



# 2019 Meeting of the Division of Particles & Fields of the American Physical Society

## Monday 29 July 2019

### Neutrino Physics - West Village G 104 (14:00 - 15:40)

-Conveners: Kendall Mahn; Peter Denton; Roxanne Guenette; Michelle Dolinski

time	[id] title	presenter
14:00	[206] Neutrino Oscillations In Matter	Dr DENTON, Peter
14:20	[160] New Oscillation Results from NOvA	BIAN, Jianming
14:40	[229] First results on ProtoDUNE-SP LArTPC performance from a test beam run at the CERN Neutrino Platform	YANG, Tingjun
15:00	[220] ProtoDUNE-SP Proton Analysis	Dr LIAO, Heng-Ye
15:20	[440] The ANNIE Experiment	Dr EISCH, Jonathan

### Neutrino Physics - West Village G 104 (16:00 - 18:00)

-Conveners: Peter Denton; Kendall Mahn; Roxanne Guenette; Michelle Dolinski

time	[id] title	presenter
16:00	[324] Measurement of The Neutron Cross Section on Argon by the Mini-CAPTAIN Detector	Mr MARTYNENKO, Sergey
16:15	[21] Elastic neutrino-electron scattering within the effective field theory approach	Dr TOMALAK, Oleksandr
16:30	[93] Removal Energies and Optical Potential in Lepton Nucleus Scattering	Mr CAI, Tejin
16:45	[120] Nucleon Binding Energy and Transverse Momentum Imbalance in Neutrino-Nucleus Reactions	Mr CAI, Tejin
17:00	[253] Measurements of Charged-Current Muon-Neutrino interactions on Argon at MicroBooNE	KIRBY, Michael
17:20	[298] High statistics results on quasi-elastic-like neutrino scattering from MINERvA	CARNEIRO, Mateus BASHYAL, Amit

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time	[id] title	presenter
14:00	[141] Sterile Neutrino Global Fits	CONRAD, Janet
14:20	[296] Searching for Muon Neutrino Disappearance at LSND Neutrino Energies with CCM	THORNTON, Remington
14:35	[343] Sterile Neutrino Search via Neutral-Current Disappearance with Antineutrinos in NOvA	WALLBANK, Michael
14:50	[425] Status of the ICARUS T600 Detector and its Physics Goals	Mr WILLIAMS, Zachary
15:05	[225] Recent results from MicroBooNE	Dr TANG, Wei

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time	[id] title	presenter
16:00	[359] Status of the MicroBooNE eLLE search and application of deep learning to LArTPC data	SHARANKOVA, Ralitsa
16:15	[278] MicroBooNE's Search for a Photon-Like Low Energy Excess	SUTTON, Kathryn
16:30	[477] Constraining the Neutral Current $\pi^0$ Background for MicroBooNE's Single-Photon Search	MOGAN, Andrew
16:45	[348] Compact Perturbative Expressions for Oscillations with Sterile Neutrinos in Matter	ZHANG, Xining
17:00	[338] The HUNTER Sterile Neutrino Search	CHANG, Eddie CHANG, Eddie
17:15	[439] A Search for Sterile Neutrinos with PROSPECT	Ms KYZYLOVA, Olga
17:30	[454] Measurement of the Reactor Antineutrino Spectrum from $^{235}\text{U}$ Fission using PROSPECT	SURUKUCHI, Pranava Teja
17:45	[198] Latest Results of the Antineutrino Flux and Spectrum from Daya Bay	Dr GU, Wenqiang

## Wednesday 31 July 2019

### Neutrino Physics - West Village G 104 (14:00 - 15:30)

-Conveners: Peter Denton; Michelle Dolinski; Roxanne Guenette; Kendall Mahn

time	[id] title	presenter
14:00	[11] Neutrino CP Violation with the ESSnUSB project	Dr DRACOS, Marcos
14:20	[161] Physics Goals of the IsoDAR Electron Antineutrino Experiment	Mr DUNTON, Edward
14:35	[412] Physics with the Upgraded Super-K Detector	KEARNS, Edward
14:55	[237] The DUNE BSM Physics Program	Dr MARTIN-ALBO, Justo
15:10	[368] New mechanism for light neutrino mass generation and its LHC signals	Prof. NANDI, Satyanarayan

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time	[id] title	presenter
16:00	[418] The current status and future prospects of KamLAND-Zen	Mr FU, Zhenghao
16:15	[399] Suppression of Cosmic Muon Spallation Backgrounds in KamLAND-ZEN Using Convolutional Neural Network	Mr LI, Aobo
16:30	[394] The search for neutrinoless double beta decay with EXO-200	POCAR, Andrea
16:50	[432] The nEXO Double-Beta Decay Experiment	MONG, Brian
17:10	[257] The NEXT Neutrinoless Double Beta Decay Experiment	Mr HAEFNER, Jonathan
17:25	[287] Barium Tagging for the NEXT Neutrinoless Double Beta Decay Experiment	Mr BYRNES, Nicholas
17:40	[327] The Search for Neutrinoless Double-Beta Decay at SNO+	LUO, Meng
17:55	[473] News from IUPAP Neutrino Panel	SCHOLBERG, Kate

# Thursday 1 August 2019

## Neutrino Physics - West Village G 104 (14:00 - 15:30)

-Conveners: Peter Denton; Roxanne Guenette; Kendall Mahn; Michelle Dolinski

time	[id] title	presenter
14:00	[271] The COHERENT Experiment	PERSHEY, Daniel
14:20	[252] COHERENT Plans for D2O detector at the Spallation Neutron Source	RAPP, Rebecca
14:35	[438] CEvNS with a liquid argon scintillation detector	Prof. TAYLOE, Rex
14:55	[323] The CEvNS Glow of a Supernova	SCHOLBERG, Kate
15:15	[106] Calorimetric Energy Measurement for Supernova Neutrinos using the DUNE Photon Detection System	PERSHEY, Daniel

## Neutrino Physics - West Village G 104 (16:00 - 18:05)

-Conveners: Michelle Dolinski; Roxanne Guenette; Peter Denton; Kendall Mahn

time	[id] title	presenter
16:00	[279] The NOvA Test Beam Program	SUTTON, Andrew
16:15	[234] Upgrade of the T2K Near Detector ND280	DOKANIA, Neha
16:35	[179] The DUNE near detector	YANG, Guang
16:50	[227] [Cancelled] The ArgonCube Experiment	ASAADI, Jonathan
17:05	[180] The 3DST Spectrometer as part of the DUNE Near Detector	YANG, Guang
17:20	[212] High-Pressure Gaseous Argon TPC for the DUNE Near Detector	Dr DUFFY, Kirsty
17:35	[244] Overcoming Neutrino Interaction Mis-modeling with DUNE-PRISM	PICKERING, Luke
17:50	[413] Modeling Impurity Concentrations in Liquid Argon Detectors	LI, Yichen