

Università degli Studi di Trieste

Dipartimento di Fisica

Alumnorum Colloquia

Francesca Primas

European Southern Observatory

October 29, 4.30 PM - Lecture room A, F building, Physics Dept. - via Valerio, 2 – Trieste

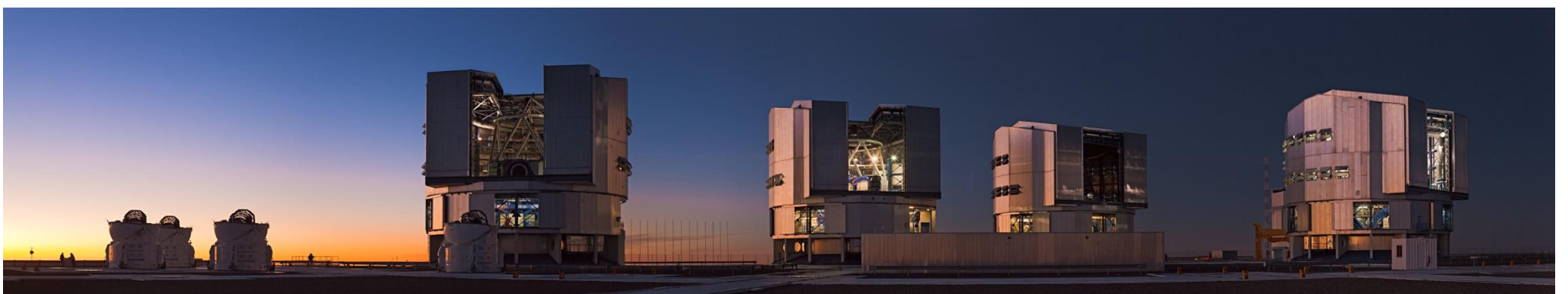
The discerning power of chemical abundances: light and heavy, close and far



The history of the chemical composition of the Galaxy is dominated by the nucleosynthesis occurring in many generations of stars. Very metal-poor stars represent one of the main diagnostic tools to probe the earliest phases of the (chemical) evolution of our Galaxy. Any variation in the elemental abundance ratios observed at different metallicities can then be compared with the yields derived from supernovae of different masses to determine which ones have contributed to the Galactic chemical enrichment and when.



Since the advent of 8-10m class telescopes equipped with very efficient and high resolution spectrographs, very accurate stellar abundances have become available. In this presentation, I will review the remarkable observational progress achieved in the last decades, from the very light to the very heavy elements and how astronomers have been able to start looking at chemical fingerprints further away from the solar neighborhood. Are we making progress or are we getting more confused?



Organizzazione a cura di: M. Girardi, E. Gozzi, G. Pastore, R. Rui, E. Vesselli

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Everyone interested in the topic is welcome to attend

Informazioni: seminari@ts.infn.it