

SCHEDULE

INV

SAT

HEA

GRB

HSF

Monday, May 25

Session Chair: René Hudec

14:00	Registration	
14:30	Welcome Notes	
14:40	René Hudec	IBWS Introduction and Historical Background
15:10	Hendrik van Eerten	Interpreting and modelling gamma-ray bursts and similar high-energy transients
15:40	Coffee break	

GRB Session I – Session Chair: Zsolt Bagoly

16:10	Alžběta Maleňáková	GRB optical afterglows: the first ten minutes
16:30	Martin Jelínek	Thermal electrons in an ultra-relativistic shock shape the optical afterglow of GRB 250702F
16:55	Istvan Racz	Synergizing Swift and VLT/X-shooter Observations
17:15	Sergey Karpov	The FRAM telescopes data archive
18 – 21	Dinner	

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Tuesday, May 26

GRB Session II – Session Chair: Mika Gelowicz

8:45	Registration	
9:00	Welcome notes Štěpánka Černá, M.A., MBA Member of the City Council and non-executive Councillor for Education and Physical Education of the City of Cheb Principal of the 6th Primary School in Cheb Member of the Regional Committee for Education, Training and Employment In 2025, she received the prestigious title “Principal of the Future 2024/25” Antonín Jalovec, M.A. – Principal of Gymnázium Cheb Former Mayor of Cheb	
9:20	Filip Novotný	Transient detection at the Ondrejov observatory
9:50	Zsolt Bagoly	Unified Sky Exposure Mapping of Gamma-Ray Bursts using Swift Data
10:10	Coffee break	

HEA Session I – Session Chair: Martin Jelínek

10:40	Ondřej Pejcha	Evolution of binary stars leading up to high-energy sources
11:10	Jan Ebr	Stars as probes of our own atmosphere
11:40	Lunch	

HEA Session II – Session Chair: Ondřej Pejcha

14:00	Kunal Bhardwaj	A photometric classifier for tidal disruption events in Rubin LSST
14:20	Kateřina Klimovičová	A systematic method for determining neutron star parameters from kilohertz quasi-periodic oscillations
14:40	Dimitris Tsatsis	An Updated Gamma-Ray Source Catalogue from INTEGRAL/SPI
15:15	Coffee break	

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Tuesday, May 26

HEA Session III – Session Chair: Istvan Racz

15:45	Gabriel Torok	Black hole spin and neutron star mass determined from rapid X-ray variability
16:15	Kristína Novotná	Constraining strange stars with astronomical observations
16:35	Saurabh Mittal	Contribution of Stellar flares to the 511 keV Galactic positron budget
16:55	Mika Gelowicz	Cosmological γ - γ Pair-Production Background
17:25	Manja Zimmerer	Determining the Contribution of Massive Stars and Classical Novae to the Radioactive Isotope ^{26}Al
18–21	Welcome Reception	

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Wednesday, May 27

HEA Session IV – Session Chair: Thomas Siegert

9:15	Registration	
9:30	Tauseef Ahmad Zafar	Detection of Compact Non-Dispersed Objects in Digitized Mt. Wilson Michigan Southern Sky Ha Survey Plates as Candidates for High-Redshift Sources
9:50	Bendegúz Koncz	Galaxy mergers history in the IllustrisTNG simulation
10:10	Laura Eisenberger	Observations of the dark matter halo of the Andromeda Galaxy with INTEGRAL/SPI
10:30	Coffee break	

HEA Session V – Session Chair: Gabriel Török

11:00	Thomas Siegert	Positron annihilation as an astrophysical messenger
11:30	Tomohiko Oka	Prospects for detecting nuclear de-excitation gamma rays from low-energy cosmic rays in the inner Galaxy
11:50	René Šprňa	Radial profiles of Fe K photoionization flux arriving from boundary layer
12:10	Tristan Bouchet	Spectro-polarization with INTEGRAL: application to Cygnus X-1
12:30	Nóra Varga	The Potential of the THESEUS Mission for Studies of Massive Young Stellar Objects

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Wednesday, May 27

HEA Session VI – Session Chair: Jan Ebr

12:50	Lunch	
14:00	Dorota Rosinska	Gravitational Wave Astronomy
14:35	René Hudec	Astrophysics with digitized archival astronomical photographic plates An Upgrade
14:55	Vojtěch Šimon	The variable recurrence times of outbursts in soft X-ray transients
15:15	Coffee and Poster Session	
16-18	Planetarium	
18-21	Dinner	

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Thursday, May 28

SAT Session I - Session Chair: Zsolt Bagoly

9:00	Registration	
9:20	Vojtěch Šimon	Astronomical observing with SXI/SMILE
9:45	Jakub Kapuš	CORVUS IOV: Demonstrating a Scalable ESA Pioneer CubeSat Platform
10:05	Rudi Reinhardt	Clearance Measurements with a Compton Camera
10:25	Coffee break	

SAT Session II - Session Chair: Tristan Bouchet

10:55	Klaus Schilling	Formations of Small Satellites Open Up New Application Fields
11:25	Jan Peter Lommler	From Hits to Data: Realizing COSI's potential with Machine Learning
11:50	Lucia Krivanekova	Stratospheric balloons as research platforms within the ASTRABAX project
12:10	Vladimír Tichý	Tests of Schmidt lobster eye based on new technology
12:30	Jakub Kapuš	Spacemanic Missions: Small Satellites for Space Weather, High-Energy Astrophysics and Amateur Radio
12:50	Bendegúz Koncz	LED testing strategy and optical optimisation of the THESEUS Infrared Telescope's Calibration Unit
13:10	Lunch	
15-18	Social Event, visit	
18-21	Conference Dinner	

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Friday, May 29

SAT Session III - Session Chair: Sergey Karpov

9:15	Filip Münz	QUVIK Science Operations
9:40	Michaela Ďuríšková	Overview of the scientific results of CubeSat missions GRBA α and GRBB β
10:00	Ulvi Mehralijev	Mathematical modelling of a piezoelectric accelerometer for aerospace application
10:20	Coffee break	

HSF Session I - Session Chair: Vratislav Šálený

10:50	Adam Mikeš	Modeling and Optimization of an Oxygen Mask for Aerospace Applications
11:10	Vratislav Šálený	Predicting Astronauts' Cognitive Performance on the ISS and on Earth
11:40	Tomáš Koutník	Probabilistic Optimization Modelling using AI in Aerospace Component Design
12:00	Thomas Siegert	Concluding remarks
12:20	René Hudec	20th IBWS Conference Concluding Address
12:40	Lunch	
14:00	End of the Conference	