

## **Session Program**

**20-22 Jan 2026**

# **SIAPS: Swiss Innovation for Astrophysics and Planetary Science**

## ***Sensing and detectors, Photonics***

Universal Postal Union, Bern  
Bern

# Thursday 22 January

09:00

## Sensing and detectors, Photonics: Project/mission "needs"

**Session** | **Location:** Universal Postal Union, Bern, Bern

**09:00–09:25** **ESO detector technologies**

**Speaker**

Naidu Bezawada

**09:25–09:50** **ESA detectors, clocks and optical communications**

**Speaker**

tbc

**09:50–10:15** **ESA photonics developments**

**Speaker**

tbc

10:15

10:45

## Sensing and detectors, Photonics: Project/mission "needs"

**Session** | **Location:** Universal Postal Union, Bern, Bern

**10:45–11:10** **LISA sensing and detectors**

**Speaker**

Domenico Giardini

**11:10–11:35** **LIFE technology needs and how to get there**

**Speaker**

Adrian Glauser

**11:35–12:00** **Possible remote sensing instruments for the next decades**

**Speaker**

Nicolas Thomas

12:00

13:30

## Sensing and detectors, Photonics: "solutions"

**Session** | **Location:** Universal Postal Union, Bern, Bern

**13:30–13:42** **THz Time Domain Spectroscopy for In-Situ Space Exploration**

**Speaker**

Linus Stöckli

**13:42–13:54**

**Spacetek's Detector High Speed Digitizer System for Space Exploration**

**Speaker**

Juerg Jost

**13:54–14:06**

**Advancements in Optical Readout Technologies: Test Mass Sensing and Laser-Frequency Stabilization Techniques for Optical Compact Interferometry**

**Speaker**

Victor Huarcaya

14:06-14:18

**laser controller electronics, optical amplifiers, optical fibers solutions for data / signal transmissions****Speaker**

Elisabetta Rugi Grond

14:18-14:30

**Industrial Optical Atomic Clock for Science****Speaker**

Fabien Droz

14:30-14:42

**High repetition rate laser frequency combs for calibration of VIS and NIR spectrographs.****Speaker**

Ewelina Obrzud

15:06

15:36

**Sensing and detectors, Photonics: "solutions"****Session** | **Location:** Universal Postal Union, Bern, Bern

15:36-15:48

**Superconducting nanowire detector development towards astronomy applications****Speaker**

Boris Korzh

15:48-16:00

**Nano to pico degree resolution optical astronomy: in quantum physics we trust !****Speaker**

Roland Walter

16:00-16:12

**CrSBr, a new photonic material: doping and magnetic control****Speaker**

Bastien Smette

16:12-16:24

**Glass micro-components for photonic and opto-mechanical systems****Speaker**

Rolando Ferrini

16:24-16:36

**Integrated InGaAs/InP Waveguides for Low-Loss Astrophotonics between 4-18  $\mu\text{m}$** **Speaker**

David Eglin

16:36-16:48

**Quantum Mini-Magnetometer qmM****Speaker**

Joseph Moerschell

16:55