Joseph Smidt
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Research Interests

Cosmology, Particle Physics and Theoretical Astrophysics. I am interested in applying minimal extensions of the standard model to accelerator physics, dark matter and early universe physics. I am also interested in studying string phenomenology in these areas.

Current Position

- Brigham Young University
  Department of Physics and Astronomy
  Research Assistant, 2005-Present

Previous Positions

- Los Alamos National Laboratory
  T-6
  Research Assistant, Summer 2006

Education

- Brigham Young University
  B.S. Physics and B.S. Mathematics, 2007 (Expected)
  Dr. David Neilsen, Advisor.
  Thesis: *Photoevaporation Of Primordial Minihalos*, 2007 (Expected)

Awards and Honors

- **Outstanding Student Paper** *Photoevaporation of Clustered Minihaoles by Primordial Stars*
  The American Physical Society, Four Corners Section Meeting, October 6-7, 2006
- **Brigham Young Scholar**
  Brigham Young University
- **Dean's Honor's List**
  Brigham Young University

Activities

- Member of the Theoretical Physics Group
  Brigham Young University, 2001-2007
- Founder and Contributor, *The Eternal Universe* blog
  (http://theeternaluniverse.blogspot.com)

Courses Taught

- Math 495R, Course based on *Geometry Topology and Physics* by M. Nakahara
  Brigham Young University, Winter 2006.

Research Publications

1. **"Photoevaporation of Clustered Minihaoles by Primordial Stars"**
   Dan Whalen and Joseph Smidt (*Expected 2008*)

2. **"Cosmological Radiative Transfer Codes Comparison Project II: The Radiative-Hydrodynamic Tests"**
   Ilian T. Iliev, Kyungjin Ahn, Sunghye Baek, Nickolay Y. Gnedin, Andrey V. Kravtsov, Garrelt Mellema, Michael Norman, Paul R. Shapiro, Benoit Semelin, Joseph Smidt, Hajime Susa, Masayuki Umemura, and Daniel Whalen (*Expected 2008*)

Research Talks

1. **"Photoevaporation of Clustered Minihaoles by Primordial Stars"**
   Brigham Young University, Spring Research Conference, March 17, 2007

2. **"Photoevaporation of Clustered Minihaoles by Primordial Stars"**
   The American Physical Society, Four Corners Section Meeting, October 6-7, 2006

3. **"Gravitational Collapse of Black Strings"**
   Brigham Young University, Spring Research Conference, March 2006