

# The Euclid mission: scientific forecast, overview and status

*Wednesday 1 May 2024 15:20 (20 minutes)*

The Euclid mission satellite was launched on July 1st, 2023 from Cape Canaveral, Florida, with a Space X Falcon 9 rocket. After one month journey it is set in its orbit around the Sun-Earth L2 point and has already finished its commissioning period. Euclid survey started in February 2024 and will map 15000 deg<sup>2</sup> of the sky in the following six years observing more than 1 billion galaxies with unprecedented image quality. The survey will provide a 3D map of the universe and will improve our knowledge on the cosmological model by an order of magnitude with respect to current constraints. This talk will describe the Euclid mission, its instruments, its current status and first images, the expected schedule on Data Releases, and describe the cosmological probes that will be measured and how it will contribute to our understanding of the dark content of the Universe.

**Primary author:** PADILLA ARANDA, Cristobal (IFAE-Barcelona (ES))

**Presenter:** PADILLA ARANDA, Cristobal (IFAE-Barcelona (ES))

**Session Classification:** Talks