

Nuclear Physics Seminars –2018

In 2018 the Nuclear Physics Seminar Series and High Energy Physics/Astro Seminar Series were combined, and all seminars were held on **Mondays at 4:00 pm** in MES Hall North Large Conference Room, unless otherwise noted.

Date	Speaker	Title	Host
January 8	SPRING SEMESTER COMMENCES		
Thursday, February 1, 4:00 pm	Alan McIntosh, Texas A&M Cyclotron Institute	<u>"Equilibration Chronometry: Resolving Neutron-Proton Equilibration with Sub-zeptosecond Time Resolution"</u>	Romualdo de Souza
Monday, February 19	Fernanda Psihas, Indiana University	HIGH ENERGY PHYSICS SEMINAR Doctoral Defense "Measurement of Long Baseline Neutrino Oscillations and Improvements from Deep Learning"	
March 10-18	SPRING BREAK		
Monday, March 26	Todd Pedlar, Luther College	HIGH ENERGY PHYSICS SEMINAR <u>"Spectroscopy of Bottomonium and Related States at Belle and Belle II"</u>	Matt Shepherd
March 30	Minerba Betancourt, Fermilab	<u>"Latest results of Quasi-Elastic Scattering from the MINERvA experiment"</u>	Rex Tayloe
Monday, April 2	Teresa Lackey, Indiana University	HIGH ENERGY PHYSICS SEMINAR Candidacy Seminar <u>"The NOvA Test Beam Program"</u>	
April 6	Daniel Salvat, University of Washington	<u>"MuSun: Precision muon capture on the deuteron"</u>	Chen-Yu Liu
Monday, April 9	Keri Vos, University of Siegen	HIGH ENERGY PHYSICS SEMINAR <u>"CP Violation in three-body B meson decays"</u>	Emilie Passemar
April 13	Ivan Tolstukhin, Matthew Heath, Zidu Lin and others	APS Practice talks	
April 20	Sergi Gonzalez-Solis, Institute of Theoretical Physics, CAS, Beijing	<u>"η' -> $\eta\pi\pi$ decays in unitarized resonance chiral theory"</u>	Emilie Passemar
Monday, April 23	Micah Groh, Indiana University	HIGH ENERGY PHYSICS SEMINAR Candidacy Seminar "NOvA Reconstruction and Deep Learning"	
April 30	Johnathon Jordan, University of Michigan	HIGH ENERGY PHYSICS SEMINAR <u>"First Measurement of Monoenergetic Neutrino Charged Current Interactions"</u>	Jon Urheim
April 30-May 4	FINALS WEEK		

Thursday, May 31, 3:30 pm	Gwen Gilardy, Notre Dame University	<u>"Measurement of $7\text{Li}(a,g)11\text{B}$ cross section at Notre Dame"</u>	Romualdo de Souza
Friday, June 22, 1:00 pm	Prawal Mohanmurthy, Massachusetts Institute of Technology	<u>"NStar: Searching for Mirror Neutron-Neutron Oscillations"</u>	Chen-Yu Liu
Thursday, July 12, 2:00 pm	Avraham Gal, Hebrew University, Jerusalem	<u>"Structure and Width of the $d^*(2380)$ Dibaryon"</u>	Tim Londergan
Monday, July 23, 4:00 pm	Daniel Moser, Stefan Meyer Institute for Subatomic Physics, Vienna	<u>"Austrian Contributions to Neutron Beta Decay Experiments"</u>	Emilie Passemar
Tuesday, July 24, 4:00 pm	Austin Reid, North Carolina State University	<u>"Origami Folded Cryogenic Actuators and Metamaterials"</u>	Chen-Yu Liu
Wednesday, July 25, 4:00 pm	Robert Cooper, New Mexico State University	<u>"A Sterile Neutrino Search with the CAPTAIN-Mills Detector at the Los Alamos Neutron Science Center"</u>	Mike Snow
Wednesday, August 8, 4:00 pm	Pinghan Chu, Los Alamos National Lab	<u>"Search for Axions"</u>	Chen-Yu Liu
August 20	FALL SEMESTER COMMENCES		
September 17. MES Hall NLCR	Austin Reid, Indiana University	<u>"Developing a hyperpolarized 3He source for a neutron electric dipole moment search"</u>	Mike Snow
October 1 SW214	Rex Tayloe, Indiana University	<u>"Latest results on neutrino oscillations from MiniBooNE"</u>	
October 8 MES Hall NLCR	Dave Hancock and Robert Ping, Advanced Cyberinfrastructure, UITS Research Technologies	<u>"Cyberinfrastructure for research and advanced computing"</u>	Rex Tayloe
October 15, SW214	Dmitri Denisov, Fermilab	<u>"Particles Colliders: Past, Present and Future"</u>	
POSTPONED October 22, SW214	**POSTPONED** Jen Raaf, Fermilab	"High Pressure Gas TPC for DUNE Near Detector"	
October 29 SW214	Yuzhi Liu, Indiana University	"Lattice QCD calculations for form factors in B_s decay to K/ν "	
November 5, SW214	Colin Gleason, IU Physics	GlueX/tba	
November 12, MES Hall NLCR 3:00 pm	Rekam Giri, Ohio University	<u>"Measurements of the $^{12}\text{C} + \alpha$ capture cross section and its importance in nucleosynthesis"</u>	Romualdo de Souza
November 12, SW214, 4:00 pm	Valery Nesvizhevsky, ILL, Grenoble	<u>"Gravitational Quantum States of Neutrons, Atoms and Antiatoms"</u>	Mike Snow
Thursday, November 15, 4:00 pm,	Yi Chen, University of Washington	<u>"Axion-like dark matter detection with mercury-199 atoms"</u>	Chen-Yu Liu

MES Hall NLCR			
November 17-25	THANKSGIVING BREAK		
November 26 SW214	Erica Smith, Indiana University	"Recent Results from NOvA"	
Thursday, November 29, 4:00 pm, SW236	Javier Virto, Massachusetts Institute of Technology	<u>"Non-local effects and Anomalies in B physics"</u>	Emilie Passemar
December 3 SW214	Jack Jenkins, IU Physics	Candidacy seminar: "Taming non-perturbative effects in rare B decays"	Enrico Lunghi
December 10-14	FINALS WEEK		