CASST 2024

Monday, August 19, 2024

Presentations: Session I ..... Juliette Deloye - Classroom Building, Room C-203 (10:50 AM - 12:30 PM)

time	[id] title	presenter
10:50 AM	[9] All hands on DEAP	BUI, Trang
11:00 AM	[11] External AmBe Calibrations in SNO+	O'NEILL, Cody
11:10 AM	[46] Building database for HELIX	SUN, Kaan
11:20 AM	[20] Bringing Astroparticle Physics to the Classroom	ACRES, Emma
11:30 AM	[22] The Search for Long-Lived Particles: Construction of MATHUSLA Detector Test Stand	LAU, Alex
11:40 AM	[16] Cooling the nEXO Photomultiplier Tube Testing Setup and Improving Data Analysis Scripts	PAROSKI, Lazar
11:50 AM	[39] Low Energy Excess Characteristics for CUTE HVeV	TOPP-JOHNSON, Emilia
12:00 PM	[33] Characterization and Mitigation of Decoherence Sources in Superconducting Qubits	AHMED, Yusuf

Presentations: Session II ..... Matt Depatie - Classroom Building, Room C-203 (1:45 PM - 3:15 PM)

time	[id] title	presenter
1:45 PM	[23] Development of advanced photon-detection techniques for neutrinoless double beta decay studies with nEXO.	RASCHETTI, Eliot
1:55 PM	[13] Developing Machine Learning Techniques for Particle Flow in the ATLAS Experiment	HIMMENS, Joshua
2:05 PM	[6] SNO+ and Radon	PALESHI, Keegan
2:15 PM	[34] DEAP-3600 Hardware Upgrades and Verifying the Energy Reconstruction in Data Reprocessing	IQBAL, Ayesha
2:25 PM	[43] Room Temperature SiPM Charcterization for use in HAICU	CHARLESWORTH, Zach
2:35 PM	[35] Are Supermassive Stars in Primordial Halos a Source of Observable Gravitational Waves?	Mr THIBAULT, Florent
2:45 PM	[18] Staying Cool, The Thermoelectric Cooling of SiPMs	HACOT-SLONOSKY, Julien

Presentations: Session III ..... Ryan Bayes - Classroom Building, Room C-203 (3:35 PM - 5:30 PM)

time	[id] title	presenter
3:35 PM	[3] Measurements of a Magnetically Shielded Room for a Neutron EDM Experiment	HEPWORTH, Thomas
3:45 PM	[28] Simulating In-Orbit Performance for the CASTOR Telescope.	NAQVI, Wasi
3:55 PM	[41] Modeling Trigger Delay of the SuperCDMS experiment.	WU, Tom

4:05 PM	[25] Luminescence Testing of Materials in the Scintillating Bubble Chamber Experiment	HAYES, Alex
4:15 PM	[8] SNO+ Neck Events Analysis	ZHOU, Nelson
4:25 PM	[24] Development of a barium tagging technique for the future nEXO detector	DE LA CRUZ NAVARRO, Emilio Yahir
4:35 PM	[17] DDA Quantification and Umbilical Cleaning	LEVESQUE, Danica
4:45 PM	[29] Performance Evaluation of Radon Monitors with SNOLAB and Health Canada	Mr VICOL, Alexander
4:55 PM	[45] Studies on the temperature dependent drift velocity for the HELIX Drift Chamber Tracker	BARSKY-GILES, Gabrielle

Tuesday, August 20, 2024

Presentations: Session IV ..... Pierre Gorel - Classroom Building, Room C-203 (8:45 AM - 10:45 AM)

time	[id] title	presenter
8:45 AM	[32] Construction and Testing of PICO-500 Muon Veto Calibration System	GREENALL, Emma
8:55 AM	[36] Flasher Events; The Analysis of a Potentially Problematic Background in the DEAP3600 Dark Matter Search	POSER, Matt
9:05 AM	[26] DEAP-3600: Hardware Upgrades and 'Flasher' event Analysis	SHAH, Aarchi
9:15 AM	[12] Lucas Cell Simulation using Geant4	SUYS, Justin
9:25 AM	[21] SNO+ Americium-Beryllium Source Calibration and Simulation	FENLON, Noah
9:35 AM	[27] Chroma Simulation of SiPM Stave Testing for nEXO	GÉLINAS, Sophie
9:45 AM	[40] DEAP-3600 Hardware Upgrades & Liquid Level Estimation Using PMT Rates	MACDONALD, Rory
9:55 AM	[31] SNO+ Transfer Station	KAINTH, Gurpreet
10:05 AM	[47] Machine Learning for Event Position Reconstruction in Germanium Detectors	CALLJEJA, Mary
10:15 AM	[10] Beyond the Classroom: Investigating Gendered Imposterism in Undergraduate Physics	JEKIC, Katharine

Presentations: Session V ..... Mark Ward - Classroom Building, Room C-203 (1:15 PM - 3:15 PM)

time	[id] title	presenter
1:15 PM	[14] Ab initio Combined Neutrino Mass Limits	SHICKELE, Taiki
1:25 PM	[37] Optimizing the TUCAN Experiment for Precision Measurements of Ultracold Neutron (UCN) Properties	Mr DRURY, Kyle
1:35 PM	[30] Further analysis with metric-affine f(R) gravity	HASAN DEJRAH, Rafid
1:45 PM	[44] Machine Learning Meets Ancient Geology in the search for dark matter	CHEBET, Sharleen
1:55 PM	[19] Background mitigation for the SNO+ experiment	CAO, Jiarui
2:05 PM	[5] DEAP3600 Hardware Upgrades and Lightyield Automation	MONK, Cheyanne
2:15 PM	[38] Diffuser Ball Light Simulations: An Analysis of Geometry, Optical Properties and Isotropy	NITU, Irina
2:25 PM	[42] Stepping Up Precision: Automated SiPM Characterization for the nEXO Experiment	CHAMPAGNE, Grace
2:35 PM	[15] Argon removal from liquid nitrogen using zeolites	CABRAL, Franco
2:45 PM	[7] Observation of neutrino flux from Supernovae and the Sun with semiconductor cryogenic detectors.	PACHECO, Rodrigo