

## Monday, 01 December

13:00–13:20	<b>Registration</b>
-------------	---------------------

13:25–13:30	<b>Rene Hudec</b>	Opening workshop
-------------	-------------------	------------------

### Session chair: Peter Friedrich

13:30–13:50	<b>OPT</b>	<b>Yanji Yang</b>	Development of the focusing mirrors onboard eXTP
13:50–14:20	<b>OPT</b>	<b>David Girou</b>	Manufacturing the mirror modules for NewAthena
14:20–14:50	<b>OPT</b>	<b>Ladislav Pina</b>	Optimization of Grazing Incidence X-ray Optics for Special Applications
14:50–15:10	<b>OPT</b>	<b>Niels Lund</b>	The peculiar optics of Laue-lenses
15:10–15:30	<b>Coffee break</b>		

### Session chair: Randall McEntaffer

15:30–15:50	<b>OPT</b>	<b>Fabien Grisé</b>	Development and fabrication of EUV diffraction gratings
15:50–16:20	<b>OPT</b>	<b>Ladislav Pina</b>	Novel technologies for laboratory Wolter type X ray optics
16:20–16:40	<b>OPT</b>	<b>Kirtankumar Pravin Dixit</b>	Broadband Multilayer Coatings for High-Energy Astrophysics: Optimization, Calibration, and Facility

17:30–23:00	<b>Welcome reception</b>
-------------	--------------------------



### 16<sup>th</sup> International Conference on Astronomical X-Ray Optics

Vila Lanna, Prague, Czech Republic  
01 - 05 December 2025

Last updated on November 21, 2025 at 21:21 CET.  
The latest version can be found at: <https://www.axro.cz>



## Tuesday, 02 December

09:00–09:20	<b>Registration</b>
-------------	---------------------

9:25	<b>Welcome Addresses by Distinguished Guests</b>	
	<b>Rene Hudec</b>	Astronomical Institute of the CAS & Czech Technical University in Prague
	<b>Zbyněk Škvor</b>	Vice-Rector of the Czech Technical University in Prague
	<b>Michal Bursa</b>	Director of Astronomical Institute of the Czech Academy of Sciences

**Session chair: Rene Hudec**

09:40–10:05	<b>Rene Hudec</b>	AXRO Introduction and historical background
10:05–10:25	<b>Coffee break</b>	

**Session chair: David Girou**

10:25–10:55	<b>OPT</b>	<b>Randall McEntaffer</b>	Updates on the Off-plane Grating Rocket Experiment (OGRE)
10:55–11:25	<b>OPT</b>	<b>Vadim Burwitz</b>	Standardizing X-ray Ground Calibration for X-ray Observatory Missions
11:25–11:45	<b>OPT</b>	<b>Christoph Braig</b>	Approaching high-resolution X-ray astronomy? From phase retrieval to achromatic wavefront correction
11:45–13:15	<b>Lunch</b>		

**Session chair: Vadim Burwitz**

13:15–13:40	<b>DTF</b>	<b>Joan Torras</b>	Minerva beamline: Characterization of mirror modules for the NewAthena optics
13:40–14:10	<b>DTF</b>	<b>Daniele Spiga</b>	Recent achievements of the BEaTriX X-ray facility: results and future perspectives
14:10–14:30	<b>DTF</b>	<b>Can Chen</b>	Design and test of an time-varying X-ray source for eXTP-SFA X-ray telescope
14:30–15:00	<b>Coffee break</b>		

**Session chair: Daniele Spiga**

15:00–15:25	<b>DTF</b>	<b>James Tutt</b>	SiC grids for blocking filters
15:25–15:45	<b>DTF</b>	<b>Qinyu Wu</b>	EP4K: A Large-format sCMOS for EP/WXT and future X-ray missions
15:45–16:15	<b>DTF</b>	<b>Zhila Yazdanfar</b>	Implementing Machine Learning Algorithms to Improve X-ray Detectors for Astronomical Applications

### 16<sup>th</sup> International Conference on Astronomical X-Ray Optics

Vila Lanna, Prague, Czech Republic  
01 - 05 December 2025

Last updated on November 21, 2025 at 21:21 CET.  
The latest version can be found at: <https://www.axro.cz>



## Wednesday, 03 December

09:00–09:10	<b>Registration</b>		
-------------	---------------------	--	--

**Session chair: Thorsten Döhning**

09:15–09:45	<b>MIS</b>	<b>Vojtech Simon</b>	Astrophysics with SXI/SMILE
09:45–10:05	<b>MIS</b>	<b>Ivan Reading</b>	Optics Modelling for the SMILE/SXI Mission
10:05–10:25	<b>MIS</b>	<b>Tianran Sun</b>	X-ray imaging of the magnetosphere via the SMILE mission
10:25–10:45	<b>Coffee break</b>		

**Session chair: Ivan Reading**

10:45–11:15	<b>MIS</b>	<b>Rene Hudec</b>	The Transient High-Energy Sky and Early Universe Surveyor (THESEUS)
11:15–11:35	<b>MIS</b>	<b>Riccardo Campana</b>	The XGIS Instrument on Board THESEUS: Design and Development Overview
11:35–12:05	<b>MIS</b>	<b>Lorenzo Natalucci</b>	Probing the dynamic universe with the GRINTA hard X-ray mission
12:05–13:35	<b>Lunch</b>		

**Session chair: Lorenzo Natalucci**

13:35–13:55	<b>MIS</b>	<b>Weiwei Cui</b>	Design of the Spectroscopic Focusing Array-Imaging (SFA-I) on the eXTP Satellite
13:55–14:15	<b>MIS</b>	<b>Zhixing Ling</b>	The Einstein Probe mission
14:15–14:35	<b>MIS</b>	<b>Wei Li</b>	Status and Design of the eXTP SFA-T Camera
14:35–15:05	<b>MIS</b>	<b>Thorsten Döhning</b>	ASTRABAX: Balloon based radiation measurements in the stratosphere
15:05–16:45	<b>Poster session + Coffee break</b>		

**Session chair: Jakub Řípa**

16:45–17:05	<b>MIS</b>	<b>James Rodi</b>	Studying the Binary Neutron Star Merger Population with Joint GW/EM Detections
17:05–17:25	<b>AST</b>	<b>Norbert Werner</b>	MUNI contribution to the study of galaxy clusters with XRISM
17:25–17:45	<b>AST</b>	<b>Tauseef Ahmad Zafar</b>	A Review of Machine Learning in Astronomical Plate Digitization and Survey Data

18:00–22:00	<b>Social Dinner</b>		
-------------	----------------------	--	--

### 16<sup>th</sup> International Conference on Astronomical X-Ray Optics

Vila Lanna, Prague, Czech Republic  
01 - 05 December 2025

Last updated on November 21, 2025 at 21:21 CET.  
The latest version can be found at: <https://www.axro.cz>



## Thursday, 04 December

### Session chair: Peter Predehl

08:45–09:05	<b>MIS</b>	<b>Marianna Dafčíková</b>	Routine observations of gamma-ray transients by nanosatellites: the story of GRBA $\alpha$ and VZLUSAT-2
09:05–09:30	<b>MIS</b>	<b>Jakub Řípa</b>	Demonstration of long-term ageing of silicon photomultipliers in space on GRBA $\alpha$ and VZLUSAT-2 CubeSats
09:30–10:00	<b>MIS</b>	<b>Konrad Dennerl</b>	Behind the scenes of eROSITA: how we transmit the data
10:00–10:25	<b>MIS</b>	<b>Yong Chen</b>	Follow-up X-ray telescope onboard Tianguan satellite
10:25–10:45	<b>Coffee break</b>		

### Session chair: Konrad Dennerl

10:45–11:20	<b>AST</b>	<b>Peter Predehl</b>	Scattering of X-rays by Interstellar Dust - A Review
11:20–11:45	<b>AST</b>	<b>Susanne Friedrich</b>	The search for soft sources in eROSITA data using isolated white dwarfs as an example
11:45–12:15	<b>AST</b>	<b>Vojtech Simon</b>	Observing the recurrence times of outbursts in X-ray binaries by X-ray monitors
12:15–13:25	<b>Lunch</b>		

### Session chair: Riccardo Campana

13:25–13:45	<b>AST</b>	<b>Vladimir Karas</b>	Probing the Strong Gravity Region of Black Holes
13:45–14:10	<b>AST</b>	<b>Eva Sramkova</b>	LSD trips to the time-variable neighbourhood of black holes and neutron stars
14:10–14:35	<b>AST</b>	<b>Gabriel Török</b>	For whom the disc slowly precesses
14:50–21:00	<b>Social Event (see page 45)</b>		

### 16<sup>th</sup> International Conference on Astronomical X-Ray Optics

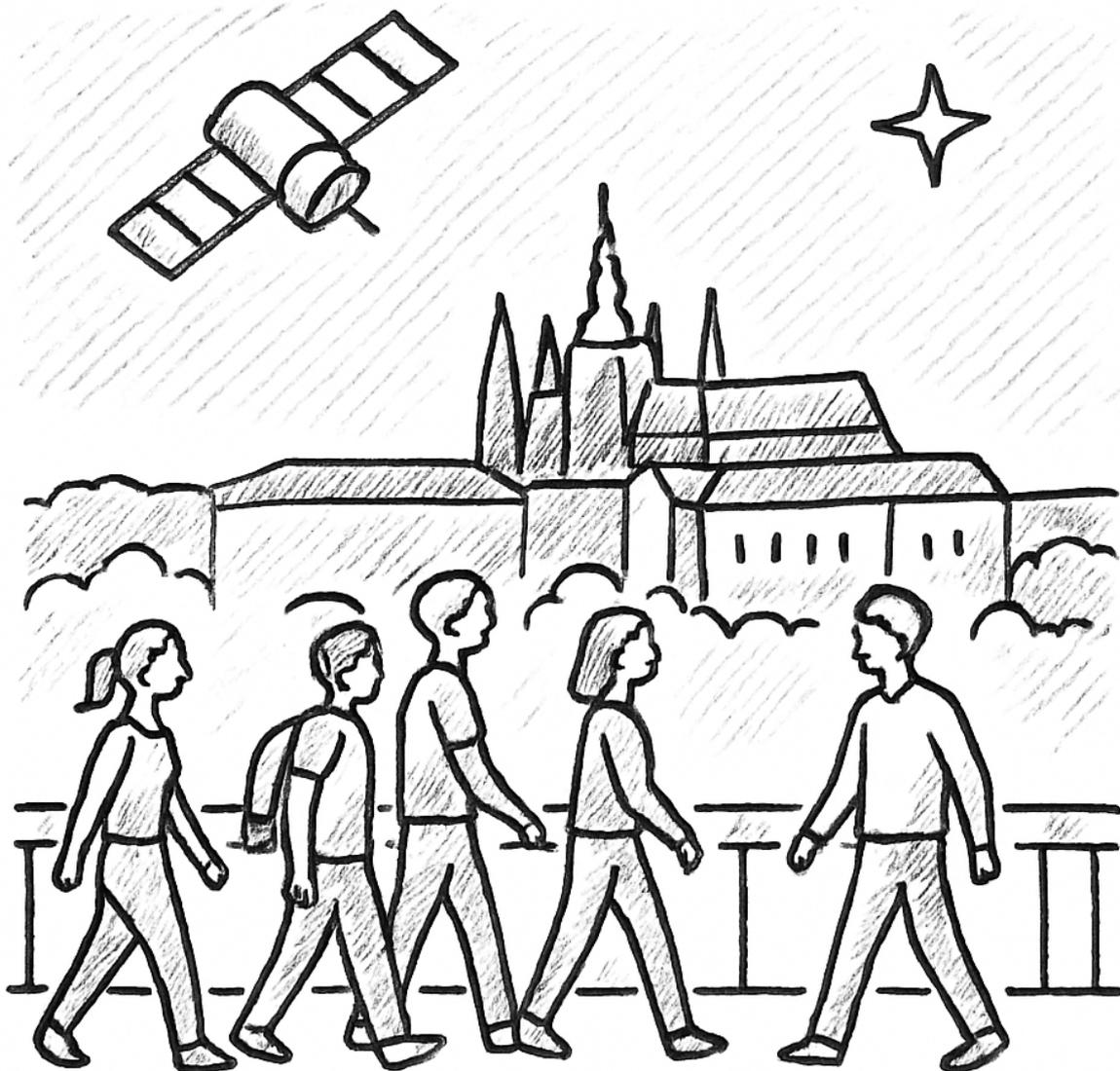
Vila Lanna, Prague, Czech Republic  
01 - 05 December 2025

Last updated on November 21, 2025 at 21:21 CET.  
The latest version can be found at: <https://www.axro.cz>

## Friday, 05 December

09:00–13:00

Social Prague Trip (see page 46)



End of workshop

### 16<sup>th</sup> International Conference on Astronomical X-Ray Optics

Vila Lanna, Prague, Czech Republic  
01 - 05 December 2025

Last updated on November 21, 2025 at 21:21 CET.  
The latest version can be found at: <https://www.axro.cz>