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. 57, 15 May 1998, Issue 20

Holographic storage in conjugated-polymer composites ..... Ofer Levi, Galina Perepelitsa, Dan Davidov, Aharon J. Agranat, Iris Benjamin, Shoshy Shalom, Ronny Neumann, and Yair Avny R12647

Hubbard model on d-dimensional hypercubes: Exact solution for the two-electron case ..... Michel Caffarel and Rémy Mosseri R12651

Electronic structure of ladder cuprates ..... T. F. A. Müller, V. Anisimov, T. M. Rice, I. Dasgupta, and T. Saha-Dasgupta R12655

Temperature-dependent band structure of the Kondo insulator ..... C. Gröber and R. Eder R12659

Defect-induced dissociation of H_2 in silicon ..... S. K. Estreicher, J. L. Hastings, and P. A. Fedders R12663

Hydrogen molecules in silicon located at interstitial sites and trapped in voids ..... B. Hourahine, R. Jones, S. Öberg, R. C. Newman, P. R. Briddon, and E. Roduner R12666

Hot electrons and impact ionization in poly(p-phenylene vinylene) ..... E. M. Conwell R12670

Contribution of two-exciton states to exciton-mediated nonlinearities in $CuBr_xCl_{1-x}$ nanocrystals: The role of the valence-band structure ..... Yingli Li, Manabu Ohta, and Arao Nakamura R12673

Oscillations of intersubband electron relaxation in a $GaAs/Al_xGa_{1-x}As$ wide single quantum well near the single- to double-layer transition ..... L. V. Kulik, L. V. Butov, A. A. Shashkin, and V. T. Dolgopolov R12677

Edge of a half-filled Landau level ..... S.-R. Eric Yang and J. H. Han R12681

Electron-spin resonance in a quantum dot ..... R. H. Blick, V. Gudmundsson, R. J. Haug, K. von Klitzing, and K. Eberl R12685

Geometry-specific conductance fluctuations in semiconductor-superconductor microjunctions ..... Y. Takagaki and K. H. Ploog R12689

Optical control of Bloch-oscillation amplitudes: From harmonic spatial motion to breathing modes ..... M. Sudzius, V. G. Lyssenko, F. Löser, K. Leo, M. M. Dignam, and K. Köhler R12693

Exciton-light coupling in quantum wells: From motional narrowing to superradiance ..... Alexey V. Kavokin and Jeremy J. Baumberg R12697

Structure and stability of the Si(001) $c(4 \times 4)$-Sb surface ..... R. J. Dixon, C. F. McConville, S. J. Jenkins, and G. P. Srivastava R12701

Acetylene structure and dynamics on Pd(111) ..... J. C. Dunphy, M. Rose, S. Behler, D. F. Ogletree, M. Salmeron, and P. Sautet R12705

Theory of optical reflectance anisotropy of the natural Si(110) surface ..... Bernardo S. Mendoza, Rodolfo Del Sole, and Anatoli I. Shkrebtii R12709

Magnetic anisotropy of epitaxial Fe films grown on curved W(001) with a graded step density ..... Hyuk J. Choi, Z. Q. Qiu, J. Pearson, J. S. Jiang, Dongqi Li, and S. D. Bader R12713

Physical Review D, Vol. 57, 1 June 1998, Issue 11

Accurate checks of universality for Dyson's hierarchical model ..... J. J. Godina, Y. Meurice, and M. B. Oktay R6581

QCD triple Pomeron coupling from string amplitudes ..... A. Bialas, H. Navelet, and R. Peschanski R6585

Proton spin content and QCD topological susceptibility ..... B. L. Ioffe and A. G. Oganesian R6590

Examination of neutrino oscillations using high-energy atmospheric neutrino data from Kamiokande ... Yuichi Oyama R6594

Search for a heavy magnetic monopole at the Fermilab Tevatron and CERN LHC ..... I. F. Ginzburg and A. Schiller R6599