

CPAD Instrumentation Frontier Workshop 2021

Thursday, 18 March 2021

Photodetectors: SiPMs (12:00 - 13:40)

-Conveners: Peter Krizan; Lindley Winslow

time	[id] title	presenter
12:00	[55] A SiPM for the readout of the fast component of barium fluoride	HITLIN, David
12:20	[38] Time resolution and efficiency of SPADs and SiPMs for photons and charged particles	WINDISCHHOFER, Philipp
12:40	[73] Nuisance Processes in p-on-n SiPMs	GALLINA, Giacomo
13:00	[121] 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 (14:00 - 16:00)

-Conveners: Peter Krizan; Lindley Winslow

time	[id] title	presenter
14:00	[130] Increasing photodetector light collection with metalenses	STANFORD, Chris
14:15	[58] Thickness Uniformity of Amorphous Selenium Films Utilizing the University of California, Santa Cruz Fabrication Facility	ABBASZADEH, Shiva
14:30	[59] Transparent Thermoplastic Acrylic Scintillator	Dr WANG, JUIJEN
14:45	[96] 3D printing of photocurable scintillating and low-background materials	FEBBRARO, Michael
15:00	[204] A Novel Scintillator Detector for the Mu2e-II Experiment and a Muon Tomography Search for Hidden Chambers in the Great Pyramid	DUKES, E. Craig
15:15	[132] Spectral Photon Sorting with the Dichroicon in Large Neutrino Detectors	Dr LAND, Benjamin
15:30	[92] Theia Physics Potential	ASKINS, Morgan

Friday, 19 March 2021

Photodetectors: Shorter Wavelengths (12:00 - 13:40)

-Conveners: Lindley Winslow; Peter Krizan

time	[id] title	presenter
12:00	[166] Large Area Picosecond Photo-Detectors (LAPPDs) for ANNIE and Future Neutrino Experiments.	Dr TIRAS, Emrah
12:14	[179] Recent results from the pixel-based accelerated aging of Large Area Picosecond Photodetectors ($LAPPD^{\mathrm{TM}}$)	Dr CHIRAYATH, V. A.
12:28	[79] MPGD-based detectors of Cherenkov photons in COMPASS and for future applications	TESSAROTTO, Fulvio
12:42	[62] Development of (V)UV-Sensitive GaN Geiger-Mode Photodiodes	OTTE, Nepomuk
12:56	[125] Development Towards a Camera Readout and Barium Tagging Optical TPC, or CRAB-OTPC, for the NEXT Collaboration	BYRNES, Nicholas
13:10	[190] Skipper-CCD for quantum microscopy: status and plans	Ms MAGNONI, Agustina
13:24	[84] Micro- and Nano- Machined Vacuum Photodetectors	WINN, David Prof. ONEL, Yasar

Photodetectors: Longer Wavelengths (14:00 - 15:10)

-Conveners: Peter Krizan; Lindley Winslow

time	[id] title	presenter
14:00	[105] A Cooper pair transistor single photon detector with quantum enhanced sensitivity	Dr LI, Juliang
14:15	[106] Superconducting mm-wave detector development at Argonne National Laboratory	BARRY, Peter
14:30	[109] Cosmology with On-Chip Superconducting Millimeter-Wave Spectrometers	KARKARE, Kirit
14:45	[177] Mapping the CMB at High-Frequency with Kinetic Inductance Detectors on the South Pole Telescope	ANDERSON, Adam