

Registration

Participation in the workshop is free of charge but requires registration. Please register under <https://indico.ph.tum.de/event/7726/>. The registration deadline is 31/10/24.

Poster session

The workshop features a poster session. Should you wish to present a poster, please submit a poster title under <https://indico.ph.tum.de/event/7726/abstracts/>. The submission deadline is 31/10/24.

Organization

Christoph Wiesinger is an astroparticle physicist working at the Technical University of Munich. His work as part of the Young Academy of the Bavarian Academy of Sciences and Humanities focuses on the development of semiconductor detectors to search for solar axions.
badw.de/en/young-academy

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BA&W

From fundamental research to every- day application

WORKSHOP

7/11/24–
8/11/24

Junges
Kolleg

BAYERISCHE
AKADEMIE
DER
WISSENSCHAFTEN

From fundamental research to everyday application

Testing fundamental physics with ever-increasing precision is the driver that pushes the technological boundaries of particle detection. Today's particle detectors are found in tomorrow's societal application. This workshop aims to bring together semiconductor detector experts, highlight the current challenges in fundamental research, and identify synergies that benefit future everyday applications.

Programme

THURSDAY, 7 NOVEMBER 2024

- 13.00 **Welcome**
CHRISTOPH WIESINGER
(Technical University of Munich)
- 13.15 **Precision radiation detectors for cutting edge research projects developed at the Semiconductor Laboratory of the Max Planck Society**
JELENA NINKOVIC
(Semiconductor Laboratory of the Max Planck Society)
- 14.00 **Single Photon Detection with Digital SiPMs**
PETER FISCHER (Heidelberg University)
- 14.45 **Coffee break**
- 15.15 **Silicon-based tracking detectors in particle physics experiments**
JOCHEN KLEIN (CERN)
- 16.00 **HPGe detectors in nuclear physics and rare event searches**
DAVID RADFORD
(Oak Ridge National Laboratory)
- 16.45 **Coffee break**
- 17.15 **Poster session**

FRIDAY, 8 NOVEMBER 2024

- 9.00 **Silicon Drift Detectors and related electronics for fundamental and applied physics**
CARLO FIORINI
(Politecnico di Milano and INFN)
- 9.45 **High performance CdTe based Imaging spectrometers for space science**
OLIVIER LIMOUSIN
(CEA Saclay)
- 10.30 **Coffee break, group picture**
- 11.00 **Perovskites and organic semiconductors as ionizing radiation detectors**
BEATRICE FRABONI
(University of Bologna)
- 11.45 **ALICE ITS3: bendable, wafer-scale CMOS sensors for ultra-light tracking detectors**
MAGNUS MAGER
(CERN)
- 12.30 **Closeout**
CHRISTOPH WIESINGER
(Technical University of Munich)
- 13.00 **Lunch**