

CONTENTS - *Continued*

PHYSICAL REVIEW B

THIRD SERIES, VOLUME 58, NUMBER 22

1 DECEMBER 1998-II

Exchange coupling and macroscopic domain structure in a wedged permalloy/FeMn bilayer	R14 717
S. M. Zhou, Kai Liu, and C. L. Chien	
Magnetic-field-induced structural phase transition in $\text{Gd}_5(\text{Si}_{1.8}\text{Ge}_{2.2})$	R14 721
L. Morellon, P. A. Algarabel, M. R. Ibarra, J. Blasco, B. García-Landa, Z. Arnold, and F. Albertini	
Anomalous low-temperature specific heat of charge-ordered $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$	R14 725
V. N. Smolyaninova, K. Ghosh, and R. L. Greene	
Resonant magnetization tunneling in Mn_{12} acetate: The absence of inhomogeneous hyperfine broadening	R14 729
Jonathan R. Friedman, M. P. Sarachik, and R. Ziolo	
Quantum fluctuations in many-spin magnetic molecules	R14 733
A. K. Zvezdin, V. V. Dobrovitski, B. N. Harmon, and M. I. Katsnelson	
Polarons in the layered perovskite manganite $\text{La}_{1.2}\text{Sr}_{1.8}\text{Mn}_2\text{O}_7$	R14 737
D. B. Romero, V. B. Podobedov, A. Weber, J. P. Rice, J. F. Mitchell, R. P. Sharma, and H. D. Drew	

Superfluidity and superconductivity

Phases of the one-dimensional Bose-Hubbard model	R14 741
T. D. Kühner and H. Monien	
Vortex-lattice melting, phase slips, and decoupling studied by microwave dissipation in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$	R14 745
H. Enriquez, Y. De Wilde, N. Bontemps, and T. Tamegai	
Electromagnetic response and approximate $\text{SO}(5)$ symmetry in high- T_c superconductors	R14 749
C. P. Burgess, J. M. Cline, and C. A. Lütken	
Magnetic-field dependence of the low-temperature specific heat of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$	R14 753
S. J. Chen, C. F. Chang, H. L. Tsay, H. D. Yang, and J.-Y. Lin	
Landau Ginzburg theory of the d -wave Josephson junction	R14 757
Stellan Östlund	
Critical currents of Josephson-coupled wire arrays	R14 759
J. Kent Harbaugh and D. Stroud	
Surface barrier dominated transport in NbSe_2	R14 763
Y. Paltiel, D. T. Fuchs, E. Zeldov, Y. N. Myasoedov, H. Shtrikman, M. L. Rappaport, and E. Y. Andrei	
Square flux lines in $\text{YNi}_2\text{B}_2\text{C}$	R14 767
M. Yethiraj, D. McK. Paul, C. V. Tomy, and J. R. Thompson	
Effect of twin planes in the magnetization hysteresis loops of $\text{NdBa}_2\text{Cu}_3\text{O}_7$ single crystals	R14 771
M. Jirsa, M. R. Koblishka, T. Higuchi, and M. Murakami	

ARTICLES

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

<i>In situ</i> monitoring of crystallographic changes in Pd induced by diffusion of D	14 775
E. F. Skelton, P. L. Hagans, S. B. Qadri, D. D. Dominguez, A. C. Ehrlich, and J. Z. Hu	
Characterization of the intercalate $\text{C}_{60}(\text{CO}_2)_x$ by powder neutron diffraction	14 780
M. James, S. J. Kennedy, M. M. Elcombe, and G. E. Gadd	
Tetragonal polymerized phase of C_{60}	14 786
V. A. Davydov, L. S. Kashevarova, A. V. Rakhmanina, V. Agafonov, H. Allouchi, R. Ceolin, A. V. Dzyabchenko, V. M. Senyavin, and H. Szwarc	
Interatomic potential for germanium dioxide empirically fitted to an <i>ab initio</i> energy surface	14 791
R. D. Oeffner and S. R. Elliott	
Photoinduced nucleation theory in one-dimensional systems	14 804
Kazuki Koshino and Tetsuo Ogawa	
Compression mechanisms in quasimolecular XI_3 ($X = \text{As}, \text{Sb}, \text{Bi}$) solids	14 812
H. C. Hsueh, Roger K. Chen, H. Vass, S. J. Clark, G. J. Ackland, W. C-K. Poon, and J. Crain	

(Continued)