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Gaia: Expectations from DR4 and beyond (invited talk)

Friday 27 March 2026 09:40 (20 minutes)

While Gaia DR3 itself contained limited exoplanet results, Gaia DR4 is expected to include the discovery, orbits, and masses of thousands of exoplanets. I will briefly review exoplanet results of Gaia DR3, including from its combination with Hipparcos. I will discuss the reasons for the continued value of Hipparcos measurements in the face of higher Gaia precision, and the scaling of Gaia sensitivity with observing baseline. These scalings can inform expectations for Gaia DR4 for planets as a function of orbital period, with a peak sensitivity near the DR4 baseline of about 5.5 years. I will further describe prospects for the discovery and orbits of planets on longer periods with DR4 and with subsequent Gaia data releases.

Presenter: Dr BRANDT, Timothy (Space Telescope Science Institute, USA)

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