

## Session Program

26-30 Jun 2022



iWoRiD 2022

## 23rd International Workshop on Radiation Imaging Detectors

26 – 30 June 2022

Riva del Garda, Italy

# 23rd International Workshop on Radiation Imaging Detectors

## *Sensors*

Riva del Garda, Italy, Room Garda

Riva del Garda Congress Centre Loc. Parco Lido 1 I - 38066 Riva del Garda (TN)

## Tuesday 28 June

08:30

### Sensors: 1

**Session** |

**Location:** Riva del Garda, Italy, Room Garda, Riva del Garda Congress Centre Loc. Parco Lido 1 | - 38066 Riva del Garda (TN) |

**Convener:** heinz graafsma

08:30–09:00

#### **INVITED: Timepix detectors in Space: From radiation monitoring in low earth orbit to astroparticle physics**

**Speakers**

Benedikt Bergmann, Benedikt Ludwig Bergmann

09:00–09:20

#### **Imaging X-Ray Photons and Electrons with the Spectroscopic 166-Pixel SDD Monolithic TRISTAN Detector**

**Speaker**

Mr Daniel Siegmann

09:20–09:40

#### **The DSSC soft X-ray Detectors with Mega-frame Readout Capability for the European XFEL**

**Speaker**

Matteo Porro

09:40–10:00

#### **Qualification and Modeling of the Non-Linear Response of the First Large-Area DEPFET Pixel Sensors with Internal Signal Compression**

**Speaker**

Andrea Castoldi

10:00–10:20

#### **3D integration approaches for Silicon Photomultipliers: from backside-illuminated to Through Silicon Via interconnections**

**Speaker**

Laura Parellada Monreal

10:20

16:20

### Sensors: 2

**Session** |

**Location:** Riva del Garda, Italy, Room Garda, Riva del Garda Congress Centre Loc. Parco Lido 1 | - 38066 Riva del Garda (TN) |

**Convener:** Seppo Nenonen

16:20–16:50

#### **INVITED: High-flux CdZnTe detectors: Spectral Computed Tomography and Beyond**

**Speaker**

kris iniewski

16:50–17:10

#### **Manufacturing of pixel detectors for radiation imaging by chromium compensation of gallium arsenide wafers**

**Speaker**

Dr Juha Kalliopuska

17:10-17:30

**Gain, noise, and collection efficiency of GaAs SAM-APDs with staircase structure by means of synchrotron radiation**

**Speaker**

Mr Matija Colja

17:30-17:50

**3D silicon detectors for neutron imaging applications.**

**Speaker**

Dr Marco Povoli

17:50-18:10

**Graphene-Enabled Silicon-Integrated Photodiode for DUV Imaging**

**Speaker**

Neil Moffat

18:10

## Wednesday 29 June

14:00

### Sensors: 3

#### Session |

**Location:** Riva del Garda, Italy, Room Garda, Riva del Garda Congress Centre Loc. Parco Lido 1 | - 38066 Riva del Garda (TN) |

**Convener:** Joaquim Marques Ferreira dos Santos

14:00-14:30

#### **INVITED: Optimization of planar silicon sensors and LGADs for soft X-ray detection**

##### Speakers

J Zhang, Jiaguo Zhang

14:30-14:50

#### **MONOLITH - picosecond time stamping capabilities in fully monolithic highly granular silicon pixel detectors**

##### Speaker

Stefano Zambito

14:50-15:10

#### **Exploration of the TPSCo 65 nm CMOS imaging process for building wafer-scale, thin and flexible detection layers for the ALICE Inner Tracking System upgrade (ITS3)**

##### Speaker

Serhiy Senyukov

15:10-15:30

#### **ARCADIA MAPS process qualification through the electrical characterization of passive pixel arrays**

##### Speaker

Thomas Corradino

15:30-15:50

#### **First characterization results of ARCADIA FD-MAPS after x-ray irradiation**

##### Speaker

Coralie Neubuser

15:50

## Thursday 30 June

11:05

### Sensors: 4

**Session** |

**Location:** Riva del Garda, Italy, Room Garda, Riva del Garda Congress Centre Loc. Parco Lido 1 I - 38066 Riva del Garda (TN) |

**Conveners:** Gian Franco Dalla Betta, Gian-Franco Dalla Betta

11:05-11:25

#### Innovative means of operation of optical readout Time Projection Chamber

**Speaker**

Elisabetta Baracchini

11:25-11:45

#### Edge-TCT evaluation of High Voltage-CMOS test structures with unprecedented breakdown voltage for high radiation tolerance

**Speaker**

Benjamin Wade

11:45-12:05

#### Timing performance of radiation hard MALTA monolithic Pixel sensors

**Speaker**

Giuliano Gustavino

12:05-12:25

#### Investigation of the Time Resolution in 3D silicon sensors

**Speaker**

Dennis Sperlich

12:25-12:45

#### 10ps timing with 3D trench silicon pixel sensors

**Speakers**

Adriano Lai, Andrea Lampis

12:45