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 A, Vol. 56, November 1997, Issue 5

Thermodynamics and the measure of entanglement ..... Sandu Popescu and Daniel Rohrlich R3319
Coherent states for the hydrogen atom ..... Pushan Majumdar and H. S. Sharatchandra R3322
Enhancement of the electric dipole moment of the electron in the BaF molecule ..... M. G. Kozlov, A. V. Titov, N. S. Mosyagin, and P. V. Souchko R3326
Photoionization of lithium below the Li^+ $1s2s\,^3S$ threshold ..... Kwong T. Chung R3330
Spectra of light emitted during slow ion-atom collisions ... Herbert F. M. DaCosta, David A. Micha, and Keith Runge R3334
Fluorination effects in electron scatterings from CH_4, CH_3F_1, CH_2F_2, CH_1F_3, and CF_4 ..... H. Tanaka, T. Masai, M. Kimura, T. Nishimura, and Y. Itikawa R3338
Assignment of fine structure in the HBr absorption spectrum at the Br $3d \rightarrow$ Rydberg resonances using the Auger resonant Raman effect ..... Y. F. Hu, G. M. Bancroft, J. Karvonen, E. Nommiste, A. Kivimaki, H. Aksela, S. Aksela, and Z. F. Liu R3342
Low-energy elementary excitations of a trapped Bose-condensed gas ..... P. Öhberg, E. L. Surkov, I. Tittonen, S. Stenholm, M. Wilkens, and G. V. Shlyapnikov R3346
Quantum reflection from an atomic mirror ..... B. Segev, R. Côté, and M. G. Raizen R3350
Stimulated focusing and deflection of an atomic beam using picosecond laser pulses ..... A. Goepfert, I. Bloch, D. Haubrich, F. Lison, R. Schütze, R. Wynands, and D. Meschede R3354
Pulsed field ionization of Rydberg atoms ..... F. Robicheaux R3358
Electromagnetically induced transparency in atoms with hyperfine structure ..... Hui Xia, S. J. Sharpe, A. J. Merriam, and S. E. Harris R3362
Multistable localized structures and superlattices in semiconductor optical resonators ..... D. Michaelis, U. Peschel, and F. Lederer R3366
Statistics of power-dropout events in semiconductor lasers with time-delayed optical feedback ..... David W. Sukow, Jeff R. Gardner, and Daniel J. Gauthier R3370