Schedule:- Star Formation Studies in India (SF2024) Venue: Silver Jubilee Hall, SNBNCBS

IT: Invited Talk (15+5 min), CT: Contributed Talk (10+5 min)

Day 1: Monday, 08 January 2024

09:30-09:35	Welcome Address			
09:35-09:45	Opening Remark by Director, SNBNCBS			
09:45-09:55	Welcome Remark by SOC Chair			
	Session I: Star-forming Filaments			
	Chairs: Sarita Vig and Santosh Joshi			
10:00-10:20	IT	Devendra K. Ojha TIFR, Mumbai	Disk-mediated accretion bursts in low- and high-mass young stellar objects	
10:20-10:40	IT	Saurabh Sharma ARIES, Nainital	Role of filaments in the formation of stars in the NGC 2316 star cluster	
10:40-10:55	СТ	Veena V S MPIfR, Germany	Star Formation in Extreme Environments: A 200 pc High Velocity Cloud in the Galactic Centre	
10:55-11:45	Group Photo + Poster Viewing + Tea Break			
11:45-12:00	СТ	Kshitiz Mallick ARIES, Nainital	Exploring High-mass star formation at the junction of filaments in Sh2-112	
12:00-12:15	ст	Jyotirmoy Dey IIST, Thiruvananthapuram	G18.148–0.283: a case study of the cloud-cloud collisions as a mechanism for high-mass star formation	
12:15-12:30	СТ	Arup Kumar Maity PRL, Ahmedabad	Origin of Hub-Filament Systems through Cloud-Cloud Collision	
12:30-12:45	СТ	Sonu Tabitha Paulson TIFR, Mumbai	Investigating the Earliest Stages of High-Mass Star Formation	
12:45-13:00	СТ	Arun Seshadri IIST, Thiruvananthapuram	Multiwavelength investigation of the star-forming complex G12.79+0.43	
13:00-14:15		Lun	ch at Basundhara Building	
		Session II: Interstell	ar Medium and Feedback	
	Chairs: Neelam Panwar and Lokesh Dewangan			
14:15-14:35	IT	Bhaswati Mookerjea TIFR, Mumbai	PDRs: The irradiated neutral ISM	
14:35-14:55	IT	Maheswar Gopinathan IIA, Bengaluru	Rocket effect in molecular clouds near O-type stars	
14:55-15:10	ст	Nirupam Roy IISc, Bangalore	Fire burn and cauldron bubble: Missing supernova remnants and prospect of detecting them at low radio frequency	
15:10-15:25	ст	Mridusmita Buragohain University of Hyderabad	Observational search of PAHs footprints using SUBARU/COMICS telescope	

15:25-15:40	СТ	Aayushi Verma ARIES, Nainital	Exploring Stellar Cluster and Feedback-driven Star Formation in the Galactic Midinfrared Bubble [HKS2019] E70
15:40-15:55	ст	Sudeshna Patra IISER Tirupati	The role of metallicity on the mass-luminosity conversion factor derived from dense gas
15:55-16:25	Tea Break		
Session III: Planet formation and Exoplanets			
Chair: Anandamayee Tej			
16:25-16:45	IT	Abhijit Chakraborty PRL, Ahmedabad	Discovery of two exoplanets with extreme densities with PARAS: TOI4603b and TOI1789b
16:45-17:05	IT	Jessy Jose IISER, Tirupathi	Proto-planetary disk evolution: Role of external factors
17:05-17:25	IT	Liton Majumdar NISER, Bhubaneswar	Constraining the initial conditions for the formation of extra-solar planets and their atmospheres
17:25-17:40	ст	Swastik Chowbay IIA, Bengaluru	The Search for Planet around LkCa 15 protoplanetary disk
20:00-21:30	Dinner at Basundhara Building		
End of Day 1			

Day 2: Tuesday, 09 January 2024

Session IV. Star formation at high resolution				
	Chairs: Bhaswati Mookerjea and Maheswar Gopinathan			
09:30-09:50	IT	Anandamayee Tej IIST, Thiruvanandthapuram	Perspectives on high-mass star formation: Results from the ATOMS survey	
09:50-10:10	IT	Lokesh Dewangan PRL, Ahmedabad	Unearthing the hidden structures in star-forming regions: Results from JWST	
10:10-10:30	ІТ	Manoj P. TIFR, Mumbai	Investigating Protostellar Accretion and Outflow: JWST NIRSpec and MIRI IFU Mapping of Young Protostars Across the Mass Spectrum	
10:30-10:50	IT	Jagadheep Pandian IIST, Thiruvanandthapuram	The physics of high-mass star formation: a fragmentation study of ATLASGAL dust clumps	
10:50-12:15		Poster Viewing + Tea Break		
12:20-12:40	IT	Somnath Dutta Academia Sinica, Taiwan	Episodic Accretion in Protostars - An ALMA Survey of Molecular Jets in the Orion Molecular Cloud	
12:40-12:55	ст	Sabyasachi Pal Midnapore City College	Study of possible glycine precursor molecules towards the hot molecular core G10.47+0.03	
12:55-13:10	ст	Anindya Saha IIST, Thiruvananthapuram	Study of fragmentation and multiscale gas dynamics in two protoclusters with ALMA	
13:10-14:15	Lunch Break at Basundhara Building			

14:15-14:30	СТ	Naval Kishor Bhadari PRL, Ahmedabad	Dynamics of the inner environment of a hub-filament system hosting massive young stellar object W42-MME	
14:30-14:45	СТ	Arijit Manna Midnapore City College	Detection of phosphorus nitride and other complex organic molecules towards the high-mass protostar IRAS 18089–1732	
	Session V. Instrumentation			
Chair: Sreeja S Kartha				
14:45-15:05	IT	Joe P. Ninan TIFR, Mumbai	Pushing the boundaries of star and planet formation by developing new spectrographs	
15:05-15:20	СТ	Arun Surya IIA, Bengaluru	Design advancement of MOIS : A configurable slit multi-object infrared spectrograph and wide field imager	
15:20-15:35	СТ	Supriyo Ghosh U. of Hertfordshire, UK	An actively controlled fibre-fed optical spectrograph EXOhSPEC	
15:35-16:00	-16:00 Tea Break			
16:00-17:15	5 Bose Colloquium by Prof. Dipankar Banerjee			
19:30-21:30	Conference Dinner at Stadel			
End of Day 2				

Day 3: Wednesday, 10 January 2024

Session VI. Pre-main Sequence Stars and Variability				
	Chair: Mousumi Das			
09:30-09:50	IT	Sarita Vig IIST, Thiruvanandthapuram	Non-thermal emission from massive protostellar jets	
09:50-10:05	ст	Arpan Ghosh ARIES, Nainital	Monitoring of episodically accreting Young Stellar Objects	
10:05-10:20	ст	Shridharan Baskaran CHRIST U., Bengalore	Disentangling the two sub-populations of early Herbig Be stars using VLT/X-shooter spectra	
10:20-10:35	СТ	Nidhi Sabu CHRIST U., Bangalore	Evaluation of varying mass accretion rate with mass in PMS stars	
10:35-11:45	Poster Viewing + Tea Break			
	Session VII. Stellar clusters			
	Chair: Blesson Mathew			
11:45-12:05	IT	Yogesh Joshi ARIES, Nainital	Photometric, kinematic and variability study in the young and intermediate-age open clusters	
12:05-12:25	IT	Manash R. Samal PRL, Ahmedabad	Formation and early evolution of star clusters: the case of FSR 655 and NGC 2516	

12:25-12:45	IT	Neelam Panwar ARIES, Nainital	Multi-wavelength Studies of Young Star Clusters and HII regions
12:45-13:00	ст	Ranjan Kumar PRL, Ahmedabad	An investigation of the formation channels of blue straggler stars in the Galactic globular cluster M68
13:00-13:15	ст	Harmeen Kaur Kumaun U., Nainital	Structural morphology and star formation scenario in young star clusters
13:15-14:30	Lunch Break		
14:30-19:00	Open for City Tour (Personal)		
20:00-21:30	Dinner at Basundhara Building		
End of Day 3			

Day 4: Thursday, 11 January 2024

Session VIII. Magnetic fields in star-forming regions				
	Chair: Jessy Jose			
09:30-09:50	IT	Eswariah Chakali IISER, Tirupathi	The interplay between magnetic fields, turbulence, and gravity and its significance	
09:50-10:05	ст	Piyali Saha NAOJ, Japan	Magnetic Fields in Massive Star-forming Regions (MagMaR) unveiled by ALMA	
10:05-10:20	ст	Ram Kesh Yadav NARIT, Thailand	Witnessing Star Formation in Galactic Bubble and Filamentary Systems	
10:20-10:50			Tea Break	
Session IX. Extra-galactic star formation				
Chair: Soumen Mondal				
10:50-11:10	IT	Mousumi Das IIA, Bengaluru	The Rules of Star formation in Galaxies : from Small Scales to Large Complexes	
11:10-11:30	ІТ	Sreeja S Kartha CHRIST, Bengaluru	Harmony of the Cosmos: unveiling the interwoven threads of star formation and galactic evolution in secular and environmental contexts	
11:30-11:45	СТ	Ananta Charan Pradhan NIT, Rourkela	Tracing star formation in void and filament galaxies	
11:45-12:00	ст	Susmita Barman University of Hyderabad	Effect of high-mass stars on the properties of ISM in N44 of the LMC	
12:00-12:15	ст	Souvik Manna SNBNCBS, Kolkata	Observation of Radio Continuum Halos of 8 Nearby Large Galaxies using uGMRT	
12:15-13:00	12:15–13:00 Discussion and Conclusion of the conference; Chair: Devendra K. Ojha			
13:00-14:30	13:00–14:30 Lunch Break			
End of the conference				