

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

Monday, July 29, 2019

Particle Detectors - West Village G 108 (2:00 PM - 3:30 PM)

-Conveners: **Guillermo Fernandez Moroni; Jeremy Mans; Bjoern Penning; Brian James Rebel**

time	[id] title	presenter
2:00 P	[M49] Upgrade of the CMS electromagnetic calorimeter barrel readout electronics for the High-Luminosity LHC	Prof. HIROSKY, Bob
2:18 P	[M00] Latest Results on the Radiation Tolerance of Diamond Detectors	BAENI, Lukas
2:36 P	[M29] CMS HL-LHC Pixel Detector Electronic Readout	BEAN, Alice
2:54 P	[M62] Test of Gigabit Transceiver ASIC with 34-AWG twin-axial cable for the ATLAS ITk Pixel detector	WANG, Peilong
3:12 P	[M90] Performance of new front-end electronics for the Phase-II upgrade of the ATLAS small-diameter Monitored Drift Tube detector	GUO, Yuxiang

Particle Detectors - West Village G 108 (4:00 PM - 6:00 PM)

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time	[id] title	presenter
4:00 P	[M37] The Innovative Design of the Endcap Disc DIRC for PANDA at FAIR	SCHMIDT, Mustafa Andre
4:18 P	[M66] ATLAS Run-2 Luminosity Measurements	ROSTEN, Rachel Christine
4:36 P	[M02] Results and prospects with the CMS-TOTEM Precision Proton Spectrometer	REBASSOO, Finn O'Neill REBASSOO, Finn O'Neill
4:54 P	[M52] The Physics of Precision Timing in CMS using the MIP Timing Detector	XIE, Si
5:09 P	[M17] Development of Crystal+SiPM Sensors for the CMS MTD Barrel Timing Layer	TANNENWALD, Benjamin
5:26 P	[M84] Precision Timing with the CMS Endcap Timing Layer for Phase 2	HELLER, Ryan
5:42 P	[M14] Characterization of Low Gain Avalanche Detectors for the CMS MIP Timing Detector	ABREU NAZARIO, Andres

Tuesday, July 30, 2019

Particle Detectors - West Village G 108 (2:00 PM - 3:35 PM)

-Conveners: **Guillermo Fernandez Moroni; Bjoern Penning; Jeremy Mans; Brian James Rebel**

time	[id] title	presenter
2:00 P	M101] The research and development of the DarkSide-20k detector	WANG, Yi
2:15 P	M160] Development and Testing of LZ's High Voltage Grids	Mr LINEHAN, Ryan
2:30 P	M197] Designing and Building a Scintillating LAr Bubble Chamber for WIMPs and reactor CEvNS	COPPEJANS, Rocco
2:45 P	M158] Development and characterization of noble solid bolometers	WEIGEL, Philip
3:00 P	M159] Current Status of the DESI Focal Plane System	YUTONG, Duan
3:15 P	M101] Cherenkov and scintillation separation using dichroic Winston cones	KAPTANOGLU, Tanner

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4:17 P	M186] Physics on the Fast Track: Incorporating global tracking into the ATLAS trigger	HOLMES, Tova Ray
4:35 P	M153] CMS Trigger in Phase-2	FREER, Chad Wells
4:52 P	M143] Level 1 Track Finder at CMS	HART, Andrew Evan
5:10 P	M157] A measurement of the position resolution of RD53A modules using the SLAC testbeam	ZHANG, Gang
5:27 P	M155] Development and Testing of the ATLAS ITk HCCStar ASIC	DANDOY, Jeff
5:43 P	M185] Mapping the CMS inner tracking system with unprecedented precision	KROPIVNITSKAYA, Anna

Wednesday, July 31, 2019

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-Conveners: **Guillermo Fernandez Moroni; Jeremy Mans; Brian James Rebel; Bjoern Penning**

time	[id] title	presenter
2:00 P	M04] A Cosmic Ray Veto Detector for the Mu2e Experiment at Fermila	EHRlich, Ralf
2:18 P	M40] A solar neutrino spacecraft detector	MEYER, Holger
2:36 P	M61] Nano-tracking detector for neutrinoless double beta decay characterization	BROWN, Ethan
2:54 P	M99] A High Pressure TPC with Optical Readout	Dr WALDRON, Abigail
3:12 P	M28] QPix Technology: Research and Development towards kiloTon scale pixelated LArTPC	ASAADI, Jonathan

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4:00 P	M06] Photosensor development for the IceCube upgrades	DEYOUNG, Tyce
4:18 P	M29] Detector R&D for ANNIE and Future Neutrino Experiments	Dr TIRAS, Emrah
4:36 P	M16] Detector Physics with MicroBooNE	CASTILLO, Raquel CASTILLO FERNANDEZ, Raquel
4:54 P	M97] Low Noise Front-End Cold Electronics System R&D for SBND LAr TPC	Dr GAO, Shanshan
5:12 P	M59] Liquid Argon TPC Trigger Development with SBND	KARAGIORGI, Georgia
5:30 P	M18] The protoDUNE-SP LArTPC Electronics Production, Commissioning and Performance	KIRBY, Brian

Thursday, August 1, 2019

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-Conveners: **Brian James Rebel; Jeremy Mans; Guillermo Fernandez Moroni; Bjoern Penning**

time	[id] title	presenter
2:00 P	M36] Review of Photodetector Technology: Status and Future Goals	WINSLOW, Lindley
2:18 P	M11] Developments on Skipper-CCD detectors for dark matter searches	Dr SOFO HARO, Miguel
2:36 P	M17] Large-area Si(Li) detectors for X-ray spectrometry and particle tracking for the GAPS experiment	ROGERS, Field
2:54 P	M09] Recent Advances on Calorimetry	RUSACK, Roger
3:12 P	M74] Calibration and Performance of the CMS Electromagnetic Calorimeter in LHC Run 2	MARZOCCHI, Badder

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4:00 P	M75] Gas Mixture Longevity Studies for the CMS Cathode Strip Chambers in Preparation of HL-LHC	Mr WISECARVER, Andrew
4:18 P	M17] Role of the CMS electromagnetic calorimeter in the measurement of Higgs boson properties at LHC Run 2 and projections for the HL-LHC with the CMS Phase-2 detector	SCHROEDER, Neil Raymond
4:36 P	M46] Optimizing the performance of the CMS ECAL trigger for Runs 2 and 3 of the CERN LHC	TISHELMAN CHARNY, Abraham
4:54 P	M16] The CMS ECAL Laser Monitoring system: study of crystal transparency loss and proposed upgrade for the High-Luminosity LHC	LENZI, Bruno
5:12 P	M03] ILD for the International Linear Collider	BRIENT, Jean-Claude
5:30 P	M42] CMS High Granularity Calorimeter for High Luminosity LHC	ALYARI, Maral