



# High Precision X-Ray Measurements 2023

## Monday, 19 June 2023

### X-ray detectors: 1 - Aula Salvini (10:20 - 11:00)

-Conveners: Anna Bergamaschi

time	[id] title	presenter
10:20	[71] Semiconducting Polymer X-ray Detectors: Towards Printable, Flexible, and Tissue Equivalent Devices	POSAR, Jessie

### X-ray detectors: 1 - Aula Salvini (11:30 - 13:20)

-Conveners: Anna Bergamaschi

time	[id] title	presenter
11:30	[60] Development of energy-resolved X-ray scanners for contaminant detection: results from the AVATAR X project	BUTTACAVOLI, Antonino
12:00	[66] Investigation of Platinum contacts on High-Flux CdZnTe	BETTELLI, Manuele
12:20	[70] Calibration of Silicon Drift Detectors for High Precision Spectroscopy in SIDDHARTA-2 Experiment	KHREPTAK, Aleksander
12:40	[87] Recent trends of X-ray dosimetry with thermoluminescent detectors	CASTRO CAMPOY, Abner Ivan
13:00	[75] Advancing Plasma Analysis: An Integrated X-ray Spectroscopy System Utilizing GEM and Timepix3 Technology for Soft and Hard X-Rays, and Gamma Radiation Detection	DE LEO, Veronica

## Tuesday, 20 June 2023

### X-ray detectors: 2 - Aula Salvini (10:00 - 11:20)

-Conveners: Marco Miliucci

time	[id] title	presenter
10:00	[44] High frame-rate detectors for hard X-ray applications	WILSON, Matthew
10:40	[59] Potentialities of Quasi-Hemispherical CdZnTe Detectors for Hard X-ray Spectroscopy of Kaonic Atoms	Dr BUTTACAVOLI, Antonino
11:00	[80] eXTP (enhanced X-ray Timing and Polarimetry mission): scientific objectives and sensors	CIRRINCIONE, Daniela

### X-ray detectors: 2 - Aula Salvini (11:50 - 13:30)

-Conveners: Marco Miliucci

time	[id] title	presenter
11:50	[39] Application Specific Integrated Circuits in large format hyperspectral imaging radiation detectors for space-borne instrumentation	MELE, Filippo
12:30	[67] Silicon Drift Detector technologies for high-throughput spectral-timing X-ray space astronomy	CERAUDO, Francesco
12:50	[76] Innovative X-ray detection systems based on monolithic arrays of Silicon Drift Detector	Mr DEDA, Griseld
13:10	[77] Soft X-ray detection with single photon resolution using LGAD sensors	CARULLA ARESTE, Maria del mar

**Wednesday, 21 June 2023****X-ray detectors: 3 - Aula Salvini (16:40 - 18:00)****-Conveners: Manuele Bettelli**

time	[id] title	presenter
16:40	[47] Hard X-ray applications of the HEXITEC hyperspectral detector	WILSON, Matt
17:00	[62] Energy-resolved X-ray imaging and contrast enhancements in CZT detectors for contaminant detection.	Dr TAORMINA, Vincenzo
17:20	[90] 3D CZT spectro-imagers for hard X- and Soft $\gamma$ -ray astronomy: development status and preliminary results from a stratospheric balloon flight	Dr DEL SORDO, Stefano
17:40	[98] Use of Hydrogenated Amorphous Silicon to precisely measure X-ray fluxes	KANXHERI, Keida

# Thursday, 22 June 2023

## X-ray detectors: 4 - Aula Salvini (11:20 - 13:30)

-Conveners: **Leonardo Abbene**

time	[id] title	presenter
11:20	[48] Measuring the temperature of X-rays with superconducting detectors	BORGHESI, Matteo
12:00	[82] Photon science detector development at PSI	MOZZANICA, Aldo
12:30	[58] Improving the time resolution of large area LaBr3:Ce detectors with SiPM array readout	BONESINI, Maurizio Giorgio
12:50	[91] PEROV project: perovskite devices for visible light and potential for X-ray detection	TESTA, Marianna
13:10	[83] Tests at INFN on X-ray photon counting hybrid pixel detectors based on the Timepix4 ASIC	CARDARELLI, Paolo