



Salvatore Capozziello

University of Naples "Federico II"

Going beyond the standard LambdaCDM model by Cosmography

Time: 14:30-15:30, 9 December (Monday), Shanghai time

Venue: N601 (TDLI)

Host: Luca Visinelli

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Meeting ID: 162755931

Abstract:

The standard cosmological model is recently suffering severe shortcomings and tensions due to the fact that, very likely, it has to be improved at IR and UV scales. In view to reconstruct a self-consistent cosmic history, cosmography revealed a model-independent approach capable of fixing reliable models starting from observations. Without claim to completeness, we are going to sketch an overview of the method and the possible realizations towards the solutions of various cosmological tensions.

Biography:

Salvatore Capozziello is a Full Professor of Astrophysics at the University of Naples "Federico II" and the PhD Coordinator for the program in Cosmology at the Scuola Superiore Meridionale (Naples). He has served as the President of the Italian Society for General Relativity and Gravitation. His scientific activity, devoted to Cosmology and General Relativity, has resulted in more than 600 papers published in peer-reviewed journals. Prof. Capozziello is also the author of several monographs for Springer, Cambridge, and other publishers.