

PHYSICAL REVIEW B

RAPID COMMUNICATIONS

For editorial and subscription correspondence,
please see inside front cover
(ISSN: 1082-586X)

BRC 55 09

CONTENTS

1 MAY 1997

Reprinted from Physical Review B Condensed Matter, Volume 55, Third Series, Number 18

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

- Molecular-dynamics modeling of shock-compressed liquid hydrogen R11 907
Thomas J. Lenosky, Joel D. Kress, Lee A. Collins, and Inhee Kwon

Inhomogeneous, disordered, and partially ordered systems

- Backscattering from perfectly reflective random media R11 911
E. Bascones, M. J. Calderón, D. Castelo, T. López, and J. J. Sáenz
- Evidence for finite conductivity of icosahedral AlPdRe at $T=0$ K R11 915
M. Ahlgren, C. Gignoux, M. Rodmar, C. Berger, and Ö. Rapp
- Noise probe for bias-dependent current-path rearrangements in disordered solids R11 919
I. Bloom, S. Reznik, and I. Balberg

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

- Photoelectron spectroscopy as a probe for studying phase-transition kinetics R11 923
M. Fanfoni and M. Tomellini
- Localized electron-phonon states originated by a three-wave interaction R11 926
V. V. Konotop
- Spatially inhomogeneous time-periodic propagating waves in anharmonic systems R11 929
Thierry Cretegny and Serge Aubry
- Scaling behavior of an antiferroelectric hysteresis loop R11 933
Yong-Hae Kim and Jong-Jean Kim

Magnetism

- Identification of an intrinsic localized spin-wave resonance in antiferromagnetic chains with single-ion easy-plane anisotropy R11 937
R. Lai and A. J. Sievers
- Spin dynamics of the spin-Peierls compound CuGeO_3 under a magnetic field R11 941
D. Poilblanc, J. Riera, C. A. Hayward, C. Berthier, and M. Horvatić
- Spin fluctuations in $S=\frac{1}{2}$ double-linear-chain $\gamma\text{-LiV}_2\text{O}_5$ studied by ^7Li NMR R11 945
N. Fujiwara, H. Yasuoka, M. Isobe, Y. Ueda, and S. Maegawa
- Universal jump in the helicity modulus of the two-dimensional quantum XY model R11 949
Kenji Harada and Naoki Kawashima
- Magnetic phase transition in the $S=\frac{1}{2}$ zigzag-chain compound SrCuO_2 R11 953
M. Matsuda, K. Katsumata, K. M. Kojima, M. Larkin, G. M. Luke, J. Merrin, B. Nachumi, Y. J. Uemura, H. Eisaki, N. Motoyama, S. Uchida, and G. Shirane
- Incommensurate nodes in the energy spectrum of coupled antiferromagnetic Heisenberg ladders R11 957
M. Azzouz, B. Dumoulin, and A. Benyoussef
- Evidence for domain formation near the Curie temperature in ultrathin Ni/Cu (001) films with perpendicular anisotropy R11 961
P. Pouloupoulos, M. Farle, U. Bovensiepen, and K. Baberschke

(Continued)

CONTENTS - *Continued*

Unconventional magnetostriction in layered $\text{La}_{1.2}\text{Sr}_{1.8}\text{Mn}_2\text{O}_7$: Evidence for spin-lattice coupling above T_C	R11 965
D. N. Argyriou, J. F. Mitchell, C. D. Potter, S. D. Bader, R. Kleb, and J. D. Jorgensen	
Superfluidity and superconductivity	
Nonlinear ultrasonic excitations and Landau damping in the Fermi liquid ^3He	R11 969
S. Götz and G. Eska	
Correlation effects in carbon nanotubes	R11 973
Leon Balents and Matthew P. A. Fisher	
Josephson plasma resonance in the mixed state of the organic superconductor $\kappa\text{-(BEDT-TTF)}_2\text{Cu(NCS)}_2$	R11 977
T. Shibauchi, M. Sato, A. Mashio, T. Tamegai, H. Mori, S. Tajima, and S. Tanaka	
Bose-glass and Mott-insulator phase in the disordered boson Hubbard model	R11 981
Jens Kisker and Heiko Rieger	
Determining the structure of the superconducting gap in Cu_2O_3 two-leg ladder materials	R11 985
N. Bulut and D. J. Scalapino	
Resonances of dynamical checkerboard states in Josephson arrays with self-inductance	R11 989
M. Barahona, E. Trías, T. P. Orlando, A. E. Duwel, H. S. J. van der Zant, Shinya Watanabe, and S. H. Strogatz	
Current-voltage relation for superconducting d -wave junctions	R11 993
Magnus Hurd	
Superconducting pairing of spin polarons in the t - J model	R11 997
N. M. Plakida, V. S. Oudovenko, P. Horsch, and A. I. Liechtenstein	
Current-voltage characteristics of intrinsic $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Josephson-junction stacks and an unconventional temperature dependence of the magnitude of the order parameter	R12 001
Mikitaka Itoh, Shin-ichi Karimoto, Kazuichi Namekawa, and Minoru Suzuki	
Long-range magnetic order of the Er ions in $\text{Er}_2\text{Ba}_4\text{Cu}_7\text{O}_{14.92}$	R12 005
G. Böttger, P. Fischer, A. Dönni, P. Berastegui, Y. Aoki, H. Sato, and F. Fauth	