

REU SYMPOSIUM ❖ AUGUST 1, 2014 ❖ JORDAN HALL OF SCIENCE ROOM 322

TIME	SPEAKER(S)	TITLE
9:00	Hyatt	Modeling the Accretion and Feedback Rates of Galaxies Similar to the Milky Way
9:13	Paggen	Filaments: Understanding the Math that Defines them
9:26	Rivera-Torres	Fluid Dynamics - From Helping Messi Goal to Modeling the Evolution of a Galaxy
9:39	Sauer	Implementation of OpenACC for GPU Acceleration of Hydrodynamic Code
9:52	McNanna	Natural orbitals for a two-particle system in one dimension as a testbed for use in the nuclear many-body problem
10:05	Saroni	Analysis of schematic one-level and two-level nuclear shell models
10:18	St. Germaine-Fuller	Coupling Algorithm for Sp(3,R) Irreducible Representations
10:30		BREAK
10:45	Fasano	Modernizing Plunger Control with Low-cost Digital Electronics
10:58	Khouw	Nuclear Data Made Easy with the Notre Dame Nuclear Database
11:11	Lowe	Measurements of Internal Conversion Electron Emission Cross-Sections for 154, 156, 157Gd
11:24	Abergo	Characterization of thin foils as target materials for nuclear reactions
11:37	Huestis	Modal noise mitigation in optical fibers with small circular diameters
12:03	Liu	Search for Gamma-Ray Sources from a Measurement of the Muon Angular Distribution with High Statistics.
11:50	Hao	Gamma-ray Burst Analysis in Project GRAND and Flares Seeking in UW Crb
12:15		LUNCH
2:00	Bell/Luck	Plasmid DNA Damage Induced by Helium and Oxygen Atmospheric Pressure Plasma Jet
2:13	Courtwright	Investigating the Magnetic Properties of Metal/Semiconductor Hybrid Samples
2:26	Leishman	Accelerating the Analysis of SANS of Superconducting Vortex Lattices
2:39	Howard	Study of the pure double folding optical model for 100 MeV/u deuteron scattering
2:52	Morgan	Analyzing Deuteron Scattering at 100 MeV/u Through Optical Model Parameters
3:05	Guerin/Riordan	Graphitization Line for AMS Measurement of Carbon-14
3:18	Votaw	Finding the optimal parameters for use of a position-sensitive ionization chamber
3:30		BREAK
3:58	Bustos-Ramirez	How to produce slow radioactive ion beams
3:45	Nicoloff	Simulating a Multi-Reflection Time-of-Flight Mass Spectrograph for the Purification of Radioactive Isobars
4:11	Gervais	Alignment Sensitivity Study of the St. ANA Beam Line
4:24	Wilson	High Purity Germanium Detectors and Angular Distribution of $^{27}\text{Al}(p,\gamma)^{28}\text{Si}$
4:37	Jia	Beamline optimization for Long Baseline Neutrino Experiment
4:50	Koutsares	Search for Higgs Bosons in Association with Top Quark Pairs decaying into Hadronic Taus
5:03	Moran	Search for a Higgs-Top Quark Pairing in the Opposite-Charged Dilepton Channel
5:15		CLOSING