

Benjamin Rose

Physics PhD Candidate at Notre Dame
OrcidID: 0000-0002-1873-8973

Department of Physics
225 Nieuwland Science Hall
Notre Dame, Indiana 46556

574.387.3453
brose3@nd.edu

Education	Mater of Science in Physics University of Notre Dame, Notre Dame, Indiana Advisor: Peter Garnavich	2016
	Bachelor of Science in Physics cum laude Whitworth University, Spokane, Washington Minor: Mathematics	2012
Observational Experience	Vatican Advanced Technology Telescope (VATT) Mount Graham International Observatory June 27, 2014 - July 1, 2014	
Activities & Outreach	Graduate Physics Society (GPS) Annual Conference, Organizing Committee Member	2016
	Graduate Physics Society, Executive Board Member	2015 - present
	American Astronomical Society (AAS), Junior Member	2014 - present
	Graduate Student Union (GSU), Physics Department Representative	2013 - 2014
	American Physical Society (APS), Student Member	2011 - 2014
	Notre Dame Summer Band	2013 & 2014
	Whitworth University Wind Symphony	2009 - 2012
	Whitworth Near Space Worked with middle school students on high altitude balloon experiments Developed & built radiation, ozone, and temperature detector systems	Spring 2012
	Club Treasurer, Whitworth University	2009 - 2011
Awards	GSU Conference Presentation Grant, Notre Dame	2015 & 2016
	Notebaert Professional Development Award, Notre Dame	2015 & 2016
	Poster Grant, GSU 6th Annual Research Symposium	2014
	Presidential Scholarship, Whitworth University	2008 - 2012
	Delbert E. Friesen Memorial Scholarship, Whitworth University	2011 - 2012
	Talent Scholarship in Physics, Whitworth University	2008 - 2011
	Talent Scholarship in Music, Whitworth University	2009 - 2012
Computer Skills	Laureate Society, Whitworth University For a semester GPA of 3.75 or greater	4 semesters
	Daily Use: Python, git, GitHub, Astropy, L ^A T _E X, Markdown, macOS	
	Proficient: Jupyter, pandas, Linux, Jekyll, HTML, CSS	
	Basic Knowledge: Windows, C++, ROOT, Mathematica, MATLAB, Javascript	
	Some Experience: LabVIEW, Apple Script, Julia, Parallel Computing, Swift	

Teaching Experience	Individual Tutoring	Fall 2015 & 2016
	Including math methods, thermodynamics, and E & M	
	Intro. to Scientific Computing with Python	Spring 2016
	Led basic programing help session and graded	
	Engineering Intro. Physics labs	Spring & Fall 2013
	Pre-Med. Intro. Physics labs	Fall 2012 & Summer 2013
Oral Presentations	<i>Searching For a Cosmic-scale Dark Flow</i>	
	2015 APS Prairie Section Meeting, Notre Dame	November 20, 2015
	<i>Finding A Cosmic Bulk Flow</i>	
	2014 GPS Spring Conference, Notre Dame	April 28, 2014
	<i>Determining the Location of a Radioactive Source in MAJORANA DEMONSTRATOR</i>	
	REU Culminating Talks, Duke University	August 2, 2011
Poster Presentations	<i>Correlations Between Hubble Residuals and Local Stellar Populations of Type Ia Supernovae</i>	
	AAS 229th Meeting, Grapevine, Texas	January 7, 2017
	<i>Correlating Type Ia Supernova Properties With Their Local Environment Using HST Snapshots of Host Galaxies</i>	
	AAS 227th Meeting, Kissimmee, Florida	January 6, 2016
	<i>Prospects for Detecting a Cosmic Bulk Flow</i>	
	AAS 225th Meeting, Seattle, Washington	January 6, 2015
	<i>Finding A Cosmic Bulk Flow</i>	
Publications	GSU 6th Annual Research Symposium, Notre Dame	February 27, 2014
	<i>Determining the Location of a Radioactive Source in MAJORANA DEMONSTRATOR</i>	
	APS, Division of Nuclear Physics, Michigan State University	October 27, 2011
	<i>Detectability of Cosmic Dark Flow in the Type Ia Supernova Redshift-Distance Relation</i>	
	Mathews, G.J., Rose, B. M. , Garnavich, P., et al. 2016 ApJ 827 60	
	<i>The New Eclipsing CV MASTER OTJ192328.22+612413.5: A Possible SW Sextantis Star</i>	
	Kennedy, M. R., Callanan, P., Garnavich, P. M., et al. 2016, AJ, 152, 27	
	<i>Constraints on the Birth of the Universe and Origin of Cosmic Dark Flow</i>	
	Mathews, G. J., Gangopadhyay, M. R., Garnavich, P., Rose, B. M. , et al. 2015 Int. J. Mod. Phys. A, 30, 1545022	
	<i>High-Amplitude, Rapid Photometric Variation of the New Polar MASTER OT J1321</i>	
	Littlefield, C., Garnavich, P., Magno, K., et al. 2015, Information Bulletin on Variable Stars, 6129, 1	