

Claire Kathryn Thomas

Curriculum Vitae

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Education

- 2010– **Graduate Student**, *University of California Berkeley*, Physics Department.
- 2006–2010 **Bachelor of Arts**, *Boston University*, Magna Cum Laude, Physics with Distinction.
Minor in Mathematics

Fellowships and Honors

- 2010 Department of Energy Graduate Research Fellowship (accepted)
- 2010 National Science Foundation Graduate Research Fellowship (declined)
- 2006–2010 Boston University Presidential Scholar, half tuition scholarship
- 2009 Outstanding Leadership award from BU Physics Department
- 2008–2010 Boston University, College of Arts and Sciences College Scholar

Leadership and Outreach

- 2010 Acted on panels for Boston Urban Fellows and young women in the sciences (STEM)
- 2009 Acted on panel for incoming BU minority students
- 2007–2009 President of Photon, the BU Chapter of the Society of Physics Students *Received Outstanding Chapter Award from SPS for AY 2008*
- 2009 Initiated club's outreach program for local middle schools
- 2007–2010 Peer mentor for freshmen in physics

Participation in Conferences and Professional Meetings

- 2011 Gordon Conference. Mount Snow, NH
poster: *Magnetism in a Spinor Gas and an Optical Kagome Lattice*
- 2011 DAMOP Meeting. Atlanta, GA
poster: as previous
- 2010 June Double Chooz Collaboration Meeting. Chooz, France
- 2010 APS April Meeting. Washington D.C.
talk: *Background Studies for Double Chooz: Identifying ^9Li Decay*
- 2009 International Neutrino Summer School. Fermi National Lab
- 2009 Lead Organizer of SPS Zone 1 Meeting. Boston University
- 2009 Undergraduate Women in Physics Conference at Yale University
talk: *The Double Chooz Outer Muon Veto*
- 2008 Sigma Pi Sigma Quadrennial Conference. Fermi National Lab
poster: *Detecting Cosmic Ray Muons in Double Chooz*

- 2008 SPS Zone 1 meeting. University of Connecticut
poster: *Identifying Graphene Monolayers with Raman Spectroscopy*
- 2008 Undergraduate Women in Physics Conference at Yale University
poster: as previous

Research Experience

- Dec 2010 – **PhD Research**, *University of California, Berkeley*, Professor Dan M. Stamper-Kurn, Berkeley, CA.
Spinor Condensates
J. Guzman, G-B. Jo, A. Wenz, K. Murch, C. K. Thomas, D. M. Stamper-Kurn, "Long timescale dynamics of Spin Textures in a degenerate $F=1$ ^{87}Rb spinor Bose gas," arXiv:1107.2672v1. July, 2011.
Optical Kagome lattice
J. Guzman, G-B. Jo, C. K. Thomas, A. Wenz, K. Murch, D. M. Stamper-Kurn, "Magnetization in a Spinor Gas and an Optical Kagome Lattice" APS DAMOP meeting 2011, June, 2011.
- Jun 2010 – Aug 2010 **Research on-site at Double Chooz**, *Massachusetts Institute of Technology*, Professor Janet Conrad, Chooz, France.
- Dec 2008 – May 2010 **Undergraduate Research and BU Senior Thesis**, *Double Chooz, Massachusetts Institute of Technology*, Professor Janet Conrad, Cambridge, MA.
Developed software (C++, ROOT, perl) to simulate radioactive decay in the detector
Thesis: *Background Studies for Double Chooz: Identifying ^9Li Decay*
- Jun 2008 – Aug 2008 **Undergraduate Research: REU**, *Columbia University Physics Department*, Professor Mike Shaevitz, New York, NY.
Muon spallation as a source of background in Double Chooz neutrino experiment.
- May 2007 – Jun 2008 **Undergraduate Research**, *Boston University Physics Department*, Professor Bennett Goldberg, Boston, MA.
Micro-cleaving, e-beam patterning and characterization of single and bilayer graphene samples using transport and Raman Scattering
S. C. Remi, C. Metzger, M. Liu, W. Hubbard, C. K. Thomas, A. K. Swan, and B. B. Goldberg, "Micro Raman studies of 1st and 2nd order Raman scattering of Graphene," APS March meeting 2008, March 2008.

Languages

I speak American English and French, and I am looking forward to learning more.