

Fundamental Physics from Future Spectroscopic Surveys

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Fundamental Physics from Galaxy Surveys

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I will present a new program of probing fundamental cosmology with spectroscopic galaxy surveys. This program builds on ideas of effective field theory and allows for sub-percent precision analytic understanding of galaxy clustering on large scales. I will highlight recent results of this program that include new measurements of fundamental cosmological parameters and constraints on new physics beyond the standard models of particles and cosmology.

Primary author: Prof. IVANOV, Mikhail (MIT)

Presenter: Prof. IVANOV, Mikhail (MIT)

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