

27th International Workshop on Radiation Imaging Detectors

28 June 2026 to 2 July 2026

Ghent, Belgium

Conference topics

The workshop will have plenary sessions with invited speakers and contributed papers presented orally and in poster sessions. The invited talks will be chosen to review recent advances in different areas covered in the workshop. Two Best Poster Awards will be attributed.

Sensor Materials, Device Processing & Technologies

Si, a-Si, Ge, GaAs, CdTe and other semiconductors
CVD Diamond detectors
Scintillators
Gaseous detectors
Quantum devices
Drifting schemes
Processing, Characterization, Reliability & Radiation damage

Front end electronics and readout

Monolithic and hybrid systems
Spectroscopic systems
Charge integrating and counting systems
3D ASICs and 3D interconnections
Data compression, transfer and storage
>100 GHz electronics

Imaging theory

Imaging with ionizing radiation
Complementary imaging techniques at different length scales
Fluorescence mapping and tomography reconstruction with limited data sets
Low radiation dose approaches Applications
Material & life science
Multi wavelength techniques
Element mapping in 2D / 3D
High resolution imaging
Sub ns imaging
TOF and particle tracking
High energy physics
High power lasers
Applications at X-ray free electron lasers
Electron microscopy
Neutron imaging
Security systems and other Industrial applications
Astronomical and space applications
Nuclear physics
Fusion research

Applications

Material & life science
Multi wavelength techniques
Element mapping in 2D / 3D
High resolution imaging
Sub ns imaging
TOF and particle tracking
High energy physics
High power lasers
Applications at X-ray free electron lasers

Electron microscopy
Neutron imaging
Muon imaging
Security systems and other Industrial applications
Astronomical and space applications
Nuclear physics
Fusion research

Highlighted sessions

Hyperspectral X-ray sensors
Large-scale position-sensitive particle detectors