Timothy J. S. Martin

CONTACT INFORMATION

Chemistry-Physics 393
Department of Physics
University of Kentucky
Lexington, KY 40506

Voice: (859) 684-8715
E-mail: tjmart1@uky.edu

RESEARCH INTERESTS

Theoretical particle physics. Bound state theory in QED.

EDUCATION

University of Kentucky, Lexington, Kentucky USA

Ph.D., Physics, May 2011

- Dissertation Topic: "Universal Binding and Recoil Corrections to Bound State g-Factors"
- Advisor: Michael Eides

M.S., Physics, May 2009
B.S., Physics and Math, May, 2005

ACADEMIC EXPERIENCE

University of Kentucky, Lexington, Kentucky USA

Graduate Student **August, 2005 - 2011**
Includes current Ph.D. research, Ph.D. and Masters level coursework and research/consulting projects.

Teaching Assistant **August, 2001 - present**
Duties have included teaching recitation and labs, grading tests, and setting quizzes.

PUBLICATIONS

Michael I. Eides and Timothy J.S. Martin. 2010. Universal Binding and Recoil Corrections to Bound State g Factors in Hydrogenlike Ions. Physical Review Letters. 105:100402

Michael I. Eides and Timothy J.S. Martin. 2011. Universality of Leading Relativistic Corrections to Bound State Gyromagnetic Ratios. Canadian Journal of Physics. 89(1): 117

COMPUTER SKILLS

- Statistical Packages: R, S-Plus, BUGS; some experience with SAS; extensive use of C and Fortran statistical libraries.
- Languages: C++, Perl, Pascal, some use of Unix shell scripts, MPI parallel processing library.
- Applications: Generic Mapping Tools (GMT) - Unix mapping software, LaTeX, common Windows database, spreadsheet, and presentation software
- Algorithms: Experience programming Markov Chain Monte Carlo simulations of Bayesian posterior distributions
- Operating Systems: Unix/Linux, Windows.