Session Program

20–22 Jan 2026

SIAPS: Swiss Innovation for Astrophysics and Planetary Science

Opto-mechanics, precision mechanisms, vacuum & cryo

Universal Postal Union, Bern
Bern

Wednesday 21 January

09:00

Opto-mechanics, precision mechanisms, vacuum & cryo: Project/ mission "needs" - Ground

Session

09:00–09:20

ESO Instrumentation: technology challenges and opportunities for industry

Speaker
Michele Cirasuolo

09:20–09:35 **ANDES, Ristretto and the road to the PCS**

Speaker
Christophe Lovis

09:35–09:50 **MOSAIC, BlueMUSE**

Speaker
Jean-Paul Kneib

09:50–10:05 **The European Solar Telescope**

Speaker
Svetlana Berdyugina

10:05–10:30 **Panel Discussion**

Speaker
all

10:30

11:00

Opto-mechanics, precision mechanisms, vacuum & cryo: Project/ mission "needs" - Space

Session

11:00–11:15 **ESA, how to get involved**

Speaker
tbc

11:15–11:30 **Planetary missions**

Speaker
Nicolas Thomas

11:30–11:45 **Space Missions**

Speaker
Enrico Bozzo

11:45–12:00 **tbc ARRAKIHS**

Speaker
tbc

12:00–12:15 **L4 mission call**

Speaker
Swen Wittig

12:15–12:40 **Panel Discussion**

Speaker
all

12:40

14:00

Opto-mechanics, precision mechanisms, vacuum & cryo: "solutions"
Session

14:00–14:12
Technology developments for RISTRETTO/VLT as a demonstrator for PCS/ELT

Speaker
Nicolas Blind

14:12–14:24
Extreme Adaptive Optics for Exoplanetary Science: First Light of an Unmodulated Three-Sided Pyramid Wavefront Sensor

Speaker
Muskan Shinde

14:24–14:36
The Programmable Liquid-crystal Active Coronagraphic Imager for the 4-m DAG telescope (PLACID) instrument: A joint UBE and HEIG-VD success story

Speaker
Jonas Kuhn

14:36–14:48
DD4AO: On-Sky Performance of a Novel Data-Driven AO Control Strategy

Speaker
Isaac Dinis

14:48–15:00 **A robotic mirrors positioner for the MOSAIC instrument**

Speaker
Maxime Rombach

15:00–15:12
Configurable Slit Unit for the MIRMOS (Multi-Object Spectrometer for Infra-Red Exploration) instrument

Speaker
Peter Spanoudakis

15:12–15:24 **High-precision manufacturing for ground and space applications**

Speaker
Thomas Liebrich

15:24–15:36 **Robotic optical fiber positioner modules**

Speakers
Malak Galal, Maxime Rombach

15:36

16:06

Opto-mechanics, precision mechanisms, vacuum & cryo: "solutions"

Session

16:06–16:18

An overview of the Nulling Interferometer Cryogenic Experiment (NICE)

Speaker
Jonah Hansen

16:18–16:30

3D-printed Shape Memory Alloys (SMAs) for space applications

Speaker
Gabriele Paciotti

16:30–16:42

Space Rotating Mechanism for the CXBe Mission

Speaker
Hancheng Li

16:42–16:54

Motorized Mounts for the Folding Mirrors of the VLT's BlueMUSE Instrument

Speaker
Gloria Bai He Mellinand

16:54–17:06

Opto-mechanical solutions for telescope and optical benches

Speaker
TAS

17:06–17:18

Detector unit for astronomical applications at UNIGE

Speaker
Ludovic Genolet

17:18–17:30

METIS Cryostat for ELT

Speaker
Emilie Bouzerand

17:30–17:42

Vibration-free gas bearing turbo compressors and expanders for cryogenic applications

Speaker
Martin Bartholet

17:42