# PHYSICAL REVIEW B

**For editorial and subscription correspondence, please see inside front cover**
**(ISSN: 1098-0121)**

**PERIODICALS**
**Postmaster send address changes to:**
**APS Subscription Services**
**Suite 1NO1**
**2 Huntington Quadrangle**
**Melville, NY 11747-4502**

**THIRD SERIES, VOLUME 79, NUMBER 22** *CONTENTS* **JUNE 2009-1(II)**

## RAPID COMMUNICATIONS

### Structure, structural phase transitions, mechanical properties, defects

Strain-induced ferroelectricity in orthorhombic $CaTiO_3$ from first principles *(4 pages)* . . . . . 220101(R)
C.-J. Eklund, C. J. Fennie, and K. M. Rabe

Melting of Fe and $Fe_{0.9375}Si_{0.0625}$ at Earth's core pressures studied using *ab initio* molecular dynamics *(4 pages)* . . . . . 220102(R)
Anatoly B. Belonoshko, Anders Rosengren, Leonid Burakovsky, Dean L. Preston, and Börje Johansson

### Magnetism

Unusual magnetic, thermal, and transport behavior of single-crystalline $EuRh_2As_2$ *(4 pages)* . . . . . 220401(R)
Yogesh Singh, Y. Lee, B. N. Harmon, and D. C. Johnston

Field-induced magnetostructural phase transition in double perovskite $Ca_2FeReO_6$ studied via x-ray magnetic circular dichroism *(4 pages)* . . . . . 220402(R)
M. Sikora, O. Mathon, P. van der Linden, J. M. Michalik, J. M. de Teresa, Cz. Kapusta, and S. Pascarelli

Size of orbital-ordering domain controlled by the itinerancy of the 3*d* electrons in a manganite thin film *(4 pages)* . . . . . 220403(R)
Y. Wakabayashi, H. Sagayama, T. Arima, M. Nakamura, Y. Ogimoto, Y. Kubo, K. Miyano, and H. Sawa

Spin dynamics in the neutral rare-earth single-molecule magnets $[TbPc_2]^0$ and $[DyPc_2]^0$ from $\mu$SR and NMR spectroscopies *(4 pages)* . . . . . 220404(R)
F. Branzoli, M. Filibian, P. Carretta, S. Klyatskaya, and M. Ruben

Theory of spin resonance in a chiral helimagnet *(4 pages)* . . . . . 220405(R)
Jun-ichiro Kishine and A. S. Ovchinnikov

Electron localization into a bound spin polaron in the quasi-one-dimensional $S=\frac{1}{2}$ antiferromagnet $LiCu_2O_2$ *(4 pages)* . . . . . 220406(R)
Vyacheslav G. Storchak, Jess H. Brewer, Donald J. Arseneau, Scott L. Stubbs, Oleg E. Parfenov, Dmitry G. Eshchenko, and Alexander A. Bush

### Superfluidity and superconductivity

Theory of Raman response of a superconductor with extended *s*-wave symmetry: Application to the iron pnictides *(4 pages)* . . . . . 220501(R)
Andrey V. Chubukov, Ilya Eremin, and Maxim M. Korshunov

**Copyright 2009 by The American Physical Society**

*(Continued)*

1098-0121(20090601)79:22;1-E

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).