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Beyond LCDM with future surveys: Rubin LSST, SKAO and Simons Observatory

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Recent results from the Dark Energy Spectroscopic Instrument has shifted our understanding about dark energy, preferring about 2-3 sigma evidence for evolving dark energy. The phantom crossing of the dark energy equation of state has motivated the search of new cosmological models. In this talk, I will discuss how combinations of data from Rubin Observatory LSST, Simons Observatory and SKAO can assist in better understanding the nature of dark energy and solutions to cosmological tensions. I will present forecasts on Rapid Transition Dark Energy and Early Dark Energy models, and discuss the challenges and systematics in different datasets. Specifically, I will present which combinations to datasets generate best constraints on extended models.

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Clasificación de la sesión : Afternoon Session (Tuesday)