

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
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 61, NUMBER 23

CONTENTS

15 JUNE 2000-I

BRIEF REPORTS

Electronic structure: wide-band, narrow-band, and strongly correlated systems

- Charge ordering and chemical potential shift in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$ studied by photoemission spectroscopy 15 515
M. Satake, K. Kobayashi, T. Mizokawa, A. Fujimori, T. Tanabe, T. Katsufuji, and Y. Tokura
- Complete photonic band gap in a two-dimensional chessboard lattice 15 519
Mario Agio and Lucio Claudio Andreani
- Two-dimensional tunable magnetic photonic crystals 15 523
Chul-Sik Kee, Jae-Eun Kim, Hae Yong Park, Ikmo Park, and H. Lim
- Effect of the W term for a t - U - W Hubbard ladder 15 526
S. Daul, D. J. Scalapino, and Steven R. White
- Exact electronic Green functions in a Luttinger liquid with long-range interactions 15 530
Aníbal Iucci and Carlos Naón
- Breakdown of Luttinger liquid state in a one-dimensional frustrated spinless fermion model 15 534
A. K. Zhuravlev and M. I. Katsnelson
- Spectral properties of the one-dimensional two-channel Kondo lattice model 15 538
A. M. Tselik and C. I. Ventura
- Metal-insulator transition, gap opening due to the combined orbital-spin ordering, and spin-triplet
superconductivity 15 542
Andrzej Klejnberg and Jozef Spałek
- Low-energy transition in spectral statistics of two-dimensional interacting fermions 15 546
Pil Hun Song and Dima L. Shepelyansky
- Hopping conductivity and specific heat in insulating amorphous $\text{Ti}_x\text{Si}_{100-x}$ alloys 15 550
A.Yu. Rogatchev and U. Mizutani
- Photon modes in photonic crystals undergoing rigid vibrations and rotations 15 554
Maksim Skorobogatiy and J. D. Joannopoulos

Semiconductors I: bulk

- Raman spectroscopy of heavily doped polycrystalline silicon thin films 15 558
N. H. Nickel, P. Lengsfeld, and I. Sieber
- Isoelectronic impurity states in GaAs:N 15 562
Yong Zhang and A. Mascarenhas
- Dispersive transport of protons in oxides confined in Si/SiO₂/Si structures 15 565
N. F. M. Devine, J. Robertson, V. Girault, and R. A. B. Devine
- Resonant Raman scattering in crystalline GeSe₂ 15 569
T. Nakaoka, Y. Wang, K. Murase, O. Matsuda, and K. Inoue

