

Keynote - Weak lensing and 3x2pt with Euclid

mercredi 11 juin 2025 14:50 (40 minutes)

Euclid is a European Space Agency telescope designed to map the dark Universe and uncover the nature of cosmic acceleration. It is conducting a large survey of galaxies, which will be used to measure the large-scale mass distribution of the Universe through weak gravitational lensing, galaxy clustering, and their combination ('3x2pt'). I will explain how we plan to use Euclid's imaging to constrain cosmological models and describe specific challenges that must be overcome to deliver precise results. I will place Euclid in the context of other existing/planned observational cosmology programmes, and discuss how Euclid might influence the landscape of viable cosmological models and cast light upon current tensions in Lambda-CDM.

Orateur: HALL, Alex (University of Edinburgh)

Classification de Session: COLOURS Workshop