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Education

B.S. Physics, 2009 (expected), U. of H.

B.S. Mathematics, 2009 (expected), U. of H. (GPA: 3.4, last 60 hours)

Research

Undergraduate Research Assistant, fall 2008 - summer 2009, with Dr. Donald Kouri

Quantum mechanical eigenvalue problems applied to several original research projects.

New propagator-based approaches to solving the acoustic wave equation, for specific application in the seismic industry.

Main Interests

Computation, signal analysis, and the physics of computation.

General Interests

Electrodynamics, Mathematical and Statistical Physics, Quantum Theory.
Functional Analysis, Linear Algebra, P.D.Es.

Work History

ION Geophysical, may 2005 - sept. 2008

Engineering intern.

CGG Veritas, 2006 - 2008

Contracted engineering and drafting work.

Precision Tube Technology, 2004 - 2005

Q.C. tech.

Publications

D. J. Kouri, T. Markovich, N. Maxwell, B. G. Bodmann, The Heisenberg-Weyl Algebra on the Circle and a Related Quantum Mechanical Model for Hindered Rotation, *J. Phys. Chem. A* **113**, 7698-7705, (2009).

D. J. Kouri, T. Markovich, N. Maxwell, E. Bittner, Supersymmetric Quantum Mechanics for a General Family of Anharmonic Oscillator Models, *J. Phys. Chem. A*, submitted (2009).