

BARCELONA TECHNO WEEK 2026

COURSE ON SEMICONDUCTOR RADIATION DETECTORS

Institute of Cosmos Sciences of the University of Barcelona (ICCUB)
13-17 July, 2026

Aimed at researchers, postdocs, PhD students, and industry professionals working in related fields

<https://indico.iccub.edu/e/TW2026>

Contact: technoweek@iccub.edu

Program overview

Interaction of radiation with
matter

Signal formation in
semiconductor radiation
detectors

Introductory detector readout
and electronics concepts

Pulse processing electronics

Interconnection techniques

CMOS Image Sensors

Hybrid Pixel Detectors

Monolithic Active Pixel Sensors

Single Photon Avalanche Diodes

Silicon Photomultipliers

Fast Timing detectors and
electronics

Neutron detection

Quantum applications

Medical applications

Space applications

Lecturers

Gerard Ariño-Estrada (IFAE)

Rafael Ballabriga (CERN)

Marco Carminati (Politecnico di
Milano)

Edoardo Charbon (EPFL)

Perceval Coudrain (CEA)

David Gascón (ICCUB)

Alberto Gola (FBK)

Sergio Gómez (UPC)

Carlos Granja (Advacam, VSB-TU
Ostrava)

Daniel Hynds (U. of Oxford)

Boris Korzh (U. Geneva)

Carla Marin (ICCUB)

Andrei Nomerotski (CTU)

Angelo Rivetti (TIFPA and INFN
Torin)

Dennis Schaart (TU Delft)

Francesc Serra (CNM)

Walter Snoeys (CERN)

Renato Turchetta (IMASENIC)

Organizing Committee

Scientific Organizing Committee

Rafael Ballabriga (CERN), Co-Chair

David Gascón (ICCUB-IEEC), Chair

Sergio Gomez (Serra Hunter- UPC)

Daniel Guberman (ICCUB)

Joan Mauricio (ICCUB)

Eduardo Picatoste (ICCUB)

Andreu Sanuy (ICCUB)

Local Organizing Committee

Anna Argudo (ICCUB)

Esther Pallarés (ICCUB)

More information

