

26th Meeting on Research in Astronomy IASBS

8 – 10 May 2024

First Day (8th May) Local Time in Tehran(TEH) = Central European Summer Time (CEST) +1:30

Time	Presenter	Title	Chair
9:00 – 10:00	Welcome and Registration		
10:00 – 10:20	<ul style="list-style-type: none"> • Opening • Dr. Somayeh Sheikhezami (Chair) • Dr. Babak Karimi (University president) • Dr. Moein Mosleh (Head of astronomical society of Iran) 		
10:20 – 11:00	Yousef Sobouti IASBS	Remove point-particle concept – remove singularities from GR	Hosein Hagi
11:00 – 11:40	Shant Baghram Sharif University of Technology	Local limit of non-local gravity: Cosmological investigations	
11:40 – 12:20	Seyed Mohammad Sadegh Movahed Shahid Beheshti university	Probing Cosmology via Morphology: Redshift-Space distortions and Massive Neutrinos Imprint	
Lunch			
14:00 – 14:40	Soroush Shakeri Isfahan University of Technology	Neutron Stars as Multi-messenger Laboratories for Dark Matter	Akram Hasani Zonoozi
14:40 – 15:20	MohammadTaghi Mirtorabi Azzahra University	GRBs, the most energetic phenomenon in the universe	
15:20 – 15:40	Mohsen Javaherian Research Institute of Astronomy- Maragha	Analyzing Morphological Characteristics of Radio Galaxies	
Break + Poster			
16:00 – 16:40	Alexandre Vazdekis Instituto de Astrofísica de Canarias	Fine-Tuning Galaxy Evolution: Insights into Initial Mass Function from Stellar Populations Analyses	Moein Mosleh
16:40 – 17:00	Mohammadreza Shojaei Kharazmi University	Mass-Size Relation of Galaxies: A Comparative Analysis Across Varying Environments	
17:00 – 17:20	Ali Pourmand University of Alberta	Accurate Simulations of Binary Stars up to Mass Transfer Ignition	
17:40 – 18:00	Mehran Soor K.N. Toosi University of Technology	SIMEFIC III: A New Method for Noise Reduction In 2-Dimensional Gamma-Ray Images	
18:00 – 18:20	Remo Ruffini I.C.R.A. Network	ICRANet-Isfahan Astronomy Meeting: from Ancient Persian Astronomy to Recent Developments in Theoretical and Experimental Physics, Astrophysics, and General Relativity	
19:00 – 20:30	Dinner		

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Time	Presenter	Title	Chair
9:00 – 9:40	Asieh Yaghoobi IPM	Star Formation in Live Star Clusters Based on the AGB Scenario	Kayoomars Karami
9:40 – 10:20	Sareh Ataiee Ferdowsi University of Mashhad	Back to the past: modeling the formation of resonant planetary systems tell us about their parent discs	
10:20 – 10:40	Zahra Afkanpoor Ferdowsi University of Mashhad	Over-stability in planet-disc interaction with hydrodynamic simulations	
Break + Poster			
11:00 – 11:40	Christian Fendt Max Planck Institute for Astronomy	Launching Astrophysical Jets: MHD Simulations of Accretion, Ejection & Dynamo Action	Somayeh Sheikhnezami
11:40 – 12:00	Elham Noori IASBS	MHD Jet Launching from a diffusive viscous magnetized accretion disk	
12:00 – 12:20	Abolfazl DinMohammadi University of Zanjan	Directional effects in detection of dark matter with ultra-low threshold solid state detectors	
Lunch			
14:00 – 14:40	Reza Rezaei Sharif University of Technology	Evaluation of Optical Quality in Astronomical Images	Mohammad Vahidinia
14:40 – 15:20	Amin Farhang IPM	An O-type Magnetic Star	
15:20 – 15:40	Ali Rostami IASBS	Origin of the Metal-Rich vs. Metal-Poor Globular Clusters System Dichotomies in the Milky Way	
Break + Poster			
16:00 – 16:40	Mario Flock Max Planck Institute for Astronomy	Rim Worlds: Computational astrophysics of accretion disks	Sareh Ataiee
16:40 - 17:00	Mohamad Hoseini rad Sheikh Bahaei HPCCenter	Magnetic field of the central disk galaxies in the TNG simulation	
17:00 – 17:40	Short Talks by Poster presenters		Ghasem Safaiee
Q&A session			
19:00 – 20:30	Dinner		

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Time	Presenter	Title	Chair
9:00 – 9:40	Haidar Sheikhamadi IPM	Vacuum Zero point Energy and Bubble Loop Corrections in dS Background	Asieh Karami
9:40 – 10:00	Atousa Kalantari IASBS	Developing Algorithms for Detecting Microlensing Signals in TESS	
10:00 – 10:20	Amirmasoud Jannat Isfahan University of Technology	The Effect of Supernovae Type I Luminosity on the Disruption of Dust Grains via RATD Mechanism	
10:20 – 10:40	Zahra Shokri University of Zanjan	Correlation of solar activity and its rotation during cycle 24 from SDO/AIA Observations	
Break + poster			
11:00 – 11:20	Mohammad Riahi Zamin Shiraz University	Investigating Recent Star-Formation History of Galaxies and Analyzing their Stochastic Behavior	Mehdi Khakian
11:20 – 11:40	Shahriar Motamedi IASBS	Comparing dynamical friction in Newtonian and Milgromian dynamics	
11:40 – 12:00	Maryam Hasheminia IASBS	Size Evolution of Star-Forming Galaxies over the past 10 Gyr: a Comparison with Simulations	Mehdi Khakian
12:00 – 12:20	Mojtaba Kazemi Amikabir university	A modified DBSCAN-GMM method to optimize OCs' membership probability using Gaia DR3	
12:20 – 12:40	Closing		
Launch			