

Title:

A Euclid view of Globular Clusters of Dwarf Galaxies
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Abstract:

During its mission, Euclid will observe tens of thousands of dwarf galaxies in the Local Universe with fantastic depth and spatial resolution. Such a dataset enables us to identify Extragalactic Globular Clusters (EGCs) around these dwarf galaxies and gain unprecedented insight into their formation and evolution. In this talk, I present the analysis of Euclid data of EGCs around dwarf galaxies in two nearby galaxy clusters. This has been possible given Euclid's Early-Release Observations (EROs) of several nearby targets.

During the talk, I briefly introduced the adopted methodology for identifying EGCs (candidates) in Euclid VIS+NISP images to produce GC catalogues. Then, I study the GC properties of dwarf galaxies using the resulting GC catalogues. For that, I present the analysis of GC luminosity function, GC number counts and GC radial distribution around dwarf galaxies. At the end of this talk, I present the findings and briefly describe our plans within the Euclid consortium for studying EGCs around dwarf galaxies with the Euclid Wide Survey.

The work is done within the Euclid ERO teams and the Euclid consortium.