

# 27<sup>th</sup> Meeting on Research in Astronomy IASBS

21 – 23 May 2025

*First Day (21th May) Local Time in Tehran(TEH) = Central European Summer Time (CEST) +1:30*

Time	Presenter	Title	Chair
8:00 – 09:30	Welcome and Registration		
09:30 – 10:15	<ul style="list-style-type: none"><li>• Opening</li><li>• Somayeh Sheikhnezami (Chair)</li><li>• Sadollah Nasiri Gheydari (University president)</li><li>• Moein Mosleh (Head of Astronomical Society of Iran)</li></ul>		
10:15 – 11:00	Yousef Sobouti IASBS	A wave Function for Protons and Neutrons	Mohammad Vahidinia
11:00 – 11:40	Moein Mosleh Shiraz University	Beyond the Whole: Resolved View of Galaxies and the Quest for the Cosmic Origin	
11:40 – 12:00	Hossein Torkzadeh Isfahan University of Technology	Calibration of Astronomical Images from the 3.4-Meter Telescope of the Iranian National Observatory	
Lunch			
14:00 – 14:40	Mahmoud Roshan Ferdowsi University of Mashhad	Galactic Bar Pattern Speeds: Insights from JWST Mock Observations	Mohammad Malekjani
14:40 – 15:20	Ali Rostami IASBS	Dark Clusters vs. Dark Matter: Reinterpreting Faint ambiguous satellite	
15:20 – 15:40	Nasrin Nari Ferdowsi University of Mashhad	Dynamical Friction in Coupled Dark Energy Models	
Break + Poster			
16:00 – 16:40	Mojtaba Raouf Leiden University	The impacts of AGN feedback on the dynamics of gas	Reza Rezaie
16:40 – 17:00	Roza Rezaei University of Tabriz	Dissipation of magnetoacoustics waves in coronal loops in the presence of viscosity	
17:00 – 17:20	Somayeh Taran University of Tabriz	Correlation Analysis Between Solar Surface Magnetic Fields and Coronal X-ray Emissions	
17:20 – 17:40	Meisam Honari Jafarpour IASBS	Magnetic Field Configuration Considering Magnetohydrostatic Equilibrium in the Solar Atmosphere	
17:40 – 18:00	Hesam Naderi Sharif University of Technology	MHD simulation of interaction between matter and electromagnetic field in the interstellar medium	
19:00 – 20:30	Dinner		

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Time	Presenter	Title	Chair
9:00 – 9:40	Sohrab Rahvar Sharif University of Technology	On Searching Black Holes	Kiomars Karami
9:40 – 10:00	Farideh Mazoochi IPM	The Role of Thermal and Non-Thermal Emissions in the Interstellar Environment Around the Supermassive Black Hole of the Milky Way Galaxy	
10:00 – 10:20	Fatemeh Akhondi Vakilabad K. N. Toosi University of Technology	Detection of new gamma-ray AGN candidates using SIMEFIC III and DBSCAN in Fermi-LAT data	
10:20 – 10:40	Mohammadbagher Sharifmoghaddam Amirkabir University of Technology	Observational Evidence of a Supernova Activity in the Lambda Orionis Region Based on Gaia Data	
Break + Poster			
11:00 – 11:40	Pooneh Nazari European Southern Observatory	From Gas and Ice to Planets: Early Disk observations with ALMA and JWST	Sohrab Rahvar
11:40 – 12:00	Faezeh Saberi IASBS	The evolution of a proto-planetary disk interacting with an embedded planet	
12:00 – 12:20	Danial Almasian Shahid Beheshti University	Investigation of the Exoplanet HD 88986b Using Data from the TESS and CHEOPS Space Telescopes	
Lunch			
14:00 – 14:40	Nima Khosravi Shahid Beheshti University	Cosmological tension	Mahmood Roshan
14:40 – 15:20	Mahdiyar Mousavi Sadr IPM	Exploring Exoplanetary Radio Emission in the SKAO Era	
15:20 – 15:40	Alireza Allahyari Kharazmi University	Testing Lorentz Violation with Gravitational Waves in Light of NANOGrav and IPTA Observations	
Break + Poster			
16:00 – 16:40	Mohammad Hossein Zholideh K. N. Toosi University of Technology	Automated Protection of Observatories via All-Sky imaging and Deep Learning	Mehdi Khakian
16:40 – 17:00	Mohammad reza Shojaei IPM	Evolution of Magnetic Fields in Disk Galaxies: Correlations with Galactic Properties Through Redshift Using Cosmological Simulations	
17:00 – 17:20	Aysan Hemmatiortakand Sharif University of Technology	Star Formation Rate in Local Irregular Galaxies	
17:20 – 18:00	Short Talks by Poster presenters		-
19:00 – 20:30	Dinner		
20:30 – 21:30	Gathering		

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Time	Presenter	Title	Chair
9:00 – 9:40	Golshan Ejlali IPM	Looking into the InterStellar Medium of Nearby Galaxies	Vahid Taghiloo
9:40 – 10:00	Mohsen Javaherian University of Maragheh	Relationship between the Symmetry of Radio Galaxies and Their Physical Parameters	
10:00 – 10:20	Soroush Shakeri Isfahan University of Technology	Recent Progress in the Iranian National Observatory for Transient Event Monitoring	
10:20 – 10:40	Mojtaba Ghasemi IASBS	The effect of primordial mass segregation on the tidal tail structure of star clusters	
Break + poster			
11:00 – 11:40	Mohsen Shamohammadi Swinburne University of Technology	Searches for Shapiro delay in seven binary pulsars using the MeerKAT telescope	Taghi Mirtorabi
11:40 – 12:00	Zahra Tabatabaie Sharif University of Technology	Experimental Tests of Gauge Invariant MOG (GIMOG)	
12:20 – 12:40	Seyyed Masoud Hoseyni Khayyam University	Study of the Magnetized Relativistic Accretion Disk Around a Distorted Black Hole	
12:40 – 13:00	Closing		
Launch			