

WST - the Wide-field Spectroscopic Telescope: surveying the Universe in the 2040's and beyond



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Cosmology with cosmic voids

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Cosmic voids, the underdense regions of the universe, offer a unique opportunity for understanding the cosmos. These mildly nonlinear structures preserve the evolutionary imprints of the universe, making them invaluable for constraining cosmological parameters and exploring new physics, that can be unlocked using the potential of WST. In this talk, we present the current status of the void-galaxy cross-correlation function, emphasizing its capability to extract cosmological constraints, and highlighting the constraints achievable through combining it with other void statistics, e.g., the void size function.

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