
Volker Bromm

Academic Positions

Since-2009 Associate Professor, University of Texas at Austin

2004–2009 Assistant Professor, University of Texas at Austin

04-10/2004 Institute Fellow, Space Telescope Science Institute

2001–2004 Postdoctoral Scholar, Harvard University

2000–2001 Postdoctoral Scholar, Institute of Astronomy, Cambridge University.

Professional Preparation

1994–2000 Yale University, New Haven, Connecticut. Degree: Ph.D. in Astronomy (2000).

1990–1993 University of Heidelberg, Germany. Degree: M.Sc. in Physics (1993).

PhD Advisors: Prof. Paolo S. Coppi and Prof. Richard B. Larson.

Awards and Honors

2004–2010 Numerous Invited Review Talks on the First Stars and Galaxies.

2009 The University of Texas System Regents' Outstanding Teaching Award.

2008 College of Natural Sciences Teaching Excellence Award.

2007 Board of Visitors Teaching Excellence Award.

2004 Space Telescop Science Institute Postdoctoral Prize Fellowship.

2003 Northeastern Association of Graduate Schools Dissertation Award.

2002 Robert J. Trumpler Award, Astronomical Society of the Pacific.

Recent Collaborators: Matthew Bate (Univ. of Exeter, UK), Ian Bonnell (St. Andrews Univ., UK), Paul Clark (Heidelberg, Germany), Andrea Ferrara (SISSA, Italy), Anna Frebel (CfA), Lars Hernquist (Harvard), Marc Kamionkowski (Caltech), Torgny Karlsson (Sydney, Australia), Ralf Klessen (Heidelberg, Germany), Rolf-Peter Kudritzki (Univ. of Hawaii), Richard Larson (Yale), Abraham Loeb (Harvard), Chris McKee (UC Berkeley), Milos Milosavljevic (UT Austin), Kazu Omukai (NAO, Japan), Ruben Salvaterra (SISSA, Italy), Mike Santos (STScI), Raffaella Schneider (Arcetri, Italy), Paul Shapiro (UT Austin), Naoki Yoshida (Tokyo Univ., Japan)

Synergistic Activities

Referee for ApJ, A&A, MNRAS, PASJ, Space Science Reviews, Science, Nature

Graduate Advisor, Astronomy Department, University of Texas at Austin

Summer School Invited Lecturer: ICTP, Trieste (2008), Max-Planck Research School, Heidelberg (2010)

Member SOC: Ringberg 2005, Bash Symposium 2006, Chamonix 2007, IAU 254 2008, JD12 at IAU GA 2009 (co-chair) , First Stars and Galaxies at UT Austin 2010 (chair)

Selected Publications

I. On the First Stars and Galaxies

Forming the First Stars in the Universe: The Fragmentation of Primordial Gas, Bromm, V., Coppi, P. S., & Larson, R. B. 1999, ApJ, **527**, L5.

The Fragmentation of Pre-enriched Primordial Objects, Bromm, V., Ferrara, A., Coppi, P. S., & Larson, R. B. 2001, MNRAS, **328**, 969.

Generic Spectrum and Ionization Efficiency of a Heavy Initial Mass Function for the First Stars, Bromm, V., Kudritzki, R. P., & Loeb, A. 2001, ApJ, **552**, 464.

The Formation of the First Stars: The Primordial Star-forming Cloud, Bromm, V., Coppi, P. S., & Larson, R. B. 2002, ApJ, **564**, 23.

The First Stars, Bromm, V., & Larson, R. B. 2004, ARA&A, **42**, 79.

II. In Other Fields

The Formation Mechanism of Brown Dwarfs, Bate, M. R., Bonnell, I. A., & Bromm, V. 2002, MNRAS, **332**, L65.

The Expected Redshift Distribution of Gamma-Ray Bursts, Bromm, V., & Loeb, A. 2002, ApJ, **575**, 111.

The Contribution of the First Stars to the Cosmic Infrared Background, Santos, M. R., Bromm, V., & Kamionkowski, M. 2002, MNRAS, **336**, 1082.

The Formation of a Star Cluster, Bate, M. R., Bonnell, I. A., & Bromm, V. 2003, MNRAS, **339**, 577.

Formation of the First Supermassive Black Holes, Bromm, V., & Loeb, A. 2003, Ap. J., **596**, 34.