Sixteenth Marcel Grossmann Meeting



Contribution ID: 711

Type: Invited talk in the parallel session

Measuring H(z) in a cosmology-independent way

Monday, 5 July 2021 16:30 (22 minutes)

I present a method to estimate $H(z)/H_0$ without assuming a cosmological model. The method employs the clustering of standard candles from future surveys like LSST. We find that LSST can constrain $H(z)/H_0$ up to z=0.7 with uncertainties, in the best cases, around 5%. The method can be further improved by including large galaxy surveys.

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Session Classification: Status of the H_0 and Sigma_8 Tensions: Theoretical Models and Model-Independent Constraints

Track Classification: Cosmic Microwave Background: Status of the H_0 and sigma_8 tensions: theoretical models and model-independent constraints