



# CPAD Workshop 2022

## Tuesday, 29 November 2022

### WG3: Noble Element Detectors - Theater (11:30 - 12:30)

-Conveners: Scott Hertel; Elena Gramellini; Chris Stanford

time	[id] title	presenter
11:50	[110] Controlling the Stability of Xenon-Doped Argon Mixtures	BERNARD, Ethan
12:10	[101] Capacitive Monitoring of Xenon Concentration in a Xenon-Doped Argon Detector	Mr KINGSTON, James

### WG3: Noble Element Detectors - Lecture Hall 2 (13:30 - 15:30)

-Conveners: Chris Stanford; Scott Hertel; Elena Gramellini

time	[id] title	presenter
13:30	[23] Kiloton-scale xenon detectors for neutrinoless double beta decay	MOORE, David
13:50	[30] Development of a Single Phase Liquid Xenon Detector for Reactor Antineutrino Detection	QI, Jianyang
14:10	[63] The DarkSide experimental program: dark matter direct detection with dual-phase argon TPCs	SAVARESE, Claudio
14:30	[175] Signal over fiber and power over fiber transmission: a new concept for the PDS in DUNE VD	TOTANI, D

# Wednesday, 30 November 2022

## **WG3: Noble Element Detectors - Lecture Hall 2 (08:30 - 10:10)**

-Conveners: Scott Hertel; Elena Gramellini; Chris Stanford; Scott Hertel

time	[id] title	presenter
08:30	[32] LZ Electron Recoil Calibrations and NEST-Based Simulations	SZYDAGIS, Matthew
08:50	[52] Application of a DD-Neutron Source for Low-Energy Nuclear Recoil Calibrations in the LZ Experiment	VAITKUS, Austin
09:10	[151] The TRANSLATE (simulation models the TRANSport in Liquid Argon of near-Thermal Electrons) simulation package and the LARCADE Project	CARATELLI, David
09:30	[167] What surfaces in noble liquid dark matter detectors “Fifty shades of the dark”	PEREVERZEV, Sergey
09:50	[29] A Hybrid 3D/2D Field Response Calculation for Liquid Argon Detectors with PCB Based Anode	MARTYNENKO, Sergey

## **WG3: Noble Element Detectors - Lecture Hall 1 (10:35 - 12:35)**

-Conveners: Elena Gramellini; Scott Hertel; Chris Stanford

time	[id] title	presenter
10:35	[47] CrystaLiZe: A Solid Future for LZ	CHEN, Hao
10:55	[123] Scintillating Bubble Chambers for Rare Event Searches	BROERMAN, Benjamin
11:15	[161] Nucleation efficiency of a liquid xenon bubble chamber	DURNFORD, Daniel
11:35	[21] The Snowball Chamber: Supercooled Water for Dark Matter, Neutrinos, and General Particle Detection	SZYDAGIS, Matthew
11:55	[71] The stability of HPK VUV4 SiPMs following a large dose of VUV radiation	DARROCH, Lucas
12:15	[173] Calibrating the scintillation and ionization responses of xenon recoils for high-energy dark matter searches	PERSHING, Teal

# Thursday, 1 December 2022

## **WG3: Noble Element Detectors - Theater (08:30 - 10:10)**

-Conveners: Chris Stanford; Elena Gramellini; Scott Hertel

time	[id] title	presenter
08:30	[89] Measurement of electron in-liquid amplification in pure argon	MU, Wei
08:50	[165] Delayed Electron Emission in DarkSide-50	BERZIN, Elizabeth
09:10	[126] Non-VUV luminescence of liquid and gaseous argon	Dr KISH, Alexander
09:30	[149] Effects of Ionisation Electron Diffusion on Calibrations in LArTPCs	LISTER, Adam
09:50	[172] LAr Doping R&D for Low Energy Sensitive LArTPCs	PSIHAS, Fernanda

## **WG3: Noble Element Detectors - Theater (10:35 - 12:35)**

-Conveners: Scott Hertel; Elena Gramellini; Chris Stanford

time	[id] title	presenter
10:35	[49] Capabilities of the SBND Trigger System	STANCARI, Michelle
10:55	[104] The CRAB-0 Demonstrator Detector for Camera-Based Track Imaging in Xenon Gas	PARMAKSIZ, ilker
11:15	[125] Development of a barium tagging sensor for NEXT neutrinoless double beta decay searches	NAVARRO, Karen
11:35	[87] Q-Pix: Charge Readout Design and Prototyping	ASAADI, Jonathan
11:55	[145] LArPix and LightPix: highly-scalable, cryogenic readout electronics	RUSSELL, Brooke