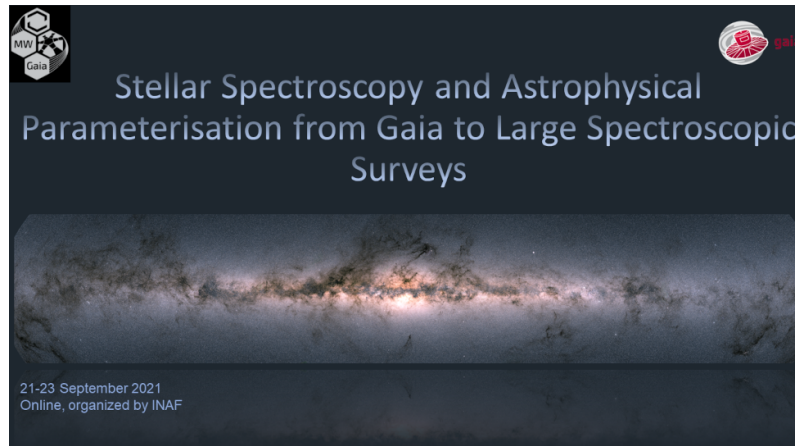


# Stellar spectroscopy and Astrophysical parametrization



**Tuesday, September 21, 2021 - Thursday, September 23, 2021**

**online**

## Scientific Program

\*\*\* Note that all times are CEST (Rome, Italy time) \*\*\*

## Day one – September 21, 2021

### Session 1: Spectroscopic Surveys

Chair: Lorenzo Spina

9:00-10:00 A. Vallenari – *Present and future large spectroscopic surveys*

10:00-10:20 *coffee break*

10:20-11:20 A. Bragaglia – *Large spectroscopic surveys: scientific cases & outcomes*

### Session 2: Participant presentations (10 min each, including questions)

Chair Angela Bragaglia

11:20-11:30 Elias Kyritsis- *A new automated tool for the spectral classification of OB stars*

11:30-11:40 Maria Luisa Garcia Vargas-*MEGASTAR, MEGARA-GTC Stellar Spectral Library*

11:40-11:50 Mingjie Jian-*Helium spectral lines at 10830Å: observational trends with stellar parameters*

11:50-12:00 Jake Clark - *How do Stellar Surveys Like GALAH and GAIA Improve Our Understanding of Planetary Systems?*

12:00-12:10 Eduardo Machado Pereira -*New candidates for chromospherically young, kinematically old objects*

12:10-12:20 Andrea Mejías- *Characterization of low mass stars with multiwavelength large surveys*

12:20-12:30 Juan Carbajo-Hijarrubia-*Spectroscopic analysis at OCCASO survey.*

12:30-12:40 Jose Luis Schiappacasse Ulloa -*Lithium abundances to trace the polluter of the second-generation stars in NGC 6752*

12:40-12:50 Vikrant Jadhav- *Characterisation of Galactic blue stragglers with Gaia data*

12:50-13:00 Natalia Posiłek - *Spectroscopic analysis of chemically peculiar Am stars observed by TESS. (moved to Day 2)*

## 13:00-14:30 lunch break

### Session 3: Classical Methods

Chair Rosanna Sordo

14:30-16:30 C. Sneden – *Classical spectroscopy, EW & synthesis*

## Day two – September 22, 2021

### Session 4: Calibration

Chair Antonella Vallenari

9:00-10:00 E. Pancino – *Survey-to-survey comparison & homogenization*

\*\*Session 5: Tutorials \*\*

Chair Antonella Vallenari

10:00-12:00 M. Tsantaki – *Classical methods for spectroscopy (tutorial)*

*15 min coffee break within*

12:00-12:30 S. Blanco-Cuaresma -*ispec (tutorial)*

**Session 6: Participant presentations** (10 min each, including questions)

Chair Oleg Malkov

12:30-12:40 Stephanie Monty -*Probing the chemo-dynamic history of the Milky Way at the 0.1 dex level: coupling detected high resolution spectroscopy with Gaia DR2*

12:40-12:50 Francesca Lucertini- *Sulfur abundances in the Galactic Bulge and disk*

12:50-13:00 Aleksandra Avdeeva- *Combining Gaia, LAMOST and RAVE data for the determination of interstellar extinction*

13:00-13:10 Natalia Posilek - *Spectroscopic analysis of chemically peculiar Am stars observed by TESS. (moved from Day 1)*

**13:10-14:30 lunch break**

**Session 7: Differential spectroscopy**

Chair Oleg Malkov

14:30-16:30 J. Melendez – *Differential spectroscopy: method & science cases*

**Day three – September 23, 2021**

**Session 8: Spectroscopy with machine learning**

Chair Maria Tsantaki

9:00-11:00 R. Andrae – *Gaia XP spectra & data driven analysis*

*11:00-11:15 coffee break*

11:15-12:15 A. Recio-Blanco – *Gaia RVS spectra*

12:15-13:15 L. Spina – *Machine learning methods: The Cannon & The Payne*

**13:15-14:30 lunch break**

Chair Sergi Blanco-Cuaresma

14:30-15:30 L. Spina – *Machine learning methods: The Cannon & The Payne (part 2)*

**Session 9: Publication skills**

Chair Sergi Blanco-Cuaresma

15:30-16:30 C. Sneden – *How to write a paper*

