

The Galactic Archaeology with HERMES (GALAH) survey

Wednesday, October 20, 2021 9:25 AM (25 minutes)

The GALAH survey is a large Australian-led project with a goal to measure radial velocities and ~30 elemental abundances in 1 million stars. Using the HERMES spectrograph at the AAT, GALAH has now observed 750,000 unique stars across three affiliated surveys including the main archaeology program, and associated science arising from the K2GAP and TESS surveys. The advent of Gaia has proved a major boon for the GALAH project, with unique chemical tagging signatures identified in a number of stellar systems, including Gaia-Sausage-Enceladus. GALAH targets stars on the main sequence turn-off to ensure the best possible ages for all stars. In combination with K2GAP and TESS, this has already shown to be an excellent strategy for the many science goals. We briefly mention scientific overlap with the proposed HRMOS instrument.

Type

invited talk

Primary author: Prof. BLAND-HAWTHORN, Jonathan (University of Sydney)

Presenter: Prof. BLAND-HAWTHORN, Jonathan (University of Sydney)

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