

DMITRI A. UZDENSKY

Center for Integrated Plasma Studies
Department of Physics, UCB 390
University of Colorado
Boulder, CO 80309-0390

ph. (303)-492-7988
uzdensky@colorado.edu
<https://www.colorado.edu/physics/dmitri-uzdensky>

March 14, 2024

PROFESSIONAL APPOINTMENTS:

Center for Integrated Plasma Studies, Univ. Colorado Boulder:

Director 2017 – 2023

Inst. for Advanced Study, Princeton:

Junior Visiting Professor 2016-2017

Univ. Colorado Boulder:

Professor Aug. 2021 – present

Associate Professor Aug. 2016 – July 2021

Assistant Professor Aug. 2009 – July 2016

Princeton University:

Research Staff Member (Associate Research Scholar) Sept. 2004 – Aug. 2009

Kavli Institute for Theoretical Physics, Santa Barbara:

Postdoctoral Member Sept. 2001 – Aug. 2004

University of Chicago:

Postdoctoral Research Associate Sept. 1998 – Aug. 2001

Princeton University:

Graduate Research Assistant (Princeton Plasma Physics Lab) Sept. 1993 – Aug. 1997

EDUCATION:

Princeton University:

Ph.D., Astrophysical Sciences Sept. 1998

Ph.D. Thesis: “Theoretical Study of Magnetic Reconnection” (*Advisor:* Prof. Russell M. Kulsrud)

Moscow Institute of Physics and Technology (MIPT):

M.S. *summa cum laude* in Plasma Physics and Chemistry June 1993

Master Thesis: “The Influence of Polarization Currents on the Edge Plasma Turbulence in Tokamaks” (*Advisor:* Prof. A.V. Nedospasov)

TEACHING EXPERIENCE:

- Assistant, Associate, and full Professor, Physics Dept., Univ. Colorado Boulder 2009-present
- Invited Lecturer, Les Houches Winter School “The Future of Plasma Astrophysics” 2013
- Invited Lecturer, CMPD/CMSO Winter School on Plasma Physics, UCLA 2008
- Teaching Assistant, *Waves and Instabilities in Plasma*, Princeton University Fall 1996

SCIENTIFIC INTERESTS:

Theoretical Plasma Physics and Plasma Astrophysics, including:

- Radiative and Extreme Plasma Astrophysics
- Magnetic Reconnection and Kinetic Turbulence in Relativistic Astrophysical Plasmas
- Black-Hole Accretion Disks, Coronae, and Jets
- Magnetospheres of Neutron Stars, including magnetars
- Magnetic Confinement Fusion Plasmas

LANGUAGES:

- Fluent English and Russian, some German

PROFESSIONAL SOCIETIES:

- American Astronomical Society (incl. High-Energy Astrophysics and Solar Physics Divisions)
- American Physical Society (including Division of Astrophysics, Division of Plasma Physics, and Topical Group on Plasma Astrophysics); APS Fellow since 2015.

SERVICE TO SCIENTIFIC COMMUNITY:

- Chair, *APS Topical Group on Plasma Astrophysics (GPAP)* 2023
- Chair, *Panel on Space & Astrophysical Plasmas*, APS DPP Program Committee 2022
- Chair, *APS GPAP Nominating Committee* 2023
- Chair, *APS GPAP Fellowship Committee* 2022
- Associate Editor, *Journal of Plasma Physics* 2015-present
- Chair, Scientific Organizing Committee, mini-conference “*Turbulence, Reconnection, Shocks, and Particle Acceleration in Collisionless Laboratory, Space, and Astrophysical Plasmas*”, 61st Annual APS DPP Meeting (Oct. 21-25, 2019, Fort Lauderdale, FL) 2019
- Member, *APS GPAP Fellowship Nominating Committee* 2019
- Member, Scientific Organizing Committee, *MR2018* (Princeton, NJ), *MR2022* (Monterey, CA), and *MR2023* (Ise Shima, Japan) *Magnetic Reconnection Int. Conference* 2018, 2022, 2023
- Member, Scientific Organizing Committee of HEDLA XI Conference 2016
- Member, Scientific Organizing Committee, 1st, 2nd, 3rd, 4th, and 5th *Purdue Workshops on Relativistic Plasma Astrophysics* 2014, 2016, 2018, 2022, 2024
- Member, *NASA Astrophysics Theory Program Review Panel* 2013, 2016, 2019
- Member, Scientific Organizing Committee of JSI Workshop *Nature’s Particle Accelerators* (Oct. 22-25, 2012, Annapolis, MD) 2012
- Chair, *Panel on Space & Astrophysical Plasmas*, APS DPP Program Committee 2012
- Member, *APS Marshall Rosenbluth Outstanding Doctoral Thesis Award Committee* 2012
- Co-organizer, Workshop on Kinetic Reconnection, Programme on Gyrokinetics in *Lab. & Astrophys. Plasmas*, I. Newton Inst. Math. Sciences, Cambridge, UK Aug. 2010
- Chair, *APS GPAP Nominating and Program Committees* 2009
- Chair, Local Organizing Committee, *2008 General Meeting of the NSF Center for Magnetic Self-Organization* July 2008
- Organized a Session on Plasma Astrophysics at the *APS April 2008 Meeting* 2007 – 2008
- Member, *NSF Plasma Physics Review Panel* Mar. 2008
- Reviewed postdoctoral applications for *NASA Postdoctoral Program* Dec. 2007
- Co-organized the *2007 US-Japan Magnetic Reconnection Workshop* March 2007
- Executive Committee Member, APS Topical Group on Plasma Astrophysics 2006 – 2009
- Coordinated the *KITP Theoretical Astrophysics Seminar* Jan. 2003 – May 2004
- Co-organized two *Theoretical Astrophysics in Southern California Meetings* 2002, 2003
- Referee for *J. Plasma Phys.*, *Astrophys. J.*, *Mon. Not. Roy. Astron. Soc.*, *Astron. & Astrophys.*, *Phys. Plasmas*, *Nature*, *Science*, *Phys. Rev. Lett.*, *PNAS*, *J. Geophys. Res.*, *Rev. Mex. A&A*.

PUBLICATIONS, CITATIONS, INVITED PRESENTATIONS:

- *Source: Google Scholar*: ~ 103 publications in peer-reviewed journals, 7465 total citations, 47 papers with 50 or more citations, h-index = 48.
- *Source: NASA ADS*: ~ 103 publications in peer-reviewed journals, 6136 total citations, 42 papers with 50 or more citations, h-index = 46.
- *Source: Thompson-Reuters Web of Knowledge*: 95 publications in peer-reviewed journals, 5454 total citations, 41 papers with 50 or more citations, h-index = 44.
- > 130 invited presentations (seminars, colloquia, conference talks, etc.).