ID 44

Tipo de Comunicación: Poster

Sesión Científica: La via lactea y sus componentes

Titulo: The evolution of the Milky Way's radial abundance gradients

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Resumen:

Using asteroseismic CoRoT observations of red giant stars together with APOGEE spectroscopy, we measure the age dependence of the radial metallicity distribution in the Milky Way's thin disc over a large radial range. While the gradient traced by the young population (Age <2 Gyr) is compatible with measurements of Cepheids in the literature, stellar radial mixing and migration seem to wash out any present differences in the metallicity distributions after about 4 Gyr. Our results also suggest the presence of a metallicity floor in the disc's interstellar medium of about [Fe/H] =-0.8 which has remained constant for the past 8-10 Gyrs.