



Contribution ID: 195

Type: **Talk**

Cosmological constraints from DESI DR1

Wednesday 28 August 2024 11:40 (20 minutes)

This talk will present the latest cosmological results from the first data release (DR1) of the Dark Energy Spectroscopic Instrument (DESI). DESI, with its unprecedented spectroscopic capabilities, provides a rich dataset that allows for a precise investigation of the large-scale structure of the universe. We analyze the distribution of galaxies, quasars, and the Lyman-alpha forest to extract parameters such as the Hubble constant and those for the dark energy equation of state and the matter density. We also combine DESI data with external datasets, including Cosmic Microwave Background and Supernovae, to push our constraints and identify tensions. We include a discussion of the various quality checks, including blinding, and elaborate on the implications of our results for current cosmological models.

Internet talk

No

Is this an abstract from experimental collaboration?

Yes

Name of experiment and experimental site

Dark Energy Spectroscopic Instrument (DESI)

Is the speaker for that presentation defined?

Yes

Details

Title: Dr.

Name: Uendert Andrade

Institution name: University of Michigan

Country: USA

webpage: <https://lsa.umich.edu/physics/people/research-fellows/uendsa.html>

Note: I was selected internally by the DESI collaboration to give a talk about DESI cosmological results at ICNFP. The DESI Speakers Board relayed this information to ICNFP, and I received a confirmation from the ICNFP 2024 Organizing Committee on June 27, 2024.

Author: Dr ANDRADE, Uendert (University of Michigan)

Presenter: Dr ANDRADE, Uendert (University of Michigan)

Session Classification: Cosmology, Astrophysics, Gravity, Mathematical Physics

Track Classification: Main topics: Cosmology, Astrophysics, Gravity, Mathematical Physics