

**Session Program**

**20-24 Sept 2021**

**TWEPP 2021 Topical Workshop on  
Electronics for Particle Physics**

***ASIC***

# Wednesday 22 September

11:40

## ASIC

Session | Convener: Angelo Rivetti

11:40–11:56

### Implementation and testing of Design For Testability methodologies in 65 nm ASICs for HL-LHC.

**Speaker**

Gianmario Bergamin

12:00–12:16

### Test results of RD53B chips for ATLAS and CMS phase-2 pixel upgrades

**Speaker**

Dominik Koukola

12:20–12:36

### Performance simulations and characterization of RD53 pixel chips for ATLAS and CMS HL-LHC upgrades

**Speaker**

Attiq Ur Rehman

12:40–12:56

### HGCROC3: the front-end readout ASIC for the CMS High Granularity Calorimeter

**Speaker**

Mr Frederic Dulucq

13:00

14:00

## ASIC

Session | Convener: Walter Snoeys

14:00–14:16

### Precision timing ASIC for LGAD sensors based on a Constant Fraction Discriminator - FCFD0

**Speaker**

Thomas Zimmerman

14:20–14:36

### Detection Performance of MIMOSIS-1, a CMOS Sensor Prototype Developed for the CBM-MVD

**Speaker**

Dr Roma BUGIEL

14:40–14:56

### First Measurement on TimeSPOT1 ASIC: a Fast-Timing, High-Rate Pixel-Matrix Front-End

**Speaker**

Lorenzo Piccolo

15:00-15:16

**FAST2: a new family of front-end ASICs to read out thin Ultra-Fast Silicon detectors achieving picosecond time resolution.**

**Speakers**

Alejandro David Martinez Rojas, Marco Ferrero

15:20

15:40

**ASIC**

**Session** | **Convener:** Ping Gui

15:40-15:56

**Towards the next generation of CERN radiation monitoring front end ASICs**

**Speaker**

Sarath Kundumattathil Mohanan

16:00-16:16

**A radiation tolerant 12 bits, 160 MS/s data conversion and transmission ASIC for the CMS electromagnetic calorimeter**

**Speaker**

Gianni Mazza

16:20-16:36

**The ETROC1: The first full chain precision timing prototype for CMS MTD Endcap Timing Layer (ETL) upgrade**

**Speaker**

Tiehui Ted Liu

16:40-16:56

**A Sub-Picosecond Digitally-Controlled Phase Delay**

**Speaker**

Prof. Yahya Tousi

17:00

# Thursday 23 September

11:40

## ASIC

Session | Convener: Wladyslaw Dabrowski

11:40-11:56

**First experimental results with the version TOFHIR2X of the front-end ASIC of the MTD/BTL detector in the CMS experiment**

**Speaker**

Tahereh Sadat Niknejad

12:00-12:16

**The Gotthard-II readout ASIC and detector system**

**Speaker**

Jiaguo Zhang

12:20