

**Marcus Berg**

Cosmology, Astroparticle physics and String theory  
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**Personal Information**

- Date and Place of Birth: 3 January 1973, Umeå, Sweden.
- Citizenship: Swedish Citizen.

**Research Interests**

- Theoretical high-energy physics: string cosmology/phenomenology, gauge/string duality, mathematical physics.

**Professional**

- Assistant professor (VR-forskarassistent), Stockholm University, 2007-
- EU Postdoc, Max Planck Institute, Potsdam-Golm, Germany, 2005-2007
- Postdoc Fellow, KITP, Santa Barbara, USA, 2003-2005
- Marie Curie Postdoc Fellow, University of Rome Tor Vergata, 2001-2003.

**Education**

- University of Texas at Austin, USA  
Ph.D., Physics, 2001; advisor: Cécile DeWitt-Morette.  
Thesis: *Geometry, Renormalization and Supersymmetry*.
- also holds Ph.D. from University of Umeå, Sweden (advisor: Michael Bradley)
- Ecole Normale Supérieure, Paris, France: One-year research visit, 1999/2000
- University of Umeå, Sweden; M.Sc., Physics, 1996

**Teaching Experience**

- Engineering Mechanics (Teaching Assistant), University of Texas at Austin 1996/97
- Electromagnetic Theory (Teaching Assistant), University of Texas at Austin 1996/97
- Particle Physics, Stockholm University, 2007
- Introductory Quantum Mechanics, Stockholm University, 2008

**Honors**

- STINT Exchange Grant: Cornell University, 2008-2011.
- Wenner-Gren Fellowship, 2003-2005.
- Outstanding Dissertation Award, Dept. of Physics, UT Austin, 2001.
- Professional Development Award, UT Austin, 2000.
- Mentioned in Particle Data Group publications in "Authors" section, 2000.

- University of Texas Dean of Natural Sciences Fellow, 2000.
- Royal Swedish Academy of Sciences grant, 2000.
- Swedish Institute grant — financial support for one year, 1999.
- University of Texas Bruton Fellow 1998/1999.

### Society Memberships

- Swedish Physical Society, European Physical Society, Amis de l'Ecole Normale Supérieure, Marie Curie Fellowship Association.

### Selected Conferences, Schools and Research Visits

- Eurostrings, Crete, 2007
- STRINGS, Madrid, 2007
- KITP workshop, "String Phenomenology" 2006.
- GGI String phenomenology workshop, Florence, 2006.
- Eurostrings, DAMTP, Cambridge, 2006.
- CERN Short-term Visitor, 2006.
- String Phenomenology workshop, Perimeter Institute, Canada, 2005.
- $N = 1$  Compactifications, University of Toronto, Canada, 2005.
- Two-week research visit to University of Michigan, 2004.
- One-week research visit at CERN, Switzerland, 2003.
- NATO ASI/EC summer school, Cargèse, 2002
- Stephen Hawking's 60th Birthday Symposium, Cambridge, 2002.
- NATO ASI summer school, Les Houches, France, 1998.

### Selected Recent Talks

- *Effective Field Theories of Dark Matter*, ENS Lyon 2008
- *Effective Field Theories of Dark Matter*, Free University Brussels 2008
- *Large-Volume Compactifications and Open Strings*, Eurostrings 2007
- *Large-Volume Compactifications and Open Strings*, Rome University 2007
- *Fluctuation Spectra in Non-AdS/Non-CFT*, Polytechnique 2007
- *Fluctuation Spectra in Non-AdS/Non-CFT*, DAMTP string seminar, Oct 2006.
- *Moduli Stabilization Mechanisms*, GGI Florence, May 2006.
- *Volume Stabilization by Quantum Corrections*, Eurostrings, April 2006.
- *String Corrections in Brane Inflation*, CERN Theory, Feb 2006.
- *Orientifold Prepotentials*, String Phenomenology workshop, Perimeter Institute, Canada, April 2005.
- *String Corrections in Brane Inflation*, Institute for String Theory, Cosmology and Astrophysics, Columbia University, New York, Feb 2005.