

Erratum: Predicting Néel temperatures in helimagnetic materials [Phys. Rev. B **111, 184403 (2025)]**

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In the published version of this work, Eqs. (B6) and (B13) (in the Appendix B) contain minor errors. The order of the bosonic operators in line 3 of Eq. (B6) is incorrect, which results in a change of the prefactor for the δ function in the last line of Eq. (B13).

The corrected equations are given below:

$$\begin{aligned} \mathcal{H}^4 = \frac{1}{2} \sum_{abij} & \left[-\mathbf{v}_a^T \mathbf{J}'_{abij} \mathbf{v}_b a_{ai}^\dagger a_{ai} a_{bj}^\dagger a_{bj} + \frac{\sqrt{S_a S_b}}{8} \left(\mathbf{u}_a^{*T} \mathbf{J}'_{abij} \mathbf{u}_b^* \left(\frac{a_{ai} a_{bj}^\dagger a_{bj} a_{bj}}{S_b} + \frac{a_{ai}^\dagger a_{ai} a_{ai} a_{bj}}{S_a} \right) \right. \right. \\ & + \mathbf{u}_a^{*T} \mathbf{J}'_{abij} \mathbf{u}_b \left(\frac{a_{ai} a_{bj}^\dagger a_{bj}^\dagger a_{bj}}{S_b} + \frac{a_{ai}^\dagger a_{ai} a_{ai} a_{bj}^\dagger}{S_a} \right) + \mathbf{u}_a^T \mathbf{J}'_{abij} \mathbf{u}_b^* \left(\frac{a_{ai}^\dagger a_{bj}^\dagger a_{bj} a_{bj}}{S_b} + \frac{a_{ai}^\dagger a_{ai}^\dagger a_{ai} a_{bj}}{S_a} \right) \\ & \left. \left. + \mathbf{u}_a^T \mathbf{J}'_{abij} \mathbf{u}_b \left(\frac{a_{ai}^\dagger a_{bj}^\dagger a_{bj}^\dagger a_{bj}}{S_b} + \frac{a_{ai}^\dagger a_{ai}^\dagger a_{ai} a_{bj}^\dagger}{S_a} \right) \right) \right], \end{aligned} \quad (\text{B6})$$

$$A_{ab\mathbf{q}}^1 = \frac{1}{N} \sum_{\mathbf{q}'} \left(\mathbf{u}_a^T \mathbf{J}'_{ab\mathbf{q}} \mathbf{u}_b^* \frac{n_{aa\mathbf{q}'} + n_{bb\mathbf{q}'}}{4} + \delta_{ab} \sum_c \frac{\mathbf{u}_c^T \mathbf{J}'_{ca\mathbf{q}'} \mathbf{u}_a^* n_{ca\mathbf{q}'} + \mathbf{u}_a^T \mathbf{J}'_{ac\mathbf{q}'} \mathbf{u}_c^* (n_{ac\mathbf{q}'} + \delta_{ac})}{4} \right). \quad (\text{B13})$$

This change only affects systems with in-plane single-ion anisotropy components. None of the materials considered in our benchmarking have in-plane single-ion anisotropy in their INS reference data, and thus none of the reported results or conclusions are affected by this correction.