

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 58, NUMBER 18

CONTENTS

1 NOVEMBER 1998-II

RAPID COMMUNICATIONS

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

- Thermal and nonthermal melting of gallium arsenide after femtosecond laser excitation R11 805
K. Sokolowski-Tinten, J. Bialkowski, M. Boing, A. Cavalleri, and D. von der Linde
- Structure of crystalline methanol at high pressure R11 809
David R. Allan, Stewart J. Clark, Marco J. P. Brugmans, Graeme J. Ackland, and Willem L. Vos

Inhomogeneous, disordered, and partially ordered systems

- Ab initio* molecular dynamics of expanded liquid sodium R11 813
S. R. Bickham, O. Pfaffenzeller, L. A. Collins, J. D. Kress, and D. Hohl
- Kinetic process of mechanical alloying in $\text{Fe}_{50}\text{Cu}_{50}$ R11 817
J. Y. Huang, J. Z. Jiang, H. Yasuda, and H. Mori

Dynamics, dynamical systems, lattice effects, quantum solids, etc.

- Defect energy with conjugate boundary conditions in spin-glass models in two dimensions R11 821
F. Matsubara, T. Shirakura, and M. Shiomi
- Spin coherence excitation and rephasing with optically shelved atoms R11 825
B. S. Ham, M. S. Shahriar, M. K. Kim, and P. R. Hemmer
- Electric-field distribution in composite media R11 829
D. Cule and S. Torquato

Magnetism

- Spectral function of the spiral spin state in the trestle and ladder Hubbard model R11 833
Ryotaro Arita, Koichi Kusakabe, Kazuhiko Kuroki, and Hideo Aoki
- Anomalous ferromagnetic spin fluctuations in an antiferromagnetic insulator $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ R11 837
R. Kajimoto, T. Kakeshita, Y. Oohara, H. Yoshizawa, Y. Tomioka, and Y. Tokura
- Orbital dynamics: The origin of the anomalous optical spectra in ferromagnetic manganites R11 841
R. Kilian and G. Khaliullin
- Exactly solvable models of unconventional magnetic alloys: Bethe ansatz versus renormalization-group method ... R11 845
Valery I. Rupasov
- Susceptibility inhomogeneity and non-Fermi-liquid behavior in nominally ordered UCu_4Pd R11 849
D. E. MacLaughlin, R. H. Heffner, G. J. Nieuwenhuys, G. M. Luke, Y. Fudamoto, Y. J. Uemura, R. Chau,
M. B. Maple, and B. Andraka
- Enhanced orbital magnetism at the nanostructured $\text{Co/Cu}(1\ 1\ 13)$ surface R11 853
H. A. Dürr, G. van der Laan, J. Vogel, G. Panaccione, N. B. Brookes, E. Dudzik, and R. McGrath

