Session Program

16–20 Jun 2025

STARS II: current challenges, upcoming solutions

Session: Milky Way and Local Group

Bologna
Via Piero Gobetti, 101, 40129 Bologna BO

Tuesday 17 June

09:00

Session: Milky Way and Local Group
Session | **Location:** Bologna, Via Piero Gobetti, 101, 40129 Bologna BO

09:00–09:40 **Resolved stellar systems: from Globular Clusters to the Milky Way**

Speaker
Ronald Drimmel

09:40–10:00 **Myths and challenges behind the formation of the Galactic disc**

Speaker
Dr Matthew Orkney

10:00–10:20

Exploring the history of the Milky Way halo: Integrating chemistry and kinematics for clustering analysis

Speaker
Leda Berni

10:20–10:40

Orbit integration with an updated potential model: insights into the globular cluster populations of the Milky Way and resonances induced by the bar

Speaker
Michele De Leo

10:40

11:10

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11:10–11:30 **Low-alpha, low-metallicity Milky Way disc stars at z>2**

Speaker
Chervin Laporte

11:30–11:50

Chemical Tagging and Stellar Migration with Graph Attention Networks

Speaker
Lorenzo Spina

11:50–12:10

The kinematics of young stars in the Milky Way disc: first results from SDSS-V

Speaker
Eleonora Zari

12:10–12:30

Chemical gradients of the thin disk from a Non Local Thermal Equilibrium spectral synthesis of Cepheids

Speaker
Antonino Nunnari

12:30

14:00

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14:00–14:40

Imaging and stellar photometry from space: current and forthcoming challenges - Invited talk

Speaker
Michele Bellazzini

14:40–15:00 **The future of astrometry in space: from Gaia DR4 to GaiaNIR**

Speaker
Antonella Vallenari

15:00–15:20

The chrono-dynamic structure of the Large Magellanic Cloud star cluster system

Speaker
Florian Niederhofer

15:20–15:40 **Exploring the Impact of Satellite Galaxies on Milky Way Evolution**

Speaker
Ingrid Beloto Latini

15:40

16:10

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16:10–16:30

Status and challenges for dark matter inferences in Local Group dwarf galaxies

Speaker
Giuseppina Battaglia

16:30–16:50 **Tracing the Local Group evolution with resolved stellar populations**

Speaker
Dr Matteo Monelli

16:50–17:10

Dwarf-dwarf mergers and the hierarchical build-up of galaxies at the smallest scales

Speaker
Francesca Annibali

17:10–17:30 **Unveiling nearby young stars from planet search surveys**

Speaker
Silvano Desidera

17:30–17:50

Using a Deep Neural Network to Estimate Effective Temperatures and Derive Stellar Ages in Star-Forming Regions

Speaker
Dr Loredana Prisinzano

17:50