

18th IMPRS Symposium

November 14 – 15, 2024

MPA E.O.11 Seminar Room

Thursday Morning Session (Nov 14)

09:00 – 12:05

Chair: Ivana Nikolac

GALAXY FORMATION AND EVOLUTION		
09:00	Reza Ayromlou, AlfA	Overview Talk
09:30	Hans-Christian Poosch, MPE	Characterising Large-Scale Gas Filaments in Star-Forming Galaxies
09:50	Zsofi Igo, MPE	The global energetics of radio AGN kinetic feedback in the local universe
10:10	Coffee Break (20 mins)	
10:30	LOC	Official Opening
10:40	Jelena Ritter, MPA	Modelling of gas absorption features in the halos of high-redshift radio galaxies
11:00	Giovanni Tedeschi, USM/LMU	Simulating dust dynamics in SPH and MFM hydrodynamical simulations
11:20	Hitesh Kishore Das, MPA	Challenges of simulating astrophysical turbulence and multiphase gas (Blackboard Talk)
11:40	Aniket Bhagwat	Connecting stellar feedback in the first galaxies and cosmic reionisation (Blackboard Talk)

Thursday Afternoon Session (Nov 14)

13:15 – 17:05

Chair: Alejandro Pérez Fernández

STELLAR EVOLUTION AND ASTROPHYSICS		
13:15	Taeho Ryu, MPA/JILA	Overview Talk
13:45	David Kaltenbrunner, MPE	A history lesson held by HMXB
14:05	Ruggero Valli, MPA	X-ray binaries reveal three modes of neutron star formation
14:25	Coffee Break (20 mins)	
14:45	Katlego Ramalatswa, MPA	Shell-merger in 3D Core-Collapse Supernova Progenitors
15:05	Katharina Giers, MPE	Chemical structure of the prestellar core L1544
15:25	Farideh Tabatabaei, MPE	The Snake Filament: A study of polarization and kinematic properties
15:45	Coffee Break (20 mins)	
16:05	Wiebke Riedel, MPE	Forming deuterated methanol in pre-stellar core conditions
16:25	Theodore Pellegrin, MPE	Molecular Dynamics Simulations of OPAH Behaviour in the ISM.
16:45	Catarina Aydar, MPE	Optical spectra of X-ray selected AGN

Friday Morning Session (Nov 15)

09:30 – 13:00

Chair: Melika Sarrami

MILKY WAY AND SMALLER SCALES		
09:30	Aarya Patil, MPIA	Overview Talk
10:00	Valentin Thoss, MPE	Primordial Black Holes in the Solar System (Blackboard Talk)
10:20	Diogo Ribeiro, MPE	The Black Hol(e)der - Understanding gravity with Sgr A*
10:40	Coffee Break (20 mins)	
11:00	Thomas Winterhalder, ESO	Popping the Cork on New Worlds: Direct Imaging in the Age of Gaia and GRAVITY
11:20	Lara Piscarreta, ESO	Probing seemingly old protoplanetary discs in the Orion Nebula Cluster
11:40	Giulia Rocchetti, ESO	Exploring Earth's Reflected Light Through 3D Radiative Transfer Simulations
12:00	Coffee Break (20 mins)	
12:20	Michael Yeung, MPE	eROSITA's view of the local interstellar medium
12:40	Thomas Vannieuwenhuysse, ESO	Implementing Polarization in Monte Carlo Radiation Transfer Codes for Cosmic Dust

Friday Afternoon Session (Nov 15)

14:00 – 16:30

Chair: Hans-Christian Poosch

COSMOLOGY AND LARGE SCALES		
14:00	Jiamin Hou, UFL/MPE	Overview Talk
14:30	Silas Zelmer, MPE	Constraining ultra-light axions using eRASS:1 galaxy cluster number counts
14:50	Sankalp Choudhuri, ESO	Detecting the Sunyaev-Zel'dovich effect in Galaxy Groups via Stacking
15:10	Coffee Break (20 mins)	
15:30	Leon Roman Ecker, USM/LMU	Low redshift, High Impact: Strong Lensing in the Local Universe
15:50	Sophia Schnauck, MPA	Gravitational Wave Signatures from Rotating Core Collapse Supernovae
16:10	Matteo Esposito, MPE	How to be a good ally