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The cosmological basis with Euclid survey

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The Euclid survey will map the large scale structure with the aim of measuring the parameters of the standard cosmological model with unprecedented precision.

However, the great sensitivity of Euclid can also be exploited to test the most fundamental assumptions at the basis of the standard cosmological model. Here we present two works of the Euclid Consortium where, forecasts from Euclid together with data from other surveys, are used to constrain the cosmic distance duality relation and the assumptions of homogeneity and isotropy of the universe on large scales.

Author: SAPONE, Domenico

Presenter: SAPONE, Domenico

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