

The Gaia Astrometric Census of Planetary Systems

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Abstract

In its all-sky survey, the ESA global astrometry mission Gaia will perform high-precision astrometry and photometry for 1 billion stars down to $G = 20$ mag. The data collected in the Gaia catalog, to be published by the end of the next decade, will likely revolutionize our understanding of many aspects of stellar and Galactic astrophysics. One of the relevant areas in which the Gaia observations will have great impact is the astrophysics of planetary systems. I will briefly review the Gaia mission status, and organization. I will then illustrate the potential of μ as astrometry for important contributions to exoplanets science, with particular attention to its promise for improved characterization of planetary systems when combined with other indirect and direct detection and characterization techniques.