

Cosmological computing with InDark

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The goal of InDark is to investigate crucial aspects of the standard cosmological model and their connection with particle physics. The project focuses on inflation in the early Universe, the nature of dark matter and the nature of dark energy, also in terms of scenarios of modified gravity, as well as on neutrino cosmology. Particular emphasis is given to the present-day and future observations of the Cosmic Microwave Background (CMB) radiation, the study of the Large-Scale Structure (LSS) of the Universe through present and future surveys. InDark research topics are in significant need supercomputing power, for theoretical modelling, simulations and model to data comparisons. I will briefly present the current ongoing computational activities and discuss forecastable future demand.

Primary author: NATOLI, Paolo (FE)

Presenter: NATOLI, Paolo (FE)

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