

LIAC42: To Be or not to Be - Understanding the star, the disk, and the stripped companions

Preliminary schedule:

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9h-9h20		T8	T25	R4	Roundtable 2
9h20-9h40		T9	T26		
9h40-10h		T10	R3	T42	T49
10h-10h20		T11		T43	T50
10h20-10h50		break	break	break	break
10h50-11h10		T12	T27	T44	T51
11h10-11h30		T13	T28	T45	T52
11h30-11h50		R2	T29	T46	T53
11h50-12h10			T30	T47	T54
12h10-12h30	registration	T14	T31	T48	conclusion
12h30-14h	(starts at 13h)	lunch	lunch	lunch	
14h-14h20	opening	T15	T32	social act.	
14h20-14h40	R1	T16	T33		
14h40-15h		T17	T34		
15h-15h20	T1	T18	T35		
15h20-15h40	T2	T19	T36		
15h40-16h10	break	break	break		
16h10-16h30	T3	T20	T37		
16h30-16h50	T4	T21	T38		
16h50-17h10	T5	T22	T39		
17h10-17h30	T6	T23	T40		
17h30-17h50	T7	T24	T41		
17h50	welcome drink	poster 1'	roundtable1		
19h00				conf. dinner	

EVOL
DISK
MULTI
STAR

Preliminary program:

Reviews

- R1: The importance of Be stars in constraining single and binary stellar evolution physics, Anahi Granada & Pablo Marchant
- R2: Be star disks, Thomas Rivinius & Amanda Rubio
- R3: Never be alone! A review on the companions to Be stars, Robert Klement & Luqian Wang
- R4: Why be a Be? Understanding the star, Joey Mombarg & Coralie Neiner

Talks

- T1: TIME to Study Mass Transfer: New Horizons in 3D Hydrodynamics, Davey Dickson
- T2: Populations of evolved massive binary stars in the Small Magellanic Cloud, Christoph Schürmann
- T3: 'Rolling in the deep': exploring massive stellar core spins and angular momentum transport using stripped stars, Andrei Alexandru Cristea
- T4: Binary Evolution Modeling of Be Star Systems: Probing Mass Transfer and Post-Interaction Fates, Vitória Leme Schiavolim
- T5: Binary stars take what they get: Evidence for efficient mass transfer from Be+sdOB binaries, Thibault Lechien
- T6: Disk-Regulated Mass Transfer Between Rotating Non-Degenerate Stars: Insights from Be and sdOB Binaries, Zepei Xing
- T7: The role of winds in the evolution of stripped stars and their companions: First wind mass-loss measurements, Debasish Dutta
- T8: Population synthesis of Galactic Be stars, Yong Shao
- T9: Evidence for bimodality in the black hole mass distribution Reinhold Willcox
- T10: If You Would Be A Star Be a B Star, Kenneth G. Gayley
- T11: Rotational evolution of Be XRBs across metallicity with POSYDON, Kyle Akira Rocha
- T12: Formation channels for rapidly rotating massive stars - challenges in close binary formation and pre-MS accretion, Lucas de Sá
- T13: Utilizing Photospheric Abundance Ratios to Infer the Evolutionary Stage and Interior Structure of Classical Be Stars and Massive Algol Primaries, Geraldine J. Peters
- T14: Circumstellar nebulae of Be stars, Olga Maryeva
- T15: Modeling Be Star Disk Formation with 2D Hydrodynamics, Madeline Overton
- T16: The birth of Be star disks — SPH models of localized mass ejections, Ilfa A. Gabitova
- T17: Towards a Better Star-Disk Interface in Smoothed Particle Hydrodynamics, Peter Quigley
- T18: Unstable Kelvin waves as sources of decretion discs of Be stars, Tom Boismard
- T19: Testing SPH Predictions of Binary-Shaped Be Disks: The Dissipation Phase of π Aqr, Pâmela Querido
- T20: One, two, three, and a tilting frisbee: a transient state of some Be stars?, Dietrich Baade
- T21: What triggers mass-loss in Be stars? A chicken-and-egg problem between pulsations and outbursts, Guilherme P. P. Bolzan
- T22: Imaging tidal spiral arcs with VLTI as a template for Be binary disc characterization, Margaux Abello
- T23: Probing the circumstellar structure of Be stars through multi-epoch H α spectro-polarimetry, Arijit Maiti
- T24: New insights into Be disk variability driving X-ray activity in 1A 0535+262, Julia Alfonso-Garzón
- T25: Misaligned and eccentric Be/X-ray binaries: connecting system evolution to observables, R. G. Rast

- T26: Hydrodynamic and Radiative-Transfer Simulations of PSR B1259-63: Optical and Near-Infrared Variability as Signatures of TeV Gamma-Ray Binary Interactions, Atsuo T. Okazaki
- T27: The nature of gamma Cas and its analogs unveiled by new monitorings, Yaël Nazé
- T28: Lost in the Glare: A Hidden Nova Population in Be Star-White Dwarf Binaries, Shatakshi Chamoli
- T29: Pilot VLBA Study of the Nearby Be Star beta CMi, Sean J. Gunderson
- T30: The Curious Case of NGC 1850 - BH1, Rhys Seeburger
- T31: Expanding the horizons of Be star binarity - two new and unique Be binaries, Jonathan Labadie-Bartz
- T32: Constructing 3D Orbits to Determine Accurate Masses and Properties of Post-mass Transfer Be+sdOB Binaries, Akshat S. Chaturvedi
- T33: From a handful to thousands: unveiling the hidden population of stripped stars, Ylva Götberg
- T34: You Don't Have to Be Alone: Multiplicity Survey of OBe Stars in the SMC, Sebastian Vilaza
- T35: Initial Results of a Speckle Survey of Be stars using the Gemini Speckle Instruments, Keefe J. Kamp
- T36: A Population Study of Ultraviolet Variability in Small Magellanic Cloud Be/X-ray Binaries, Thomas Gaudin
- T37: Be X-ray binaries reveal new modes of supernova kicks, Ruggero Valli
- T38: The effects of neutron star kicks on the orbits of Be X-ray binaries, Paul Disberg
- T39: What Be X-ray binaries in the Small Magellanic Cloud reveal about the evolution of massive binaries, Víctor López Oller
- T40: Uncovering missing stripped star binaries in the Magellanic Clouds: a compact-object companion system, Lisa Blomberg
- T41: Challenges to the Classical Treatment of Massive Binary Interactions from Observed Stripped Stars in Binaries, Dandan Wei
- T42: OBe stars in sub-10% Z dwarf galaxies, Maude Gull
- T43: To Be or Not to Be at Low-Z, Christi Erba
- T44: A Census of Galactic OBe Stars and an Intermediate-Mass Stripped Star from SDSS-V, Johanna Müller-Horn
- T45: A Polarimetric Census of Be Stars in Open Clusters: Toward and Unbiased Be Fraction, Ariane Cristina Fonseca Silva
- T46: Be in the Clouds: The role of cluster age, mass, metallicity, and the environment in Be-star formation in the Magellanic Clouds, Abhinna Sundar Samantaray
- T47: Galactic runaways within a new massive Be star catalog from Gaia DR3, Marc Ribó
- T48: Does Magnetism Play by the Same Rules in Classical Be Stars?, Patrick Stanley
- T49: Pulsations and binarity in Be stars in clusters: insights from spectroscopy and photometry, Federica Nardini
- T50: Correlated changes in the pulsation spectrum of and the mass loss from KIC 9715425 (B3-5e), Alzbeta Oplistolova
- T51: Can Differential Rotation Explain the Apparent Subcritical Rotation of Be Stars?, John C. Momberg

- T52: Probing Be stars' rotation and inclination angles with the ZPEKTR code, Daniela Turis-Gallo
- T53: Eclipsing Be Binaries: Insights into Disk Structure and Binary Evolution, Tajan de Amorim
- T54: Studying Be stars with the MAGIC+LST1 SII and optical spectra, Diego Cuenda Muñoz

Posters

- P1: HR6819: A Puffed-Up Stripped Star System Challenging Stable Mass Transfer Theory, Annachiara Picco [TBC]
- P2: Very Massive Stars are not meant To Be (expanding): the role of stellar winds, Amedeo Romagnolo
- P3: Wind Accretion in Massive Binaries, Bhawna Mukhija [TBC]
- P4: Tracing Be Star Disk Inclination and Mass from H α Profiles in the Entropy-Complexity Plane, Anahi Granada
- P5: High-Cadence Temporal Monitoring of V442 And and λ Eridani using the RLMT H α Grism Spectrometer, Joshua Marine
- P6: Beyond SingleBe: Hydrodynamical Modeling of Achernar's Disk Evolution, Laize Abreu Gemelli [TBC]
- P7: Simultaneous presence of a one- and a two-armed density wave with transient 2:1 period ratio (equal angular velocity) in the disk around γ Cas, Jonathan Labadie-Bartz
- P8: Study of Binary Remnants in Classical Be Stars through SED Turndown Analysis, Jackson Codd
- P9: Exploring the B[e] Phenomenon with Speckle Interferometry, Carlos A. Guerrero
- P10: Resolving the Plasma Conditions in π Aqr using XRISM's Resolve Instrument, Sean J. Gunderson
- P11: The changing optical and X-ray emission of the γ Cas star HD45314, Gregor Rauw
- P12: WD-generated X-rays from the γ Cas system: remaining imponderables, Myron A. Smith
- P13: Machine-Learning Identification of Classical Be Stars in Photometric Surveys, Clara Amorim Navarro
- P14: Revised Be star fraction of the young open cluster NGC 1850, Luana A. Antonio
- P15: The Be-star content of the Phoenix Dwarf Galaxy, Alex C. Carciofi [TBC]
- P16: Photometric Census of Be Stars in the Magellanic Clouds using the 12-band survey SPLUS, Marina Izabela [TBC]
- P17: Be stars in time-domain surveys, Nadejda Blagorodnova
- P18: When Be stars misbehave and how pulsations, disks, and companions are disentangled with space photometry and long-term spectroscopy, Marcelo Emilio
- P19: Analysis of NICER X-ray and H α optical observations of γ Cas in the period 2017-2022, Joy Nichols
- P20: Gaia DR3 XP-TEAL Emission-Line Catalogue, Sagar Malhotra

Roundtable/Discussion

- RO1: Are companions that have spun up the progenitors of Be stars still of top relevance during the Be phase?, supervised by Dietrich Baade
- RO2: Critically rotating stars - what do we know?, supervised by Amedeo Romagnolo