

The Gaia NIR mission and the engagement of the Spanish Community



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The Euclid mission in the context of the GAIA NIR mission

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ESA's Euclid mission was launched from Cape Cañaveral in Florida in July 2023.

It is a wide-field space telescope with two instruments, the visual imager (VIS) and the near-infrared imager and slitless spectrograph (NISP). Euclid is carrying out a 5-year survey of the extragalactic sky to study the geometry of the Universe.

It has already produced two public data releases, namely the Early Release Observations (ERO) and the Quick data release 1 (Q1). Deep wide field multi-color images and catalogs were provided in the ERO release, including low-galactic latitude regions in well-known nearby star-forming regions and very young open clusters. The Q1 release consisted of a first glimpse of the Euclid Deep Fields that are going to be observed repeatedly throughout the mission. Preparation of the major data release number 1 (DR1) is underway as it is scheduled to become public in the fall of 2026. This presentation will deal with the Euclid performance and limitations, the current status and future plans, particularly in the context of synergies with Gaia NIR. Some examples of big science questions in the realm of Substellar Astrophysics will be discussed.

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