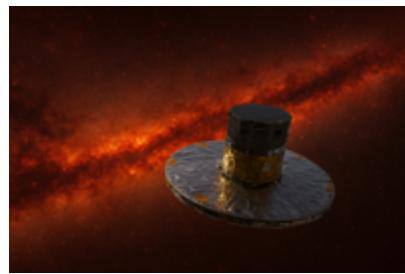


The Gaia NIR mission and the engagement of the Spanish Community



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RR Lyrae: Pulsating Tracers of the Milky Way with Gaia and J-VAR/J-PLUS

Wednesday 28 January 2026 12:28 (7 minutes)

RR Lyrae stars are powerful pulsating tracers of the Milky Way's structure and stellar populations. We present a catalog of 315 RR Lyrae light curves combining Gaia DR3 with J-VAR DR1 observations from the JAST80 telescope at the Observatorio Astrofísico de Javalambre, complemented by J-PLUS multi-filter photometry. We will also present preliminary results from the analysis of Gaia-J-PLUS RR Lyrae light curves, highlighting trends in multi-band amplitudes and their potential for population studies. This work illustrates the value of combining current surveys as a pathfinder for future Gaia-based and GaiaNIR astrometric science.

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Session Classification: REG: Herramientas para Gaia DR3 y DR4 (II) Chair: Friedrich Anders