

CPAD Instrumentation Frontier Workshop 2021

Thursday, March 18, 2021

Noble Elements: Noble Elements - 1 (12:00 PM - 1:40 PM)

-Conveners: Jennifer Raaf; Jonathan Asaadi

time	[id] title	presenter
12:00 PM	[10] A Digital Tension Measurement Device for Multi-Wire Particle Detectors	KUBOTA, Shion
12:20 PM	[11] Measuring trace krypton for the LUX-ZEPLIN dark matter search	SILK, John
12:40 PM	[11] Modeling Impurity Concentrations in Liquid Argon Detectors	LI, Yichen LI, Yichen
1:00 PM	[102] Purity monitoring for ProtoDUNE-SP	WU, Wenjie
1:20 PM	[16] Low-energy Monoenergetic Neutron Production with a DD-Neutron Source for sub-keV Nuclear Recoil Calibrations in the LUX and LZ Experiments	TAYLOR, Will

Noble Elements: Noble Elements - 2 (2:00 PM - 4:00 PM)

-Conveners: Jonathan Asaadi; Jennifer Raaf

time	[id] title	presenter
2:00 PM	[182] Scintillation and Optical Properties of the Low-Background Scintillator, PEN	Mrs HACKETT, Brennan
2:20 PM	[28] Wavelength-Shifting Performance of Polyethylene Naphthalate Films in a Liquid Argon Environment	DORRILL, Ryan
2:40 PM	[133] Light production in liquid and gaseous argon	Dr OURIVIO ESCOBAR, Carlos
3:00 PM	[93] Improving the Proportional Scintillation Signal of Liquid Argon by Xenon Doping	BERNARD, Ethan
3:20 PM	[40] Modeling xenon and argon physics with the Noble Element Simulation Technique (NEST)	VELAN, Vetri
3:40 PM	[143] Building low background kton-scale liquid argon time projection chambers for physics discovery	JACKSON, Christopher

Friday, March 19, 2021

Noble Elements: Noble Elements - 3 (12:00 PM - 1:40 PM)

-Conveners: Jonathan Asaadi; Jennifer Raaf

time	[id] title	presenter
12:00 PM	[M11] Augmented Signal Processing in Liquid Argon Time Projection Chambers with a Deep Neural Network	YU, Haiwang
12:20 PM	[P30] Using Photo-converting Dopants to Improve Large LArTPC Performance	ZENNAMO, Joseph
12:40 PM	[P54] QPIX, a novel pixel technology for very large noble element detectors	MCDONALD, Austin
1:00 PM	[M137] High pressure gas TPC technology for neutrinoless double beta decay searches: The NEXT program	HAEFNER, Jonathan
1:20 PM	[M13] Metastable Liquids: Breakthrough Technologies for Dark Matter and Neutrinos	Prof. SZYDAGIS, Matthew

Noble Elements: Noble Elements - 4 (2:00 PM - 3:10 PM)

-Conveners: Jonathan Asaadi; Jennifer Raaf

time	[id] title	presenter
2:00 PM	[M19] Designing and building a pair of scintillating bubble chambers for WIMPs and reactor CEvNS	COPPEJANS, Rocco
2:25 PM	[M13] HeRALD - light dark matter search with superfluid Helium-4	LIN, Junsong