

	SCIENTIFIC PROGRAM
	IAU 411
	Sunday 22nd of November
19:00 - 20:00	Special Talk: Andrea Ahumada & Tali Palma (OAC, Argentina)
	Monday 23rd of November
08:00 - 09:00	Registration
09:00 - 09:15	Opening Remarks Ana Chies Santos (UFRGS, Porto Alegre, Brazil), Angela Adamo (Stockholm University, Sweden), Juan P. Caso (UNLP, La Plata, Argentina), Kristen Dage (Curtin University, Australia)
	Chair I
Topic	Star Clusters and Stellar clumps in the high-z Universe from JWST
09:15 - 09:40	Adélaïde Clayessens (CRAL, France) — <i>Invited</i>
09:40 - 09:55	Gourav Khullar (UW, USA) The JWST LEGGOS Survey: Taking Galaxies Apart and Putting Them Back Together, one Clump at a Time
09:55 - 10:10	Matteo Messa (INAF-OAS Bologna, Italy) The star formation history of high-z galaxies through the lens of star clusters
10:10 - 10:25	Floor van Donkelaar (University of Cambridge, UK) Star clusters at high redshift: environment, dynamics, and their fate at birth
10:25 - 10:40	Brian Welch (ISSI, Switzerland) Star clusters as drivers of chemical evolution across cosmic time
10:40 - 10:55	Andressa Wille (UFRGS, Porto Alegre, Brazil) Galaxies Under Pressure: Star forming clumps in Jellyfish tails with JWST
10:55 - 11:25	Coffee break
11:25 - 11:40	Andrea Henderson de la Fuente (University of Oxford, UK) Identifying and Characterising Star-Forming Clumps using Euclid H α Emission Line Maps
11:40 - 11:55	Johan Knapen (IAC, Spain) Star-Forming Clumps in JWST Galaxies Across Cosmic Time: Robust Detection from Physical Property Maps
11:55 - 12:10	Lautaro Carvalho (IAFE/UBA, Argentina) Cosmic rays from proto-globular clusters as crucial agents for the reionization of the Universe
12:10 - 12:25	Pablo G. Pérez-González (CAB, INTA-CSIC, Spain) Are we witnessing the birth of globular clusters with JWST?
12:25 - 13:00	Poster flash talks
13:00 - 14:30	Lunch
	Chair II
Topic	Star cluster populations in the local Universe
14:30 - 15:10	Jimena Rodriguez (STSCI, US) & Bruno Dias (UNAB, Chile) — <i>Invited</i>
15:10 - 15:25	João Gardin de Carvalho (UFMG, Belo Horizonte, Brazil) Structure and Dynamics of Star Clusters in the Outskirts of the Large Magellanic Cloud
15:25 - 15:40	Claude Cournoyer-Cloutier (MPIA, Germany) Enhanced Feedback from Interacting Binaries in Young Massive Star Clusters
15:40 - 15:55	Alex Pedrini (Stockholm University, Sweden) The emerging timescales of young star clusters in local galaxies
15:55 - 16:10	Bjarki Björgvínsson (Durham University, UK) Getting to know the Star Clusters in NGC 1569
16:10 - 16:40	Coffee break
16:40 - 16:55	Chiara Crociati (University of Edinburgh, UK) Exploring Stellar Clusters in the Smallest Dwarf Galaxies: Tiny Systems, Big Questions
16:55 - 17:10	Sean Linden (University of Arizona, US) Under Pressure: Star Cluster Formation and Evolution in Extreme Extragalactic Environments
17:10 - 17:25	Kevin Ulises Martinez Vieyra (INAOE, Mexico) Super Star Clusters in Sub-Solar Metallicity Environments in the Nearby Universe
17:25 - 17:40	Kirsten Larson (STSCI, US) From compact star clusters to multi-scale stellar associations - Tracing the hierarchical structure of overlapping stellar populations
17:40 - 17:55	Helena Faustino Vieira (Stockholm University, Sweden) Unveiling emerging young star cluster properties in NGC628 with JWST/NIRSpec
	Tuesday 24th of November
	Chair III
Topic	Future Observatories
09:00 - 09:40	Søren Larsen (Radboud University Nijmegen, The Netherlands) & Pauline Barmby (Western Univerity., Canada) — <i>Invited</i>
Topic	Globular cluster studies in the era of optical/near-IR wide-field surveys
09:40 - 10:20	Michele Cantiello (INAF, Teramo, Italy) & Yasna Órdenes-Briceño (UDP, Chile) — <i>Invited</i>
10:20 - 10:35	Niranjana Prashantha (UFRGS, Porto Alegre, Brazil) Sight Beyond Sight: Recovering Globular Cluster Spectra in Complex MUSE Fields
10:35 - 10:50	Kaixiang Wang (Peking University, China) Tidal Stripping Origin and Beyond: Insights into the Formation of ultra-compact dwarf galaxies (UCDs) from High-Resolution and Deep Observations
10:50 - 11:05	Rohan Rahatgaonkar (PUC, Chile) The Neighborhood Watch Survey: Star Cluster Populations and Nucleation in Dwarf Galaxies Across Low-Density Galaxy Group Environments
11:05 - 11:35	Coffee break
11:35 - 11:50	Raimundo Ferreira-Filho (UFRJ, Rio de Janeiro, Brazil) Globular Cluster Systems in Dwarf Galaxies: Linking Dark Matter and Star Formation
11:50 - 12:05	Michael Hilker (ESO, Germany) Tracing Galaxy Assembly with Globular Cluster Streams: Insights from the Fornax Cluster and Beyond
12:05 - 12:20	Iris Ortega Casas (IAC, Spain) Beacons from ultra-diffuse galaxies: what globular clusters can tell us about the alleged dark matter-free galaxies NGC 1052-DF2 and DF4
12:20 - 12:35	Maria Luiza Buzzo (Yale University, US) Globular Clusters at the Extremes: Clues from Ultra-Diffuse Galaxies
12:35 - 12:50	Anna Rosen (San Diego State, US) From Stars to Surveys: Differentiable Astrophysics for the Rubin Era
12:50 - 13:00	Poster Flash talks
13:00 - 14:30	Lunch
	Chair IV
Topic	Simulations of star clusters in a cosmological context
14:30 - 14:55	Marta Reina-Campos (Universidad de Santiago de Compostela, Spain) — <i>Invited</i>
14:55 - 15:10	Nils Hoyer (Observatoire de Paris-Meudon, France) Numerical constraints on the (initial) star cluster mass function at intermediate to high redshifts
15:10 - 15:25	Finn Pal (University of New South Wales, Australia) Globular Cluster Ghosts and the Galactic Graveyard
15:25 - 15:40	Florent Renaud (CNRS, Strasbourg, France) The turbulent environments of young star clusters in the early Universe
15:40 - 15:55	Natalia Lahén (ZAH/ARI, Germany) Globular clusters refuse to sink in a dwarf galaxy starburst simulation
15:55 - 16:25	Coffee break
16:25 - 16:40	Raffaele Pascale (INAF - OAS, Italy) Towards forming globular clusters in cosmological simulations
16:40 - 16:55	Robyn Sanderson (University of Pennsylvania, US) Cosmological simulations of globular clusters and their streams
16:55 - 17:55	Discussion pannel/round table I - lead: Sean Linden
	Wednesday 25th of November
	Chair V
Topic	Advanced Statistics, Artificial Intelligence and Machine Learning Techniques for star cluster science
09:00 - 09:25	Rafael S. de Souza (University of Hertfordshire, UK - UFRGS, Brazil) — <i>Invited</i>
09:25 - 09:40	Samantha Berek (U. Mass, US) The evolution of globular clusters in dwarf galaxies from z=0.3 to the Local Universe
09:40 - 09:55	Arn Marklund (Observatoire Astronomique de Strasbourg, France) From pixels to dynamics: Using deep learning to infer extragalactic globular cluster properties
09:55 - 10:10	Dominic Wearne (LJMU, UK) Destroyed GCs in MW satellites using APOGEE: a study of GC destruction efficiency
10:10 - 10:25	Martina Irina Tapia Reina (OAC/UNC - Cordoba, CONICET, Argentina) Systematic analysis of integrated stellar population spectra: I. Methodological assessment of sMILES SSP models with full-spectrum fitting
10:25 - 10:35	Conference photo
10:35 - 11:05	Coffee break
Topic	Simple and multiple stellar populations in GCs: linking models to high-redshift galaxies
11:05 - 11:45	Emanuele Dalessandro (INAF-Bologna, Italy) & Paula Coelho (USP, Brazil) — <i>Invited</i>
11:45 - 12:00	Giorgia Zullo (Università di Bologna/INAF-OAS,Italy) JWST Reveals the Multi-Age Nature of the stellar system Terzan 5 in the Galactic Bulge
12:00 - 12:15	Anastasia Gvozdenko (Durham University, UK) The Chemical Code of Galaxy Assembly: Decoding In-Situ and Accreted Globular Clusters with [Eu/Si]
12:15 - 12:30	Ricardo Schiavon (LJMU, UK) On the origin of all Galactic globular clusters—the living and the dead
12:30 - 12:45	Carolina Montecinos (Universidad de La Serena, Chile) CAPOS: the bulge Cluster APOgee Survey. First detailed analysis of chemical abundance of NGC 6293, Terzan 9, NGC 6642, and NGC 6304
12:45 - 13:00	Poster flash talks
	FREE AFTERNOON
	Thursday 26th of November
	Chair VI
Topic	Simple and multiple stellar populations in GCs: linking models to high-redshift galaxies (cont.)
09:00 - 09:15	Michele Scalco (Indiana University., US) Multiple stellar populations in the low-mass regime of globular clusters with JWST
09:15 - 09:30	Davide Massari (INAF - OAS Bologna, Italy) Resolving the early assembly history of the Milky Way with globular clusters
09:30 - 09:45	Emma Dodd (Durham University, UK) Rewriting the Milky Way's assembly timeline with new homogeneous globular cluster ages
09:45 - 10:00	William Cerny (Yale University, US) A Chemodynamical Census of the Milky Way's Ultra-Faint Compact Satellites: Primordial GCs below the Metallicity Floor, or the Least Massive Galaxies?
10:00 - 10:15	Annette Ferguson (University of Edinburgh, UK) Characterising accreted globular clusters in the outer halo of M31
10:15 - 10:30	Jaime Roman Garza (University of Geneva, Switzerland) Successive stellar mergers in extremely massive stars as drivers of mixing and environmental pollution
10:30 - 10:45	Alessandro Della Croce (Indiana University Bloomington, US) From high redshift to the local Universe: the dynamical evolution of high-z stellar clumps into globular clusters
10:45 - 11:15	Coffee break
Topic:	Internal dynamics of star clusters and star cluster systems
11:15 - 11:40	Mark Gieles (Universitat de Barcelona, Spain) — <i>Invited</i>
11:40 - 11:55	Paolo Bianchini (Observatoire Astronomique de Strasbourg, France) From High Redshift to the Present Day: Tracing the Evolution of Globular Clusters with direct N-body models
11:55 - 12:10	Sadaf Aliakbarzadeh (University of New South Wales, Australia) The GECKOS Survey: Dynamics of Globular Clusters in Milky Way-mass Galaxies
12:10 - 12:25	Juan Farias (McMaster University, Canada) Expansion Rates in Young Stellar Systems: Connecting Star Formation to Kinematics
12:25 - 12:40	Casmir Obasi (Universidad Andrés Bello, Chile) Confirming Sagittarius globular cluster candidates with KMOS near-infrared spectroscopy
12:40 - 13:00	Poster flash talks
13:00 - 14:30	Lunch
	Chair VII
14:30 - 14:45	Henriette Wirth (Masaryk University, Czech Republic) Smashing Black Holes into Stars in the Nuclear Cluster
14:45 - 15:00	Peter Smith (Max Planck Institute for Astronomy, Germany) The Internal Dynamics of Omega Centauri, our Nearest Galactic Nucleus.
15:00 - 15:15	Jasmine Anderson-Baldwin (Swinburne University of Technology, Australia) Direct N-body models of Milky Way open clusters
15:15 - 15:30	Vincent Henault-Brunet (St Mary's, Canada) Orbit-based constraints on the mass and position of an IMBH in Omega Centauri from fast-moving stars
15:30 - 15:45	H.M. Lee (Seoul National University, Korea) Dynamics of Star Clusters with Intermediate-Mass Black Holes and Formation of Intermediate Mass Ratio Binaries
15:45 - 16:00	Stefano Torniamenti (MPIA, Germany) Seeding Galactic Nuclei with Intermediate-Mass Black Holes from Star Cluster Migration
16:00 - 16:30	Coffee break
16:30 - 17:30	Discussion panel/round table II - lead: Liliana Rivera Sandoval
	Conference dinner (TBA)
	Friday 27th of November
	Chair VIII
Topic	High-energy phenomena & IMBH in GCs
09:00 - 09:25	Sara Rastello (Universitat de Barcelona, Spain) — <i>Invited</i> High energy phenomena from globular clusters
09:25 - 09:50	Antti Rantala (Cambridge, UK) — <i>Invited</i> IMBHs
09:50 - 10:05	Divakara Mayya (INAOE, México) M81-FRB globular cluster: a cluster caught ejecting its core stars
10:05 - 10:20	Muryel Guolo (Institute for Advanced Study, US) The Sample of Tidal Disruption Events in Ultra-Compact Dwarfs and Globular Clusters
10:20 - 10:35	Greta Ettorre (INAF OAS Bologna - University of Bologna, Italy) Exotic binary populations in galactic globular clusters: a multi-wavelength view from HST to future ELT observations
10:35 - 10:50	Angiraben Mahida (Curtin University, Australia) Probing Omega Centauri for an Accreting IMBH
10:50 - 11:05	Sara Saracino (INAF - Osservatorio Astrofisico di Arcetri, Firenze, Italy) Looking for binaries in massive star clusters of all ages
11:05 - 11:35	Coffee break
11:35 - 11:50	Liliana Rivera Sandoval (University of Texas Rio Grande Valley, US) A Multiwavelength Photometric Study of Compact Binaries in 47 Tucanae
11:50 - 12:05	Silvia Leanza (INAF OAS Bologna, Italy) Unveiling GC Cores with MUSE/NFM: Kinematics and the IMBH Quest
12:05 - 12:20	Maximilian Häberle (ESO, Germany) DARKHEARTS - Studying the Black Hole Populations of Globular Clusters with JWST
12:20 - 13:00	Allison Sills (McMaster, Canada) & Bill Harris (McMaster, Canada) — <i>Conference Summary</i>
13:00	Conference Ends