

Star Formation Fields (Crete IV) - simplified schedule

21-25 Sep 2026, Neratze Mosque, Rethymno, Crete

Monday 21 Sep - Methods / 3D ISM reconstruction		
Time	Speaker	Title
09:15-09:30		Welcome and opening
09:30-09:40	Zucker	Contextual talk
09:40-09:55	Enßlin	The Milky Way Atlas: information field theory in action
09:55-10:10	Frank	Mapping the Diffuse Milky Way in 3D and 4D: Density, Velocity, and Magnetic Fields from pc to kpc
10:10-10:25	Polnitzky	MW-Atlas: Towards the three-dimensional shape of the Milky Way in Gas and Dust
10:25-10:40	Zimmerman	The Three-Dimensional Stellar Density of the Local Galactic Disc & Halo within 1.25 kpc
10:40-11:10		Spotlight talks (10)
11:10-11:40		Coffee
11:40-11:55	McCallum	Building on the back of 3D dust maps
11:55-12:10	O'Neill	The 3D Structure and Kinematics of the Local Disk-Halo Interface: Intermediate-velocity Clouds are the Minority of High-altitude Clouds in the Solar Neighborhood
12:10-12:25	Maconi	The Galactic journey of the Solar System in the Gaia era
12:25-12:40	Lindberg	Beyond the Solar Neighborhood: Parsec-Scale Dust Extinction Maps in the SMC and LMC
12:40-12:55	Xu	Robust Simulation-Based Inference for the Interstellar Medium Using Generative AI
12:55-14:55		Lunch
14:55-15:10	Piecka	Direct measurement of cloud proper motions and internal velocity fields
15:10-15:25	Meingast	Tracing the impact of OB associations on the formation of ice mantles on dust grains
15:25-15:40	Cao	Linking Ice to ISM Physics through High Resolution Mapping
15:40-15:55	Ashby	The SPHEREx Mission: an All-Sky Spectral Survey Like No Other
15:55-16:25		Spotlight talks (9)
16:25-16:55		Drinks
16:55-17:00		End of program day
19:00-21:00		Welcome reception

Tuesday 22 Sep - Magnetic fields and polarimetry		
Time	Speaker	Title
09:30-09:40	Raphael	Contextual talk
09:40-09:55	Hutschenreuter	Magnetic fields as the dominating force of star formation
09:55-10:10	Gazol	On the regulation of the cold neutral medium mass fraction by magnetic fields
10:10-10:25	Panopoulou	Aligned grain properties vary in the diffuse ISM
10:25-10:40	Mandarakas	Where the Serkowski Formula Breaks: Probing 3D Interstellar Medium Structure with Optical Polarimetry
10:40-11:10		Spotlight talks (10)
11:10-11:40		Coffee
11:40-11:55	Truong	Probing 3D B-fields using dust polarization and modern grain alignment theory
11:55-12:10	Uppal	Mapping 3D magnetic interstellar structure with starlight polarization
12:10-12:25	Karpovich	Far-infrared Polarization Properties of Nearby Star-forming Regions from a New Compendium of SOFIA/HAWC+ Observations
12:25-12:40	Seifried	MHD simulations of molecular clouds and synthetic dust polarisation maps: What can we learn from it?
12:40-12:55	Tritsis	3-dimensional non-ideal MHD chemo-dynamical simulations of turbulent collapsing molecular clouds

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12:55-14:55		Lunch
14:55-15:10	Misugi	Impact of Ambipolar Diffusion on the Physical Properties of Cores Formed in Filamentary Molecular Clouds
15:10-15:25	Li	From Spatial Scaling to Temporal Evolution: Reinterpreting Zeeman Measurements of Magnetic Fields in Star-Forming Cores
15:25-15:40	Koch	Multi-Scale Picture of Magnetic Field and Gravity in High-Mass Star-Formation
15:40-15:55	Whitworth	Magnetic Regulation of Molecular Cloud Evolution in Self-Consistent Dwarf Galaxy Simulations
15:55-16:25		Spotlight talks (10)
16:25-16:55		Drinks
16:55-17:00		End of program day

Wednesday 23 Sep - Gravity, turbulence, flows		
Time	Speaker	Title
09:30-09:40	Vazquez-Semadeni	Contextual talk
09:40-09:55	Kainulainen	A Continuous Morphological Sequence of Molecular Cloud Structure and Its Link to Star Formation
09:55-10:10	Ballesteros-Paredes	What if gravity is the actual agent regulating star formation?
10:10-10:25	Brucy	Does gravity drive molecular cloud assembly?
10:25-10:40	Morii	Beyond Monolithic Collapse: Dynamic Gas Accretion in Infrared Dark Clouds
10:40-11:10		Spotlight talks (10)
11:10-11:40		Coffee
11:40-11:55	Toth	Cold neutral medium in the Local Bubble
11:55-12:10	Pantaleoni González	Requiem for a Belt
12:10-12:25	Soler	Something new in the Solar neighborhood: the atomic shell of the extended Orion nebula (EON)
12:25-12:40	Gao	Stellar Feedback and Sequential Star Formation in the Gum Nebula: A 3D View of the Galactic Baryon Cycle
12:40-12:55	Arce	Going with the flow: gas dynamics in star-forming regions
12:55-14:55		Lunch
14:55-15:10	Dodge	Mapping gas density and velocity in 3d with sodium absorption lines
15:10-15:25	Yamada	Formation of a Rich Filamentary Network in the Perseus Molecular Cloud: Insights from Gas and Stellar Dynamics
15:25-15:40	Lai	JCMT BISTRO observations of the Central Molecular Zone cloud G0.253+0.016 (the Brick)
15:40-15:55	Kobayashi	The Origin of Star Cluster Mass Functions in Molecular Cloud Evolution
19:00-21:00		Cantada
21:00-23:30		Conference dinner

Thursday 24 Sep - Local regions		
Time	Speaker	Title
09:30-09:40	Miret-Roig	Contextual talk
09:40-09:55	Zari	Mapping the spatial distribution and kinematics of young massive stars in the Milky Way
09:55-10:10	Quintana	Tracing Galactic structure, stellar formation and clustering, and the supernova and black hole formation rates with OB-type stars
10:10-10:25	Kerr	Reconstructing Local Galactic Star-Forming Processes with Young Stellar Populations
10:25-10:40	Swiggum	Mapping the Recent Supernova Feedback Field of the Solar Neighborhood
10:40-11:10		Spotlight talks (11)
11:10-11:40		Coffee

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11:40-11:55	Rottensteiner	Orion under the microscope: A high-resolution star formation history of the full complex
11:55-12:10	Großschedl	Evolution of Velocity Dispersion in the Scorpius-Centaurus OB Association
12:10-12:25	Arunima	Their currents turn awry, and lose the name of action: evolution of stellar actions in a Milky Way-like simulation
12:25-12:40	Hunt	A new statistics-driven clustering algorithm with applications in star cluster detection
12:40-12:55	Soliman	Dust-Scale Physics and Its Large-Scale Consequences in Star-Forming Systems
12:55-14:55		Lunch
14:55-15:10	Krishnarao	Star Formation Driven Outflows in the Milky Way's Spiral Arms?
15:10-15:25	Ziliotto	Stellar kinematics as tracers of star formation fields: the case of 30 Doradus
15:25-15:40	Tachihara	Kinematics of Massive Stars in the Magellanic Clouds Revealed by Gaia: Evidence for Tidal-Driven Star Formation
15:40-15:55	Sanchez	Local Volume Mapper, the pc to kpc starformation scales in galaxies
15:55-16:25		Spotlight talks (11)
16:25-16:55		Drinks
16:55-17:00		End of program day
19:00-21:00		Farewell reception

Friday 25 Sep - Bridging scales: nearby galaxies and extragalactic context (half day)		
Time	Speaker	Title
09:30-09:40	Corbelli	Contextual talk
09:40-09:55	Duarte Cabral	Following the Flow of Gas in Galaxies
09:55-10:10	Priestley	The connection between dense gas tracers and star formation, from local to extragalactic scales
10:10-10:25	Demachi	An evolutionary trend of the giant molecular clouds in the Antennae Galaxies
10:25-10:40	Peltonen	Bridging the Gap in the New Era of Star Formation
10:40-11:10		Spotlight talks (9)
11:10-11:40		Coffee
11:40-11:55	Larson	From star clusters to multi-scale stellar associations - Tracing the hierarchical structure of overlapping stellar populations
11:55-12:10	Goodman	M83's CO Arms Show Streaming and Periodic Velocity Fluctuations
12:10-12:25	Koukouraki	The Role of Velocity Dispersion in the Kennicutt-Schmidt Relation
12:30-13:15	Elmegreen	Where did we come from, where are we going?