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Sesión Científica: La via lactea y sus componentes

Título: Membership, lithium and chromospheric activity of the young open clusters IC 2391, IC 2602 and IC 4665 from GES (Gaia-ESO Survey) observations.

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Resumen:

We conduct a comparative study of the main properties of the of the young open clusters IC 2391, IC 2602 and IC 4665, focusing on their membership, lithium abundance and level of chromospheric activity and possible accretion. We use the fundamental parameters (effective temperature, surface gravity, and radial velocity) delivered by the Gaia-ESO survey (GES) consortium in the four internal data release (iDR4) to select the members of these clusters among the UVES and GIRAFFE spectroscopic observations. Chromospheric activity criterium, and iterative process between radial velocity distribution and lithium-temperature diagram are applied to determinate what objects are members or non members of the clusters. All this information allowed us to characterize the properties of the members of these clusters and identify some field contaminant lithium-rich giants.