

Euclid Early Release Observations - first results on Milky Way globular clusters

Thursday, 18 January 2024 11:20 (20 minutes)

On July 1st 2023, the Euclid mission has officially started its operation with a successful launch, and a few months ago its optical VIS and near-IR NISP instruments have taken the first astonishing images on the sky. The main objective of the Euclid mission is to explore the distant universe to solve the most pressing cosmological open questions, but the unprecedented combination of high-resolution, wide field and depth makes it a fantastic instrument to study resolved stellar populations as well.

As part of its very first observations, under the Early Release Observations (ERO) programme, Euclid observed two Milky Way Globular Clusters. The main scientific objective of these observations is to investigate the globular cluster morphology in search for tidal features in their outermost regions. In this talk, I will present the first results obtained from this effort, that showcase the potential that Euclid has for advancing the study of star clusters in our Galaxy well beyond the current limit.

Primary author: MASSARI, Davide (Istituto Nazionale di Astrofisica (INAF))

Presenter: MASSARI, Davide (Istituto Nazionale di Astrofisica (INAF))