

EUCLID

GALAXY EVOLUTION

PEOPLE AT INAF-OAS:

POZZETTI, ZUCCA, BARDELLI, BOLZONELLA,
CUCCIATI, ZAMORANI



euclid

EUCLID WIDE: 15000 DEG^2
EUCLID DEEP: 40 DEG^2 (2 MAGNITUDES DEEPER)

SPECTROSCOPIC REDSHIFTS AND NIR PHOTOMETRY
FOR 5×10^7 GALAXIES

PHOTOMETRIC REDSHIFTS AND PHYSICAL
PROPERTIES FOR 1.5×10^9 GALAXIES

Launch date: June 2022
<https://www.euclid-ec.org>

Projects:

- Galaxy properties from spectra and photometry
- Distribution functions (e.g. luminosity and stellar mass functions) of galaxies: global and in different environments
- Characterisation of different environments (filaments, proto-clusters, voids)

DIFA collaborators: Cimatti,
Moresco, Talia

EUCLID

CLUSTERS OF GALAXIES

PEOPLE AT INAF-OAS:

BARDELLI, CAPPI, ZUCCA, CUCCIATI, BOLZONELLA,
GIOCOLI, SERENO



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EUCLID WIDE: 15000 DEG²
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IN THE WIDE SURVEY EUCLID WILL DETECT
 2×10^6 CLUSTERS OF GALAXIES AT ALL REDSHIFTS
WITH MASSES $> 10^{14} M_{\odot}$

Projects:

- Expected number of detected clusters in the Euclid deep survey
- Physical properties of clusters and their evolution
- Luminosity and stellar mass functions of clusters

DIFA collaborators: Moscardini,
Marulli