

Physics and Physical Oceanography Seminar

Cosmology with galaxy surveys in a data-rich era

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DATE: Thursday, Oct 8, 2020

TIME: 3:30 pm

Place: Webex (<https://mun.webex.com/mun/j.php?MTID=m2df817201eb643941a9a012490770fb8>)

ABSTRACT: Late-time observational cosmology is coming of age. With the unprecedented power of current and upcoming surveys, we will not only produce excellent constraints on the standard model of cosmology, but also pin down the properties of potential extensions to that model, such as dynamical dark energy and modified gravity. I will discuss the state-of-the-art in testing and constraining these phenomena using weak gravitational lensing and galaxy clustering measurements. I will also describe some of the challenges and opportunities involved in such analyses using data from surveys such as the ongoing Dark Energy Survey (DES) and the next-generation flagship Large Synoptic Survey Telescope (LSST).

ALL ARE WELCOME!