

The Gaia-ESO Public Spectroscopic Survey

Wednesday, 20 October 2021 09:00 (25 minutes)

The Gaia-ESO Survey is a very ambitious project to obtain high-quality spectra of 100,000 stars, representing the major stellar populations, from young open star clusters to the oldest field stars, O-stars to M-stars. Gaia-ESO used the VLT GIRAFFE facility, allowing both good signal-noise spectra and also sampling beyond the immediate Solar neighbourhood for unevolved stars. Key features included a focus on star clusters, ensuring the Survey products are consistent with isochrones, and deliberate use of many different spectroscopic analysis pipelines and techniques. Each star was analysed in several different ways, with the single final astrophysical parameter set and elemental abundances resulting from a careful homogenisation. This allows identification of both random and systematic contributions to resulting data products.

The Survey proved very successful, thanks to contributions from a large dedicated team. Final data products for all stars observed are currently being released through the ESO and Edinburgh archives. Some lessons learned will be noted.

Type

invited talk

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