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Lance Cooper



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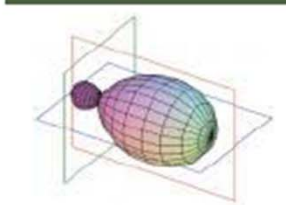
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Unusual Evolution of the Magnetic Interactions versus Structural Distortions in RMnO_3 Perovskites

[J.-S. Zhou](#) and [J. B. Goodenough](#)

Texas Materials Institute, 1 University Station, ETC 9.104, University of Texas at Austin, Austin, Texas 78712, USA

(Received 13 April 2006; published 19 June 2006)

We report the refinement of x-ray powder diffraction together with magnetic and thermal conductivity measurements made on the entire family of RMnO_3 perovskites prepared by melt growth or under high pressure. Analysis of the data has identified the origin of the transition from type-A to type-E magnetic order as a competition between t -orbital and e -orbital spin-spin interactions within each Mn-O-Mn bond in the (001) planes, the e -orbital interactions decreasing with decreasing R^{3+} -ion size.

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URL: <http://link.aps.org/abstract/PRL/v96/e247202>

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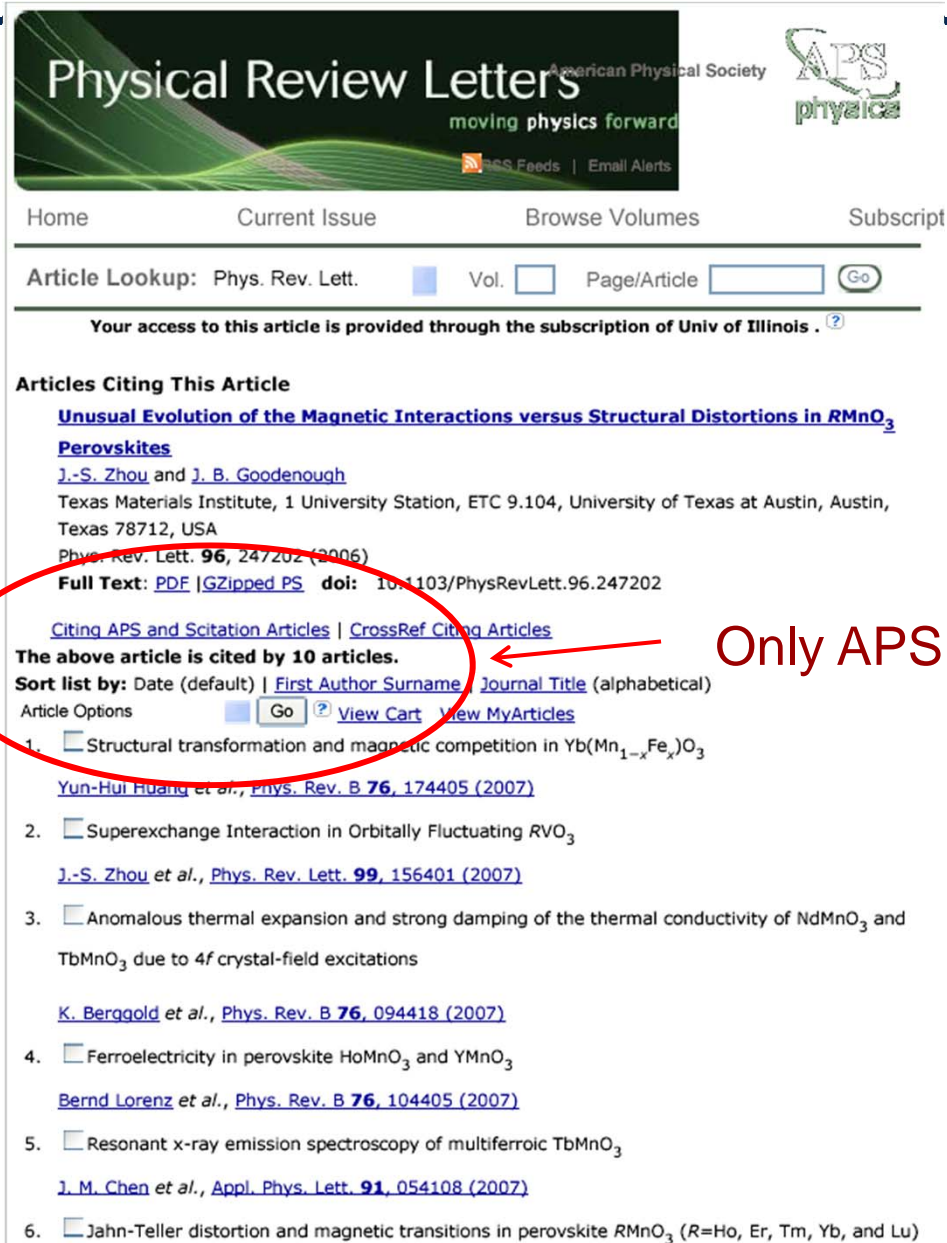
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1. J. B. Goodenough, [Phys. Rev.](#) **100**, 564 (1955).
2. Y. Murakami et al., [Phys. Rev. Lett.](#) **81**, 582 (1998).
3. F. Moussa et al., [Phys. Rev. B](#) **54**, 15 149 (1996).

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Title: Harmonic measure and winding of random conformal paths: A Coulomb gas perspective

Authors: [Bertrand Duplantier](#), [Ilia Binder](#)

Comments: 29 pages, 4 figures

Subjects: Statistical Mechanics (cond-mat.stat-mech)

We consider random conformally invariant paths in the complex plane (SLEs). Using the Coulomb gas method in conformal field theory, we rederive the mixed multifractal exponents associated with both the harmonic measure and winding (rotation or monodromy) near such critical curves, previously obtained by quantum gravity methods. The results also extend to the general cases of harmonic measure moments and winding of multiple paths in a star configuration.

[2] [arXiv:0802.2291](#) [[ps](#), [pdf](#), [other](#)]

Title: Competition between charge and spin order in the St-U-VS extended Hubbard model on the triangular lattice

Authors: [B. Davoudi](#), [S. R. Hassan](#), [A.-M. S. Tremblay](#)

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Subjects: Strongly Correlated Electrons (cond-mat.str-el)

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Abstract: The crystal structures of the perovskites $R_{1-x}Sr_xCoO_3$ (R=La, Pr, and Nd) with $0 \leq x \leq 0.3$ were refined from x-ray powder diffraction spectra with the Rietveld method. The result of the Rietveld analyses indicates the presence of three unequal Co-O bonds with different lengths for all samples, and we found that the difference between the two Co-O(2) bond lengths increases with temperature and Sr content. The intermediate-spin (IS) state of the Co^{3+} ion is Jahn-Teller (JT) active, and the structural data show that the concentration of Co^{3+} ions increases with temperature and Sr content. For the non-Sr-doped R=La sample, we observed only a small distortion at 90 K while the JT distortion was large at 300 K. With substitution of Sr for La, the distortion at 90 K was found to increase. This observation can be accounted for by the increased stability of the IS state with Sr doping. On the other hand, the distortion was small even at 300 K for nondoped $PrCoO_3$ and $NdCoO_3$, indicating that the low-spin state is stable up to higher temperatures than in $LaCoO_3$. The distortion at 90 K was larger for the Sr-doped samples as in the R=La system, but the Sr content at which the JT distortion started to increase significantly was larger than that in the R=La system.

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Language: English

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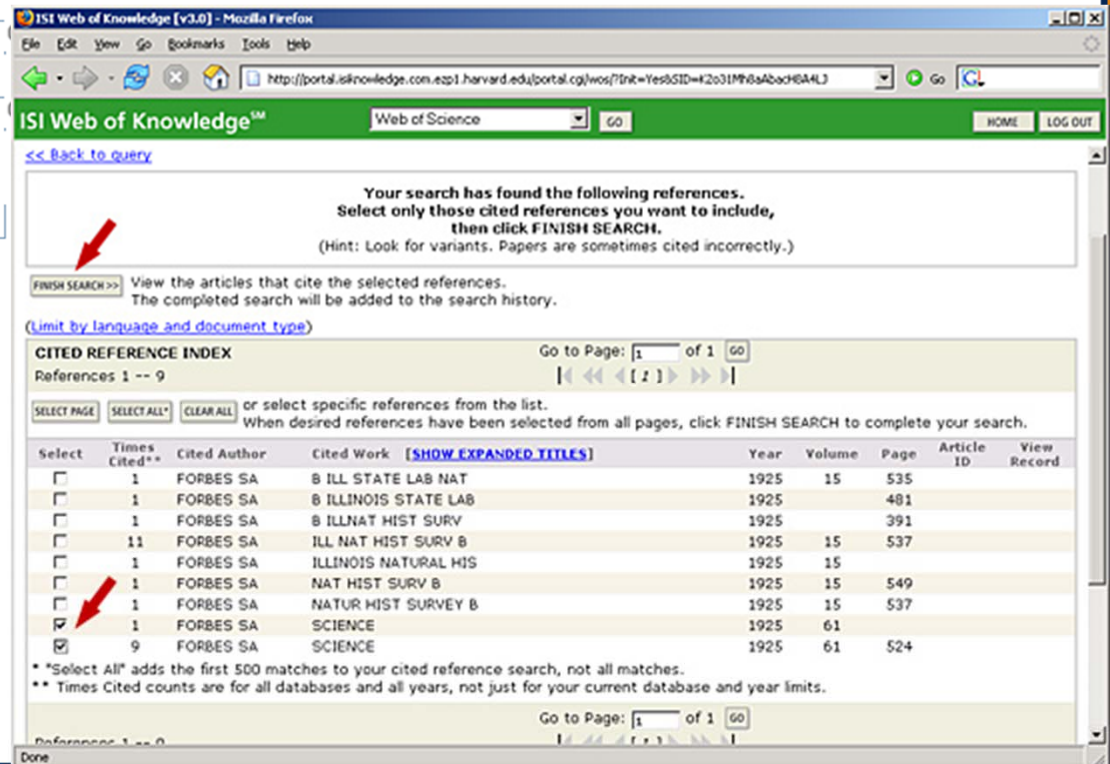
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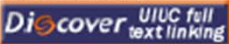



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