

Session Program

Oct 18 - 22, 2021

HRMOS science workshop

Day 4

INAF Osservatorio Astrofisico di Arcetri (Italy) and online
Edificio Garbasso, Largo E. Fermi, 1 Firenze (Italy)

Thu, October 21

9:00 AM

Day 4

Session | **Convener:** Dr Rodolfo Smiljanic

9:00 – 9:25 AM **Evolved stars as tracers of the origin of elements in the Universe.**

Speaker

Devika Kamath

9:25 – 9:50 AM **Evidences of transport processes in stellar interiors**

Speaker

Prof. Grazina Tautvaisiene

9:50 – 10:15 AM **HRMOS for Local group and dwarf galaxies**

Speaker

Dr Asa Skuladottir

10:15 – 10:30 AM

Evidence for sub-Chandrasekhar Type Ia supernovae from the last major merger

Speaker

Jason Sanders

10:30 – 11:20 AM **Break**

11:20 – 11:35 AM

HRMOS can illuminate globular cluster contributions to halo assembly

Speaker

Sarah Martell

11:35 – 11:50 AM

The Scars of Galaxy Formation: Studying stellar streams in our halo with HRMOS

Speaker

Jeffrey Simpson

11:50 AM – 12:05 PM **A new tool for chemical tagging based on iron-peak elements**

Speaker

Alice Minelli

12:05 – 12:20 PM

Oxygen-enhanced extremely metal-poor DLAs: A signpost of the first stars?

Speaker

Louise Welsh

12:20 – 12:45 PM

Reimagining large spectroscopic data with unsupervised machine learning generative models

Speaker

Yuan-Sen Ting

12:45 - 1:00 PM

**Functional Data Analysis for Extracting the Intrinsic Dimensionality of Spectra:
Prospects for Chemical Tagging**

Speaker
Aarya Patil

1:00 PM