

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. 53, 15 March 1996, Issue 12

- Linear-response calculation of electron-phonon coupling parameters Amy Y. Liu and Andrew A. Quong R7575
- Optically detected magnetic-resonance study of triplet-state dynamics in C_{70} P.A. Lane, X. Wei, Z.V. Vardeny, J. Partee, and J. Shinar R7580
- Electronic structure and the metal-insulator transition in $NiS_{2-x}Se_x$ A.Y. Matsuura, Z.-X. Shen, D.S. Dessau, C.-H. Park, T. Thio, J.W. Bennett, and O. Jepsen R7584
- Infrared absorption related to the metastable state of arsenic antisite defects in electron-irradiated GaAs S. Kuisma, K. Saarinen, P. Hautojärvi, and C. Corbel R7588
- Determination of the limiting mobility of a two-dimensional electron gas in $Al_xGa_{1-x}As$ /GaAs heterostructures and direct measurement of the energy relaxation time A.A. Verevkin, N.G. Ptitsina, G.M. Chulcova, G.N. Gol'tsman, E.M. Gershenzon, and K.S. Yngvesson R7592
- Measurements of a composite fermion split-gate device C.-T. Liang, C.G. Smith, D.R. Mace, J.T. Nicholls, J.E.F. Frost, M.Y. Simmons, A.R. Hamilton, D.A. Ritchie, and M. Pepper R7596
- Shubnikov-de Haas oscillations in a two-dimensional electron gas in a spatially random magnetic field F.B. Mancoff, L.J. Zielinski, C.M. Marcus, K. Campman, and A.C. Gossard R7599
- Nonlinear electron-wave directional coupler N. Tsukada, M. Gotoda, M. Nunoshita, and T. Nishino R7603
- Optical second-harmonic electroreflectance spectroscopy of a Si(001) metal-oxide-semiconductor structure J.I. Dadap, X.F. Hu, M.H. Anderson, M.C. Downer, J.K. Lowell, and O.A. Aktsipetrov R7607
- Scaling of surface roughness in a heterogeneous film growth system: Ge_xSi_{1-x} on Si Chung-Yu Mou and J.W.P. Hsu R7610
- Phase diagram of vortices in double-layer quantum Hall systems Igor Tupitsyn, Mats Wallin, and Anders Rosengren R7614
- Spectral correlation and response functions in quantum dots N. Taniguchi, B.D. Simons, and B.L. Altshuler R7618
- Microscopic study of the pressure-induced structural phase transition of ZnTe Gun-Do Lee and Jisoon Ihm R7622
- Electronic conduction through organic molecules M.P. Samanta, W. Tian, S. Datta, J.I. Henderson, and C.P. Kubiak R7626
- Theory of Andreev reflection in a junction with a strongly disordered semiconductor I.L. Aleiner, Penny Clarke, and L.I. Glazman R7630
- Nonequilibrium optical-phonon population by sequential resonant tunneling in GaAs-AlAs superlattices S.H. Kwok, M. Ramsteiner, D. Bertram, M. Asche, H.T. Grahn, and K. Ploog R7634
- Instability of the disordered critical points of Dirac fermions Claudio de C. Chamon, Christopher Mudry, and Xiao-Gang Wen R7638
- Photoluminescence decay times in strong-coupling semiconductor microcavities F. Tassone, C. Piermarocchi, V. Savona, A. Quattropani, and P. Schwendimann R7642
- Influence of island mobility on island size distributions in surface growth Laurens Kuipers and Richard E. Palmer R7646
- Negative-electron-affinity effect on the surface of chemical-vapor-deposited diamond polycrystalline films I.L. Kravinsky, V.M. Asnin, G.T. Mearini, and J.A. Dayton, Jr. R7650
- One-dimensional commensurate-incommensurate transition: Bromide on the Au(100) electrode B.M. Ocko, O.M. Magnussen, J.X. Wang, and T. Wandlowski R7654

Physical Review D, Vol. 53, 1 April 1996, Issue 7

- Search for diffractive dissociation of a long-lived H dibaryon J. Belz, R.D. Cousins, M.V. Diwan, M. Eckhause, K.M. Ecklund, V.L. Fitch, A.D. Hancock, V.L. Highland, C. Hoff, G.W. Hoffmann, G.M. Irwin, J.R. Kane, S.H. Kettell, J.R. Klein, Y. Kuang, K. Lang, R. Martin, M. May, J. McDonough, W.R. Molzon, P.J. Riley, J.L. Ritchie, A.J. Schwartz, A. Trandafir, B. Ware, R.E. Welsh, S.N. White, M.T. Witkowski, S.G. Wojcicki, and S. Worm R3487
- CP violation, fermion masses and mixings in a predictive SUSY $SO(10) \times \Delta(48) \times U(1)$ model with small $\tan\beta$... K.C. Chou and Y.L. Wu R3492