

IAU Symposium 395: Stellar populations in the Milky Way and beyond

Paraty, Brazil, 17-22 November 2024

<https://iaus395.iag.usp.br/>

First circular, 29 January 2024



The IAU Symposium 395 will be devoted to stellar populations and will take place in the historic beach town of Paraty, Brazil, from 17 – 22/November/2024. The symposium is organized under the auspices of the International Astronomical Union (IAU) and will honor the life and work of Beatriz Barbuy (Univ. São Paulo), who has made key contributions on stellar populations in the Milky Way and beyond.

Topics

- The Galactic halo populations: chemical composition and kinematics of in situ and accreted stars; halo globular clusters.
- The populations of the inner Galaxy: bulge, halo, disk, bar and mixed populations from spectroscopic and photometric surveys; bulge stellar clusters.
- The Galactic disk populations: chemical composition and kinematics of thick and thin disk stars; open clusters; tracers of present-day abundances.
- Gaia DR3; spectroscopic and photometric surveys for the study of stellar populations.
- Methods for the determination of atmospheric stellar parameters and chemical abundances. Spectral libraries for population synthesis.
- Chemical evolution of Milky Way-like galaxies from cosmological simulations.
- Resolved and unresolved extragalactic stellar populations.
- New developments in astronomical instrumentation for stellar populations studies.

Important dates

29/01/2024	First Announcement
01/02/2024	Registration/abstract/grant submission opens
17/04/2024	Deadline for registration, abstract and IAU grant submission
13/05/2024	Acceptance of contributions (oral / poster) and IAU grant
14/06/2024	Deadline for early registration fee
02/08/2024	Deadline for standard registration fee
17/11/2024	Symposium begins

Call for contributions

Contributions (oral / poster) will be submitted in the registration form, from 01/02/2024 to 17/4/2024. The form is available at the “Registration” tab of the website. Oral submissions will automatically be considered as a poster, if not selected as an oral presentation. The contributions selected by the SOC will be announced by 13/5/2024.

SOC

Jorge Meléndez, Universidade de São Paulo, Brazil (*co-chair*)
Cristina Chiappini, Leibniz-Institut für Astrophysik Potsdam, Germany (*co-chair*)
Aruna Goswami, Indian Institute of Astrophysics, India
Bruno Dias, Universidad Andrés Bello, Chile
Chris Sneden, University of Texas at Austin, USA
Gary Da Costa, Australian National University, Australia
Gražina Tautvaišiene, Vilnius University, Lithuania
Katia Cunha, Steward Observatory, United States
Kim Venn, University of Victoria, Canada
Livia Origlia, INAF - Osservatorio di Astrofisica e Scienza dello Spazio, Italy
Lucimara Martins, Núcleo de Astrofísica Teórica - UNICID, Brazil
Marina Trevisan, Universidade Federal do Rio Grande do Sul, Brazil
Monique Spite, Observatoire de Paris-Meudon, France
Patricia Whitelock, SAAO and UCT, South Africa
Sara Lucatello, INAF - Osservatorio Astronomico di Padova, Italy
Thomas Bensby, Lund Observatory, Sweden

LOC

Bruno Castilho, Laboratório Nacional de Astrofísica, Brazil (*co-chair*)
Paula Coelho, Universidade de São Paulo, Brazil (*co-chair*)
Alan Alves-Brito, Universidade Federal do Rio Grande do Sul, Brazil (*co-chair*)
Patricia Oliveira, Laboratório Nacional de Astrofísica, Brazil
Giuliana Capistrano, Laboratório Nacional de Astrofísica, Brazil
Helio Rocha Pinto, OV / Universidade Federal do Rio de Janeiro, Brazil
Luan Ghezzi, OV / Universidade Federal do Rio de Janeiro, Brazil
Simone Daflon, Observatório Nacional, Brazil
Luciana Silveira, Universidade de São Paulo, Brazil
Giulia Martos, Universidade de São Paulo, Brazil

Invited Speakers

Keynote speakers: confirmed

- Alexandre Vazdekis, Stellar population models
- Alvio Renzini, Conference Summary
- Anke Ardern-Arentsen, The ancient central population
- Beatriz Barbuy, The Galactic Bulge
- Bruno Castilho, Future instrumentation for Galactic Archaeology
- Carmela Lardo, Multiple populations in globular clusters
- Chiaki Kobayashi, Chemical evolution with hydrodynamical cosmological simulations
- Chris Sneden, Atomic and molecular data for spectroscopy
- Danny Horta, TBC
- Grazyna Stasinska, Modeling emission lines in early type galaxies
- Gustavo Bruzual, Stellar populations in distant galaxies
- Ivan Minchev, Hybrid model [multi-ring + dynamics from cosmological simulations] of chemical evolution
- Maria Celeste Parisi, The Magellanic Clouds
- Mario Gennaro, TBC
- Nitya Kallivayalil, Stellar populations in the local group
- Norbert Przybilla, Present-day abundances from B stars
- Oscar Gonzalez, MOONS/VLT
- Paula Coelho, Spectral libraries
- Ricardo Schiavon, The APOGEE survey

- Sarah Martell, The GALAH survey
- Sergio Ortolani, Bulge clusters
- Sofia Randich, The Gaia-ESO Survey, its legacy, and new perspectives

Further keynote speakers will be posted at the website

Venue

The symposium will take place in the historic beach town of Paraty, in the state of Rio de Janeiro, Brazil. Paraty offers visitors an interesting mix of colonial architecture and nature. It is located at about the same distance from the international airports of Rio de Janeiro (GIG) and São Paulo (GRU), with similar travel time (about 4 to 5 hours) from both locations.



Registration

The conference registration is scheduled to open on 1/2/2024 and will be available until 17/4/2024. The payment of registration fee is planned to start in late February 2024. The early registration fee is US\$285. In order to promote the participation of astronomers from less privileged countries, a reduced fee is available. Students from developing countries have a further reduction of the fee. The three tiers are (TBC):

Registration fee	Early fee	Regular fee	Late fee
Developed countries	US\$ 285	US\$ 325	US\$ 375
Brazil and developing countries	US\$ 220 (Brazilians R\$ 1070)	US\$ 260 (Brazilians R\$ 1270)	US\$ 310 (Brazilians R\$ 1515)
Students from Brazil and developing countries	US\$ 160 (Brazilians R\$ 780)	US\$ 200 Brazilians (R\$ 975)	US\$ 250 (Brazilians R\$1220)

IAU Travel Grants

During the registration it is possible to apply for a IAU Travel Grant, available to help with the participation of young scientists and qualified scientists working in less privileged countries, so this information will be taken into consideration, as well as the applicant's abstract.

We are looking forward to meet you in Paraty !

Jorge Meléndez and Cristina Chiappini, SOC chairs
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