

G. De Lucia, P. Monaco: “Galaxy Formation”

16 h

Observational properties of galaxies and their evolution

- Galaxy Spectral Energy Distributions and their interpretation.
- Recovery of physical quantities: stellar mass, star formation rate, cold gas mass and metallicity, galaxy sizes, galaxy outflows.
- The galaxy/AGN connection.

Formation of galaxies in a cosmological context:

- the framework: the dissipationless universe
- the physics of galaxy formation
- introduction to different models of galaxy formation and evolution
- overview successes and open problems