

TWEPP 2021 Topical Workshop on Electronics for Particle Physics

Wednesday, September 22, 2021

ASIC (11:40 AM - 1:00 PM)

-Conveners: Angelo Rivetti

time	[id] title	presenter
11:40 AM	[45] Implementation and testing of Design For Testability methodologies in 65 nm ASICs for HL-LHC.	BERGAMIN, Gianmario
12:00 PM	[59] Test results of RD53B chips for ATLAS and CMS phase-2 pixel upgrades	KOUKOLA, Dominik
12:20 PM	[14] Performance simulations and characterization of RD53 pixel chips for ATLAS and CMS HL-LHC upgrades	REHMAN, Attiq Ur
12:40 PM	[68] HGCROC3: the front-end readout ASIC for the CMS High Granularity Calorimeter	Mr DULUCQ, Frederic

ASIC (2:00 PM - 3:20 PM)

-Conveners: Walter Snoeys

time	[id] title	presenter
2:00 PM	[177] Precision timing ASIC for LGAD sensors based on a Constant Fraction Discriminator – FCFD0	ZIMMERMAN, Thomas
2:20 PM	[97] Detection Performance of MIMOSIS-1, a CMOS Sensor Prototype Developed for the CBM-MVD	Dr BUGIEL, Roma
2:40 PM	[73] First Measurement on TimeSPOT1 ASIC: a Fast-Timing, High-Rate Pixel-Matrix Front-End	PICCOLO, Lorenzo
3:00 PM	[29] FAST2: a new family of front-end ASICs to read out thin Ultra-Fast Silicon detectors achieving picosecond time resolution.	MARTINEZ ROJAS, Alejandro David FERRERO, Marco

ASIC (3:40 PM - 5:00 PM)

-Conveners: Ping Gui

time	[id] title	presenter
3:40 PM	[23] Towards the next generation of CERN radiation monitoring front end ASICs	KUNDUMATTATHIL MOHANAN, Sarath
4:00 PM	[17] A radiation tolerant 12 bits, 160 MS/s data conversion and transmission ASIC for the CMS electromagnetic calorimeter	MAZZA, Gianni
4:20 PM	[107] The ETROC1: The first full chain precision timing prototype for CMS MTD Endcap Timing Layer (ETL) upgrade	LIU, Tiehui Ted
4:40 PM	[61] A Sub-Picosecond Digitally-Controlled Phase Delay	Prof. TOUSI, Yahya

Thursday, September 23, 2021

ASIC (11:40 AM - 12:20 PM)

-Conveners: Wladyslaw Dabrowski

time	[id] title	presenter
11:40 AM	[86] First experimental results with the version TOFHIR2X of the front-end ASIC of the MTD/BTL detector in the CMS experiment	NIKNEJAD, Tahereh Sadat
12:00 PM	[139] The Gotthard-II readout ASIC and detector system	ZHANG, Jiaguo