Erratum: Magnetic ground state and magnon-phonon interaction in multiferroic h -YMnO₃
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Our recent article has a inadvertent error that we hereby aim to correct. The material that we studied was in not, as claimed, the pure manganite h -YMnO₃ but rather its lightly doped variant h -Y_{1-x}Eu_xMnO₃ with $x = 0.02$.

The incident happened by inadvertently mistaking an Eu-doped crystal for a pure crystal. The mistake was made possible by the very similar properties of the two samples, including lattice parameters and magnetic phase-transition temperature T_N . Only γ spectroscopy was able to resolve the sample confusion.

Despite this unfortunate mistake, we believe that our published study about the magnon-phonon interaction is still relevant. It describes well the properties of the lightly Dy-doped system. In addition, we believe our measured data to be close to the properties also of the pure manganite h -YMnO₃. First, the phonon's properties should be almost unaffected by the small change in average mass on the A sites. Second, small amounts of Eu doping (x below ~ 0.10) has in a systematic study shown to have very little effect on the magnetic properties of the material [1]. This was independently confirmed by us in a study that compared the magnetic phase-transition temperature and critical exponents of the same h -Y_{1-x}Eu_xMnO₃ sample and a pure h -YMnO₃ crystal [2].

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[1] S. Namdeo, Synthesis and characterization of novel perovskite multiferroics, Ph.D. thesis, Devi Ahilya University, 2014.

[2] S. Holm-Dahlin, S. Janas, A. Kreisel, E. Pomjakushina, J. S. White, A. L. Fennell, and K. Lefmann, The magnetic phase transition and universality class of h -YMnO₃ and h -(Y_{0.98}Eu_{0.02})MnO₃ in zero and applied pressure, [Quantum Beam Sci.](#) **2**, 16 (2018).