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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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1. J. B. Goodenough, [Phys. Rev.](#) **100**, 564 (1955).
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3. F. Moussa et al., [Phys. Rev. B](#) **54**, 15 149 (1996).

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- Ferroelectricity in perovskite HoMnO_3 and YMnO_3
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February 15, 2008

Calculation of angular distribution of ejected electrons for direct ionization of He from electron bombardment. The larger lobe is due to binary collisions.

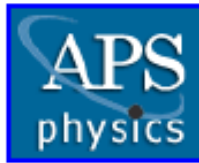
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Authors: [Bertrand Duplantier](#), [Ilia Binder](#)

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.

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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)

Several new classes of compounds can be modeled in first approximation by electrons on the triangular lattice that interact through on-site repulsion U as well as nearest-neighbor repulsion V . This extended Hubbard model on a triangular lattice has been studied mostly in the strong coupling limit for only a few types of instabilities. Using the extended two-particle self consistent approach (ETPSC), that is valid at weak to intermediate coupling, we present an unbiased study of the density and interaction dependent crossover diagram for spin and charge density wave instabilities of the normal state at arbitrary wave vector. When U dominates over V and electron filling is large, instabilities are chiefly in the spin sector and are controlled mostly by

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Author(s): [Takami T](#) (Takami, T.), [Zhou JS](#) (Zhou, J. -S.), [Goodenough JB](#) (Goodenough, J. B.), [Ikuta H](#) (Ikuta, H.)

Source: PHYSICAL REVIEW B **Volume:** 76 **Issue:** 14 **Article Number:** 144116 **Published:** 2007

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Abstract: The crystal structures of the perovskites $R_{1-x}Sr_xCoO_3$ ($R=La, Pr, \text{ and } Nd$) 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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Addresses: Takami, T (reprint author), Univ Texas Austin, 1 Univ Stn, C2201, Austin, TX 78712 USA
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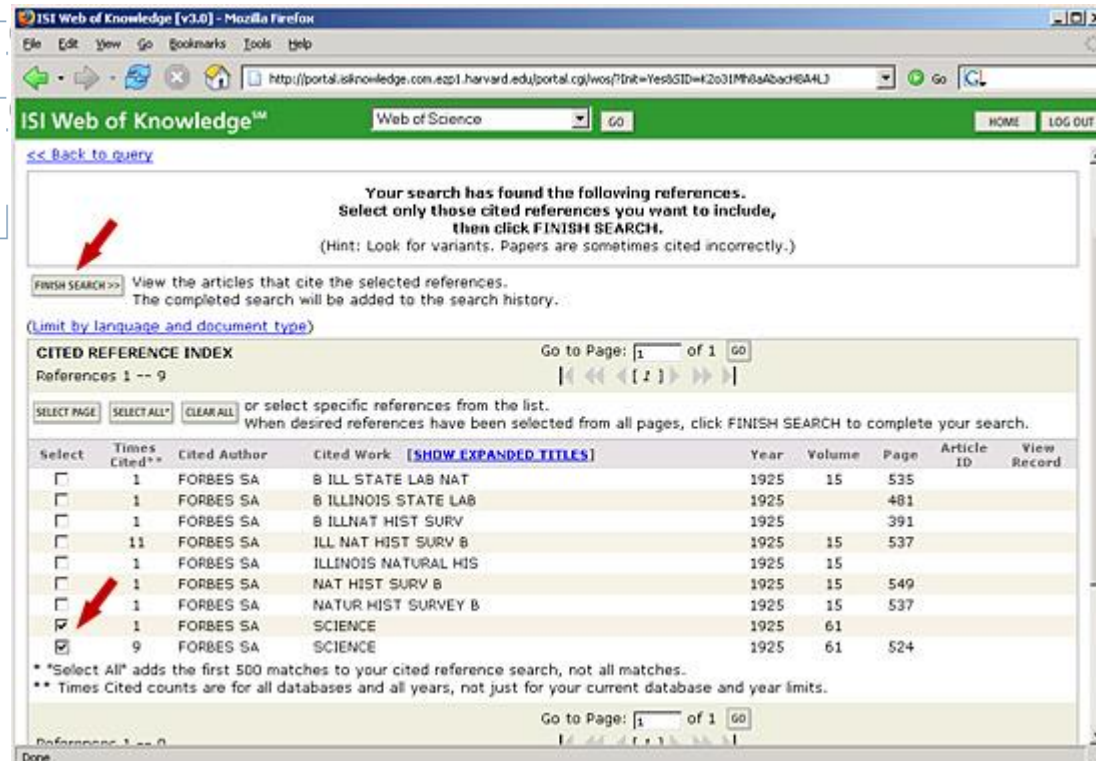
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Author(s): Muller-Buschbaum H
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4. Title: [Synthesis and crystal structure of the novel Pb₅Sb₂Mn](#)
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