



# New Technologies for Discovery IV: The 2018 CPAD Instrumentation Frontier Workshop

## Sunday, 9 December 2018

### Parallel Session: Noble Element Detectors - 552A (13:30 - 15:30)

time	[id] title	presenter
13:30	[60] Micro-Pattern Gaseous Detector Technologies for Energy, Intensity and Cosmic Frontiers: an overview of the CERN-RD51 Collaboration	Dr TITOV, Maxim
14:00	[142] NEXt	Dr MARTÍN-ALBO, Justo
14:30	[86] Dual-Phase LArTPC R&D for neutrino physics	Dr CHATTERJEE, Animesh
15:00	[6] Recent results from R&D for the nEXO experiment	Prof. MOORE, David

# Monday, 10 December 2018

## **Parallel Session: Noble Element Detectors (13:30 - 15:28)**

**-Conveners: David Moore**

time	[id] title	presenter
13:30	[67] Q-Pix: Pixel-scale Signal Capture For Kiloton Liquid Argon TPC Detectors: Charge-Quantized Waveform Capture, Free-running Clocks, Dynamic Networks	Dr MEI, Yuan
13:52	[89] Xenon doping of Liquid Argon for astroparticle detectors	ZANI, Andrea
14:14	[69] Results of high voltage breakdown studies in liquid argon and xenon with XeBrA	Dr TVRZNIKOVA, Lucie
14:54	[105] Ultra-low Energy Calibration of the LUX detector with pulsed D-D neutrons and <sup>127</sup> Xe Electron Capture Events	Mr HUANG, Dongqing
15:09	[90] The Noble Element Simulation Technique (NEST) Version 2.0	RISCHBIETER, Gregory

# Tuesday, 11 December 2018

## **Parallel Session: Noble Element Detectors - 553A (08:00 - 10:00)**

time	[id] title	presenter
08:00	[48] Internal Calibration Source Injection Hardware for LZ	NEDLIK, Christopher
08:15	[103] Noble liquid detector R&D with the LZ System Test platform at SLAC	STIFTER, Kelly
08:40	[140] Recent Developments in Wavelength-Shifting Coatings for Noble Element Detectors	Prof. WHITTINGTON, Denver
09:05	[104] Summary of the R&D Results from Recent Analyses of LUX Xe TPC Data	TAYLOR, William
09:30	[24] Photosensors for the DarkSide-20k Experiment	GIOVANETTI, Graham

## **Parallel Session: Noble Element Detectors - 553A (10:30 - 12:30)**

time	[id] title	presenter
10:30	[56] Prototyping the world's largest liquid argon TPC: ProtoDUNE Single Phase	Dr BLASZCZYK, Flor de Maria
11:00	[88] High-Pressure Gas TPC for DUNE Near Detector	MOHAYAI, Tanaz
11:22	[49] ArgonCube: Novel R&D for LArTPCs	Dr DWYER, Dan
11:44	[21] New Developments in Micropower ASICs for 3D pixelated charge readout of liquid argon Time Projection Chambers	Dr GRACE, Carl
12:06	[74] Cold Electronics R&D	Dr CONVERY, Mark