PHYSICAL REVIEW B **THIRD SERIES, VOLUME 63, NUMBER 6** **1 FEBRUARY 2001-II**

Spin-density enhancement in a ^{119}Sn implanted (110)Cr single crystal as evidenced by Mössbauer spectroscopy *(4 pages)* ..... 060406(R)
S. M. Dubiel, J. Cieślak, J. Żukrowski, and H. Reuther
Nanometer-sized regions of charge ordering and charge melting in $La_{2/3}Ca_{1/3}MnO_3$ revealed by electron microdiffraction *(4 pages)* ..... 060407(R)
J. M. Zuo and J. Tao
Ab initio calculation of resonant x-ray scattering in manganites *(4 pages)* ..... 060408(R)
Patrizia Benedetti, Jeroen van den Brink, Eva Pavarini, Assunta Vigliante, and Peter Wochner
Local manipulation and reversal of the exchange bias field by ion irradiation in FeNi/FeMn double layers *(4 pages)* ..... 060409(R)
A. Mougin, T. Mewes, M. Jung, D. Engel, A. Ehresmann, H. Schmoranzer, J. Fassbender, and B. Hillebrands
Picosecond dynamics of the spin-lattice relaxation in $La_{0.7}Ca_{0.2}MnO_3$: Magnetic-field dependence *(4 pages)* .. 060410(R)
Ahmed I. Lobad, Richard D. Averitt, and Antoinette J. Taylor

Superfluidity and superconductivity

Vortex pinning by magnetic order in $ErNi_2B_2C$ *(4 pages)* ..... 060501(R)
C. D. Dewhurst, S. S. James, R. A. Doyle, Y. Paltiel, H. Shtrikman, E. Zeldov, and D. McK. Paul
Anomalies in the infrared spectra of underdoped $Bi_2Sr_2CaCu_2O_z$ as evidence for the intrabilayer Josephson effect *(4 pages)* ..... 060502(R)
V. Železný, S. Tajima, D. Munzar, T. Motohashi, J. Shimoyama, and K. Kishio
Quasi-two-dimensional Fermi surfaces of the heavy fermion superconductor $CeIrIn_5$ *(4 pages)* ..... 060503(R)
Yoshinori Haga, Yoshihiko Inada, Hisatomo Harima, Kenichi Oikawa, Masao Murakawa, Hirokazu Nakawaki, Yoshihumi Tokiwa, Dai Aoki, Hiroaki Shishido, Shuugo Ikeda, Narumi Watanabe, and Yoshichika Onuki
Quasiparticles and *c*-axis coherent hopping in high-T_c superconductors *(4 pages)* ..... 060504(R)
P. S. Cornaglia, K. Hallberg, and C. A. Balseiro
Ultrasonic studies of the spin-triplet order parameter and the collective mode in Sr_2RuO_4 *(4 pages)* ..... 060505(R)
H. Matsui, Y. Yoshida, A. Mukai, R. Settai, Y. Onuki, H. Takei, N. Kimura, H. Aoki, and N. Toyota
Crib-shaped triplet-pairing gap function for an orthogonal pair of quasi-one-dimensional Fermi surfaces in Sr_2RuO_4 *(4 pages)* ..... 060506(R)
Kazuhiko Kuroki, Masao Ogata, Ryotaro Arita, and Hideo Aoki
Ru NMR probe of spin susceptibility in the superconducting state of Sr_2RuO_4 *(4 pages)* ..... 060507(R)
K. Ishida, H. Mukuda, Y. Kitaoka, Z. Q. Mao, H. Fukazawa, and Y. Maeno

ARTICLES

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

Range study of Eu implanted into Si channeling directions: Evidence for the Z_1 effect *(8 pages)* 064101
G. de M. Azevedo, M. Behar, P. L. Grande, and I. Borges, Jr.
Prediction of spinel structure and properties of single and double nitrides *(4 pages)* 064102
W. Y. Ching, Shang-Di Mo, Isao Tanaka, and Masato Yoshiya
Instability of plastic deformation as a self-organizing fractal *(6 pages)* 064103
A. M. Avdeenko and E. I. Kuzko
Thermally activated ferroelectric domain growth due to random defects *(4 pages)* 064104
V. Likodimos, M. Labardi, X. K. Orlik, L. Pardi, M. Allegrini, S. Emonin, and O. Marti
Coherent quasielastic neutron scattering: A theorem about total neutron scattering functions for rotational jump diffusion of molecules on a lattice *(7 pages)* 064105
Gerrit Coddens

(Continued)