Landon Lehman

Contact Information	Department of Physics University of Notre Dame 320A Nieuwland Science Hall Notre Dame, IN 46556 USA	Phone: 574-807-9129 E-mail: llehman@nd.edu Website: landonlehman.com	
Education	University of Notre Dame, Notre Dame, IN		
	Ph.D. candidate, August 2015 to present		
	M.S., Physics, August 2015		
	Adviser: Adam Martin		
	Graduate student, August 2012 to present		
	Purdue University, West Lafayette, IN		
	B.S., Physics, May 2012		
	Minor in Mathematics		
	Vincennes University, Vincennes, IN		
	Enrolled in Chemistry and Secondary Science Ed. progams		
	Transferred to Purdue University in 2010		
PUBLICATIONS	 [1] Landon Lehman and Adam Martin. "Low-derivative operators of the Standard Model effective field theory via Hilbert series methods." arxiv:1510.00372. Journal of High Energy Physics, Volume 2016, Issue 2. doi: 10.1007/JHEP02(2016)081. 		
	[2] Landon Lehman and Adam Martin. "Hilbert Series for Constructing Lagrangians: Expanding the phenomenologist's toolbox." arxiv:1503.07537. Physical Re- view D 91, 105014 (2015). doi: 10.1103/PhysRevD.91.105014.		
	[3] Landon Lehman. "Extending the Standard Model Effective Field Theory with the Complete Set of Dimension-7 Operators." arxiv:1410.4193. Physical Review D 90, 125023 (2014). doi: 10.1103/PhysRevD.90.125023.		
	 [4] Joseph Bramante, Antonio Delgado, Landon Lehman, and Adam Martin. "Boosted Higgses from chromomagnetic b's: BSM bbh at high luminosity." arxiv:1410.3484. Physical Review D 93, 053001 (2016). doi: 10.1103/PhysRevD.93.053001. 		
	[5] Joseph Bramante, Sean Downes, Landon Lehman, and Adam Martin. "Clearing the Brush: The Last Stand of Solo Small Field Inflation." arxiv:1405.7563. Physical Review D 90, 023530 (2014). doi: 10.1103/PhysRevD.90.023530.		
	[6] Carlos Alvarado, Landon Lehman, and Bryan Ostdiek. "Surveying the Scope of the $SU(2)_L$ Scalar Septet Sector." arxiv:1404.3208. Journal of High Energy Physics, Volume 2014, Issue 5. doi: 10.1007/JHEP05(2014)150.		

Talks	 "Taking the Measure of Effective Field Theories." Physics Seminar, University at Buffalo, The State University of New York, March 1, 2016. 		
	[2] "Generating functions for EFT operators." APS Prairie Section Fall Meeting 2015, University of Notre Dame, November 21, 2015.		
	[3] "Generating functions for EFT operators." Composite Higgs Program, Fermilab (Fermi National Accelerator Laboratory), October 28, 2015.		
	[4] "Hilbert Series for Constructing Lagrangians." Phenomenology 2015 Symposium, University of Pittsburgh, May 4, 2015.		
	[5] "Surveying the Scope of the $SU(2)_L$ Scalar Septet Sector." 2014 Spring GPS Con- ference, University of Notre Dame Department of Physics, April 28, 2014.		
Teaching Experience	Purdue University, West Lafayette, IN		
	Math Teaching Assistant	Fall 2011	
	Taught a computer lab for MA 366 (Ordinary Differential Equations).Students used Matlab and Maple to work with differential equations.Graded weekly assignments.		
	Physics Help Center Tutor	Spring 2011 and Fall 2011	
	 Tutored for PHYS 172 (Modern Mechanics). Tutored for PHYS 272 (Electric and Magnetic Interactions). Identified common misconceptions. Provided understandable explanations of physics concepts. 		
	University of Notre Dame, Notre Dame, IN		
	ROTC Physics and Math Tutor	Fall 2015 to Fall 2016	
	Provide weekly tutoring sessions for ROTC cadets.Answer questions and provided instruction regarding introductory physics and math courses.		
	Physics Lab Teaching Assistant	Fall 2016	
	 Assist students in carrying out physics labs. Grade lab reports. Explain concepts of experimental design to guide students in understanding physics. 		
	physics.		
Undergraduate Research	Purdue University, West Lafayette, IN		
	Partial differential equations research	Summer and Fall 2011	
	 Supervised by Dr. Svitlana Mayboroda (currently at University of Minnesota) Numerical simulation of Anderson localization with MATLAB Learned about eigenvalue problems in infinite-dimensional vector spaces 		
	Atomic and optical physics research	Summer and Fall 2011	
	 Supervised by Dr. Daniel Elliott Studied electric and magnetic interactions drivin Worked with vacuum system, lasers, optical sysment 	ng transitions in cesium tems, and machine shop equip-	

Awards

University of Notre Dame

- Arthur J. Schmitt Leadership Fellowship in Science and Engineering
- Society of Schmitt Fellows website