PHYSICAL REVIEW B

For editorial and subscription correspondence, please see inside front cover
(ISSN: 1098-0121)

PERIODICALS
Postmaster send address changes to:
APS Subscription Services
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 78, NUMBER 23 *CONTENTS* **DECEMBER 2008-15(I)**

BRIEF REPORTS

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

Role of dimensionality and quantum confinement in *p*-type semiconductor indium phosphide quantum dots *(4 pages)* 233101
M. M. G. Alemany, Luis Tortajada, Xiangyang Huang, Murilo L. Tiago, L. J. Gallego, and James R. Chelikowsky

Temperature dependence of the amplified spontaneous emission of the poly(9,9-dioctylfluorene) β phase *(4 pages)* 233102
M. Anni and M. Alemanno

Chain metallicity and competition between paramagnetism and antiferromagnetism in underdoped $YBa_2Cu_3O_{6+x}$: A first principles description *(4 pages)* 233103
Alessio Filippetti, Giorgia M. Lopez, Mauro Mantega, and Vincenzo Fiorentini

Spin-charge separation in a nodal antiferromagnetic insulator *(4 pages)* 233104
Su-Peng Kou

High-kinetic-energy photoemission spectroscopy of Ni at 1*s*: 6-eV satellite at 4 eV *(3 pages)* 233105
O. Karis, S. Svensson, J. Rusz, P. M. Oppeneer, M. Gorgoi, F. Schäfers, W. Braun, W. Eberhardt, and N. Mårtensson

Semiconductors I: bulk

Gallium interstitial in irradiated germanium: Deep level transient spectroscopy *(4 pages)* 233201
Vl. Kolkovsky, M. Christian Petersen, A. Mesli, J. Van Gheluwe, P. Clauws, and A. Nylandsted Larsen

Spatial distribution of carriers in $SrTiO_3$ revealed by photoluminescence dynamics measurements *(4 pages)* 233202
Hideki Yasuda, Yasuhiro Yamada, Takeshi Tayagaki, and Yoshihiko Kanemitsu

Semiconductors II: surfaces, interfaces, microstructures, and related topics

Experimental studies of scaling behavior of a quantum Hall system with a tunable Landau level mixing *(4 pages)* 233301
Y. J. Zhao, T. Tu, X. J. Hao, G. C. Guo, H. W. Jiang, and G. P. Guo

Subterahertz monochromatic acoustic wave propagation using semiconductor superlattices as transducers *(4 pages)* 233302
A. Huynh, B. Perrin, N. D. Lanzillotti-Kimura, B. Jusserand, A. Fainstein, and A. Lemaître

Copyright 2008 by The American Physical Society

(Continued)

1098-0121(20081215)78:23;1-B

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).