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# Solar system science with extreme astrometry

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## Abstract

Among all sources in the sky, objects from our own Solar system are characterized by their ever changing positions. Regular and precise astrometry is key to study their orbits, which distribution results from both the early events of planetary formation and the secular evolution of 4.5 Gy. The ESA space mission has brought a revolution with its unprecedented astrometric accuracy and repeated observations of small bodies from our Solar system: the asteroids, comets, and satellites. I will describe some key questions related to the astrometry and dynamics of small bodies, and discuss the prospective for a future space mission.

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