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The Euclid Mission

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The European Space Agency's Euclid Mission will be launched in 2021. During its six-year mission, the Euclid satellite will survey nearly 40% of the sky, providing scientists with an extraordinarily large amount of data that will impact many aspects of modern cosmology and astrophysics. The Euclid Mission's primary science goals are targeted towards constraining the nature of two of the most puzzling quantities in our Universe: Dark Energy and Dark Matter. In order to do so, the Euclid Satellite will image billions of galaxies as well as measure tens of millions of spectra. In this talk we will summarize the main scientific objectives of the mission, focusing in particular to the topics closest to the INFN research interest, and the computational challenges emerging in the analysis of Euclid data.

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