Schedule

30 Invited Review (IR) 20 Invited Talk (IT) 15 Contributed Talk (CT)

Monday, June 26, 2023

08:30 - 10:00	Registration	
10:00 - 10:10	Opening remarks	
Physics and numerics for star formation		
10:10 - 10:40	Shu-ichiro Inutsuka	The basic Astrophysics of star formation
10:40 - 11:00	Yuri Aikawa	Astrochemistry in low-mass star forming regions
11:00 - 11:20	Daniele Galli	The challenges of microphysics in the star and disk formation process
11:20 - 11:35	Jeong-Gyu Kim	A new model for ISM heating/cooling and its applications
11:35 - 11:50	Gilberto C. Gómez	Ratios of filament widths as tracers of accretion onto filaments
11:50 - 12:05	Stefan Heigl	Streamer formation during core collapse in turbulent filaments
12:05 - 12:20	Valentin Le Gouellec	Accretion properties of Class 0 protostars studied with near-infrared spectroscopy
Lunch		
14:00 - 14:15	Hua-Bai Li	Turbulence in Zeeman measurements from molecular clouds
14:15 - 14:30	Etienne Jaupart	Evolution of the statistics of flows in star-forming clouds: the occurrence of 2 power laws in the density PDF and a conserved mass
Star and galactic disc formation across redshift		
14:30 - 15:00	Avishai Dekel	Origin of super-bright galaxies at cosmic dawn by feedback-free starbursts
15:00 - 15:20	Volker Bromm	Star formation across redshift
15:20 - 15:35	Elia Cenci	Starbursts driven by central gas compaction
15:35 - 15:50	Paul Clark	The initial mass function of primordial stars
Coffee/Tea & Poster session		
16:30 - 17:00	Raffaella Schneider	Primordial and low-metallicity star formation across cosmic times
17:00 - 17:15	Kenji Eric Sadanari	Non-ideal magnetohydrodynamic simulations of the first star formation
17:15 - 17:30	Jérémy Fensch	Star formation in high-redshift clumpy galaxies
18:30 onwards	**Welcome Cocktails**	

Tuesday, June 27, 2023

Galactic disc formation and evolution		
09:00 - 09:30	Reinhard Genzel	The formation and evolution of star-forming galaxies
09:30 - 09:50	Lihwai Lin	The kpc-scale scaling relations of star-forming main sequence and green valley galaxies
09:50 - 10:05	Carlo Nipoti	Star formation in thick galactic gaseous discs: fully 3D gravitational instability criteria
10:05 - 10:20	Kamran Bogue	The impact of magnetic fields on the formation and evolution of molecular clouds
10:20 - 10:35	Philipp Girichidis	Spectrally resolved cosmic rays in galaxy formation: dynamical impact and observable signatures
10:35 - 10:50	Eric Emsellem	Scale and time coupling in star-forming galactic discs: the simulations/observations synergy
Coffee/Tea & Poster session		
11:20 - 11:50	Vadim Semenov	Physical drivers of galactic disk formation and evolution
11:50 - 12:10	Romain Teyssier	Modelling star formation at galactic scale: the role of the magnetic field
12:10 - 12:25	Iris Breda	Exploring the genesis of spiral galaxies: Classical and pseudo bulges as extremities of a continuous sequence
Molecular cloud evolution		
12:25 - 12:40	Shivan Khullar	Playing with FIRE: Molecular clouds and star formation in a galactic feedback-halting experiment
Lunch		
14:15 - 14:45	Stefanie Walch-Gassner	Current views on molecular cloud evolution
14:45 - 15:05	Volker Ossenkopf-Okada	Molecular cloud formation
15:05 - 15:20	Elizabeth Watkins	Characterising superbubble populations and their energetics in nearby galaxies using JWST and ALMA
15:20 - 15:35	João Alves	The Local Solar Neighborhood in the GAIA era
15:35 - 15:50	Lise Ramambason	Statistical analysis of the molecular clouds properties in resolved and unresolved galaxies
Coffee/Tea & Poster session		
16:20 - 16:50	Adam Leroy	Observations of extragalactic molecular clouds
16:50 - 17:10	Mordecai-Mark Mac Low	Dynamical collapse of molecular clouds
17:10 - 17:25	Giuliana Cosentino	Feedback from supernova remnants on molecular clouds: shaping the Interstellar medium
17:25 - 17:40	Simon Coudé	FIELDMAPS: A Survey of magnetic support in the bones of the Milky Way
17:40 - 17:55	Jin Koda	Diverse molecular structures and their lifetimes across M83
19:30 onwards	**Astrosymphony by the Orchestre des Chaussures Blanches @ La Rotonde INSA Lyon**	

Wednesday, June 28, 2023

Isolated star formation: from brown dwarfs to massive stars		
09:00 - 09:30	James Di Francesco	Highlights of recent observational studies into isolated dense cores
09:30 - 09:50	Rolf Kuiper	Accretion and feedback in the formation of massive stars
09:50 - 10:05	Basmah Riaz	Spirals and streamers observed towards proto-brown dwarf candidates
10:05 - 10:20	Henrik Beuther	JOYS: JWST Observations of Young protoStars: First results
10:20 - 10:35	Tom Megeath	Protostellar accretion and outflow across the mass spectrum
Coffee/Tea & Poster session		
11:40 - 12:10	Kengo Tomida	Isolated star formation - what (we think) we know and what we need to know
12:10 - 12:30	Jonathan Tan	Massive star formation through the universe
12:30 - 12:45	Felix Priestley	Can prestellar cores be modelled as isolated objects?
12:45 - 13:00	Patrick Koch	Multi-scale picture of magnetic field and gravity in high-mass star-forming region W51
Guided Tours		
19:00 onwards	**Conference Dinner**	

Thursday, June 29, 2023

Initial Mass Function and Star Formation Rate		
09:30 - 10:00	Mark Krumholz	Towards a comprehensive model of the star-forming ISM
10:00 - 10:20	Philippe André	The role of molecular filaments in the origin of the initial mass function and star formation efficiency in dense gas
10:20 - 10:35	Rafael Zavala-Molina	The effect of tidal forces on the Jeans instability criterion in star-forming regions
10:35 - 10:50	Thomas Nony	Investigating the origin of stellar masses with ALMA-IMF: evolution of the Core Mass Function and burst of star formation
Coffee/Tea & Poster session		
11:20 - 11:50	Patrick Hennebelle	The physical origin of the stellar initial mass function: a review
11:50 - 12:10	Cecilia Bacchini	The volumetric star formation law of nearby late-type galaxies
12:10 - 12:25	Nichol Cunningham	ALMA-IMF: Exploring the kinematics, chemistry and morphology towards 15 massive protoclusters
12:25 - 12:40	Melika Gorgianeh	Structure and kinematics of magnetized filaments in giant molecular clouds
12:40 - 12:55	David Rebolledo	Multi-phase view of the ISM in the Carina nebula
Lunch		
Protostellar disc formation and evolution		
14:30 - 15:00	Anaëlle Maury	What do we know of the youngest disks around solar-type protostars?
15:00 - 15:20	Aleksandra Kuznetsova	Filaments all the way down: Dynamical consequences for disks at early phases
15:20 - 15:35	Nagayoshi Ohashi	Early planet formation in embedded disks (eDisk): overview and first results
15:35 - 15:50	Ugo Lebreuilly	Synthetic populations of protoplanetary disks
15:50 - 16:05	Erin Cox	Can the protostellar magnetic field morphology probe binary formation?
Coffee/Tea & Poster session		
16:30 - 16:45	Enrico Ragusa	On the observational appearance of eccentric protostellar discs
16:45 - 17:15	Yusuke Tsukamoto	Theoretical progress of protostellar disc formation and evolution
17:15 - 17:35	Łukasz Tychoniec	Protostellar disc masses: estimating reservoir of planet-forming material
17:35 - 17:50	Francesco Lovascio	Dusty protostellar collapse: Towards concurrent planet and star formation

Friday, June 30, 2023

Cluster formation		
09:00 - 09:30	Ivan Cabrera-Ziri	Exploring cluster formation: Insights from observational perspectives
09:30 - 09:50	Rachel Friesen	Dense gas flows and feedback in nearby cluster-forming regions
09:50 - 10:05	Jiayi Sun	Hidden gems on a ring: ALMA and JWST reveals infant massive clusters in a central starburst galaxy
10:05 - 10:20	Ryunosuke Maeda	Young massive cluster formation by fast HI gas collision
10:20 - 10:35	Alessio Traficante	The SQUALO project: clump-fed accretion mechanism in high-mass star-forming objects
10:35 - 10:50	Silvia Martocchia	Cluster formation across cosmic time: a perspective through star clusters' multiple stellar populations
Coffee/Tea & Poster session		
11:20 - 11:50	Alison Sills	Star cluster formation – the current theoretical/computational landscape
11:50 - 12:10	Enrique Vazquez-Semadeni	Star cluster formation from hierarchically collapsing molecular clouds
12:10 - 12:25	Nicolas Peretto	Star cluster progenitors are dynamically decoupled from their parent self-gravitating molecular clouds
12:25 - 12:40	Ellen Leitinger	The kinematics of multiple stellar populations in 28 Milky Way globular clusters
12:40 - 13:00	Final remarks	
Lunch		
Poster session and Unconference discussions		