4/mcm$	$M_1^- \oplus M_3^+$	$(0,0,1)$	α^+	–/p
1.518	$TbBe_{13}$	$Fm\bar{3}c$	C_A222_1	Coplanar	$I4/mcm$	$M_1^- \oplus M_3^+$	$(0,0,1)$	α^+	–/p
1.519	$CoSO_4$	$Cmcm$	P_Cbcn	Coplanar	$Cmcm$	$Y_1^+ \oplus Y_3^+$	$(0,1,0)$	Σ^+	–/–
1.520	$NiSO_4$	$Cmcm$	P_Cbcn	Collinear	$Cmcm$	Y_1^+	$(0,1,0)$		–/–
1.521	$FeSO_4$	$Cmcm$	P_Cbcn	Collinear	$Cmcm$	Y_1^+	$(0,1,0)$		–/–
1.522	$CrVO_4$	$Cmcm$	$P\bar{1}$	Collinear	$Cmcm$	B_{3g}	$\boldsymbol{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
1.523	VPO_4	$Cmcm$	P_cnma	Collinear	$Pbcm$	X_3^+	X		–/–
1.524	$InMnO_3$	$P6_3cm$	P_c31c	Coplanar	$P31m$	A_3	A	Σ^+	–/f
1.525	$InMnO_3$	$P6_3cm$	P_c31m	Coplanar	$P31m$	A_3	A	Σ^+	–/f
1.526	$LiCoF_4$	$P2_1/c$	P_a2_1/c	Collinear	$P2_1/c$	Y_2^+	$(\frac{1}{2},0,0)$		–/–
1.527	$CsNiF_3$	$P6_3/mmc$	P_Bnnm	Collinear	$Cmcm$	Y_1^+	$(0,1,0)$		–/–
1.528	$Bi_2Fe_4O_9$	$Pbam$	C_a2/m	Coplanar	$Pbam$	$R_3^+R_4^+$	R	Σ^+	–/–
1.529	$MnBi_6Te_{10}$	$R\bar{3}m$	$R_I\bar{3}c$	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.530	CeC_2	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.531	PrC_2	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.532	NdC_2	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.533	TbC_2	$I4/mmm$	P_c222_1	Coplanar	$Pmmm$	$Z_1^+ \oplus Z_2^-$	Z	α^+	–/p
1.534	HoC_2	$I4/mmm$	P_amma	Collinear	$Pmmm$	Z_1^+	Z		–/–
1.535	UPd_2Ge_2	$I4/mmm$	P_c4/ncc	Collinear	$P4/nmm$	Z_1^+	Z		–/–
1.536	UPd_2Si_2	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.537	URh_2Si_2	$I4/mmm$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.538	Ba_2MnTeO_6	$R\bar{3}m$	P_A2_1/c	Collinear	$C2/m$	Y_1^+	$(1,0,0)$		–/–
1.539	KMnP	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.540	KMnP	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.541	RbMnP	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.542	RbMnP	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–

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1.543	RbMnAs	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.544	RbMnAs	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.545	RbMnBi	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.546	CsMnBi	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.547	CsMnP	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.548	CsMnP	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.549	U_2Ni_2In	$P4/mbm$	P_c4/mnc	Coplanar	$P4/mbm$	Z_5^+	Z	Σ^+	–/–
1.550	LiMnAs	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.551	LiMnAs	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.552	LiMnAs	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.553	KMnAs	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.554	KMnAs	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_4^-	Z		–/–
1.555	Mn_3B_4	$Immm$	P_Innm	Collinear	$Immm$	X_1^+	$(0,0,1)$		–/–
1.556	$FeSn_2$	$I4/mcm$	P_Ibcn	Collinear	$I4/mcm$	M_1^+	$(1,0,0)$		–/–
1.557	$FeGe_2$	$I4/mcm$	P_Ibcn	Collinear	$I4/mcm$	M_1^+	$(1,0,0)$		–/–
1.558	$MnSn_2$	$I4/mcm$	C_Acca	Collinear	$Fmmm$	Z_2^-	$(0,0,1)$		–/–
1.559	$MnSn_2$	$I4/mcm$	C_ccm	Collinear	$Cmmm$	Z_2^-	$(0,0,\frac{1}{2})$		–/–
1.560	$GeNi_2O_4$	$Fd\bar{3}m$	C_c2/m	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.561	$GeNi_2O_4$	$Fd\bar{3}m$	C_cm	Collinear	$R3m$	T_1	T		–/–
1.562	$GeNi_2O_4$	$Fd\bar{3}m$	C_c2	Coplanar	$R\bar{3}m$	$T_1^+ \oplus T_2^-$	T	α^+	–/p
1.563	$GeNi_2O_4$	$Fd\bar{3}m$	C_cm	Collinear	$R3m$	T_1	T		–/–
1.564	$GeCo_2O_4$	$Fd\bar{3}m$	C_c2	Coplanar	$R\bar{3}m$	$T_1^+ \oplus T_2^-$	T	α^+	–/p
1.565	Pb_2CoOsO_6	$P2_1/c$	P_ac	Collinear	Pc	Y_2	$(\frac{1}{2},0,0)$		–/–
1.566	Ba_2YbRuO_6	$Fm\bar{3}m$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.567	Ba_2TmRuO_6	$Fm\bar{3}m$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.568	$GdCu_2Si_2$	$I4/mmm$	C_c2/m	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.569	$SrRu_2O_6$	$P\bar{3}1m$	$P_c\bar{3}1m$	Collinear	$P\bar{3}1m$	A_2^+	A		–/–
1.570	La_3OsO_7	$Cmcm$	P_a2_1/m	Collinear	$P2_1/m$	B_2^+	$(0,0,\frac{1}{2})$		–/–
1.571	La_3OsO_7	$Cmcm$	P_a2_1/m	Collinear	$P2_1/m$	B_2^+	$(0,0,\frac{1}{2})$		–/–
1.572	$La_{2.8}Ca_{0.2}OsO_7$	$Cmcm$	P_a2_1/m	Collinear	$P2_1/m$	B_2^+	$(0,0,\frac{1}{2})$		–/–
1.573	$FeSO_4$	$Pnma$	P_c2_1/c	Collinear	$P2_1/m$	A_1^+	$(\frac{1}{2},0,\frac{1}{2})$		–/–
1.574	NdBiPt	$F\bar{4}3m$	$P_I\bar{4}n2$	Collinear	$I\bar{4}m2$	M_2	$(0,0,1)$		–/–
1.575	ErRh	$Pm\bar{3}m$	P_amma	Collinear	$P4/mmm$	Z_1^+	Z		–/–
1.576	Yb_2O_2S	$P\bar{3}m1$	C_c2/m	Collinear	$P\bar{3}m1$	A_2^-	A		–/–
1.577	$SrNd_2O_4$	$Pnma$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^- \oplus Y_2^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.578	$KErSe_2$	$R\bar{3}m$	C_c2/m	Collinear	$C2/m$	M_2^-	$(1,0,-\frac{1}{2})$		–/–
1.579	$NiTiO_3$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$R\bar{3}$	T_1^+	T		–/–
1.580	$NiTiO_3$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$R\bar{3}$	T_1^+	T		–/–
1.581	$FeTiO_3$	$R\bar{3}$	$R_I\bar{3}$	Collinear	$R\bar{3}$	T_1^+	T		–/–
1.582	$Fe_{0.945}O$	$Fm\bar{3}m$	$R_I\bar{3}c$	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.583	$La_{1.5}Ca_{0.5}CoO_4$	$Cmm2$	P_cc	Collinear	$Pma2$	T_1	T		–/–
1.584	PrFeAsO	$Cmme$	P_Bcca	Coplanar	$Cmme$	$Y_1^+ \oplus Y_3^+$	$(0,1,0)$	Σ^+	–/–
1.585	PrFeAsO	$Cmme$	P_Bcca	Collinear	$Cmme$	Y_1^+	$(0,1,0)$		–/–
1.586	PrFeAsO	$Cmme$	P_Acc2	Collinear	$Aem2$	Y_2	$(0,0,1)$		–/–
1.587	NdFeAsO	$Cmme$	P_A2/c	Coplanar	$Cmme$	$Y_1^+ \oplus Y_3^+$	$(0,1,0)$	Σ^+	–/–
1.588	NdFeAsO	$Cmme$	I_cbca	Collinear	$Cmme$	T_2^-	$(0,1,\frac{1}{2})$		–/–
1.589	$Fe_{0.967}Nb_3S_6$	$P6_322$	$P_c2_12_12$	Collinear	$P2_12_12$	Z_4	Z		–/–
1.590	$Pb_{0.8}Bi_{0.2}Fe_{0.728}W_{0.264}O_3$	$Pm\bar{3}m$	I_c4/mcm	Collinear	$Pm\bar{3}m$	R_2^-	R		–/–
1.591	$Pb_{0.7}Bi_{0.3}Fe_{0.762}W_{0.231}O_3$	$Pm\bar{3}m$	I_c4/mcm	Collinear	$Pm\bar{3}m$	R_2^-	R		–/–
1.592	Pb_2NiOsO_6	$P2_1/c$	P_ac	Collinear	Pc	Y_2	$(\frac{1}{2},0,0)$		–/–
1.593	BaCoSO	$Cmcm$	P_abcm	Collinear	$Pbcm$	X_4^-	X		–/–
1.594	BaCoSO	$Cmcm$	P_abcm	Collinear	$Pbcm$	X_2^+	X		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
1.595	CaCoSO	$P6_3mc$	C_cc	Non-coplanar	$P31m$	$2A_1 \oplus A_2$	A	Σ^+, α^+	$-/p$
1.596	$TbCuSb_2$	$P4/nmm$	$P_S\bar{1}$	Collinear	$P2_1/m$	Y_2^-	$(\frac{1}{2},0,0)$		$-/-$
1.597	$TbCuSb_2$	$P4/nmm$	P_a2_1/m	Collinear	$P2_1/m$	A_2^-	$(\frac{1}{2},0,\frac{1}{2})$		$-/-$
1.598	$CeIr(In_{0.97}Cd_{0.03})_5$	$P4/mmm$	I_c4/mcm	Collinear	$P4/mmm$	A_1^+	A		$-/-$
1.599	$DyMn_2O_5$	$Pbam$	P_cc	Coplanar	Pm	$2Y_1$	$(\frac{1}{2},0,0)$	Σ^+, α^+	$-/p$
1.600	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/mbc$	$M_2^-M_3^-$	M	Σ^+	$-/-$
1.601	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/mbc$	$M_2^-M_3^-$	M	Σ^+	$-/-$
1.602	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/mbc$	$M_2^-M_3^-$	M	Σ^+	$-/-$
1.603	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/mbc$	$M_2^-M_3^-$	M	Σ^+	$-/-$
1.604	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.605	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.606	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.607	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.608	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.609	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.610	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.611	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.612	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.613	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.614	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.615	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.616	$Bi_4Fe_5O_{13}F$	$P4_2/mbc$	P_C4_2/n	Coplanar	$P4_2/m$	$M_3^-M_4^-$	M	Σ^+	$-/-$
1.617	$LiFe(MoO_4)_2$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	Z_1^-	$(0,0,\frac{1}{2})$		$-/-$
1.618	CoO	$Fm\bar{3}m$	C_c2/c	Collinear	$R\bar{3}m$	T_1^+	T		$-/-$
1.619	MnS	$Fm\bar{3}m$	C_c2/m	Collinear	$R\bar{3}m$	T_1^+	T		$-/-$
1.620	$NdCu_2$	$Imma$	P_Inma	Collinear	$Imma$	X_2^-	$(0,1,0)$		$-/-$
1.621	$La(Fe_{0.91}Al_{0.09})_{13}$	$Fm\bar{3}c$	P_I4/mcc	Collinear	$I4/mcm$	M_3^+	$(0,0,1)$		$-/-$
1.622	$CoGeO_3$	$C2/c$	P_C2_1/c	Coplanar	$C2/c$	$2Y_1^+$	$(1,0,0)$	Σ^+	$-/-$
1.623	$EuMg_2Bi_2$	$P\bar{3}m1$	C_c2/m	Collinear	$P\bar{3}m1$	A_1^+	A		$-/-$
1.624	$EuSn_2P_2$	$R\bar{3}m$	C_c2/m	Collinear	$R\bar{3}m$	T_1^+	T		$-/-$
1.625	$Sr_2Fe_3S_2O_3$	$Pbam$	P_bnma	Collinear	$Pbam$	Z_4^+	Z		$-/-$
1.626	$Sr_2Fe_3Se_2O_3$	$Pbam$	C_amc2_1	Collinear	$Pmc2_1$	S_4	S		$-/-$
1.627	$KCeS_2$	$R\bar{3}m$	C_c2/c	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		$-/-$
1.628	$PrMnSi_2$	$Cmcm$	P_Bnna	Collinear	$Cmcm$	Y_4^-	$(0,1,0)$		$-/-$
1.629	FeGe	$P6/mmm$	P_c6/mcc	Collinear	$P6/mmm$	A_1^+	A		$-/-$
1.630	$LuMn_6Sn_6$	$P6/mmm$	C_cmcm	Collinear	$P6/mmm$	A_1^+	A		$-/-$
1.631	YMn_6Ge_6	$P6/mmm$	P_c6/mcc	Collinear	$P6/mmm$	A_1^+	A		$-/-$
1.632	$ErFe_6Ge_6$	$Immm$	P_Innn	Collinear	$Immm$	X_4^-	$(0,0,1)$		$-/-$
1.633	YFe_6Sn_6	$Immm$	P_Innn	Collinear	$Immm$	X_4^-	$(0,0,1)$		$-/-$
1.634	YFe_6Ge_6	$Cmcm$	P_Bnna	Collinear	$Cmcm$	Y_3^-	$(0,1,0)$		$-/-$
1.635	$ErFe_2Si_2$	$I4/mmm$	P_anma	Collinear	$P4/nmm$	Z_3^-	Z		$-/-$
1.636	$ErMn_2Si_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		$-/-$
1.637	$ErMn_2Si_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		$-/-$
1.638	$ErMn_2Ge_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		$-/-$
1.639	$ErMn_2Ge_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		$-/-$
1.640	$ErMn_2Ge_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		$-/-$
1.641	$Ba_2FeSi_2O_7$	$P\bar{4}2_1m$	C_cmc2_1	Collinear	$P\bar{4}2_1m$	Z_4	Z		$-/-$
1.642	$TlFeS_2$	$C2/m$	C_c2/m	Collinear	$C2/m$	M_1^-	$(1,0,-\frac{1}{2})$		$-/-$
1.643	DyOCl	$P4/nmm$	P_anma	Collinear	$P4/nmm$	Z_3^-	Z		$-/-$
1.644	$EuSn_2As_2$	$R\bar{3}m$	C_c2/m	Collinear	$R\bar{3}m$	T_1^+	T		$-/-$
1.645	$Na_2Co_2TeO_6$	$P6_322$	$P_C2_12_12_1$	Coplanar	$C222_1$	$Y_1 \oplus Y_4$	$(0,1,0)$	Σ^+, α^+	$-/p$
1.646	$Na_2Ni_2TeO_6$	$P6_3/mcm$	I_amm2	Collinear	$Amm2$	T_2	$(\frac{1}{2},1,0)$		$-/-$
1.647	$Na_{2.4}Ni_2TeO_6$	$P6_3/mcm$	P_Anma	Coplanar	$Cmcm$	$Y_1^- \oplus Y_3^-$	$(1,0,0)$	Σ^+	$-/-$
1.648	Nd_2O_3	$P\bar{3}m1$	C_c2/m	Collinear	$C2/m$	M_1^+	$(1,0,\frac{1}{2})$		$-/-$

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
1.649	Sr_3ZnIrO_6	$R\bar{3}c$	P_C2/c	Coplanar	$C2/c$	$Y_1^- \oplus Y_2^-$	$(0,1,0)$	Σ^+	–/–
1.650	Dy_2BaCuO_5	$Pnma$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^+ \oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.651	Ho_2BaCuO_5	$Pnma$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^+ \oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.652	$Tb_2Ni_{1.78}In$	$P4/mbm$	C_amca	Collinear	$Pmma$	T_3^+	T		–/–
1.653	$FeWO_4$	$P2/c$	P_a2/c	Collinear	$P2/c$	Y_2^-	$(\frac{1}{2},0,0)$		–/–
1.654	$NiNb_2O_6$	$Pbcn$	P_b2_1/c	Collinear	$P2/c$	Z_1^-	$(0,\frac{1}{2},0)$		–/–
1.655	$FeNb_2O_6$	$Pbcn$	$P_c2_12_12_1$	Collinear	$P2_12_12$	Z_1	Z		–/–
1.656	$CoNb_2O_6$	$Pbcn$	P_a2_1/c	Collinear	$P2_1/c$	Y_2^-	$(\frac{1}{2},0,0)$		–/–
1.657	$LuNiO_3$	$P2_1/c$	P_a2_1	Coplanar	$P2_1$	$2A_1$	$(\frac{1}{2},0,-\frac{1}{2})$	Σ^+, α^+	–/p
1.658	$DyGa_3$	$R\bar{3}m$	C_c2/c	Collinear	$C2/m$	M_1^+	$(1,0,-\frac{1}{2})$		–/–
1.659	$MnCl_2(CO(NH_2)_2)_2$	$Iba2$	P_Ica2_1	Collinear	$Iba2$	X_2	$(0,1,0)$		–/–
1.660	$FePb_4Sb_6S_{14}$	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^- \oplus Y_2^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.661	La_2NiIrO_6	$P2_1/c$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2V_1^-$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
1.662	La_2NiIrO_6	$P2_1/c$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2V_1^-$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
1.663	Tb_2Ni_2In	$Cmmm$	C_a2/m	Collinear	$P2/m$	C_2^+	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.664	$DyVO_4$	$I4_1/amd$	P_Inma	Collinear	$Imma$	X_1^+	$(1,0,0)$		–/–
1.665	$Ba_3CoNb_2O_9$	$P\bar{3}m1$	P_c31c	Coplanar	$P\bar{3}m1$	H_2	H		–/f
1.666	$TbCoGa_5$	$P4/mmm$	C_amma	Collinear	$Pmmm$	U_1^+	U		–/–
1.667	$UPtGa_5$	$P4/mmm$	C_amma	Collinear	$Pmmm$	U_1^+	U		–/–
1.668	$HoCoGa_5$	$P4/mmm$	C_amma	Collinear	$Pmmm$	U_1^+	U		–/–
1.669	$KFe(PO_3F)_2$	$P\bar{3}$	P_c3	Coplanar	$P\bar{3}$	P_1	$(\frac{1}{3},\frac{1}{3},\frac{1}{4})$, $(\frac{2}{3},-\frac{1}{3},-\frac{1}{4})$	α^+	–/p
1.670	$NpFeGa_5$	$P4/mmm$	C_amma	Collinear	$P4/mmm$	M_1^+	M		–/–
1.671	$NpCoGa_5$	$P4/mmm$	P_c4/mcc	Collinear	$P4/mmm$	Z_1^+	Z		–/–
1.672	$EuZn_2As_2$	$P\bar{3}m1$	C_c2/m	Collinear	$P\bar{3}m1$	A_1^+	A		–/–
1.673	$EuCd_2Sb_2$	$P\bar{3}m1$	C_c2/m	Collinear	$P\bar{3}m1$	A_1^+	A		–/–
1.674	$SrLaCuSbO_6$	$P2_1/c$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^-	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.675	$SrLaCuNbO_6$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	R_1^-	$(\frac{1}{2},\frac{1}{2},\frac{1}{2})$		–/–
1.676	$Fe_{0.32}NbS_2$	$P6_322$	$P_C2_12_12_1$	Collinear	$C222_1$	Y_1	$(0,1,0)$		–/–
1.677	$Fe_{0.35}NbS_2$	$P6_322$	$P_c2_12_12$	Collinear	$P2_12_12$	Z_4	Z		–/–
1.678	CrN	$Pmmn$	P_anma	Collinear	$Pmmn$	Z_1^+	Z		–/–
1.679	Nd_2NiIrO_6	$P2_1/c$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^+	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.680	Nd_2NiIrO_6	$P2_1/c$	$P_S\bar{1}$	Non-coplanar	$P\bar{1}$	$3V_1^+$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
1.681	$PrFe_2Al_8$	$Pbam$	C_a2/m	Collinear	$P2/m$	C_1^+	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.682	$Na_2CuSO_4Cl_2$	$Pnma$	P_bmn2_1	Collinear	$Pmn2_1$	Y_1	Y		–/–
1.683	$UPdGa_5$	$P4/mmm$	I_c4/mcm	Collinear	$P4/mmm$	A_1^+	A		–/–
1.684	$Ba_{0.67}La_{0.33}FeO_3$	$Pm\bar{3}m$	I_bmma	Collinear	$Pm\bar{3}m$	R_1^+	R		–/–
1.685	$NiCr_2O_4$	$Fddd$	C_A222_1	Collinear	$F222$	Z_4	$(0,0,1)$		–/–
1.686	Er_2Ni_2Pb	$Cmmm$	C_a2/m	Collinear	$P2/m$	C_1^-	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.687	Er_2Ni_2Pb	$Cmmm$	C_cmcm	Collinear	$Cmmm$	Z_2^-	$(0,0,\frac{1}{2})$		–/–
1.688	$NiCr_2O_4$	$I4_1/amd$	$P_I2_12_12_1$	Coplanar	$I2_12_12_1$	$X_1 \oplus X_3$	$(0,0,1)$	Σ^+, α^+	–/p
1.689	$LuMn_2Ge_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.690	$TmMn_2Ge_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.691	YMn_2Ge_2	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.692	YMn_2Ge_2	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.693	$DyMn_2Ge_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.694	$TbMn_2Ge_2$	$I4/mmm$	P_I4/nnc	Collinear	$I4/mmm$	M_3^-	$(0,0,1)$		–/–
1.695	Mn_3Ni_2Si	$Fd\bar{3}m$	C_c2/m	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.696	$HoNiSi_2$	$Cmcm$	P_Cbcm	Collinear	$Cmcm$	Y_4^-	$(0,1,0)$		–/–
1.697	$Tb_5Pd_2In_4$	$Pbam$	P_bmc2_1	Collinear	$Pmc2_1$	Y_3	Y		–/–
1.698	Dy_2TiO_5	$Pnma$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^- \oplus Y_2^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.699	$GdInCu_4$	$F\bar{4}3m$	$I_c\bar{4}2m$	Collinear	$P\bar{4}m2$	A_1	A		–/–
1.700	$HoInCu_4$	$F\bar{4}3m$	$I_c2_12_12_1$	Collinear	$P\bar{4}m2$	A_1	A		–/–
1.701	$HoCdCu_4$	$F\bar{4}3m$	C_cm	Collinear	$R3m$	T_1	T		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
1.702	$YBaCo_2O_5$	$Pmmm$	C_ammm	Collinear	$Pmmm$	S_2^-	S		–/–
1.703	$YBaCo_2O_5$	$Pmma$	P_amna	Collinear	$Pmma$	Y_4^-	Y		–/–
1.704	$TbBaFe_2O_5$	$Pmma$	P_amna	Collinear	$Pmma$	Y_4^-	Y		–/–
1.705	$Na_2Ni_2TeO_6$	$P6_3/mcm$	P_Anma	Coplanar	$Cmcm$	$Y_1^- \oplus Y_3^-$	$(1,0,0)$	Σ^+	–/–
1.706	Ba_2MnTeO_6	$Fm\bar{3}m$	C_Amca	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.707	Ba_2MnWO_6	$Fm\bar{3}m$	C_c2/c	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.708	$CrPS_4$	$C2$	C_c2	Collinear	$C2$	A_1	$(0,0,\frac{1}{2})$		–/–
1.709	$CsCrF_4$	$P\bar{6}2m$	I_ama2	Coplanar	$Amm2$	$T_1 \oplus T_4$	$(\frac{1}{2},1,0)$	Σ^+, α^+	–/p
1.710	$BaFe_2Se_3$	Pm	C_am	Non-coplanar	Pm	$E_1 \oplus 2E_2$	$(\frac{1}{2},\frac{1}{2},-\frac{1}{2})$	Σ^+, α^+	–/p
1.711	$CsCr_{0.94}Fe_{0.06}F_4$	$P\bar{6}2m$	$P_c\bar{6}2c$	Coplanar	$P\bar{6}2m$	A_5	A	Σ^+	–/f
1.712	$CsCr_{0.98}Al_{0.02}F_4$	$P\bar{6}2m$	I_ama2	Coplanar	$Amm2$	$T_1 \oplus T_4$	$(\frac{1}{2},1,0)$	Σ^+, α^+	–/p
1.713	$CsCr_{0.98}Al_{0.02}F_4$	$P\bar{6}2m$	I_amm2	Coplanar	$Amm2$	$T_1 \oplus T_4$	$(\frac{1}{2},1,0)$	Σ^+, α^+	–/p
1.714	$CeAuBi_2$	$P4/nmm$	P_c4/ncc	Collinear	$P4/nmm$	Z_3^-	Z		–/–
1.715	Sr_2CoWO_6	$P2_1/c$	$P_S\bar{1}$	Collinear	$P2_1/c$	Y_2^+	$(\frac{1}{2},0,0)$		–/–
1.716	Sr_2MnMoO_6	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^- \oplus Y_2^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.717	Sr_2MnWO_6	$P2_1/c$	P_a2_1/c	Coplanar	$P2_1/c$	$Y_1^- \oplus Y_2^-$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.718	Ca_2MnWO_6	$P2_1/c$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2T_1^+$	$(0,\frac{1}{2},\frac{1}{2})$	Σ^+	–/–
1.719	Ca_2MnWO_6	$P2_1/c$	$P_S\bar{1}$	Collinear	$P\bar{1}$	T_1^-	$(0,\frac{1}{2},\frac{1}{2})$		–/–
1.720	Yb_2O_3	$Ia\bar{3}$	P_Ibca	Non-coplanar	$Ia\bar{3}$	H_4^-	H	Σ^+	–/–
1.721	UCu_5	$F\bar{4}3m$	R_I3c	Collinear	$R3m$	T_1	T		–/–
1.722	$Ba_3LaRu_2O_9$	$P6_3/mmc$	P_C2_1/c	Collinear	$Cmcm$	Y_1^+	$(0,1,0)$		–/–
1.723	$NaMn_2O_4$	$Pnma$	C_ac	Collinear	Pc	C_2	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.724	Ba_2NiTeO_6	$R\bar{3}m$	P_A2_1/c	Collinear	$C2/m$	Y_1^+	$(1,0,0)$		–/–
1.725	$Ba_3NiTa_2O_9$	$P\bar{3}m1$	P_c31m	Coplanar	$P\bar{3}m1$	H_2	H		–/f
1.726	$RuCl_3$	$P3_112$	C_c2	Collinear	$C2$	M_1	$(0,1,\frac{1}{2})$		–/–
1.727	$Tm_3Cu_4Ge_4$	$Immm$	P_anma	Collinear	$Pmmn$	Z_1^+	Z		–/–
1.728	$Tm_3Cu_4Sn_4$	$C2/m$	C_c2/m	Collinear	$C2/m$	M_2^-	$(1,0,-\frac{1}{2})$		–/–
1.729	$Gd_2Fe_2Si_2C$	$C2/m$	C_c2/m	Collinear	$C2/m$	A_2^-	$(0,0,\frac{1}{2})$		–/–
1.730	Cu_2MnSiS_4	$Pmn2_1$	P_ac	Coplanar	Pc	$Y_1 \oplus Y_2$	$(\frac{1}{2},0,0)$	Σ^+, α^+	–/p
1.731	Cu_2FeSiS_4	$Pmn2_1$	C_ac	Coplanar	Pc	$C_1 \oplus C_2$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+, α^+	–/p
1.732	Cu_2MnSnS_4	$I\bar{4}2m$	C_c2	Collinear	$C2$	M_1	$(1,0,-\frac{1}{2})$		–/–
1.733	Cu_2MnGeS_4	$Pmn2_1$	P_ac	Coplanar	Pc	$Y_1 \oplus Y_2$	$(\frac{1}{2},0,0)$	Σ^+, α^+	–/p
1.734	Cu_2FeGeS_4	$I\bar{4}2m$	P_S1	Collinear	$C2$	A_1	$(0,0,\frac{1}{2})$		–/–
1.735	Li_2FeGeS_4	Pc	C_ac	Collinear	Pc	C_1	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.736	$Mn(N_2H_5)_2(SO_4)_2$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	U_1^+	$(\frac{1}{2},0,-\frac{1}{2})$		–/–
1.737	$CeRh_{0.25}Pd_{0.75}Sn$	$P\bar{6}2m$	$P_c\bar{6}2c$	Collinear	$P\bar{6}2m$	A_1	A		–/–
1.738	$TbNiAl$	$P\bar{6}2m$	I_ama2	Collinear	$Amm2$	T_3	$(\frac{1}{2},1,0)$		–/–
1.739	$Cu_9O_2(SeO_3)_4Cl_6$	$C2/m$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2R_1^+$	$(\frac{1}{2},\frac{1}{2},\frac{1}{2})$	Σ^+	–/–
1.740	$CeAuSb_2$	$Pmmn$	A_bbm2	Collinear	$Pmm2$	T_3	T		–/–
1.741	$KNiAsO_4$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	U_1^+	$(\frac{1}{2},0,\frac{1}{2})$		–/–
1.742	$KNiAsO_4$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	U_1^-	$(\frac{1}{2},0,\frac{1}{2})$		–/–
1.743	$CeRhGe_3$	$I4mm$	P_c4cc	Collinear	$P4mm$	Z_1	Z		–/–
1.744	$PrPdSn$	$Pnma$	P_a2_1/c	Collinear	$P2_1/c$	Y_1^+	$(\frac{1}{2},0,0)$		–/–
1.745	La_2Co_3	$Cmce$	P_Cbca	Coplanar	$Cmce$	$Y_1^+ \oplus Y_4^+$	$(0,1,0)$	Σ^+	–/–
1.746	YMn_2	$Fd\bar{3}m$	P_C2_1	Collinear	$I4_122$	M_2	$(0,0,1)$		–/–
1.747	$ErAuIn$	$P\bar{6}2m$	$P_c\bar{6}$	Coplanar	$P\bar{6}2m$	A_6	A	Σ^+	–/f
1.748	$TbAuIn$	$P\bar{6}2m$	$P_c\bar{6}$	Coplanar	$P\bar{6}2m$	A_6	A	Σ^+	–/f
1.749	$HoSbTe$	$P4/nmm$	P_a2_1/m	Collinear	$P2_1/m$	Y_1^+	$(\frac{1}{2},0,0)$		–/–
1.750	$HoSbTe$	$P4/nmm$	P_a2_1/m	Collinear	$P2_1/m$	A_1^+	$(\frac{1}{2},0,-\frac{1}{2})$		–/–
1.751	$CaCo_3Ti_4O_{12}$	$Im\bar{3}$	$F_Sd\bar{3}$	Non-coplanar	$Pn\bar{3}$	R_4^-	R	Σ^+	–/–
1.752	$CsCo_2(MoO_4)_2(OH)$	$P2_1/m$	P_a2_1/m	Coplanar	$P2_1/m$	$Y_1^+ \oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.753	$HoBi$	$Fm\bar{3}m$	C_c2/c	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.754	$BaFe_2O_4$	$Cmc2_1$	P_Cca2_1	Collinear	$Cmc2_1$	Y_2	$(0,1,0)$		–/–
1.755	$KErSe_2$	$R\bar{3}m$	C_c2/m	Collinear	$C2/m$	M_2^-	$(1,0,-\frac{1}{2})$		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
1.756	$CaFe_3O_5$	$Cmcm$	P_abca	Collinear	$Pbcm$	X_3^+	X		–/–
1.757	$Pr_2PdAl_7Ge_4$	$P\bar{4}2_1m$	$P_c2_12_12_1$	Coplanar	$P\bar{4}2_1m$	$Z_1 \oplus Z_4$	Z	Σ^+	–/f
1.758	$CaMn_3V_4O_{12}$	$R\bar{3}$	$R_I\bar{3}$	Coplanar	$R\bar{3}$	$T_2^+T_3^+$	T	Σ^+	–/–
1.759	$ZnFe_2O_4$	$Fd\bar{3}m$	$I_c\bar{4}2d$	Non-coplanar	$P\bar{4}n2$	$A_1 \oplus A_5$	A	Σ^+, α^+	–/p
1.760	$ZnFe_2O_4$	$Fd\bar{3}m$	$I_c\bar{4}2d$	Coplanar	$I\bar{4}m2$	P_1	$(\frac{1}{2},\frac{1}{2},-\frac{1}{2})$, $(\frac{1}{2},\frac{1}{2},\frac{1}{2})$	Σ^+	–/f
1.761	$ZnFe_2O_4$	$Fd\bar{3}m$	I_c222	Collinear	$P\bar{4}n2$	A_2	A		–/–
1.762	$CaFe_3O_5$	$Cmcm$	P_abca	Collinear	$Pbcm$	X_3^+	X		–/–
1.763	$BaNiTe_2O_7$	$Ama2$	C_c2	Coplanar	$C2$	$M_1 \oplus M_2$	$(1,0,\frac{1}{2})$	Σ^+, α^+	–/p
1.764	NdSbTe	$P4/nmm$	P_cc	Coplanar	$P2_1/m$	$A_1^+ \oplus A_2^-$	$(\frac{1}{2},0,-\frac{1}{2})$	α^+	–/p
1.765	DySbTe	$P4/nmm$	P_anma	Collinear	$P4/nmm$	Z_1^+	Z		–/–
1.766	DySbTe	$P4/nmm$	P_a2_1/m	Collinear	$P2_1/m$	A_1^+	$(\frac{1}{2},0,-\frac{1}{2})$		–/–
1.767	Li_2CoCl_4	$Cmmm$	P_Cbam	Collinear	$Cmmm$	Y_1^+	$(0,1,0)$		–/–
1.768	$Ni_2Mo_3O_8$	$P6_3mc$	P_Cna2_1	Coplanar	$Cmc2_1$	$Y_1 \oplus Y_3$	$(0,1,0)$	Σ^+, α^+	–/p
1.769	$Ni_2Te_3O_8$	$C2/c$	P_C2_1/c	Coplanar	$C2/c$	$Y_1^+ \oplus Y_2^+$	$(1,0,0)$	Σ^+	–/–
1.770	Tb_2Ni_2In	$Cmmm$	C_a2/m	Collinear	$P2/m$	C_2^+	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.771	$Na_2Co_2TeO_6$	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	X_1^-	$(\frac{1}{2},0,0)$		–/–
1.772	$Pr_2PdAl_7Ge_4$	$P\bar{4}2_1m$	$P_c2_12_12_1$	Coplanar	$P\bar{4}2_1m$	$Z_1 \oplus Z_4$	Z	Σ^+	–/f
1.773	$PrIr_3B_2$	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	T_1^+	$(0,\frac{1}{2},\frac{1}{2})$		–/–
1.774	$BaNd_2PtO_5$	$P4/mbm$	$P_S\bar{1}$	Coplanar	$Cmmm$	$2T_2^-$	$(1,0,\frac{1}{2})$	Σ^+	–/–
1.775	$CaCu_3Ti_4O_{12}$	$Im\bar{3}$	$R_I\bar{3}$	Non-coplanar	$Im\bar{3}$	$H_1^+ \oplus H_2^+H_3^+$	H	Σ^+	–/–
1.776	Ba_2ErRuO_6	$Fm\bar{3}m$	P_Innm	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.777	$EuAl_2Si_2$	$P\bar{3}m1$	C_c2/m	Collinear	$P\bar{3}m1$	A_1^+	A		–/–
1.778	$ThCr_2Si_2C$	$P4/mmm$	P_amma	Collinear	$P4/mmm$	Z_3^-	Z		–/–
1.779	Sr_2FeIrO_6	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	X_1^+	$(\frac{1}{2},0,0)$		–/–
1.780	YMn_{12}	$I4/mmm$	P_I4/nmm	Coplanar	$I4/mmm$	M_5^-	$(1,0,0)$	Σ^+	–/–
1.781	$CsMn(NCS)_3$	$P2_1/c$	$P_S\bar{1}$	Non-coplanar	$P\bar{1}$	$3U_1^-$	$(\frac{1}{2},0,\frac{1}{2})$	Σ^+	–/–
1.782	$FeBr_3$	$R\bar{3}$	$R_I\bar{3}$	Collinear	$R\bar{3}$	T_1^+	T		–/–
1.783	$Fe_{0.99}O$	$C2/m$	$P_S\bar{1}$	Collinear	$C2/m$	A_1^+	$(0,0,\frac{1}{2})$		–/–
1.784	Li_2CoCl_4	$Cmmm$	P_Cbam	Collinear	$Cmmm$	Y_1^+	$(0,1,0)$		–/–
1.785	K_2ReCl_6	$P2_1/c$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^+	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.786	$RuBr_3$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^-	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.787	$RuCl_3$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^-	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.788	$Na_3Co_2SbO_6$	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	X_1^-	$(\frac{1}{2},0,0)$		–/–
1.789	$Na_3Ni_2BiO_6$	$C2/m$	P_C2_1/m	Collinear	$C2/m$	Y_1^-	$(0,1,0)$		–/–
1.790	$Tm_5Pt_2In_4$	$Pbam$	C_am	Coplanar	Pm	$2C_1$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+, α^+	–/p
1.791	$La_{0.4}Na_{0.6}Fe_2As_2$	$Fmmm$	C_Amca	Collinear	$Fmmm$	Y_4^+	$(0,1,0)$		–/–
1.792	V_3O_5	$P2/c$	C_a2/c	Coplanar	$P2/c$	$C_1^- \oplus C_2^-$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
1.793	$Ca_3Ru_2O_7$	$Cmc2_1$	P_Cna2_1	Collinear	$Cmc2_1$	Y_1	$(1,0,0)$		–/–
1.794	$Ca_3Ru_2O_7$	$Cmc2_1$	P_Cca2_1	Collinear	$Cmc2_1$	Y_1	$(1,0,0)$		–/–
1.795	$BiMn_3Cr_4O_{12}$	$Im\bar{3}$	$R_I\bar{3}$	Collinear	$Im\bar{3}$	H_1^-	H		–/–
1.796	$BiMn_3Cr_4O_{12}$	$Im\bar{3}$	$R_I\bar{3}$	Collinear	$Im\bar{3}$	H_1^-	H		–/–
1.797	$BiMn_3Cr_4O_{12}$	$Im\bar{3}$	R_I3	Collinear	$I23$	H_1	H		–/–
1.798	Tb_2O_3	$Ia\bar{3}$	$P_Ia\bar{3}$	Non-coplanar	$Ia\bar{3}$	H_4^-	H	Σ^+	–/–
1.799	MnO	$R\bar{3}m$	C_c2/c	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.800	NiO	$R\bar{3}m$	C_c2/c	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.801	Tb_3NbO_7	$C222_1$	$P_B2_12_12$	Non-coplanar	$C222_1$	$Y_1 \oplus Y_2 \oplus Y_3$	$(0,1,0)$	Σ^+, α^+	–/p
1.802	CrSBr	$Pmmn$	P_anma	Collinear	$Pmmn$	Z_1^+	Z		–/–
1.803	$LiCrTe_2$	$P\bar{3}m1$	$P_c\bar{3}c1$	Collinear	$P\bar{3}m1$	A_1^+	A		–/–
1.804	$Na_2Cu_3O(SO_4)_3$	$C2/c$	P_C2_1/c	Non-coplanar	$C2/c$	$2Y_1^- \oplus Y_2^-$	$(1,0,0)$	Σ^+	–/–
1.805	$FeVMoO_7$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	R_1^+	$(\frac{1}{2},-\frac{1}{2},\frac{1}{2})$		–/–
1.806	$CrVMoO_7$	$P\bar{1}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	U_1^-	$(\frac{1}{2},0,-\frac{1}{2})$		–/–
1.807	$FeWO_4$	$P2/c$	P_a2/c	Collinear	$P2/c$	Y_2^-	$(\frac{1}{2},0,0)$		–/–
1.808	$BaFeO_{2.96}$	$P6_3/mmc$	A_amm2	Collinear	$P\bar{6}m2$	A_3	A		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s}(\boldsymbol{q})$
1.809	$BiCoO_3$	$P4mm$	P_C4bm	Collinear	$P4mm$	M_3	M		–/–
1.810	$BiCoO_3$	$P4mm$	P_C4bm	Collinear	$P4mm$	M_3	M		–/–
1.811	$BiCoO_3$	$P4mm$	P_C4bm	Collinear	$P4mm$	M_3	M		–/–
1.812	$TbFe_6Ge_6$	$Cmcm$	P_Bnna	Collinear	$Cmcm$	Y_3^-	$(0,1,0)$		–/–
1.813	$TbFe_6Ge_6$	$Cmcm$	P_Bnna	Collinear	$Cmcm$	Y_3^-	$(0,1,0)$		–/–
1.814	$TbFe_6Ge_6$	$Cmcm$	P_Bnna	Collinear	$Cmcm$	Y_3^-	$(0,1,0)$		–/–
1.815	$Ba_4CeMn_3O_{12}$	$C2/m$	C_a2/c	Non-coplanar	$P2/c$	$C_1^+ \oplus 2C_2^+$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
1.816	$Ba_4PrMn_3O_{12}$	$P2/c$	C_a2/c	Non-coplanar	$P2/c$	$C_1^+ \oplus 2C_2^+$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
1.817	$Ba_4PrMn_3O_{12}$	$C2/m$	C_a2/c	Non-coplanar	$P2/c$	$C_1^+ \oplus 2C_2^+$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
1.818	$(Ho_{0.68}Lu_{0.32})_2Fe_2Si_2C$	$C2/m$	C_c2/m	Collinear	$C2/m$	A_2^-	$(0,0,\frac{1}{2})$		–/–
1.819	$(Ho_{0.54}Lu_{0.46})_2Fe_2Si_2C$	$C2/m$	C_c2/m	Collinear	$C2/m$	A_2^-	$(0,0,\frac{1}{2})$		–/–
1.820	$Ba_4TbRu_3O_{12}$	$R\bar{3}m$	C_cm	Collinear	$R3m$	T_1	T		–/–
1.821	$Yb_3Ga_5O_{12}$	$Ia\bar{3}d$	P_C2_1/c	Coplanar	$C2/c$	$2Y_1^+$	$(0,1,0)$	Σ^+	–/–
1.822	$Sr_2MnSi_2O_7$	$Cmm2$	C_cmc2_1	Coplanar	$Cmm2$	$Z_1 \oplus Z_2$	$(0,0,\frac{1}{2})$	Σ^+	–/f
1.823	$Sr_2MnSi_2O_7$	$P2_12_12$	$P_c2_12_12_1$	Coplanar	$P2_12_12$	$Z_1 \oplus Z_2$	Z	Σ^+, α^+	–/p
1.824	$PbCo_2V_2O_8$	$I4_1cd$	P_Ica2_1	Coplanar	$Iba2$	$X_2 \oplus X_3$	$(1,0,0)$	Σ^+, α^+	–/p
1.825	$TbFeWO_6$	Pc	C_ac	Non-coplanar	Pc	$C_1 \oplus 2C_2$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+, α^+	–/p
1.826	$NdZnPO$	$R\bar{3}m$	C_c2/c	Collinear	$C2/m$	M_2^-	$(1,0,-\frac{1}{2})$		–/–
1.827	$(Co_{0.45}Fe_{0.55})Sn$	$P6/mmm$	P_c6/mcc	Collinear	$P6/mmm$	A_1^+	A		–/–
1.828	$ZnFe_2O_4$	$Fd\bar{3}m$	$I_c\bar{4}2m$	Non-coplanar	$P\bar{4}m2$	$A_3 \oplus A_5$	A	Σ^+, α^+	–/p
1.829	$LuFeWO_6$	$Pna2_1$	C_ac	Non-coplanar	Pc	$C_1 \oplus 2C_2$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+, α^+	–/p
1.830	$FeBi_4S_7$	$C2/m$	C_c2/m	Collinear	$C2/m$	M_2^-	$(1,0,-\frac{1}{2})$		–/–
1.831	$Y_6FeSi_2S_{14}$	$P6_3$	P_c3	Collinear	$P3$	A_1	A		–/–
1.832	$Tb_6FeSi_2S_{14}$	$P6_3$	P_c3	Non-coplanar	$P3$	$A_1 \oplus A_2A_3$	A	Σ^+, α^+	–/p
1.833	$Pb(OF)Cu_3(SeO_3)_2(NO_3)$	$R3m$	R_I3	Non-coplanar	$R3m$	$T_1 \oplus T_3$	T	Σ^+, α^+	–/p
1.834	$Na_3Co(CO_3)_2Cl$	$Fd\bar{3}$	$Fd\bar{3}$	Non-coplanar	$Fd\bar{3}$	T_g	$\boldsymbol{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	d/–
1.835	$La_2Co_2O_3Se_2$	$I4/mmm$	C_Amcm	Coplanar	$Fmmm$	$T_3^- \oplus T_4^-$	$(1,0,0)$	Σ^+	–/–
1.836	$CeLi_3Bi_2$	$P\bar{3}m1$	P_A2_1/c	Collinear	$C2/m$	Y_1^+	$(1,0,0)$		–/–
1.837	Y_2Co_3	$Cmce$	P_Accn	Coplanar	$Cmce$	$Y_1^+ \oplus Y_3^+$	$(0,1,0)$	Σ^+	–/–
1.838	$LaMn_2Au_4$	$I4/mmm$	C_Amcm	Collinear	$I4/mmm$	M_3^-	$(1,0,0)$		–/–
1.839	$LaMnAu_5$	$P4/nmm$	I_c4cm	Coplanar	$P4/nmm$	A_1	A		–/h
1.840	$Sr_2Mn_2O_5$	$Pbam$	P_cbam	Coplanar	$Pbam$	$Z_3^- \oplus Z_4^-$	Z	Σ^+	–/–
1.841	$Sr_3Fe_2O_5Cl_2$	$I4/mmm$	C_c2/m	Collinear	$Fmmm$	Y_2^-	$(0,1,0)$		–/–
1.842	Ca_2FeO_3Cl	$P\bar{4}m2$	$P_C\bar{4}2_1m$	Coplanar	$P\bar{4}m2$	M_5	M	Σ^+	–/f
1.843	Ca_2FeO_3Cl	$P\bar{4}m2$	$P_C\bar{4}2_1m$	Coplanar	$P\bar{4}m2$	M_5	M	Σ^+	–/f
1.844	Sr_2FeO_3Cl	$P\bar{4}m2$	$P_C\bar{4}2_1m$	Coplanar	$P\bar{4}m2$	M_5	M	Σ^+	–/f
1.845	Sr_2FeO_3Cl	$P\bar{4}m2$	$P_C\bar{4}2_1m$	Coplanar	$P\bar{4}m2$	M_5	M	Σ^+	–/f
1.846	$LaCu_3Fe_4O_{12}$	$Im\bar{3}$	F_Smmm	Collinear	$Pm\bar{3}$	R_1^+	R		–/–
1.847	$PrCaFeO_4$	$Cmce$	P_Accn	Collinear	$Cmce$	Y_3^+	$(0,1,0)$		–/–
1.848	$La_2Ba_2Mn_4O_{11}$	$Cmmm$	I_cmmm	Collinear	$Cmmm$	T_4^-	$(0,1,\frac{1}{2})$		–/–
1.849	$Na_3Ni_2SbO_6$	$C2/m$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^-	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.850	$Tb_6FeSi_2S_{14}$	$P6_3$	P_c3	Non-coplanar	$P3$	$A_1 \oplus A_2A_3$	A	Σ^+, α^+	–/p
1.851	$Y_6FeSi_2S_{14}$	$P6_3$	P_c3	Collinear	$P3$	A_1	A		–/–
1.852	$UCu_{0.6}Bi_2$	$P4/nmm$	P_c4/ncc	Collinear	$P4/nmm$	Z_1^+	Z		–/–
1.853	Ba_2YFeO_5	$P2_1/c$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2V_1^-$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
1.854	$CoTeMoO_6$	$P2_12_12$	$P_c2_12_12_1$	Coplanar	$P2_12_12$	$Z_1 \oplus Z_2$	Z	Σ^+, α^+	–/p
1.855	Mn_3GaC	$Pm\bar{3}m$	$R_I\bar{3}c$	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.856	Mn_3GaC	$Pm\bar{3}m$	$R_I\bar{3}c$	Collinear	$R\bar{3}m$	T_1^+	T		–/–
1.857	Li_2CoCl_4	$Cmmm$	P_Cbam	Collinear	$Cmmm$	Y_1^+	$(0,1,0)$		–/–
1.858	$DyGa_3$	$P6_3/mmc$	P_Cbcm	Coplanar	$Cmcm$	$Y_2^- \oplus Y_4^-$	$(0,1,0)$	Σ^+	–/–
1.859	$DyGa_3$	$P6_3/mmc$	P_Cbcm	Coplanar	$Cmcm$	$Y_2^- \oplus Y_4^-$	$(0,1,0)$	Σ^+	–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
1.860	$KCoAsO_4$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	V_1^-	$(\frac{1}{2},\frac{1}{2},0)$		–/–
1.861	$KCoAsO_4$	$R\bar{3}$	$P_S\bar{1}$	Collinear	$P\bar{1}$	R_1^+	$(\frac{1}{2},\frac{1}{2},\frac{1}{2})$		–/–
1.862	Ba_2HoFeO_5	$P2_1/c$	$P_S\bar{1}$	Non-coplanar	$P\bar{1}$	$3V_1^+$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
1.863	Ba_2DyFeO_5	$P2_1/c$	$P_S\bar{1}$	Non-coplanar	$P\bar{1}$	$3V_1^-$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
1.864	Ba_2TbFeO_5	$P2_1/c$	P_a2_1/c	Non-coplanar	$P2_1/c$	$2Y_1^+\oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.865	Ba_2YbFeO_5	$P2_1/c$	P_a2_1/c	Non-coplanar	$P2_1/c$	$2Y_1^+\oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.866	$Na_2Co_3(AsO_4)_2(OH)_2$	$C2/m$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2V_1^-$	$(\frac{1}{2},-\frac{1}{2},0)$	Σ^+	–/–
1.867	$Ba_6Nd_2Fe_4O_{15}$	$P6_3mc$	P_Cmc2_1	Collinear	$Cmc2_1$	Y_3	$(0,1,0)$		–/–
1.868	$DyNiAl_4Ge_2$	$R\bar{3}m$	C_c2/c	Collinear	$R\bar{3}m$	T_2^-	T		–/–
1.869	$DyNiAl_4Ge_2$	$R\bar{3}m$	C_c2/m	Collinear	$R\bar{3}m$	T_2^-	T		–/–
1.870	$NdCrGeO_5$	$Pbam$	P_bnma	Coplanar	$Pbam$	$Z_1^+\oplus Z_2^+$	Z	Σ^+	–/–
1.871	Li_2FeSiO_4	$Pnma$	P_a2_1/c	Collinear	$P2_1/c$	Y_2^+	$(\frac{1}{2},0,0)$		–/–
1.872	UNb_6Sn_6	$P6/mmm$	P_c6/mcc	Collinear	$P6/mmm$	A_1^+	A		–/–
1.873	UV_6Sn_6	$P6/mmm$	P_c6/mcc	Collinear	$P6/mmm$	A_1^+	A		–/–
1.874	$CaCuFe_2O_5$	$Cmcm$	P_Amma	Collinear	$Cmcm$	Y_3^+	$(0,1,0)$		–/–
1.875	KV_2Se_2O	$P4/mmm$	P_c4_2/mcm	Collinear	$P4/mmm$	Z_2^+	Z		–/–
1.876	$Co_2Te_3O_8$	$C2/c$	P_C2_1/c	Coplanar	$C2/c$	$Y_1^+\oplus Y_2^+$	$(1,0,0)$	Σ^+	–/–
1.877	Ce_2Cu_2In	$P4/mbm$	P_c4_2/mnm	Coplanar	$P4/mbm$	Z_5^+	Z	Σ^+	–/–
1.878	$Fe_7(PO_4)_6$	$P\bar{1}$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2V_1^+$	$(\frac{1}{2},-\frac{1}{2},0)$	Σ^+	–/–
1.879	$MnH_{0.41}$	$Fm\bar{3}m$	P_I4/mnc	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.880	$Bi_2MnO_2F_4$	$I4/mmm$	C_Amca	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.881	Ce_5CoGe_2	$Pnma$	$Pnm'a'$	Non-coplanar	$Pnma$	$A_g\oplus B_{1g}\oplus B_{2g}$	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
1.882	$CeMn_{0.84}Sb_2$	$P4/nmm$	P_c4_2/ncm	Collinear	$P4/nmm$	Z_2^+	Z		–/–
1.883	$K_4Ni_5Te_3O_{16}$	$Pmm2$	F_Smm2	Non-coplanar	Pm	$E_1\oplus 2E_2$	$(\frac{1}{2},\frac{1}{2},\frac{1}{2})$	Σ^+, α^+	–/p
1.884	$K_4Ni_5Te_3O_{16}$	$Pmm2$	F_Smm2	Non-coplanar	$Pmm2$	$R_1\oplus R_3\oplus R_4$	R	Σ^+, α^+	–/p
1.885	Ba_2DyRuO_6	$Fm\bar{3}m$	P_Innm	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.886	$Ba_{0.76}Na_{0.24}Fe_2As_2$	$Fmmm$	C_Amca	Collinear	$Fmmm$	T_3^+	$(1,0,0)$		–/–
1.887	$LaFeAs_{0.35}P_{0.65}O$	$P4/nmm$	$P_C\bar{4}2_1m$	Collinear	$P\bar{4}m2$	M_1	M		–/–
1.888	$LaFeAs_{0.55}P_{0.45}O$	$P4/nmm$	P_C4bm	Coplanar	$P4/nmm$	M_2	M		–/h
1.889	$La_3Ni_2O_7$	$Cmcm$	$Pcmmn$	Collinear	$Pmmn$	Z_3^+	Z		–/–
1.890	$La_3Ni_2O_7$	$P2_1/m$	P_a2_1/m	Collinear	$P2_1/m$	A_1^+	$(\frac{1}{2},0,-\frac{1}{2})$		–/–
1.891	$La_2PrNi_2O_7$	$Cmcm$	P_cmmn	Collinear	$Pmmn$	Z_3^+	Z		–/–
1.892	Cs_2RuO_4	$Pnma$	P_a2_1/c	Collinear	$P2_1/c$	Y_1^-	$(\frac{1}{2},0,0)$		–/–
1.893	Cs_2CoBr_4	$Pnma$	P_a2_1/c	Collinear	$P2_1/c$	Y_1^-	$(\frac{1}{2},0,0)$		–/–
1.894	$Rb_{0.85}V_2Te_2O$	$P4/mmm$	P_c4_2/mcm	Collinear	$P4/mmm$	Z_4^-	Z		–/–
1.895	$CrRhAs$	$P\bar{6}2m$	$P_c\bar{6}$	Coplanar	$P\bar{6}$	A_4A_6	A	Σ^+	–/f
1.896	$Li_2Co_3Se_4O_{12}$	$P2_1/c$	P_a2_1/c	Non-coplanar	$P2_1/c$	$2Y_1^+\oplus Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
1.897	Ho_2RhSi_3	$P6_3/mmc$	P_Amc2_1	Collinear	$Amm2$	Y_1	$(0,0,1)$		–/–
1.898	Dy_2RhSi_3	$P6_3/mmc$	$P_S\bar{1}$	Collinear	$C2/m$	A_2^-	$(0,0,\frac{1}{2})$		–/–
1.899	$Cs_2NaFeCl_6$	$Fm\bar{3}m$	I_c4_1/acd	Collinear	$P4_2/nnm$	A_4^+	A		–/–
1.900	$Cs_2AgFeCl_6$	$I4/mmm$	P_Innm	Collinear	$I4/mmm$	M_1^+	$(0,0,1)$		–/–
1.901	$UOTe$	$P4/nmm$	P_c4/ncc	Collinear	$P4/nmm$	Z_1^+	Z		–/–
1.902	$CeTi_3Bi_4$	$Fmmm$	C_Accm	Collinear	$Fmmm$	Y_1^+	$(0,1,0)$		–/–
1.904	$GdCu_2$	$Imma$	P_Imn2_1	Coplanar	$Imma$	Σ_3	$(\frac{1}{3},0,0)$, $(-\frac{1}{3},0,0)$	α^+	–/p
2.1	$EuFe_2As_2$	$Fmmm$	P_Cbca	Collinear	$Cmce$	Y_1^+	$(0,1,0)$		–/–
2.2	$Sr_2F_2Fe_2OS_2$	$I4/mmm$	C_a2/m	Coplanar	$C2/m$	V_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.3	$HoNiO_3$	$P2_1/c$	$P2_1$	Non-coplanar	$P2_1$	$A\oplus 2B$	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
2.4	$Eu(Fe_{0.82}Co_{0.18})_2As_2$	$I4/mmm$	$Cmm'm'$	Coplanar	$Fmmm$	$A_g\oplus Y_4^+$	$\boldsymbol{0}$, $(0,1,0)$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.5	Mn_3CuN	$Pm\bar{3}m$	$P4/n$	Non-coplanar	$P4/mmm$	$A_{1g}\oplus M_5^-$	$\boldsymbol{0}$, M	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
2.6	Nd_2CuO_4	$I4/mmm$	P_C4_2/nnm	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.7	Sm_2CuO_4	$I4/mmm$	P_C4_2/ncm	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.8	$SrHo_2O_4$	$Pnma$	$P2_1/c'$	Coplanar	$P2_1/c$	$B_u \oplus Y_1^-$	$\mathbf{0}$, $(\frac{1}{2},0,0)$	α^-	–/–
2.9	$Ca_3CuNi_2(PO_4)_4$	$C2/c$	C_a2/c	Non-coplanar	$P2/c$	$C_1^- \oplus 2C_2^-$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
2.10	HoP	$Fm\bar{3}m$	$C2'/c'$	Coplanar	$R\bar{3}m$	$A_{1g} \oplus T_1^+$	$\mathbf{0}$, T	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
2.11	TbMg	$Pm\bar{3}m$	$Pmm'a'$	Coplanar	$P4/mmm$	$A_{1g} \oplus Z_1^+$	$\mathbf{0}$, Z	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
2.12	TbMg	$Pm\bar{3}m$	$Pc'cm'$	Coplanar	$P4/mmm$	$A_{1g} \oplus Z_1^+$	$\mathbf{0}$, Z	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
2.13	UP	$Fm\bar{3}m$	P_C4_2/nnm	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},\frac{1}{2},0)$, $(\frac{1}{2},-\frac{1}{2},0)$		–/–
2.14	NdMg	$Pm\bar{3}m$	P_C4/nbm	Coplanar	$P4/mmm$	X_1^+	X		–/–
2.15	$Mn_3Ni_{20}P_6$	$Fm\bar{3}m$	$Cmm'm'$	Collinear	$P4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
2.16	Ce_2PdGe_3	$P4_2/mmc$	Pm'	Coplanar	$Amm2$	$2A_1$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	s/p
2.17	$Pb_2Mn_{0.6}Co_{0.4}WO_6$	$Pnma$	$Pm'c2_1'$	Collinear	$Pmc2_1$	B_2	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}$, Σ^-, α^-	d/–
2.18	Sc_2NiMnO_6	$P2_1/c$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2R_1^+$	$(\frac{1}{2},-\frac{1}{2},\frac{1}{2})$	Σ^+	–/–
2.19	Mn_3ZnC	$Pm\bar{3}m$	$I4/mm'm'$	Non-coplanar	$P4/mmm$	$A_{1g} \oplus A_5^+$	$\mathbf{0}$, A	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
2.20	UAs	$Fm\bar{3}m$	P_C4_2/nnm	Coplanar	$P4_2/mcm$	X_4^-	X		–/–
2.21	TbOOH	$P2_1/m$	$P2_1/c'$	Coplanar	$P2_1/m$	$B_u \oplus B_2^-$	$\mathbf{0}$, $(0,0,\frac{1}{2})$	α^-	–/–
2.22	$FeTa_2O_6$	$P4_2/mnm$	I_c4_1/a	Coplanar	$P4_2/m$	R_1^-	R		–/–
2.23	$Sr_2CoO_2Ag_2Se_2$	$I4/mmm$	P_C4_2/n	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.24	$Ba_2CoO_2Ag_2Se_2$	$I4/mmm$	P_C4_2/n	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.25	Sr_2CoOsO_6	$C2/m$	$P_S\bar{1}$	Coplanar	$P\bar{1}$	$2R_1^+$	$(\frac{1}{2},\frac{1}{2},\frac{1}{2})$	Σ^+	–/–
2.26	$PrCo_2P_2$	$I4/mmm$	$P4/mm'm'$	Collinear	$P4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
2.27	$Sr_2Mn_3Sb_2O_2$	$I4/mmm$	$Cm'cm$	Coplanar	$Fmmm$	$A_u \oplus T_1^+$	$\mathbf{0}$, $(1,0,0)$		–/–
2.28	$NpNiGa_5$	$P4/mmm$	$Imm'a'$	Coplanar	$P4/mmm$	$A_{1g} \oplus A_1^+$	$\mathbf{0}$, A	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
2.29	Mn_3O_4	$I4_1/amd$	$Pb'c'n$	Coplanar	$Pbcn$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
2.30	$CeRh_2Si_2$	$I4/mmm$	P_Bcca	Collinear	$Cmme$	Y_3^+	$(1,0,0)$		–/–
2.31	Mn_3ZnN	$Pm\bar{3}m$	P_Ibcn	Coplanar	$P4/mmm$	$M_1^+ \oplus Z_3^-$	Z, M		–/–
2.32	$Dy_3Ru_4Al_{12}$	$P6_3/mmc$	$P\bar{3}c'1$	Non-coplanar	$P6_3/mcm$	$A_{1g} \oplus E_{2g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, σ^-	s/–
2.33	$Na_2Mn_3Se_4$	$C2/m$	$P_S\bar{1}$	Non-coplanar	$P\bar{1}$	$3Z_1^+$	$(0,0,\frac{1}{2})$	Σ^+	–/–
2.34	$La_{0.25}Pr_{0.75}Co_2P_2$	$I4/mmm$	$C2'/m'$	Coplanar	$P4/mmm$	$2A_{1g}$	$\mathbf{0}$	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+	s/–
2.35	CrSe	$P6_3/mmc$	$P31m'$	Non-coplanar	$P6_3/mmc$	$B_{2g} \oplus K_2$	$\mathbf{0}$, K		g/f
2.36	$TbGe_3$	$Cmcm$	P_cnma	Collinear	$Pbcm$	X_1^+	X		–/–
2.37	$La_8Cu_7O_{19}$	$C2/c$	$P_S\bar{1}$	Non-coplanar	$P\bar{1}$	$3V_1^+$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
2.38	Pb_2MnWO_6	$Pmc2_1$	$Pmn2_1$	Non-coplanar	$Pmc2_1$	$B_2 \oplus X_2 \oplus X_4$	$\mathbf{0}$, X	$\boldsymbol{C}_{\mu\nu}$, Σ^-, Σ^+, α^-, α^+	d/p
2.39	$LaCaFeO_4$	$I4/mmm$	P_C4_2/ncm	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.40	$LaBaFeO_4$	$I4/mmm$	P_C4_2/ncm	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.41	$LaSrFeO_4$	$I4/mmm$	P_C4_2/ncm	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.42	$LaSrFeO_4$	$I4/mmm$	P_C4_2/nnm	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.43	Fe_2MnBO_5	$Pbam$	$Pb'am'$	Coplanar	$Pbam$	$A_g \oplus Z_1^-$	$\mathbf{0}$, Z	$\boldsymbol{M}$, $\boldsymbol{C}_{\mu\nu}$, Σ^-	s/–
2.44	$KCuMnS_2$	$I4/mmm$	P_C4/mmm	Coplanar	$I4/mmm$	X_4^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.45	$Pb_2BaCuFeO_5Br$	$P4/mmm$	P_C2	Coplanar	$P4/mmm$	$2M_3^-$	M	Σ^+	–/–
2.46	$Pb_2BaCuFeO_5Cl$	$P4/mmm$	P_C2	Coplanar	$P4/mmm$	$2M_3^-$	M	Σ^+	–/–
2.47	$Y_2SrCuFeO_{6.5}$	$Ibam$	$Pc'c'n$	Coplanar	$Ibam$	$B_{3g} \oplus X_3^-$	$\mathbf{0}$, $(0,0,1)$	$\boldsymbol{C}_{\mu\nu}$, Σ^-	d/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
2.48	Pr_2CuO_4	$I4/mmm$	P_C4_2/nnm	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.49	$La_2O_2Fe_2OSe_2$	$I4/mmm$	C_a2/m	Coplanar	$C2/m$	V_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.50	$EuMnBi_2$	$I4/mmm$	$P4_2'/m'm'c$	Collinear	$P4_2/mmc$	B_{2u}	$\boldsymbol{0}$		–/–
2.51	$EuMnBi_2$	$I4/mmm$	$Pm'n'2_1$	Coplanar	$I\bar{4}m2$	$A_1 \oplus M_2$	$\boldsymbol{0}$, $(0,0,1)$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.52	Mn_3O_4	$I4_1/amd$	Pc'	Non-coplanar	$Pca2_1$	$A_1 \oplus A_2 \oplus B_2$	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
2.53	$Ba_2Mn_3Sb_2O_2$	$I4/mmm$	$Cm'ma$	Coplanar	$Fmmm$	$A_u \oplus Y_1^+$	$\boldsymbol{0}$, $(0,1,0)$		–/–
2.54	$Sr_2Cr_3As_2O_2$	$I4/mmm$	P_C2_1/c	Coplanar	$Fmmm$	$Y_1^+ \oplus Z_2^+$	$(0,0,1)$, $(0,1,0)$		–/–
2.55	$Sr_2Fe_3Se_2O_3$	$Pbam$	C_cc	Non-coplanar	Pm	$2A_1 \oplus C_2$	$(\frac{1}{2},0,\frac{1}{2})$, $(\frac{1}{2},\frac{1}{2},0)$	Σ^+, α^+	–/p
2.56	$La_2O_2Fe_2OS_2$	$I4/mmm$	C_a2/m	Coplanar	$C2/m$	L_1^+	$(\frac{1}{2},\frac{1}{2},-\frac{1}{2})$, $(\frac{1}{2},-\frac{1}{2},-\frac{1}{2})$		–/–
2.57	$TbMn_2Si_2$	$I4/mmm$	$Pmm'n'$	Coplanar	$I4/mmm$	$A_{1g} \oplus M_3^-$	$\boldsymbol{0}$, $(0,0,1)$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.58	$La_{0.73}Tb_{0.27}Mn_2Si_2$	$I4/mmm$	$Pnnm'$	Coplanar	$I4/mmm$	$B_{2u} \oplus M_3^-$	$\boldsymbol{0}$, $(0,0,1)$		–/–
2.59	Mn_3As_2	$C2/m$	$C2/c$	Non-coplanar	$C2/m$	$A_g \oplus 2A_1^+$	$\boldsymbol{0}$, $(0,0,\frac{1}{2})$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
2.60	$NdMn_2Si_2$	$I4/mmm$	$Pmm'n'$	Coplanar	$I4/mmm$	$A_{1g} \oplus M_3^-$	$\boldsymbol{0}$, $(0,0,1)$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.61	$Fe_3F_8(H_2O)_2$	$C2/m$	$C2'/m'$	Non-coplanar	$C2/m$	$B_g \oplus 2M_1^+$	$\boldsymbol{0}$, $(1,0,-\frac{1}{2})$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	d/–
2.62	$TbCrO_3$	$Pnma$	$Pm'n'2_1$	Non-coplanar	$Pmn2_1$	$B_1 \oplus Y_1 \oplus Y_3$	$\boldsymbol{0}, Y$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	d/p
2.63	$DyCrO_3$	$Pnma$	$P2_1'/m'$	Non-coplanar	$P2_1/m$	$B_g \oplus 2A_2^-$	$\boldsymbol{0}$, $(\frac{1}{2},0,\frac{1}{2})$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	d/–
2.64	$DyCrO_3$	$Pnma$	$P2_1'/m'$	Non-coplanar	$P2_1/m$	$B_g \oplus 2A_2^-$	$\boldsymbol{0}$, $(\frac{1}{2},0,\frac{1}{2})$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	d/–
2.65	UPd_2Si_2	$I4/mmm$	$P4/mm'm'$	Collinear	$P4/mmm$	A_{1g}	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.66	$FeSn_2$	$I4/mcm$	$Cc'ca$	Coplanar	$I4/mcm$	$A_{1u} \oplus M_1^+$	$\boldsymbol{0}$, $(1,0,0)$		–/–
2.67	$FeSn_2$	$I4/mcm$	P_Cbcn	Coplanar	$Fmmm$	$T_3^+ \oplus Y_4^-$	$(0,1,1)$, $(0,1,0)$		–/–
2.68	$FeGe_2$	$I4/mcm$	$Pc'cn$	Coplanar	$I4/mcm$	$A_{1u} \oplus M_1^+$	$\boldsymbol{0}$, $(1,0,0)$		–/–
2.69	$La_{0.5}Ca_{0.5}MnO_3$	$Pnma$	P_a2_1/m	Coplanar	$P2_1/m$	$2Y_2^+$	$(\frac{1}{2},0,0)$	Σ^+	–/–
2.70	$GdMg$	$Pm\bar{3}m$	$C2'/c'$	Coplanar	$P4/mmm$	$A_{1g} \oplus Z_1^+$	$\boldsymbol{0}, Z$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.71	$HoRh$	$Pm\bar{3}m$	P_C2_1/m	Coplanar	$Pmmm$	$X_1^+ \oplus Y_1^+$	X, Y		–/–
2.72	VNb_3S_6	$P6_322$	$C2'2'2_1$	Coplanar	$P6_322$	$A_1 \oplus B_1$	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/f
2.73	$BaNd_2ZnO_5$	$I4/mcm$	P_C4/ncc	Coplanar	$I4/mcm$	X_4^-	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.74	$BaDy_2O_4$	$Pnma$	$P2_1'$	Collinear	$P2_1$	A	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	s/–
2.75	$Sr_2Fe_3S_2O_3$	$Pbam$	P_A2_1/c	Non-coplanar	$P2/m$	$2A_1^+ \oplus Z_2^+$	$(\frac{1}{2},0,\frac{1}{2})$, $(0,\frac{1}{2},0)$	Σ^+	–/–
2.76	$Sr_2Fe_3Se_2O_3$	$Pbam$	C_cc	Non-coplanar	Pm	$2A_1 \oplus C_2$	$(\frac{1}{2},0,\frac{1}{2})$, $(\frac{1}{2},\frac{1}{2},0)$	Σ^+, α^+	–/p
2.77	Eu_2CuO_4	$I4/mmm$	P_C4_2/ncm	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.78	Nd_2CuO_4	$I4/mmm$	P_C4_2/nnm	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.79	Pr_2CuO_4	$I4/mmm$	P_C4_2/nnm	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.80	$ErFe_6Ge_6$	$Immm$	$Pm'm'n$	Collinear	$Pmmn$	A_g	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.81	$ErMn_2Si_2$	$I4/mmm$	$Pm'm'n$	Coplanar	$I4/mmm$	$A_{1g} \oplus M_3^-$	$\boldsymbol{0}$, $(0,0,1)$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.82	$ErMn_2Si_2$	$I4/mmm$	$Pm'm'n$	Coplanar	$I4/mmm$	$A_{1g} \oplus M_3^-$	$\boldsymbol{0}$, $(0,0,1)$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.83	$ErMn_2Ge_2$	$I4/mmm$	$Pm'm'n$	Coplanar	$I4/mmm$	$A_{1g} \oplus M_3^-$	$\boldsymbol{0}$, $(0,0,1)$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.84	$ErMn_2Ge_2$	$I4/mmm$	$Pm'm'n$	Coplanar	$I4/mmm$	$A_{1g} \oplus M_3^-$	$\boldsymbol{0}$, $(0,0,1)$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.85	Ho_2BaCuO_5	$Pnma$	$P2_1'/c$	Coplanar	$P2_1/c$	$A_u \oplus B_u$	$\boldsymbol{0}$	Σ^+, α^-	–/–
2.86	$FeTa_2O_6$	$P4_2/mnm$	I_c4_1/a	Coplanar	$P4_2/m$	R_2^-	R		–/–
2.87	$TbCoGa_5$	$P4/mmm$	I_bbam	Coplanar	$Pmmm$	$T_1^+ \oplus U_1^+$	U, T		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$s(\boldsymbol{q})$
2.88	UNiGa	$P\bar{6}2m$	$P\bar{6}'2m'$	Collinear	$P\bar{6}2m$	A_2''	$\mathbf{0}$	α^-	g/–
2.89	$LaSrCrO_4$	$I4/mmm$	P_C4_2/ncm	Coplanar	$I4/mmm$	X_1^+	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.90	Mn_3O_4	$I4_1/amd$	$Pb'c'n$	Coplanar	$Pbcn$	$A_g \oplus B_{2g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–
2.91	$NaCo_2(SeO_3)_2(OH)$	$Pnma$	$Pn'a2_1'$	Non-coplanar	$Pmn2_1$	$A_1 \oplus Y_1 \oplus Y_3$	$\mathbf{0}, Y$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
2.92	Er_2Ni_2Pb	$Cmmm$	P_b2_1/m	Collinear	$P2/m$	Z_1^-	$(0,\frac{1}{2},0)$		–/–
2.93	$CoCrO_4$	$Cmcm$	$Pbcn$	Coplanar	$Cmcm$	$B_{3g} \oplus Y_3^+$	$\mathbf{0}, (0,1,0)$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-$	d/–
2.94	$TmMn_2Ge_2$	$I4/mmm$	$Pm'c'2_1$	Coplanar	$P4mm$	$A_1 \oplus Z_1$	$\mathbf{0}, Z$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-$	s/–
2.95	$TbMn_2Ge_2$	$I4/mmm$	$P4/nm'm'$	Collinear	$P4/nmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.96	$GdMn_2Si_2$	$I4/mmm$	$Pnnm'$	Coplanar	$I4/mmm$	$B_{2u} \oplus M_3^-$	$\mathbf{0}, (0,0,1)$		–/–
2.97	$GdMn_2Si_2$	$I4/mmm$	$Pm'm'n$	Coplanar	$I4/mmm$	$A_{1g} \oplus M_3^-$	$\mathbf{0}, (0,0,1)$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.98	$EuMnBi_2$	$I4/mmm$	$P4_2'/m'm'c$	Collinear	$P4_2/mmc$	B_{2u}	$\mathbf{0}$		–/–
2.99	TbNiAl	$P\bar{6}2m$	C_am	Collinear	Pm	E_2	$(\frac{1}{2},\frac{1}{2},\frac{1}{2})$		–/–
2.100	HoP	$Fm\bar{3}m$	$C2'/c'$	Coplanar	$R\bar{3}m$	$A_{1g} \oplus T_1^+$	$\mathbf{0}, T$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.101	TbSbTe	$P4/nmm$	C_a2	Non-coplanar	$P2$	$C_1 \oplus 2C_2$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+, α^+	–/p
2.102	TbSbTe	$P4/nmm$	C_a2	Non-coplanar	$P2$	$E_1 \oplus 2E_2$	$(\frac{1}{2},\frac{1}{2},-\frac{1}{2})$	Σ^+, α^+	–/p
2.103	Eu_3PbO	$Pm\bar{3}m$	$Pm'm'm$	Collinear	$P4/mmm$	A_{1g}	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
2.104	$BaNd_2ZnS_5$	$I4/mcm$	P_C4/nnc	Coplanar	$I4/mcm$	X_4^-	$(\frac{1}{2},-\frac{1}{2},0)$, $(\frac{1}{2},\frac{1}{2},0)$		–/–
2.105	DySbTe	$P4/nmm$	$P2_1/c'$	Coplanar	$P2_1/m$	$B_u \oplus A_2^-$	$\mathbf{0}, (\frac{1}{2},0,\frac{1}{2})$	α^-	–/–
2.106	$CaCo_3V_4O_{12}$	$Im\bar{3}$	$Pm'm'n'$	Collinear	$Pmmn$	B_{1u}	$\mathbf{0}$	α^-	–/–
2.107	$DyTe_3$	$Cmcm$	P_Cc	Non-coplanar	Cm	$M_1 \oplus 2Y_1$	$(1,0,0)$, $(1,0,\frac{1}{2})$	Σ^+, α^+	–/p
2.108	Tb_3NbO_7	$C222_1$	C_a222_1	Non-coplanar	$P222_1$	$S_2 \oplus S_3 \oplus S_4$	S	Σ^+, α^+	–/p
2.109	$La_{0.35}Pr_{0.35}Ca_{0.3}MnO_3$	$Pnma$	P_a2_1/m	Collinear	$P2_1/m$	Y_1^+	$(\frac{1}{2},0,0)$		–/–
2.110	$La_{0.35}Pr_{0.35}Ca_{0.3}MnO_3$	$Pnma$	P_a2_1/m	Collinear	$P2_1/m$	Y_1^+	$(\frac{1}{2},0,0)$		–/–
2.111	$TbFe_6Ge_6$	$Cmcm$	Pc'	Coplanar	$Pma2$	$2A_1$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
2.112	$TbFe_6Ge_6$	$Cmcm$	$Pc'a2_1'$	Coplanar	$Pbcm$	$A_g \oplus B_{3u}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \alpha^-, \alpha^+$	s/p
2.113	$TbFe_6Ge_6$	$Cmcm$	$P2_1'$	Non-coplanar	$Pbcm$	$2A_g \oplus B_{3u}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	s/p
2.114	$Er_2CuMn_5O_{12}$	$Pmmn$	$Pmm'n'$	Non-coplanar	$Pmmn$	$A_g \oplus Z_2^+ \oplus Z_3^+$	$\mathbf{0}, Z$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
2.115	$Er_2CuMn_5O_{12}$	$Pmmn$	$P2'/c'$	Non-coplanar	$P2/c$	$A_g \oplus Z_1^+ \oplus Z_2^+$	$\mathbf{0}, (0,\frac{1}{2},0)$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
2.116	$Na_3Co_2SbO_6$	$C2/m$	C_a2/m	Coplanar	$P2/m$	$C_1^- \oplus C_2^-$	$(\frac{1}{2},\frac{1}{2},0)$	Σ^+	–/–
2.117	NdB_4	$P4/mbm$	$P2_1'/c$	Non-coplanar	$P2_1/c$	$2A_u \oplus B_u$	$\mathbf{0}$	Σ^+, α^-	–/–
2.118	$Fe_7(PO_4)_6$	$P\bar{1}$	$P_S\bar{1}$	Non-coplanar	$P\bar{1}$	$3T_1^+$	$(0,\frac{1}{2},-\frac{1}{2})$	Σ^+	–/–
2.119	Fe_2SiSe_4	$Pnma$	$Pmn2_1$	Non-coplanar	$Pmn2_1$	$A_2 \oplus B_1 \oplus B_2$	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
2.120	$Ba_{0.76}Na_{0.24}Fe_2As_2$	$I4/mmm$	P_C4_2/ncm	Collinear	$P4_2/mmc$	M_4^-	M		–/–
2.121	NiS_2	$Pa\bar{3}$	$R\bar{3}$	Non-coplanar	$R\bar{3}$	$E_g \oplus T_1^+$	$\mathbf{0}, T$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	d/–
2.122	$Hg_{0.7}Na_{0.3}Mn_7O_{12}$	$Pnn2$	$P2_1'$	Non-coplanar	$P2_1$	$2A \oplus B$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
2.123	Pr_2In	$Cmcm$	$C2'/m'$	Non-coplanar	$Cmcm$	$2A_g \oplus B_{1g}$	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-$	s/–
3.1	TmAgGe	$P\bar{6}2m$	$P\bar{6}'2m'$	Coplanar	$P\bar{6}2m$	E'	$\mathbf{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-$	d/f
3.2	UO_2	$Fm\bar{3}m$	$Pn\bar{3}m'$	Non-coplanar	$Fm\bar{3}m$	X_1^+	X		–/–
3.3	Ho_2RhIn_8	$P4/mmm$	$Cm'cm'$	Collinear	$Cmcm$	A_g	$\mathbf{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
3.4	$MgCr_2O_4$	$Fd\bar{3}m$	$P\bar{4}2'm'$	Non-coplanar	$I\bar{4}m2$	$M_1 \oplus X_4$	$(0,0,1)$, $(\frac{1}{2},\frac{1}{2},0)$, $(\frac{1}{2},-\frac{1}{2},0)$	σ^-	–/–
3.5	$Fe_{0.7}Mn_{0.3}$	$Fm\bar{3}m$	$Pn\bar{3}m'$	Non-coplanar	$Fm\bar{3}m$	X_1^+	X		–/–
3.6	DyCu	$Pm\bar{3}m$	$Im\bar{3}m'$	Non-coplanar	$Pm\bar{3}m$	M_4^+	M		–/–
3.7	NpBi	$Fm\bar{3}m$	$Pn\bar{3}m'$	Non-coplanar	$Fm\bar{3}m$	X_1^+	X		–/–

ID	Compound	PM SG	MSG (BNS)	Order	Parent SG	Γ	$\boldsymbol{k}$	Allowed responses	$\boldsymbol{s(q)}$
3.8	NdZn	$Pm\bar{3}m$	$P_Inn\bar{3}n$	Non-coplanar	$Pm\bar{3}m$	X_1^+	X		–/–
3.9	NpS	$Fm\bar{3}m$	$F_Sd\bar{3}c$	Non-coplanar	$Pn\bar{3}m$	R_5^+	R	Σ^+	–/–
3.10	NpSe	$Fm\bar{3}m$	$F_Sd\bar{3}c$	Non-coplanar	$Pn\bar{3}m$	R_5^+	R	Σ^+	–/–
3.11	NpTe	$Fm\bar{3}m$	$F_Sd\bar{3}c$	Non-coplanar	$Pn\bar{3}m$	R_5^+	R	Σ^+	–/–
3.12	USb	$Fm\bar{3}m$	$Pn\bar{3}m'$	Non-coplanar	$Fm\bar{3}m$	X_1^+	X		–/–
3.13	CeB_6	$Pm\bar{3}m$	C_amca	Coplanar	$Cmcm$	S_2^-	$(\frac{1}{2},\frac{1}{2},0)$, $(\frac{1}{2},-\frac{1}{2},0)$		–/–
3.14	FeI_2	$P\bar{3}m1$	$C2'/m'$	Collinear	$C2/m$	A_g	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
3.15	FeI_2	$P\bar{3}m1$	$P\bar{3}m'1$	Collinear	$P\bar{3}m1$	A_{1g}	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
3.16	$Gd_2Ti_2O_7$	$Fd\bar{3}m$	$F_S\bar{4}3m$	Non-coplanar	$P\bar{4}3m$	R_5	R	Σ^+	–/f
3.17	$BaCu_3V_2O_8(OD)_2$	$P3_121$	$P3_12'1$	Coplanar	$P3_121$	E	$\boldsymbol{0}$	$\boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \alpha^-, \alpha^+$	d/p
3.18	HoRh	$Pm\bar{3}m$	$P_Ia\bar{3}$	Non-coplanar	$Pm\bar{3}m$	X_1^+	X		–/–
3.19	CoO	$Fm\bar{3}m$	I_c4_1/acd	Non-coplanar	$P4_2/nnm$	$A_4^+ \oplus A_5^+$	A	Σ^+	–/–
3.20	$TbMn_2Ge_2$	$I4/mmm$	$P\bar{1}$	Coplanar	$P2_1/m$	$A_g \oplus Y_2^-$	$\boldsymbol{0}$, $(\frac{1}{2},0,0)$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
3.21	$TmGa_3$	$Pm\bar{3}m$	$Im\bar{3}m'$	Non-coplanar	$Pm\bar{3}m$	M_1^+	M		–/–
3.22	Eu_3PbO	$Pm\bar{3}m$	$P_Ia\bar{3}$	Non-coplanar	$Pm\bar{3}m$	X_1^+	X		–/–
3.23	Eu_3PbO	$Pm\bar{3}m$	$P4/mm'm'$	Collinear	$P4/mmm$	A_{1g}	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-$	s/–
3.24	$CaFe_3Ti_4O_{12}$	$Im\bar{3}$	$R\bar{3}$	Non-coplanar	$R\bar{3}$	F_1^+	$(\frac{1}{2},\frac{1}{2},0)$, $(1,-\frac{1}{2},0)$, $(\frac{1}{2},-1,0)$	σ^-	–/–
3.25	$CoTa_3S_6$	$P6_322$	$P32'1$	Non-coplanar	$P6_322$	$A_1 \oplus E_2$	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^+$	s/p
3.26	$CoNb_3S_6$	$P6_322$	$P32'1$	Non-coplanar	$P6_322$	$A_1 \oplus E_2$	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^+$	s/p
3.27	$Gd_3Ru_4Al_{12}$	$P6_3/mmc$	$P6_32'2'$	Non-coplanar	$P6_3/mmc$	$A_{1g} \oplus E_{1u}$	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
3.28	NiO	$R\bar{3}m$	$R_I\bar{3}c$	Non-coplanar	$R\bar{3}m$	$T_1^+ \oplus T_3^+$	T	Σ^+	–/–
3.29	$Na_2Co_2TeO_6$	$P6_322$	$P6_32'2'$	Non-coplanar	$P6_322$	$A_1 \oplus E_1$	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+, \sigma^-, \alpha^-, \alpha^+$	s/p
3.30	Cr_7Te_8	$P6_3/mmc$	$C2'/c'$	Coplanar	$Cmce$	$A_g \oplus B_{3g}$	$\boldsymbol{0}$	$\boldsymbol{M}, \boldsymbol{C}_{\mu\nu}, \Sigma^-, \Sigma^+$	s/–