Session Program

20–22 Jan 2026

SIAPS: Swiss Innovation for Astrophysics and Planetary Science

Big-data handling, embedded software

Universal Postal Union, Bern
Bern

Tuesday 20 January

10:20

Big-data handling, embedded software: Project/mission "needs"

Session | **Location:** Universal Postal Union, Bern, Bern | **Convener:** Nicolas Buchschacher

10:20–10:45 Euclid data challenges

Speaker
Stéphane Paltani

Location
Universal Postal Union, Bern, Bern

10:45–11:10 SKA-CH data challenges

Speaker
André Csillaghy

Location
Universal Postal Union, Bern, Bern

11:10–11:35 ET telescope data challenges

Speaker
Paul Laycock

Location
Universal Postal Union, Bern, Bern

11:35–12:00 ESO "complex" data handling

Speaker
Michael Sterzick

Location
online

12:00

13:30

Big-data handling, embedded software: "solutions"

Session | **Location:** Universal Postal Union, Bern, Bern | **Convener:** Valentina Tamburello

13:30–13:42 ESDI

Speaker
Jennifer Wadsworth

13:42–13:54 CHEOPS Ground Segment

Speaker
Adrien Deline

13:54–14:06 DACE web platform for the NCCR PlanetS data sharing and analysis

Speaker
Nicolas Buchschacher

14:06–14:18 Scalable Data Management for Planetary Science

Speaker
Daniel Ribeiro

14:18–14:30 **AI & HPC in Astronomy: Software For Ground, Space, and Beyond**

Speaker
Laszlo Etesi

14:30–14:42 **AI on modern HPC platforms**

Speaker
Tomasz Kacprzak

14:42–14:54 **Optimising observational campaigns through AI**

Speaker
Sara Marques

14:54

15:30

Big-data handling, embedded software: "solutions"

Session | **Location:** Universal Postal Union, Bern, Bern | **Convener:** Nicolas Buchschacher

15:30–15:42 **EULER observation software**

Speaker
Mathurin Chritin

15:42–15:54 **SW Framework for highly efficient on-board data and AI processing**

Speaker
Klaus Buchheim

15:54–16:06 **Moonshot - How to deliver high-quality flight software on time**

Speaker
Jakob Wanner

16:06–16:18
Spacetek’s Modular Instrument-Controller System for Space Exploration

Speaker
Juerg Jost

16:18–16:30
Optical downlink for data could change the way of architecting science missions

Speaker
Elisabetta Rugi Grond

16:30–16:42
Multi-band radio-astronomy receiver: Optical high speed data acquisition

Speaker
Alberto Dassatti

16:42