

2018 REU Symposium Schedule

9:00	Fussell, Rebeckah	Simulating an interdependent network of fibroblasts and heart cells
9:15	Liu, Baiting	Electromechanical activities in cardiomyocytes with death
9:30	Nnaji, Moses	A systematic study of GaMnAsP-based magnetic tunnel junctions
9:45	Cheng, Zhiyuan	Controlling transport with strains
10:00	Sarmiento, Andrea	Atmospheric neutrinos with Deep Underground Neutrino Detector
10:15	Eastman, Emi	Using particle-induced gamma-ray emission spectroscopy to detect fluorinated substances in personal care products
10:30	McCarthy, Mallory	Production of ^{149}Tb for medical diagnostics and treatment
		BREAK
11:00	Churchman, Emily	Using HECTOR for cross section measurements of $^{102}\text{Pd}(p,\gamma)$
11:15	Tollefson, Aidan	Advances in Time Projection Chamber Design for Nuclear Reaction and Nuclear Structure Detection
11:30	Williams, Connor	$^{35}\text{Cl}(^3\text{He},^2\text{p})^{36}\text{Cl}$ Cross Section Predictions: Early Solar System Irradiation Effects on Short-Lived Radioisotope Production
11:45	Drennan, Zach	Preparation of Rhinoceros extended gas target for future experiments
12:00	Campagna, Quinn	Optimization of the ND MR-TOF
12:15	Applegate, Noah	Redesigning and testing silicon detector array for Twinsol and SSNAPS
		LUNCH
1:30	Power, Robert	Truncation of ab initio nuclear interactions
1:45	Wang, Xianfeng	Reconstruction of HIPPO Supersonic Gas Jet Target
2:00	Zastrocky, Theodora	Using spectral stacking to probe the baryonic mass of the milky way halo with Fe XIV absorption
2:15	Wells, Tino	Investigating r-process absorption signatures in stellar spectra to expedite classification process
2:30	Hoang, Phuong	Supernova progenitor with light elements abundances in r-process enhanced stars
2:45	Canizares, Alberto	Analysis of the cataclysmic variable GY CNC light curve over two K2 campaigns
		BREAK
3:15	Nguyen, Max	Thymine deposition onto Gallium Arsenide and changes in the surface properties
3:30	Jammeh, Kemo	Investigating the dependence of atmospheric pressure plasma jet (APPJ)-induced damage on the frequency of voltage pulses
3:45	Yang, Hulin	Constructing and developing the instrumentation for DEA study
4:00	Greif, Kevin	Bend Consistency Cut performance in the CMS Detector L1-trigger upgrade
4:15	McGrady, Eddie	Using particle interaction simulations to understand tracker efficiency for the phase II high luminosity upgrade on the CMS experiment
4:30	Emison, Brooke	On the effect of increased luminosity on stubs per jet and algorithm efficiency