

Selected Abstracts from Other Physical Review Journals

Abstracts of papers that are published in other Physical Review journals and may be of interest to Physical Review A readers are printed below.

Relativistic calculations using Monte Carlo methods: One-electron systems S. A. Alexander *Department of Physics and Geology, University of Texas Pan American, Edinburg, Texas 78539*
R. L. Coldwell *Department of Physics, University of Florida, Gainesville, Florida 32611* (Received 6 November 1998)

Variance minimization and Monte Carlo integration are used to evaluate the four-component Dirac equation for a number of one-

electron atomic and diatomic systems. This combination produces accurate energies, is relatively simple to implement, and exhibits few of the problems associated with traditional techniques. [S1063-651X(99)09709-3] [Phys. Rev. E **60**, 3374 (1999)]