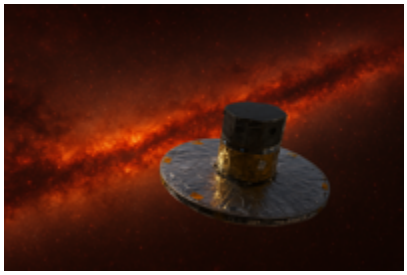

Contribution ID: **34** Type: **not specified**

The future Roman Galactic Plane Survey and HAYDN - Synergies with GaiaNIR

Friday 30 January 2026 11:20 (20 minutes)

I will briefly present 2 upcoming space missions relevant to GaiaNIR: Nancy Grace Roman's recently approved Galactic Plane Survey, and the HAYDN mission.

The Nancy Grace Roman Space Telescope is currently on track to be launched in late 2026. It will perform a deep (Ks~24 mag) Galactic Plane Survey in the near-infrared whose main objective is to create a high-resolution (~0.1 arcsec) map of the Inner Galaxy. The observations will be conducted at two epochs separated by ~5 years, allowing for relative proper motions - these will potentially be very useful also for GaiaNIR astrometry.

HAYDN, on the other hand, is one of the ten mission concepts proposed to ESA's M-class call (M8) after its Step-1 selection. Its mission is to revolutionise our understanding of stellar evolution through high-precision, space-based asteroseismology in dense stellar fields, including clusters. HAYDN's science cases also include Galactic evolution and exoplanetary science. Spain is currently the second-largest contributor to the project, with active participation from several national institutes and universities. There is still room for active participation in the science preparation activities from our community - also with regards to synergies with GaiaNIR.

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