

Title: **The spectroscopic data of the Gaia DR3 catalog: performance and use**

Speaker: Pedro Alonso Palicio

Affiliation: Observatoire de la Côte d'Azur, CNRS

Galactic Archaeology has experienced a great advance in the last decade thanks to the development of large surveys like APOGEE, LAMOST and GALAH. The Gaia mission (ESA) has contributed to this revolution by providing precise astrometric and photometric data for more than one billion stars, radial velocities for the bright subset of them and, since Gaia DR3, the stellar parameters and chemical abundances of 5.6 million sources observed by the on-board RVS spectrograph. The extraction of the atmospheric parameters and composition for such an unprecedented large volume of stars has been possible thanks to the implementation of the GSP-Spec module in the Gaia pipeline. In this talk, we describe the performance of GSP-Spec and present its output to the community. We demonstrate the quality of the GSP-Spec data and provide a guide of best practices for its correct usage, as well as illustrate some scientific applications.