

YOUNG ASTRONOMERS MEET



ORGANISED BY

NICOLAUS COPERNICUS ASTRONOMICAL CENTER
OF POLISH ACADEMY OF SCIENCES

18 -20 MARCH 2026



STELLAR ASTROPHYSICS
BINARY SYSTEMS
COSMIC DISTANCE SCALE
DENSE MATTER AND NEUTRON STARS
BLACK HOLES
ACCRETION PROCESSES
STRUCTURE AND EVOLUTION OF ACTIVE GALAXIES
GRAVITATIONAL WAVES
COSMOLOGY
DARK MATTER

FOR MORE INFORMATION

SCAN ME!



Coffee break + Posters



Barek



Poster

Lunch



Canteen



Lunch tickets

Day 1 - Black holes + Accretion Process

09:00	Registration <i>Mr Anirudh Nemmani, Tanja Kaister, Wen Xuan Sia</i>	Lecture Hall (Hybrid)	09:00 - 09:45
	Welcome address <i>Wen Xuan Sia</i>	Lecture Hall (Hybrid)	09:45 - 09:55
	A speech by the director of CAMK <i>Prof. Rafał Moderski</i>	Lecture Hall (Hybrid)	09:55 - 10:00
10:00	GeoPlanet Doctoral School - Recruitment 2026/2027 <i>Dr Radek Smolec</i>	Lecture Hall (Hybrid)	10:00 - 10:20
	Monitoring X-ray background from high energy particles on the board of NewATHENA mission <i>Agata Rozanska</i>	Lecture Hall (Hybrid)	10:20 - 10:40
	Coffee break	Lecture Hall (Hybrid)	10:40 - 11:00
11:00	Models of slim accretion disc around black holes with realistic viscosity prescription <i>Prof. Marek Abramowicz</i>	Lecture Hall (Hybrid)	11:00 - 11:20
	Accretion Discs and Outflow Phenomena in Accreting White Dwarf Binaries <i>Dr Krystian Iłkiewicz</i>	Lecture Hall (Hybrid)	11:20 - 11:40
	A Multi-Wavelength Exploration of Narrow-Line Seyfert 1 Galaxies <i>Dr Marzena Sniegowska</i>	Lecture Hall (Hybrid)	11:40 - 12:00
12:00	Lunch break	Lecture Hall (Hybrid)	12:00 - 13:30
13:00		Lecture Hall (Hybrid)	12:00 - 13:30

	X-Ray Data Analysis for AGNs <i>Pankshit Partha Biswas</i>	Lecture Hall (Hybrid)	13:30 - 13:50
14:00	Novel optical amplification structures for Dark Matter searches <i>Diego Rodas Rodríguez</i>	Lecture Hall (Hybrid)	13:50 - 14:10
	The Araucaria Project <i>Dr Weronika Narloch</i>	Lecture Hall (Hybrid)	14:10 - 14:30
	Observatory Cerro Murphy in Chile: Investing in Science, Technology, and Education <i>Dr Paulina Karczmarek</i>	Lecture Hall (Hybrid)	14:30 - 14:50
15:00	Coffee break	Lecture Hall (Hybrid)	14:50 - 15:10
	Long-term X-ray spectral variability study of the quasar PDS 456 <i>Fida Fathima S S</i>	Lecture Hall (Hybrid)	15:10 - 15:30
	Numerical analysis of GRMHD Kelvin-Helmholtz instability <i>Yauheni Stsefanenka</i>	Lecture Hall (Hybrid)	15:30 - 15:50
16:00	X-ray variability study of the NLS1 galaxy Ark 564 <i>NIKITA S ARUN</i>	Lecture Hall (Hybrid)	15:50 - 16:10
	Probing GRB Jet Physics with IceCube Neutrino Non-Detection Upper Limits <i>Chiranjeev Pradhan</i>	Lecture Hall (Hybrid)	16:10 - 16:30
	Monitoring X-ray background from high energy particles on the board of NewATHENA mission <i>Prof. Agata Rozanska</i>	Lecture Hall (Hybrid)	16:30 - 16:50

Day 2 - Gravitational Waves + Structure and evolution of active galaxies

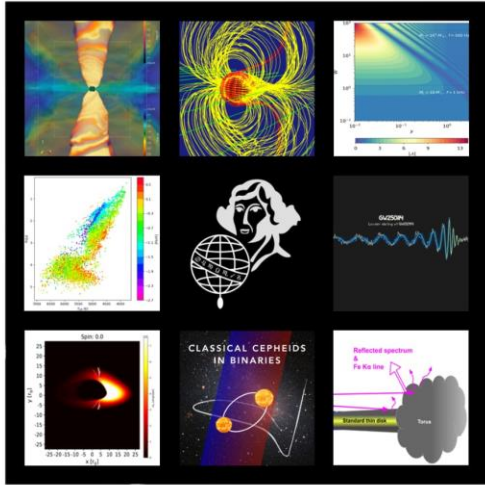
09:00	General-relativistic magneto-hydro-dynamical simulations of relativistic jets from accreting spinning black holes <i>Dr Krzysztof Nalewajko</i>	
	Numerical and analytical studies of Black Holes, wormholes, and naked singularities <i>Angelos Karakostas</i>	09:20 - 09:40
	From Binary Stars to Gravitational Wave Sources and Other Black Hole Populations <i>Dr Aleksandra Olejak</i>	09:40 - 10:00
10:00	Gravitational Wave Astronomy: A New Frontier in Astrophysics <i>Dr Sreekanth Hanikumar</i>	10:00 - 10:20
	Coffee break	10:20 - 10:40
	Microlensing effect in the long-duration gravitational wave signals <i>Sudhagar Suyamprakasam</i>	10:40 - 11:00
11:00	Detection of cosmic strings by gravitational wave lensing <i>Jakub Szyndler</i>	11:00 - 11:20
	Data analysis of long duration gravitational wave sources <i>Mr Anirudh Nemmani</i>	11:20 - 11:40
	How effectively can Neural Posterior Estimation infer the Neutron Star Equation of State? <i>Valéria Carvalho</i>	11:40 - 12:00
12:00	Lunch	
13:00		
		12:00 - 13:30

	Simulating Star Cluster Evolution: From Black Hole Nurseries to Synthetic Observations <i>Dr Abbas Askar</i>	13:30 - 13:50
	Development of a Novel Electrostatic Focusing Readout for Large-Scale Hybrid Time Projection Chambers in Neutrino... <i>Dr Pedro Silva</i>	
14:00	Exploring spectral dynamics of Argon scintillation from scintillation, threshold to breakdown voltage in MPGD structures <i>Dr Pedro Silva</i>	
	Origin, evolution, and physical properties of Cepheids based on the study of newly detected binary Cepheids <i>Dr Bogumil Pilecki</i>	
	How can we identify galaxies that have stopped forming stars in the early universe? <i>Sara Alonso Arroyo</i>	14:30 - 14:50
	Coffee break	14:50 - 15:10
15:00	Dust Attenuation Proxy: A Key Component in Future LSST Data Analysis <i>Patryk Matera</i>	15:10 - 15:30
	Insights into Hierarchical Star Formation in Nearby Galaxies from UVIT Ultraviolet and Optical Observations <i>Ananthu Sanal</i>	
	Accretion flow around fast-spinning compact objects <i>Sukaipa Kundu</i>	15:50 - 16:10
16:00	Alignment of spiral and elliptical galaxies with cosmic filaments <i>Yuvraj Muralichandran</i>	16:10 - 16:30

Day 3 - Binary systems + Dark matter + Stellar Astrophysics

09:00	Dark matter's influence on the evolution of massive binary black holes in dwarf galaxies: a case study of the Leo I dwarf... <i>Muhammad Junaid</i>	
	Convective boundary mixing in upper main sequence stars: thermally relaxed magnetohydrodynamic simulations <i>Arkaprabha Roy</i>	
	MOA-2012-BLG-355: a planetary microlensing event in the vicinity of a variable star <i>Lecture Hall (Hybrid)</i>	<i>Joanna Pusz</i> 09:40 - 10:00
10:00	Stellar mergers: what happens when stars collide? <i>Lecture Hall (Hybrid)</i>	<i>Thomas Steinmetz</i> 10:00 - 10:20
	Coffee break <i>Lecture Hall (Hybrid)</i>	10:20 - 10:40
	Classical Cepheids in Binary Systems <i>Lecture Hall (Hybrid)</i>	<i>Felipe Espinoza</i> 10:40 - 11:00
11:00	Finding the Sweet Spot: Modelling of Oscillating Red Giant Binaries <i>Lecture Hall (Hybrid)</i>	<i>Inès Armentoy</i> 11:00 - 11:20
	Stellar age determination using chemical clocks calibrated with detached eclipsing binaries: PART I <i>Lecture Hall (Hybrid)</i>	<i>Anish Kalsi</i> 11:20 - 11:40
	Life at CAMK Torun <i>Lecture Hall (Hybrid)</i>	<i>Mr Ganesh N. Pawar</i> 11:40 - 12:00
12:00	Life at CAMK Warsaw <i>Lecture Hall (Hybrid)</i>	<i>Mr Anirudh Nemmani et al.</i> 12:00 - 12:20
	Concluding remarks <i>Lecture Hall (Hybrid)</i>	<i>Wen Xuan Sia</i> 12:20 - 12:25

Souvenirs



YOUNG
ASTRONOMERS
MEET



- Credits to Tanja and Sreekanth for designing them
- Many thanks to CAMK PhD students for providing their pictures
- The souvenirs contain:
 - Tote bag
 - Mug
 - Pen
 - Noteapad