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How to measure cosmology from nothing: void-galaxy cross-correlation with DESI

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Cosmic voids provide a novel probe of structure formation and cosmic expansion. They are sensitive to structure growth, dark energy, modified gravity, and sum of neutrino masses. Using the DESI spectroscopic data, we perform void identification and present the preliminary measurements of the void-galaxy cross-correlation function. By measuring the void-galaxy cross-correlation function we can extract constraints on the content of the Universe and the growth rate of structures through the Alcock Paczynski test and by modeling redshift space distortions. The work I will present highlights the potential of cosmic voids for testing cosmological models with DESI.

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