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Science with the Hyper Suprime-Cam Survey

Wednesday 9 August 2017 16:00 (30 minutes)

The WFIRST high-latitude survey (HLS) will provide an exciting dataset for constraining dark energy through a variety of measurement methods. In this talk, I will describe the current plans for the WFIRST HLS and the potential for competitive constraints on dark energy with weak lensing. I will also discuss the potential synergies with other surveys during the same time-frame, including the opportunities provided by joint analysis with LSST, Euclid, and CMB-S4. Finally, I will present the results of ongoing efforts to understand the impact of near-infrared detector systematics on weak lensing measurements, and to place requirements on the hardware to ensure that the scientific goals of the survey can be met.

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