# 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 80, NUMBER 23** *CONTENTS* **DECEMBER 2009-15(I)**

## BRIEF REPORTS

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

Fermi surfaces changes in $La_{1-x}Sm_xB_6$ and $Ce_{1-x}Ca_xB_6$ studied using the de Haas–van Alphen effect and magnetic susceptibility *(4 pages)* . . . . . 233101
R. G. Goodrich, D. P. Young, N. Harrison, C. Capan, and Z. Fisk

Polaronic trapping of electrons and holes by native defects in anatase $TiO_2$ *(4 pages)* . . . . . 233102
Benjamin J. Morgan and Graeme W. Watson

Nonequilibrium conductance of asymmetric nanodevices in the Kondo regime *(4 pages)* . . . . . 233103
Eran Sela and Justin Malecki

Direct observation of the pressure-induced charge redistribution in $BiNiO_3$ by x-ray absorption spectroscopy *(4 pages)* . . . . . 233104
Masaichiro Mizumaki, Naoki Ishimatsu, Naomi Kawamura, Masaki Azuma, Yuichi Shimakawa, Mikio Takano, and Takayuki Uozumi

Comparative study of bandwidths in copper delafossites from x-ray emission spectroscopy *(4 pages)* . . . . . 233105
D. Shin, J. S. Foord, D. J. Payne, T. Arnold, D. J. Aston, R. G. Egdell, K. G. Godinho, D. O. Scanlon, B. J. Morgan, G. W. Watson, E. Mugnier, C. Yaicle, A. Rougier, L. Colakerol, P. A. Glans, L. F. J. Piper, and K. E. Smith

### Semiconductors I: bulk

Resonant level formed by tin in $Bi_2Te_3$ and the enhancement of room-temperature thermoelectric power *(4 pages)* . . . . . 233201
Christopher M. Jaworski, Vladimir Kulbachinskii, and Joseph P. Heremans

Influence of encapsulation temperature on Ge:P $\delta$-doped layers *(4 pages)* . . . . . 233202
G. Scappucci, G. Capellini, and M. Y. Simmons

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

Phase diagram of a polariton laser from cryogenic to room temperature *(4 pages)* . . . . . 233301
Raphaël Butté, Jacques Levrat, Gabriel Christmann, Eric Feltin, Jean-François Carlin, and Nicolas Grandjean

Effective-field theories for the $\nu=\frac{5}{2}$ quantum Hall edge state *(4 pages)* . . . . . 233302
Alexey Boyarsky, Vadim Cheianov, and Jürg Fröhlich

**Copyright 2009 by The American Physical Society**

*(Continued)*

1098-0121(20091215)80:23;1-X

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).