

PHYSICAL REVIEW B

For editorial and subscription correspondence,
please see inside front cover
(ISSN: 0163-1829)

PERIODICALS

Postmaster send address changes to:
American Institute of Physics
500 Sunnyside Boulevard
Woodbury, NY 11797-2999

THIRD SERIES, VOLUME 59, NUMBER 10

CONTENTS

1 MARCH 1999-II

RAPID COMMUNICATIONS

Structure, structural phase transitions, mechanical properties, defects, etc.

- X-ray-induced structural transition in $\text{La}_{0.875}\text{Sr}_{0.125}\text{MnO}_3$ R6581
V. Kiryukhin, Y. J. Wang, F. C. Chou, M. A. Kastner, and R. J. Birgeneau

Inhomogeneous, disordered, and partially ordered systems

- Origin of dispersive effects of the Raman D band in carbon materials R6585
M. J. Matthews, M. A. Pimenta, G. Dresselhaus, M. S. Dresselhaus, and M. Endo

Magnetism

- Localization length of a soliton from a nonmagnetic impurity in a general double-spin-chain model R6589
Tota Nakamura
- Local character of magnetic coupling in ionic solids R6593
Ibério de P. R. Moreira, Francesc Illas, Carmen J. Calzado, Javier F. Sanz, Jean-Paul Malrieu,
Nadia Ben Amor, and Daniel Maynau
- Origin of room-temperature perpendicular magnetic anisotropy in Ni/Pt multilayers R6597
Young-Seok Kim and Sung-Chul Shin
- Magnetic-field dependence of the low-temperature specific heat in PrInAg_2 : Support for a nonmagnetic
heavy-fermion ground state R6601
R. Movshovich, A. Yatskar, M. F. Hundley, P. C. Canfield, and W. P. Beyermann
- Spin-glass behavior in PrAu_2Si_2 R6604
A. Krimmel, J. Hemberger, M. Nicklas, G. Knebel, W. Trinkl, M. Brando, V. Fritsch, A. Loidl, and
E. Ressouche
- Magnetization dynamics of Ni and Co films on Cu(001) and of bulk nickel surfaces R6608
J. Güdde, U. Conrad, V. Jähnke, J. Hohlfeld, and E. Matthias
- Spin-density wave in Fe/Cr superlattices: A first-principles study R6612
Kunitomo Hirai

Superfluidity and superconductivity

- Supersymmetry in models with strong on-site Coulomb repulsion: Application to the Heisenberg model R6616
T. K. Ng and C. H. Cheng
- Nonlocal current-field relation and the vortex-state magnetic properties of $\text{YNi}_2\text{B}_2\text{C}$ R6620
K. J. Song, J. R. Thompson, M. Yethiraj, D. K. Christen, C. V. Tomy, and D. McK. Paul
- Direct evidence for filamentary and channel vortex flow in Pb/In superconducting films R6624
M. Danckwerts, A. R. Goñi, and C. Thomsen

