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New clues for heavy element nucleosynthesis (R)

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The foundations of stellar nucleosynthesis have been established more than 70 years ago and since then, many progresses have taken place, in particular concerning the heavy-element nucleosynthesis in late stages of the evolution of solar-mass stars. Targeting key-elements, including radio-isotopes, in both intrinsic and extrinsic stars, the latter constituting “cold cases” and useful probes of a past nucleosynthesis, allows to better understand chemical element production by stars with masses as low as 1 Msun during their evolved phases. Given their numerical importance, these stars are major contributors to the chemical evolution of the Galaxy. New aspects, such as evidences for the i-process operation at close-to-solar metallicities, will be discussed.

Session

Stellar observations (photometry and spectrometry)

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