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Sesión Científica: La via lactea y sus componentes

Título: Detailed studies of three open clusters from Gaia ESO Survey (GES)

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Resumen:

We present results for the intermediate-age and old open clusters NGC6633, NGC6705 (M11) and NGC2682 (M67). We have used new Stromgren photometry, proper motions from ROA observations and spectral information from Gaia ESO and OCCASO Surveys among others, to study the physical parameters of the stars in the three cluster's areas. The astrometric studies cover an area of about 1deg^2 and down to $r \sim 17$ while our INT-WFC CCD intermediate-band uvby-Hbeta photometry cover an area of about $40' \times 40'$ down to $V \sim 19$. The stars of those areas selected as cluster members from their proper motions, are classified into photometric regions and their physical parameters determined, using uvby-Hbeta photometry and standard relations among colour indices for each of the photometric regions of the HR diagram. That allows us to determine reddening, distances, absolute magnitudes, spectral types, effective temperatures, gravities and metallicities, thus providing an astrophysical characterization of the clusters. These results are compared with the physical parameters obtained from GES spectral data as well as radial velocities to confirm membership. All these data lead us to a (1) comparison of photometric and spectroscopic physical parameters, and (2) complete study of the structure, dynamics and mass segregation of these three open clusters.