

J-PLUS insights into Milky Way Star-formation history

Tuesday 25 November 2025 15:45 (15 minutes)

Understanding how the Milky Way formed and evolved is a central goal of Galactic archaeology. In this talk, I will present our published results on the star-formation history of the Galactic disc based on multi-filter photometry from the J-PLUS survey combined with Gaia astrometry. Our analysis showed clear differences between the chemically distinct components of the disc and provides clear insights into their formation epochs and enrichment processes. These findings illustrate the potential of wide field photometric surveys, in synergy with astrometric data, to disentangle the evolutionary pathways of our Galaxy and open the way for even more detailed studies with upcoming surveys.

Authors: ALZATE TRUJILLO, Jairo Andres (CEFCA); Dr DEL PINO, Andres (IAA-CSIC); LÓPEZ SAN JUAN, Carlos (Centro de Estudios de Física del Cosmos de Aragón (CEFCA))

Presenter: ALZATE TRUJILLO, Jairo Andres (CEFCA)

Session Classification: Parallel Astro