

## Session Program

19-23 Jun 2023



## Advances in Space AstroParticle Physics (ASAPP2023) - 1st edition

***Research and Development of novel  
instrumentation for particle measurements in  
space***

Perugia (IT)  
Via Deruta, 43, 06132 San Martino In Campo PG

## Friday 23 June

09:00

### Research and Development of novel instrumentation for particle measurements in space

**Session** | **Location:** Perugia (IT), Via Deruta, 43, 06132 San Martino In Campo PG | **Convener:** Iuppa, Roberto

09:00–09:25

#### MAPS in Space: Opportunities and Challenges

**Speaker**

Mager, Magnus

09:25–09:50

#### Depleted monolithic CMOS sensors and very low power readout architectures

**Speakers**

Da Rocha Rolo, Manuel Dionisio, Da Rocha Rolo, Manuel Dionisio

09:50–10:15

#### Recent development of Multi-Pixel Photon Counter (MPPC) for direct detection around NUV/VUV, new qCMOS image sensor for single photon counting and photon number resolving

**Speaker**

Ferrulli, Simona

10:15–10:35

#### a-Si:H as active material for the detection of different radiations observed during the evolution of Solar Energetic Particle events.

**Speaker**

Servoli, Leonello

10:35–10:55

#### Charged-particle induced radioluminescence of copper-halide perovskite films and detector assemblies for spaceborne measurements

**Speaker**

Dr Hunyadi, Mátyás

10:55

11:10

### Research and Development of novel instrumentation for particle measurements in space

**Session** | **Location:** Perugia (IT), Via Deruta, 43, 06132 San Martino In Campo PG | **Convener:** Ionica, Maria

11:10–11:35

#### Challenges towards Low-Power and Fast-Timing MAPS

**Speaker**

Kugathasan, Thanushan

11:35–11:55

#### Development of LGADs for the 4D tracking of charged particles in Space Experiments

**Speaker**

Bisht, Ashish

11:55-12:15

**Characterization of a large area hybrid pixel detector of Timepix3 technology for space applications**

**Speaker**

Farkaš, Martin

12:15-12:35

**A mixed-signal read out ASIC for silicon micro-strip detectors**

**Speaker**

Barbanera, Mattia

12:35-12:55

**A Configurable 64-channel ASIC for Cherenkov Radiation Detection**

**Speaker**

Di Salvo, Andrea

12:55