ANATOLY SPITKOVSKY

Department of Astrophysical Sciences Princeton University Peyton Hall, Ivy Lane Princeton, NJ 08544-1001		(609) 258-2307 Fax: (609) 258-8226 anatoly@astro.princeton.edu http://www.astro.princeton.edu/~anatoly
Academic Training	University of California, Berkeley Ph.D. in Physics, 2002 M.A. in Physics, 1997	
	California Institute of Technology B.S. in Physics with honors, 1995	
Research Interests	flows, pulsar magnetospheres and winds, collisionless shocks, nuclear burning on ac	ysics with ultra-intense lasers, laser-plasma
Research Experience	Professor Department of Astrophysical Sciences, Pr Associated Faculty at Princeton Institute (PICSciE)	2015 – inceton University for Computational Science and Engineering
	Assistant & Associate Professor Department of Astrophysical Sciences, Pr	2006 - 2015 inceton University
	Chandra Postdoctoral Fellow Astronomy Department, UC Berkeley & I Cosmology (KIPAC), Stanford University	2002 - 2005 Kavli Institute for Particle Astrophysics and
	Doctoral Candidate Physics Department and Astronomy Depart Advisor: Prof. Jonathan Arons <i>Thesis</i> : "Pulsar winds and other burning	
	Research Assistant Accelerator Theory Department, Stanford	1995 – 1997 Linear Accelerator Center
Teaching	AST541 "Astrophysics of Compact Objec AST520 "High Energy Astrophysics", Pri AST203 "The Universe", Princeton Supervised 8 graduate and 7 undergradu rently 1 PhD thesis student	
Awards and Honors	Simons Foundation Investigator in Theore Simons Foundation Fellowship Sloan Foundation Fellowship Chandra Postdoctoral Fellowship Mary E. Uhl Award, UC Berkeley, for dis California Space Institute CalSpace fellow California Department of Education Grad Caltech Merit Prize (full tuition)	2013-2014 2007-2009 2002-2005 tinguished PhD research 2002 rship 2001

Professional Societies and Service	Member: American Astronomical Society Member of Advisory Committee for Princeton Plasma Physics Laboratory Member of PICSciE Executive Committee, Princeton University Member of Research Computing Advisory Group, Princeton University Panel reviewer: Chandra X-ray Observatory, NASA ATP, NSF AST Organizer, "Computational Relativistic Astrophysics" program, Princeton Center for Theoretical Science (PCTS), Princeton (2009-10) and "Accelerating Cosmic Ray Com- prehension" program, PCTS (2014-15) Organizer, KITP Santa Barbara program on "Particle Acceleration" (2009) Referee for Astrophysical Journal, Astrophysical Journal Letters, Physical Review Let- ters, Monthly Notices of the Royal Astronomical Society, Advances in Space Research.
Recent Research Grants	 "First-Principles Simulations of Pulsar Magnetoshpheres," NASA, Astrophysics Theory Program (2015-2018) "High Energy Emission from Pulsar Magnetospheres and Winds," NASA, Astrophysics Theory Program (2012-2015) "Collisionless Shocks in Laboratory High Energy Density Plasmas," DOE/NNSA, National Laser Users Facility, (2010-16) "Ab-initio Calculation of Early Afterglow Emission," SWIFT cycle 7 (2012-13) "Light Curves and Strong Currents in Pulsars," NASA Fermi cycle 4-7 (2011-15) "Particle Acceleration in Astrophysical Collisionless Shocks" (2008-2013), NSF AST Recent supercomputer time awards: "Particle Acceleration in Astrophysical Shocks", DOE NERSC, 2.4 million hours/year; "Kinetic simulations of collisionless shocks"
Recent Invited Talks and Colloquia	 Invited review talks at conferences: "Astrophysics of High-Beta Plasma in the Universe", Jeju Island, S. Korea, 2014; "Relativistic Plasma Astrophysics," Purdue University, 2014; "4th International Conference on High Energy Density Physics," St. Malo, France, 2013; "Black Holes, Jets and Outflows," Kathmandu, Nepal, 2013; "Neutron Stars and Pulsars", IAU Symposium 291, Beijing, 2012; "Gamma-2012," Heidelberg 2012; "Crab Nebula Flares," Rome, 2012; "High Energy Density Laboratory Astrophysics," Tallahassee, 2012; "International Conference of Numerical Simulations of Plasmas," Long Branch, 2011; 'High-Energy Processes in Relativistic Outflows," Barcelona 2011, "Particle Acceleration in Astrophysical Plasmas," Bern 2011; APS April meeting, Annaheim, 2011 Colloquium at Universidad de Chile, Santiago, Chile, December 2014 Colloquium at Universidad de Sptember 2013
	Colloquium at UCLA, February 2013 Colloquium at NASA Goddard, January 2013
	Colloquium at University of Texas, Austin, November 2012
	Colloquium at University of Colorado, Boulder, April 2011