Program for Multiplicity in Young Stars

Contributed talks: 15 minutes + 5 minutes for questions, Invited reviews: 30 minutes + 10 minutes for questions

Venue: Margrethe Bohr Auditorium, Niels Bohr Building, Jagtvej 132, DK-2200 Copenhagen

Tuesday 26/8

08.30-09.00	Registration and coffee	
09.00-09.10	Troels Haugbølle	Welcome
09.10-09.50	Hans Zinnecker	Multiplicity - a historical review
Formation pathways		
09.50-10.30	John Tobin	A Comprehensive Characterization of Protostellar Multiplicity within 500 pc
10.30-11.00	Coffee break	
11.00-11.20	Samuel Fielder	A multi-scale ALMA view of starless and protostellar dense cores in Aquila
11.20-11.40	Alejandro Vigna Gomez	Formation of high-mass multiple-star systems: early migration and stellar mergers
11.40-12.00	Hannah Ambrose	Orbital statistics of multiple systems formed from small-N subclusters
12.00-12.20	Mor Rozner	Soft No More: Gas Shielding Protects Soft Binaries from Disruption in Gas-rich Environments
12.20-13.40	Lunch break	
13.40-14.20	Michael Kuffmeier	The interplay of multiplicity and infall
14.20-14.40	Aleksey Generozov	Low mass binaries are bound from birth
14.40-15.10	Coffee break	
15.10-15.30	Matthew De Furio	Exploring the Role of Star-forming Environment on the Formation of Stellar Multiples
15.30-16.30	Poster Lightning presentations	1 pdf slide, three minutes per person
16.30-18.30	Poster session and welcome reception	

Wednesday 27/8

Multiplicity in clustered environments

09.00-09.40	Abigail Frost	Invited review
09.40-10.00	Qiuyi Luo	The Formation of Low-mass Multiple Systems in1 High-mass Cluster-forming Regions
10.00-10.20	Chinmaya Nagar	Probing Multiplicity in Young and Embedded Massive Galactic Star Clusters with NACO/VLT
10.20-10.50	Coffee break	
10.50-11.10	Monika Petr-Gotzens	Wide binaries in the Orion OB association
11.10-11.30	René Oudmaijer	The Multiplicity of Massive Young Stellar Objects
11.30-11.50	Emma Bordier	From Wide to Close: how migration shapes massive binary systems
11.50-12.10	Tinne Pauwels	Multiplicity properties of massive stars through high-contrast imaging
12.10-12.20	Conference Photo	
12.20-13.40	Lunch break	

Planet formation and stability in multiple systems

13:40-14:00	Sergei Nayakshin	Growing binary/multiple star systems as sources of free floating planets and FU Ori outbursts
14:00-14:20	Miguel Vioque	On the use of Gaia astrometry to indentify companions in Young Stars
14:20-14:40	Jeremy Smallwood	Polar circumbinary discs and planets around binary star systems
14.40-15.10	Coffee break	
15:10-15:40	Kaitlin Kratter	Invited review
15:50-16:10	Antonio Hales	Disk evolution and planet formation in the Triple HD104237 System
16:10-16:30	Prakruti Sudarshan	The critical role of cooling in shaping circumbinary disk cavities: hydrodynamics and observational comparisons

Posters

	Aiswarya Arun	ALMA view of YSO outflow morphology in Aquila and Serpens star-forming complexes
	Alžběta Opluštilová	Multi-data Modelling of Massive Star Systems in Orion's Belt
	Anuroop Dasgupta	ODISEA: Complete Size Distributions for the 100 Brightest Disks across Multiplicity and SED Classes
	Arkadiusz Hypki	Hierarchical systems in dense globular star clusters
	Christina Lindberg	Massive Star Formation in the Inter-Arm Regions of M31
	Claudia Cyganowski	Disc fragmentation and binary formation in massive protoclusters: the earliest stages of massive binary formation as seen by ALMA
	Francisco Ismael Román Moreno	What do the data obtained with ALMA reveal about protoplanetary discs?
	Hans Lee	Planet formation by disc fragmentation: the impact of dust growth on opacity
	Jaime Villaseñor	Enhanced multiplicity of early B-type stars at Z=0.2 $Z_\odot$ from the BLOeM campaign
	Juliana Ehrhardt	Constraining Multiplicity in Debris-Disks-hosting systems: Multiplicity in the ARKS sample
	Lee Patrick	Hot and cool: Multiplicity properties of red supergiant stars from UV observations of hot companions

Thursday 28/8

Discs in multiple systems

09.00-09.40	Daniel Price	Chopping and changing: How multiplicity shapes disc evolution
09.40-10.00	Ian Rabago	The Dynamics of Disks in Multi-Star Systems
10.00-10.20	Matt Teasdale	On the lower limit of circumbinary disk fragmentation
10.20-10.50	Coffee break	
10.50-11.10	Antoine Alaguero	Where do grains grow in binary systems ? A 3D hydrodynamical approach
11.10-11.30	Anna Penzlin	Sculpting the inner edge - themodynamic effects on circumbinay discs
11.30-11.50	Pedro Poblete Rivera	Hotter Together: The Impact of Asymmetric Radiation on Disc Chemistry and Dynamics in Stellar Binaries
11.50-12.10	Tomoaki Matsumoto	Magnetic-Field-Driven Orbital Decay in Accreting Binary Systems
12.10-13.20	Lunch break	

Accretion and Variability in Multiple Systems

13.20-14.00	Agnes Kospal	Accretion variability and multiplicity
14.00-14.20	Vito Tuhtan	Simulated Analogues: connecting observations with simulations using Deep Learning
14.20-14.40	David Taylor	The NGC 6334-43 field with ALMA: protostellar multiplicity and a young streamer-fed protobinary
14.40-15.10	Coffee break	
15.10-15.30	Daniel Daza Valdebenito	Multiplicity and Inner Disk Reshaping in the Extreme Accretion Event of FUor V960 Mon
15.30-15.50	Hala Alqubelat	Accretion Variability and Binarity in Young Stars: Insights from DQ Tau and Transition Disks
16:00	Bus leaves for Kronborg	
17:00-18:00	Visit to the Kronborg Castle	
18:20-21:00	Dinner at Værftet	

Friday 29/8

Interactions with the environment

09.00-09.40	Maria Teresa Valdivia Mena	Invited review
09.40-10.00	Sheng-Jun Lin	Unveiling Central ortho-H2D+ Depletion at Sub-kau Scales in Prestellar Core G205.46−14.56 M3
10.00-10.20	Caroline Gieser	Tangled infall signatures in the L1448N region in the Perseus molecular cloud
10.20-10.50	Coffee break	
10.50-11.10	Jaime E Pineda	Streamers and Multiplicity: Is there a connection?
11.10-11.30	Bo Reipurth	Evidence for a Stellar Merger
11:30-11:50	Vasundhara Prasad	Dust Dynamics in Protoplanetary Discs after Stellar Flybys
11.50-12.10	Camilo González-Ruilova	The ODISEA Project: Planet Formation in the Ophiuchus Molecular Cloud
12.10-13.40	Lunch break	

Summary and Farewell

13.40-14.40	Dominique Segura-Cox	Conference Summary
14.40-15.00	Troels Haugbølle	Closing remarks

Posters

	Maria Koutoulaki	Revealing the inner disc of a massive protostar with VLTI
	Nicolás Cuello	Shaped by the stars: How multiplicity sculpts planetary systems
	Nicolas Kurtovic	The impact of binarity in the properties of disks, with ALMA and JWST
	Nina Filippova	Numerical simulations of protostellar disk formation with non-ideal magnetohydrodynamics and protostellar feedback
	Patricio Sanhueza	Magnetic Field in the Fomation of High-mass Binary Systems
	Pratishtha Rawat	Triggered fragmentation in self-gravitating protoplanetary disks
	Priya Shah Hasan	The evolution of the binary fraction in star clusters
	Shanghuo Li	First detection of a forming septuple stellar system via disk fragmentation
	Venu Kalari	A high-resolution imaging survey of massive young stellar objects in the Magellanic Clouds
	Yasmmin Ferreira Tamburus	Magnetized protostellar winds: implications for exoplanetary environments
	Zhao Guo	The effect of tides and mass transfer on stellar oscillations in binaries