



## Monday, 4 December

13:45–14:15	<b>Registration</b>	
-------------	---------------------	--

### AHEAD Session chair: Rene Hudec

14:15–14:25		<b>Rene Hudec</b>	Opening workshop and Welcome notes
14:25–15:10	<b>AST</b>	<b>Franco Giovannelli</b>	The History of High Energy Experiments: from UHURU to IXPE
15:10–15:40	<b>OPT</b>	<b>Vadim Burwitz</b>	AHEAD2020: development and testing X-ray optics
15:40–16:00	<b>Coffee break</b>		

### AHEAD Session chair: Peter Predehl

16:00–16:30	<b>OPT</b>	<b>Rene Hudec</b>	Czech Contribution to AHEAD: Novel Lobster Eye and Kirkpatrick Baez X-ray Optics Modules
16:30–17:00	<b>OPT</b>	<b>Daniele Spiga</b>	Enhancing X-ray Mirror Performance with Carbon Dip-Coatings

19:00–23:00	<b>Welcome reception</b>	
-------------	--------------------------	--

### 14<sup>th</sup> International Workshop on Astronomical X-Ray Optics

Vila Lanna, Prague, Czech Republic

04 - 08 December 2023

Last updated on November 24, 2023 at 19:45 CET.



## Tuesday, 5 December

09:15–09:30	<b>Registration</b>
-------------	---------------------

### AHEAD Session chair: Rene Hudec

Opening workshop and Welcome notes		
09:30–09:40	<b>Michal Bursa</b>	Director of Astronomical Institute
09:40–09:50	<b>Zbyněk Škvor</b>	Vice-Rector of the Czech Technical University in Prague
09:50–10:00	<b>Karel Dobeš</b>	Government Commissioner for EU Agency for the Space Programme
10:00–10:15	<b>Rene Hudec</b>	AXRO introduction and historical background
10:15–10:30	<b>Coffee break</b>	

### AHEAD Session chair: Randall McEntaffer

10:30–10:50	<b>OPT</b>	<b>Vladimír Tichý</b>	LPSIMUL extra fast ray-tracing software
10:50–11:10	<b>DET</b>	<b>Daniele Spiga</b>	Advancement and future perspectives of BEaTriX
11:10–11:30	<b>OPT</b>	<b>Alex Bayerle</b>	Athena's X-ray mirror based on silicon wafers – advances in silicon pore optics manufacturing
11:30–11:50	<b>OPT</b>	<b>Ondřej Nentvich</b>	Data processing for all-sky monitoring based on Lobster-eye optics
11:50–13:10	<b>Lunch</b>		

### AHEAD Session chair: Daniele Spiga

13:10–13:30	<b>OPT</b>	<b>Vladimír Tichý</b>	Tests of Schmidt lobster eye based on new technology
13:30–13:50	<b>OPT</b>	<b>Yanji Yang</b>	Development of the Focusing Mirror in IHEP
13:50–14:20	<b>OPT</b>	<b>Wayne Baumgartner</b>	Full-Shell Replicated X-ray Optics at MSFC
14:20–14:40	<b>OPT</b>	<b>Veronika Stieglitz</b>	
14:40–14:55	<b>Coffee break</b>		


### 14<sup>th</sup> International Workshop on Astronomical X-Ray Optics

Vila Lanna, Prague, Czech Republic

04 - 08 December 2023



**Session chair: Herman Marshall**

14:55–15:15	<b>OPT</b>	<b>Danielle Gurgew</b> 	Thin film coating capabilities for X-ray optics at NASA Marshall Space Flight Center
15:15–15:35	<b>OPT</b>	<b>Jake McCoy</b>	Fabrication of a large-format blazed grating with radial grooves
15:35–16:00	<b>OPT</b>	<b>Fabien Grisé</b>	Fabrication of gratings on curved substrates using electron-beam lithography
16:00–16:15	<b>Coffee break</b>		

**Session chair: John Nousek**

16:15–16:45	<b>OPT</b>	<b>Frank Siewert</b>	Gratings for the soft- and tender-X-ray energy range - recent developments at Helmholtz Zentrum Berlin
16:45–17:30	<b>OPT</b>	<b>Randall McEntaffer</b>	The Off-plane Grating Rocket Experiment: international synergies for high-performance spectroscopy

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

**14<sup>th</sup> International Workshop on Astronomical X-Ray Optics**

Vila Lanna, Prague, Czech Republic

04 - 08 December 2023

Last updated on November 24, 2023 at 19:45 CET.



## Wednesday, 6 December

09:20–09:30	<b>Registration</b>		
-------------	---------------------	--	--

### AHEAD Session chair: Frank Siewert

09:30–10:00	<b>OPT</b>	<b>Alexandra Higley</b>	Early Results from Characterization of JET-X, Polished Silicon Optics and Off-Plane Reflection Gratings at the PANTER X-ray Test Facility
10:00–10:20	<b>OPT</b>	<b>Herman Marshall</b>	Steps Toward Milli-Arcsecond X-ray Astrophysical Imaging
10:20–10:40	<b>Coffee break</b>		

### AHEAD Session chair: Michal Zajaček

10:40–11:25	<b>AST</b>	<b>Franco Giovannelli</b>	The Impact of Space Experiments on the Knowledge of Our Universe
11:25–11:45	<b>AST</b>	<b>Martin Jelínek</b>	Search for common features in GRB optical and X-ray lightcurves
11:45–12:15	<b>AST</b>	<b>Daniele Fargion</b>	X Rays burst and flare in space from the Earth Horizons
12:15–13:35	<b>Lunch</b>		

### Session chair: Vadim Burwitz

13:35–13:55	<b>MIS</b>	<b>Lorenzo Natalucci</b>	Status of the AHEAD2020 Program
13:55–14:15	<b>MIS</b>	<b>John Nousek</b>	Flying Swift for 20 Years
14:15–14:40	<b>MIS</b>	<b>Peter Friedrich</b>	Investigations of the eROSITA “light leak”
14:40–15:00	<b>Coffee break</b>		

### Session chair: Vladimír Dániel

15:00–15:30	<b>MIS</b>	<b>Vojtech Simon</b>	X-ray observing the cosmic sources by the ESA–CAS satellite SMILE
15:30–15:55	<b>MIS</b>	<b>Norbert Werner</b>	QUVIK - Quick Ultra-Violet Kilonova surveyor
15:55–16:15	<b>MIS</b>	<b>Enrico Virgilli</b>	The XGIS instrument in the context of the THESEUS ESA M7 mission candidate
16:15–16:35	<b>Coffee break</b>		

## 14<sup>th</sup> International Workshop on Astronomical X-Ray Optics

Vila Lanna, Prague, Czech Republic

04 - 08 December 2023



**Session chair: Filip Münz**

16:35–16:55	<b>MIS</b>	<b>Lorenzo Natalucci</b>	GRINTA, an explorer of the transient sky
16:55–17:20	<b>MIS</b>	<b>Maxim Markevitch</b>	Line Emission Mapper - an X-ray Astrophysics Probe to reveal the hidden drivers of galaxy growth
17:20–17:45	<b>MIS</b>	<b>Herman Marshall</b>	Rocket Experiment Demonstration of a Soft X-ray Polarimeter (REDSOX)
17:45	<b>End of day</b>		

**14<sup>th</sup> International Workshop on Astronomical X-Ray Optics**

Vila Lanna, Prague, Czech Republic

04 - 08 December 2023

Last updated on November 24, 2023 at 19:45 CET.



## Thursday, 7 December

### Session chair: Peter Friedrich

09:30–09:50	<b>DET</b>	<b>David Hladik</b>	Optimizing the Timepix2 Hybrid Pixel Detector: An In-Depth Exploration of Detector Performance for Scientific and Industrial Applications
09:50–10:10	<b>DET</b>	<b>Martin Urban</b>	Timepix3: Temperature Effects on Radiation Energy Measurements
10:10–10:30	<b>DET</b>	<b>Filip Münz</b>	Performance of detectors on GRBAAlpha and VZLUSAT-2 nanosatellite missions
10:30–10:50			<b>Coffee break</b>

### Session chair: Dan Schwartz

10:50–11:30	<b>AST</b>	<b>Konrad Dennerl</b>	SRG/eROSITA and the first ever clear view of the soft diffuse X-ray sky
11:30–12:05	<b>AST</b>	<b>Peter Predehl</b>	The X-ray Bubbles at the Galactic Center
12:05–13:25			<b>Lunch</b>

### Session chair: Jiri Svoboda

13:25–13:55	<b>AST</b>	<b>Michal Zajaček</b>	Nuclear X-ray outbursts every 22 days
13:55–14:20	<b>AST</b>	<b>Gabriel Török</b>	Modulation mechanism of twin-peak quasi-periodic oscillations in neutron star X-ray binaries
14:20–14:45	<b>AST</b>	<b>Norbert Werner</b>	Multi-phase gas, accretion and jet power in early-type galaxies

15:00–22:00			<b>Social Event</b>
-------------	--	--	---------------------

### 14<sup>th</sup> International Workshop on Astronomical X-Ray Optics

Vila Lanna, Prague, Czech Republic

04 - 08 December 2023

Last updated on November 24, 2023 at 19:45 CET.



## Friday, 8 December

Session chair: **Konrad Dennerl**

09:30–10:00	<b>AST</b>	<b>Jiri Svoboda</b>	X-ray polarimetry view of stellar-mass accretion black holes
10:00–10:20	<b>AST</b>	<b>Vladimir Karas</b>	On particle acceleration near a magnetized rotating black hole
10:20–10:40	<b>AST</b>	<b>Dan Schwartz</b>	Synoptic Astrometry of the lensed Quasar HE0435-1223: X-ray Varstrometry
10:40–11:00	<b>AST</b>	<b>Maïmouna Brigitte</b>	Multiwavelength and X-ray polarimetric observations of the high-mass X-ray binary Cygnus X-1 during May 2023
11:00–11:15	<b>Coffee break</b>		
11:15–11:35		<b>Franco Giovannelli</b>	Concluding Remarks
11:35–11:55		<b>Rene Hudec</b>	Concluding address
12:00–13:00	<b>Lunch</b>		
13:00	<b>End of workshop</b>		

### 14<sup>th</sup> International Workshop on Astronomical X-Ray Optics

Vila Lanna, Prague, Czech Republic

04 - 08 December 2023

Last updated on November 24, 2023 at 19:45 CET.