

Benjamin Rose

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

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

574.387.3453
brose3@nd.edu

Education	5rd year Ph.D. Student University of Notre Dame, Notre Dame, IN Advisor: Peter Garnavich	
	B.S. in Physics cum laude Whitworth University, Spokane, WA Minor: Mathematics	May 2012
Observational Experience	Vatican Advanced Technology Telescope (VATT) Mount Graham International Observatory <ul style="list-style-type: none">June 27, 2014 - July 1, 2014	
Activities & Outreach	Graduate Physics Society , Executive Board Member	2015 - present
	American Astronomical Society , Junior Member	2014 - present
	Graduate Student Union , Physics Department Representative	2013 - 2014
	American Physical Society , Member	2011 - 2014
	Notre Dame Summer Band	2013 & 2014
	Whitworth University Wind Symphony	2009 - 2012
Awards	Physics Outreach <ul style="list-style-type: none">Worked with middle school students on high altitude weather balloon experiments.Developed & built radiation, ozone detector systems, and temperature sensors.	Spring 2012
	Club Treasurer , Whitworth University	2009 - 2011
	Notebaert Professional Development Award , Notre Dame	2015
	GSU Conference Presentation Grant , Notre Dame	2015
	Poster Grant , GSU 6th Annual Research Symposium	2014
	Presidential Scholarship , Whitworth University	2008 - 2012
Computer Skills	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
	Laureate Society , Whitworth University <ul style="list-style-type: none">Having a semester GPA of 3.75 or greater	4 semesters
	Daily Use: Python, git, Astropy, L ^A T _E X, Markdown, OS X Proficient: Jekyll, Jupyter, pandas, Linux Basic Knowledge: Windows, C++, ROOT, Mathematica, MATLAB, Javascript Some Experience: LabVIEW, Apple Script, Julia, Parallel Computing, Swift	

Talks	<p>Searching For a Cosmic-scale Dark Flow 2015 APS Prairie Section Meeting The University of Notre Dame South Bend, IN</p> <p>Finding A Cosmic Bulk Flow 2014 GPS Spring Conference The University of Notre Dame South Bend, IN</p> <p>Determining the Location of a Radioactive Source in MAJORANA DEMONSTRATOR</p>	<p>November 20, 2015</p> <p>April 28, 2014</p> <p>August 2, 2011</p>
	<p><i>Research Experience for Undergraduates Culminating Talks</i> Duke University Durham, NC</p> <ul style="list-style-type: none"> • APS style presentation of summer research 	
	<p>Poster Presentations</p> <p><i>Correlating Type Ia Supernova Properties with Their Local Environment Using HST Snapshots of Host Galaxies.</i> Rose, B., & Garnavich, P. AAS 227th Meeting, Kissimmee, FL. January 6, 2016</p> <p><i>Prospects for Detecting a Cosmic Bulk Flow.</i> Rose, B., Garnavich, P., Mathews, G. J. AAS 225th Meeting, Seattle, WA. January 6, 2015</p> <p><i>Finding A Cosmic Bulk Flow.</i> Rose, B., Garnavich, P., Mathews, G. J. Graduate Student Union 6th Annual Research Symposium, University of Notre Dame, South Bend, IN. February 27, 2014</p> <p><i>Determining the Location of a Radioactive Source in MAJORANA DEMONSTRATOR</i> Rose, B. APS, Division of Nuclear Physics. Michigan State University, East Lansing, MI. October 27, 2011</p>	
Publications	<p>Detectability of Cosmic Dark Flow in the Type Ia Supernova Redshift-Distance Relation. Mathews, G.J., Rose, B., Garnavich, P., et al. 2016 ApJ 827 60.</p> <p>The New Eclipsing CV MASTER OTJ192328.22+612413.5: A Possible SW Sextantis Star. Kennedy, M. R., Callanan, P., Garnavich, P. M., et al. 2016, AJ, 152, 27</p> <p>Mathews, G. J., Gangopadhyay, M. R., Garnavich, P., Rose, B., et al. Int. J. Mod. Phys., A30, (2015)</p> <p>High-Amplitude, Rapid Photometric Variation of the New Polar MASTER OT J1321. Littlefield, C., Garnavich, P., Magno, K., et al. 2015, Information Bulletin on Variable Stars, 6129, 1</p>	