

Timothy J. S. Martin

CONTACT INFORMATION

Chemistry-Physics 390
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.^{ixn}, Physics, Fall 2011

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

M.S., Physics, May 2009

ixn

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

ACADEMIC EXPERIENCE

University of Kentucky, Lexington, Kentucky USA

Graduate Student

August, 2005 - 2011

Ph.D. research, Ph.D. and Masters level coursework.

Teaching Assistant

August, 2005 - 2009

Duties have included teaching recitation and labs, grading tests, and setting quizzes. Classes taught have included both *College Physics* and *Physics for Scientists and Engineers*.

Part-time Instructor

August, 2011 - 2012

Teaching a lecture of second semester *Physics for Scientists and Engineers*. (The class mostly covers electricity and magnetism.) Teaching recitation sections of *Physics for Scientists and Engineers*.

PUBLICATIONS AND PRESENTATIONS

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

- Languages: C, C++, Java, Javascript, Actionscript
- Applications: Mathematica, Maple, and Octave; L^AT_EX; common office software; Adobe Flash
- Operating Systems: Linux, OS X, Windows