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Cosmology with Cosmic Voids

Friday, July 1, 2022 2:00 PM (1 hour)

Voids in the large-scale structure of the Universe are currently entering the realm of precision cosmology. Most ongoing and planned surveys are considering them as a cosmological probe in various ways. The aim is to extract information that is complementary to what is already accessible via the traditional probes. I will present some recent highlights from the analysis of cosmic voids in both simulated, as well as observational data. These include constraints on cosmological parameters from dynamic and geometric distortions of voids in SDSS with prospects for Euclid, measurements of gravitational lensing around voids in DES, and their expected signatures from primordial non-Gaussianity and massive neutrinos based on simulations.

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