

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 1N01
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 78, NUMBER 10

CONTENTS

SEPTEMBER 2008-1(II)

RAPID COMMUNICATIONS

Structure, structural phase transitions, mechanical properties, defects

Single ferroelectric and chiral magnetic domain of single-crystalline BiFeO₃ in an electric field (*4 pages*) 100101(R)
Seongsu Lee, Taekjib Choi, W. Ratcliff, II, R. Erwin, S-W. Cheong, and V. Kiryukhin

Dynamical stability of the cubic metallic phase of AlH₃ at ambient pressure: Density functional calculations
(*4 pages*) 100102(R)
D. Y. Kim, R. H. Scheicher, and R. Ahuja

Inhomogeneous, disordered, and partially ordered systems

Differential mobility and spatially heterogeneous dynamics of oxygen atoms in a supercooled glass-forming
network liquid (*4 pages*) 100201(R)
Sabyasachi Sen

Ab initio simulations of the liquid alloy Au-Cs (*4 pages*) 100202(R)
Nicolas Charpentier and Jean Cl  rouin

Magnetism

Verwey transition in Fe₃O₄ at high pressure: Quantum critical point at the onset of metallization
(*4 pages*) 100401(R)
J. Spa  lek, A. Koz  owski, Z. Tarnawski, Z. Ka  kol, Y. Fukami, F. Ono, R. Zach, L. J. Spa  lek, and
J. M. Honig

Correlations and order parameter at a Coulomb-crystal phase transition in a three-dimensional dimer model
(*4 pages*) 100402(R)
Gr  goire Misguich, Vincent Pasquier, and Fabien Alet

Finite-temperature lineshapes in gapped quantum spin chains (*4 pages*) 100403(R)
Fabian H. L. Essler and Robert M. Konik

Exchange energy dominated by large orbital spin-currents in δ -Pu (*4 pages*) 100404(R)
Francesco Cricchio, Fredrik Bultmark, and Lars Nordstr  m

Short-range magnetic collapse of Fe under high pressure at high temperatures observed using x-ray emission
spectroscopy (*4 pages*) 100405(R)
J.-P. Rueff, M. Mezouar, and M. Acet



Copyright 2008 by The American Physical Society



1098-0121(20080901)78:10;1-K

(Continued)

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).