Abstract Submitted for the TSF14 Meeting of The American Physical Society

**Continuing Studies of Hydrogenic Quantum Systems Using the Feynman-Kac Path Integral Method** JAMES REJCEK, Univ of Texas, Arlington — The Feynman-Kac path integral method is applied to the atomic hydrogen quantum system for the purpose of evaluating eigenvalues. These are computed by random walk simulations on a discrete grid. The study provides the latest simulation analysis and includes the use of symmetry that allows higher order eigenstates to be computed. The method provides exact values in the limit of infinitesimal step size and infinite time for the lowest eigenstates.

> James Rejcek Univ of Texas, Arlington

Date submitted: 23 Sep 2014

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