

Session Program

16-20 Jun 2025

STARS II: current challenges, upcoming solutions

Session: Stellar evolution

Bologna
Via Piero Gobetti, 101, 40129 Bologna BO

Thursday 19 June

09:00

Session: Stellar evolution

Session | **Location:** Bologna, Via Piero Gobetti, 101, 40129 Bologna BO

09:00–09:40

Invited talk

Speaker

Andrea Miglio

09:40–10:00

Nitrogen-rich stars through the lens of asteroseismology

Speaker

Ellie Leitingner

10:00–10:20

JWST unveils the brown dwarf population of the most extreme star clusters of the Milky Way: Westerlund 1 and 2

Speaker

Victor Almandros Abad

10:20–10:40

The nucleosynthesis of massive stars: a bridge between stellar modelling and galactic archaeology

Speaker

Federico Rizzuti

10:40

11:10

Session: Stellar evolution

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11:10–11:30

High-Precision Ages and Abundances: Unlocking the Milky Way's History

Speaker

Dr Giada Casali

11:30–11:50

Simulating the populations of binaries and products of binary interactions in the Kepler's field

Speaker

Alessandro Mazzi

11:50–12:10

Semi-analytical models of core-helium-burning stars: Structural glitches near the core

Speaker

Dr Massimiliano Matteuzzi

12:10–12:30

ÆSOPUS 2.1: low-temperature gas opacities library and its application in stellar models

12:30

Speaker

Diego Bossini

14:00

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14:00-14:40

Invited talk**Speaker**

Scilla Degl'Innocenti

14:40-15:00

Testing the asteroseismic estimates of stellar radii with surface brightness-colour relations and Gaia DR3 parallaxes**Speaker**

Pier Giorgio Prada Moroni

15:00-15:20

Physics for stellar interiors, recent advancements**Speaker**

Oscar Straniero

15:20-15:40

The impact of stellar evolution uncertainties on binaries**Speaker**

Erika Korb

15:40

16:10

Session: Stellar evolution**Session** | **Location:** Bologna, Via Piero Gobetti, 101, 40129 Bologna BO

16:10-16:30

New sets of PARSEC v2.0 stellar model for low-metallicity**Speaker**

Chi Thanh Nguyen

16:30-16:50

New grids of PARSEC evolutionary tracks, with final fates, ejecta, and ionizing photons from intermediate-mass to very massive stars**Speaker**

Guglielmo Costa

16:50-17:10

The Milky Way traced by pulsating stars: theory versus observations**Speaker**

Marcella Marconi

17:10-17:30

Unveiling Carbon Stars Properties in the Milky Way and the Magellanic Clouds**Speaker**

Alessio Liberatori

17:30