

# 5th Meeting of Young Astronomers

March 2-4, 2022 (ONLINE)

Organized by Nicolaus Copernicus Astronomical Center  
of the Polish Academy of Sciences (CAMK PAN)

March-02			Chair/Moderator
Start of the Conference			
13:00 (30 mins)	A speech by the director of Nicolaus Copernicus Astronomical Center.	Piotr Życki	Chair: Aleksandra Olejak  Moderator: Tilaksingh Pawar
13:30 (30 mins)	A speech by the coordinator of the GEOPLANET doctoral school	Radosław Smolec	
14:00 (60 mins)	Lunch break		
Afternoon Session			
15:00 (20 mins)	Gravitational-wave astrophysics enhanced by machine learning	Michał Bejger	Chair: Fatemeh Kayanikhoo  Moderator: Sergen Özdemir
15:20 (30 mins)	X-ray fingerprints of accreting compact objects	Agata Różańska	
15:50 (30 mins)	Direct Dark Matter detection experiment with liquid argon Time Projection Chamber	Masayuki Wada	
16:20 (20 mins)	Coffee break		
Evening Session			
16:40 (20 mins)	Mergers of non-compact stars	Tomek Kamiński	Chair: Chandra Shekhar Saraf  Moderator: Sarthak Choudhary
17:00 (30 mins)	Extragalactic distance scale	Grzegorz Pietrzyński	
17:30 (20 mins)	TRGB and the Hubble tension	Marek Gorski	
17:50 (20 mins)	Q&A Session		

March-03			
Morning Session			
11:00 (20 mins)	Evolution of massive stars and binaries and studies of gravitational-wave sources.	Krzysztof Belczynski	Chair: Chandra Shekhar Saraf  Moderator: Aleksandra Olejak
11:20 (20 mins)	<i>CREME de la creme</i> of eclipsing binaries	Krzysztof Helminiak	
11:40 (20 mins)	Galactic Archaeology	Rodolfo Smiljanic	
12:00 (20 mins)	Neutron stars: the most extreme object in space	Ankan Sur	
12:20 (20 mins)	Coffee Break		
Midday Session			
12:40 (20 mins)	Extreme Cosmic Environments Dominated by Magnetic Field	Krzysztof Nalewajko	Chair: Marzena Śniegowska  Moderator: Tilaksingh Pawar
13:00 (20 mins)	Energy dissipation in astrophysical simulations	Fatemeh Kayanikhoo	
13:20 (20 mins)	Numerical simulations in accreting systems with Pluto and Koral codes	Miljenko Čemeljić	
13:40 (80 mins)	Lunch Break		
Afternoon Session			
15:00 (20 mins)	Feedback between jets and the central engine in Gamma Ray Bursts	Agnieszka Janiuk	Chair: André da Silva  Moderator: Sergen Özdemir
15:20 (20 mins)	Observations of AGN variability and its cosmological applications	Bożena Czerny	
15:40 (20 mins)	Applications of sensor arrays in the areas of acoustic and seismic signal processing	Mariusz Suchenek	

16:00 (20 mins)	Coffee Break		
5 min talks Session			
16:20 (5min)	Characterizing the behavior of SN 2013he: a luminous, short plateau supernova	Darshana Mehta	
16:25 (5min)	Constraining the black hole mass in NGC1313 X-1 using broadband spectra: A comparative study	Biswaraj Palit	
16:30 (5min)	The morphology and imaging of Blazar jets through RMHD simulations	Paramvir Singh	
16:35 (5min)	Challenges in evolutionary modeling of helium-burning stars	Oliwia Ziółkowska	
16:40 (20 mins)	Q&A Session		

<b>March-04</b> <b>(Slots available for the participants)</b>			
Morning Session			
11:00 (20 mins)	PhD studies in Torun	Ayush Moharana	Chair: André da Silva  Moderator: Sarthak Choudhary
11:20 (20 mins)	PhD studies in Warsaw	Chandra Shekhar Saraf	
11:40 (10 mins)	Q&A Session		
11:50 (10 mins)	Coffee break		
Midday Session			
12:00 (20 mins)	TBA	SUVAS CHANDRA CHAUDHARY	Chair: Aleksandra Olejak  Moderator: Sergen
12:20 (20 mins)	Inside-Out Planet Formation. VII.	Arturo Cevallos Soto	

	Astrochemical Models of Protoplanetary Disks and Implications for Planetary Compositions		Özdemir
12:40 (20 mins)	Signatures of unequal-mass binary black hole mergers.	Hamideh Hosseini	
13:00 (60 mins)	Lunch		
Afternoon Session			
14:00 (20 mins)	The chemical evolution of the Milky Way galaxy	Tejpreet Kaur	Chair: Tilaksingh Pawar  Moderator: Marzena Sniegowska
14:20 (20 mins)	How many symbiotic stars populate the Local Group galaxies?	Marco Laversveiler	
14:40 (20 mins)	Modeling of the kilonova phenomenon from the r-process of elements in gamma-ray burst engines.	Michał Przerwa	
15:00 (20 mins)	Multi-wavelength Study of Magnetic Cataclysmic Variables using AstroSat	Abhinna Sundar Samantaray	
15:20 (20 mins)	Identifying non-linear noise couplings in gravitational wave data	Sudhagar Suyamprakasam	
15:40 (20mins)	Selection and spectroscopic confirmation of PNe and SySt: VPHAS+ and AllWISE candidates	Giovanna Liberato	