PHYSICAL REVIEW B **THIRD SERIES, VOLUME 59, NUMBER 13** **1 APRIL 1999-I**

Indirect evidence for spin-diffusion modes in $La_{0.67}Ca_{0.33}MnO_3$ from field-dependent ac susceptibility measurements 8391
J. H. Zhao, X. Z. Zhou, A. Peles, S. H. Ge, H. P. Kunkel, and Gwyn Williams
Nonclassical effects and off-diagonal couplings in a model for $FeBr_2$ 8395
M. Pleimling and W. Selke
Prediction of a ferromagnetic ground state for NaCl-type FeN 8397
A. Filippetti and W. E. Pickett
Glassy Potts model: A disordered Potts model without a ferromagnetic phase 8401
Enzo Marinari, Stefano Mossa, and Giorgio Parisi
Cobalt impurities on noble-metal surfaces 8405
Mariana Weissmann, Andrés Saúl, Ana Maria Llois, and Javier Guevara
Canted spin structures in Ni films on stepped Cu(001) 8408
S. S. Dhesi, H. A. Dürr, and G. van der Laan
Theory of giant magnetoresistance in granular alloys 8412
E. F. Ferrari, F. C. S. da Silva, and M. Knobel

Superfluidity and superconductivity

Effects of the presence of Cs impurities on the two-dimensional ^{4}He phase diagram 8416
M. C. Gordillo and D. M. Ceperley
Possibility of direct Mott insulator-to-superfluid transitions in weakly disordered boson systems 8420
Sung Yong Park, Ji-Woo Lee, Min-Chul Cha, M. Y. Choi, B. J. Kim, and Doochul Kim
Superconductor-insulator phase transformation of partially deuterated κ-$(BEDT\text{-}TTF)_2Cu[N(CN)_2]Br$ by control of the cooling rate 8424
H. Taniguchi, A. Kawamoto, and K. Kanoda
U(1) gauge symmetry breaking by a Berry phase in a crystal with a doubly degenerate electronic band 8428
Hiroyasu Koizumi
Disorder-induced Andreev reflections in granular metals 8432
A. Frydman and R. C. Dynes
Quasiparticle spectrum of a type-II superconductor in a high magnetic field with randomly pinned vortices 8436
P. D. Sacramento
Inferring equilibrium magnetization from hysteretic *M-H* curves of type-II superconductors 8440
P. Chaddah, S. B. Roy, and M. Chandran
Two-level Hamiltonian of a superconducting quantum point contact 8444
D. A. Ivanov and M. V. Feigel'man
Phonon Raman scattering of $Bi_2Sr_2CaCu_2O_{8+d}$ under hydrostatic pressure 8447
Minoru Osada, Masato Kakihana, Haruo Arashi, Mikael Käll, and Lars Börjesson
Superconducting coherence and the helicity modulus in vortex line models 8451
Jack Lidmar and Mats Wallin
Vortex pinning by splayed columnar defects in $YBa_2Cu_3O_7$: Influence of large crossing angles 8455
V. Hardy, S. Hébert, C. Goupil, Ch. Simon, J. Provost, M. Hervieu, and P. Lejay
Shift of the apical oxygen of the CuO_6 octahedron and the superconductivity in $Bi_{1.8}Pb_{0.2}Sr_{2-x}CuO_y$ systems 8459
Yan Hongjie, Mao Zhiqiang, Xu Gaojie, and Zhang Yuheng
Fiske steps in intrinsic $Bi_2Sr_2CaCu_2O_{8+x}$ stacked Josephson junctions 8463
V. M. Krasnov, N. Mros, A. Yurgens, and D. Winkler

(Continued)