

CPAD Instrumentation Frontier Workshop 2021

Thursday, March 18, 2021

Photodetectors: SiPMs (12:00 PM - 1:40 PM)

-Conveners: Peter Krizan; Lindley Winslow

time	[id] title	presenter
12:00 P	[56] A SiPM for the readout of the fast component of barium fluoride	HITLIN, David
12:20 P	[30] Time resolution and efficiency of SPADs and SiPMs for photons and charged particles	WINDISCHHOFER, Philipp
12:40 P	[70] Nuisance Processes in p-on-n SiPMs	GALLINA, Giacomo
1:00 P	[21] Integration of mini TECs on the CMS MTD barrel timing layer 16 ch SiPM array to reduce the DCR after very high irradiation	HEERING, Adriaan

Photodetectors: Systems (2:00 PM - 4:00 PM)

-Conveners: Peter Krizan; Lindley Winslow

time	[id] title	presenter
2:00 P	[30] Increasing photodetector light collection with metalenses	STANFORD, Chris
2:15 P	[58] Thickness Uniformity of Amorphous Selenium Films Utilizing the University of California, Santa Cruz Fabrication Facility	ABBASZADEH, Shiva
2:30 P	[59] Transparent Thermoplastic Acrylic Scintillator	Dr WANG, JUIJEN
2:45 P	[96] 3D printing of photocurable scintillating and low-background materials	FEBBRARO, Michael
3:00 P	[04] A Novel Scintillator Detector for the Mu2e-II Experiment and a Muon Tomography Search for Hidden Chambers in the Great Pyramid	DUKES, E. Craig
3:15 P	[32] Spectral Photon Sorting with the Dichroicon in Large Neutrino Detectors	Dr LAND, Benjamin
3:30 P	[92] Theia Physics Potential	ASKINS, Morgan

Friday, March 19, 2021

Photodetectors: Shorter Wavelengths (12:00 PM - 1:40 PM)

-Conveners: Lindley Winslow; Peter Krizan

time	[id] title	presenter
12:00	P106 [P106] Large Area Picosecond Photo-Detectors (LAPPDs) for ANNIE and Future Neutrino Experiments.	Dr TIRAS, Emrah
12:14	P109 [P109] Recent results from the pixel-based accelerated aging of Large Area Picosecond Photodetectors ($LAPPD^{\text{TM}}$)	Dr CHIRAYATH, V. A.
12:28	P10 [P10] MPGD-based detectors of Cherenkov photons in COMPASS and for future applications	TESSAROTTO, Fulvio
12:42	P11 [P11] Development of (V)UV-Sensitive GaN Geiger-Mode Photodiodes	OTTE, Nepomuk
12:56	P115 [P115] Development Towards a Camera Readout and Barium Tagging Optical TPC, or CRAB-OTPC, for the NEXT Collaboration	BYRNES, Nicholas
1:10	P190 [P190] Skipper-CCD for quantum microscopy: status and plans	Ms MAGNONI, Agustina
1:24	P14 [P14] Micro- and Nano- Machined Vacuum Photodetectors	WINN, David Prof. ONEL, Yasar

Photodetectors: Longer Wavelengths (2:00 PM - 3:10 PM)

-Conveners: Peter Krizan; Lindley Winslow

time	[id] title	presenter
2:00	P105 [P105] A Cooper pair transistor single photon detector with quantum enhanced sensitivity	Dr LI, Juliang
2:15	P106 [P106] Superconducting mm-wave detector development at Argonne National Laboratory	BARRY, Peter
2:30	P109 [P109] Cosmology with On-Chip Superconducting Millimeter-Wave Spectrometers	KARKARE, Kirit
2:45	P177 [P177] Mapping the CMB at High-Frequency with Kinetic Inductance Detectors on the South Pole Telescope	ANDERSON, Adam