Current Rapid Communications

Rapid Communications in Physical Review are short reports of important new work which are of sufficient interest to be given priority handling in the publication process. The following papers have been accepted for publication as Rapid Communications and appear as indicated in the designated Physical Review issues.

Physical Review B, Vol. 58, 15 July 1998, Issue 4

Thermally induced insulator-metal transition in $LaCoO_3$: A view based on the Mott transition ..... Y. Tokura, Y. Okimoto, S. Yamaguchi, H. Taniguchi, T. Kimura, and H. Takagi R1699

One-dimensional *XXY* model for particles obeying fractional statistics ..... Luigi Amico, Andreas Osterloh, and Ulrich Eckern R1703

Electronic structure of the superconducting layered perovskite niobate ..... Izumi Hase and Yoshikazu Nishihara R1707

Trends in band-gap pressure coefficients in chalcopyrite semiconductors ..... Su-Huai Wei, Alex Zunger, In-Hwan Choi, and Peter Y. Yu R1710

Bose-Einstein condensation of excitons in two dimensions ..... J. F. Jan and Y. C. Lee R1714

Hydrogen-mediated structural changes of amorphous and microcrystalline silicon ..... I. Kaiser, N. H. Nickel, W. Fuhs, and W. Pilz R1718

Bond-rotation versus bond-contraction relaxation of (110) surfaces of group-III nitrides ..... Ulrike Grossner, Jürgen Furthmüller, and Friedhelm Bechstedt R1722

Structural and radiative evolution in quantum dots near the $In_xGa_{1-x}As/GaAs$ Stranski-Krastanow transformation ..... R. Leon and S. Fafard R1726

Low-temperature photoemission study of the surface electronic structure of Si(111)7×7 ..... R. I. G. Uhrberg, T. Kaurila, and Y.-C. Chao R1730

Silicon interband transitions observed at Si(100)-SiO_2 interfaces ..... G. Erley and W. Daum R1734

Band-gap renormalization in photoexcited semiconductor quantum-wire structures in the *GW* approximation ..... E. H. Hwang and S. Das Sarma R1738

Role of symmetry reduction in the polarization dependence of the optical absorption in non-common-atom superlattices ..... Rita Magri and Stefano Ossicini R1742

Correlated charge polarization in a chain of coupled quantum dots ..... R. Kotlyar, C. A. Stafford, and S. Das Sarma R1746

Biexcitons in semiconductor quantum wires ..... T. Baars, W. Braun, M. Bayer, and A. Forchel R1750

Nonlinear resistivity at the metal-insulator transition in a two-dimensional electron gas ..... R. Heemskerk and T. M. Klapwijk R1754

Magnetic-field-induced bistability in resonant tunneling ..... S. A. Brown and L. D. Macks R1758

Quantum Hall effect in three-dimensional layered systems ..... Yigal Meir R1762

Optically detected magnetic resonance of excess electrons in type-1 quantum wells with a low-density electron gas ..... C. Y. Hu, W. Ossau, D. R. Yakovlev, G. Landwehr, T. Wojtowicz, G. Karczewski, and J. Kossut R1766

Raman study of interface modes subjected to strain in InAs/GaAs self-assembled quantum dots ..... Yu. A. Pusep, G. Zanelatto, S. W. da Silva, J. C. Galzerani, P. P. Gonzalez-Borrero, A. I. Toropov, and P. Basmaji R1770

Ionic structure and photoabsorption in medium-sized sodium clusters ..... S. Kümmel, M. Brack, and P.-G. Reinhard R1774

Surface smoothing and crystalline reorientation in thin cobalt films ..... H. T. Shi and D. Lederman R1778

Adsorption of thiophene on RuS_2: An *ab initio* density-functional study ... V. Smelyansky, J. Hafner, and G. Kresse R1782