

# Euclid Legacy Science 2022 (in Italy)

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Co-lead of SWG “Galaxy & AGN Evolution”

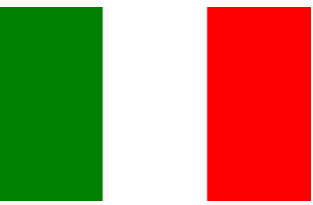
16h40	16h50	Introduction	A. Cimatti
16h50	17h00	SWG Local Universe	L. Hunt
17h00	17h10	Physical Parameter Estimates from Photometric SEDs	L. Pozzetti
17h10	17h20	IST Blue GRISM	M. Talia
17h20	17h30	High-z object	G. Rodighiero

# Science Working Groups

- Weak lensing
- Galaxy clustering
- Clusters of galaxies
- CMB cross-correlations
- Strong lensing
- Cosmological simulations
- Cosmological Theory

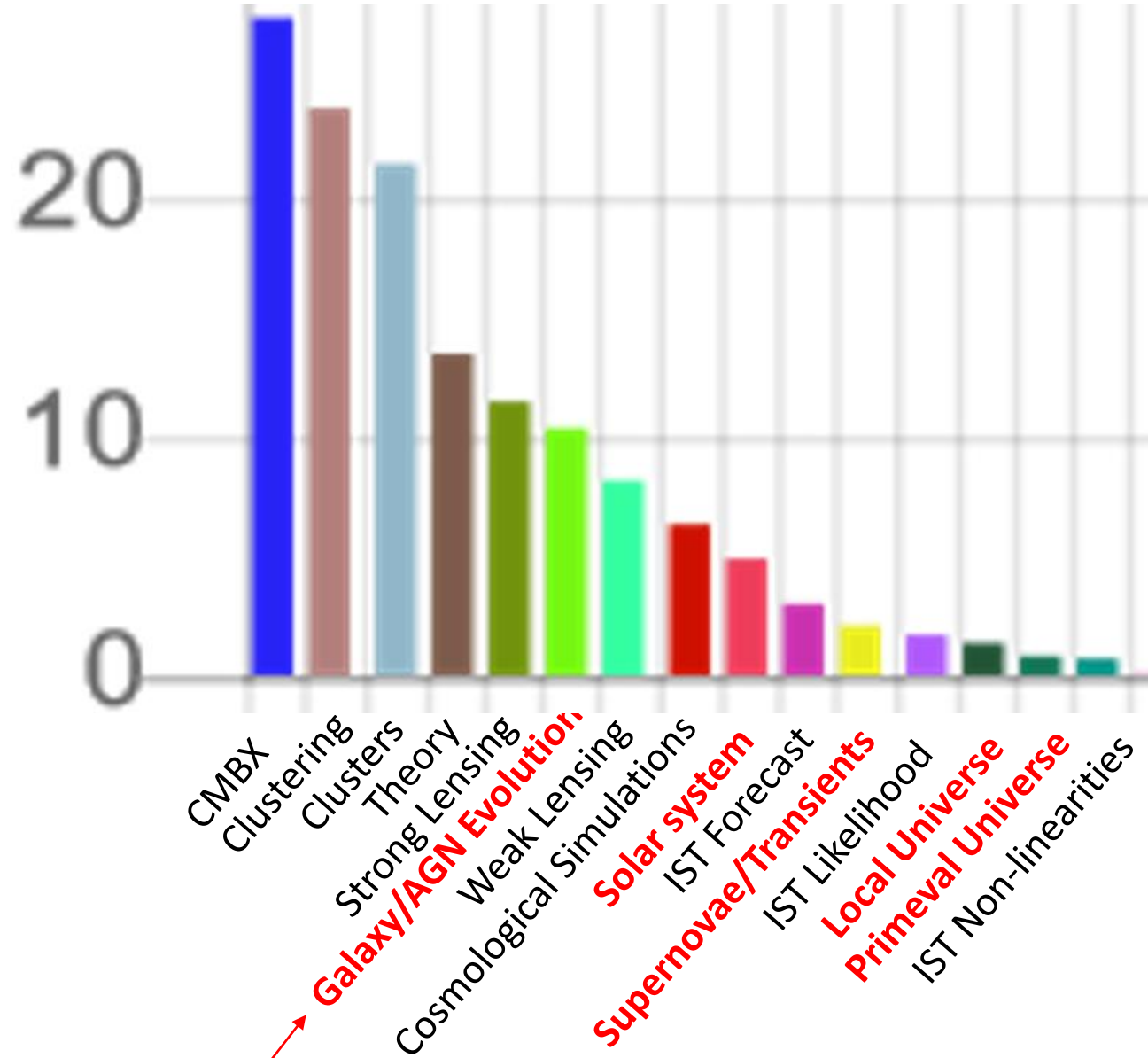
- Primeval Universe
- **Galaxy & AGN evolution** ■ ■
- Milky Way and resolved stellar populations
- **Local Universe** ■ ■
- **SNe and transients** ■ ■
- Extrasolar planets
- Solar system objects

**Legacy science**



# Italian contributions to SWG & IST

February 2022



Red = legacy science



ALMA MATER STUDIORUM  
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# Key Science Cases (galaxies/AGN/DM halos)

- Multi-dimensional distributions of physical parameters
- The growth and evolution of quiescent high-z galaxies
- Galaxy evolution as a function of environment
- Galaxy evolution at fixed halo mass
- Baryon to star conversion efficiency
- Properties of galaxy halos from strong lensing
- Intrinsic alignments and galaxy properties
- Galaxy merger evolution
- Morphology evolution
- AGN evolution up to high redshifts
- High-z galaxies and Reionization
- Comparison with theoretical models
- Reference at  $z=0$  (Local Universe)

