

Cosmology with cosmic void statistics in galaxy survey

Tuesday, September 27, 2022 4:45 PM (20 minutes)

Upcoming galaxy surveys will measure millions of spectroscopic galaxy positions over large sky areas and large redshift ranges, allowing to map in detail significant contiguous fractions of the observable Universe. High spatial resolution together with large volume allow to study cosmic voids in detail, making them a new effective probe for cosmology. In this talk, I focus on void abundance and void density profiles, and on their sensitivity to dark energy. Voids are a powerful cosmological probe to exploit for the next generation of surveys such as Euclid.

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