

Future Constraints on Dark Energy using 21cm observations with SKA1-mid

In this work, we study the future constraints on dark energy models using 3D 21-cm power spectrum for SKA1-mid. We use three parametrisations for the dark energy equation of state. For each model, we compare the deviations in 3D power spectrum for each parametrisation from concordance Λ CDM model. We show that the SKA1-mid will be able to put significantly tighter constraints on dark energy behaviour compared to present constraints.

Author: Mr DINDA, Bikash (Centre for Theoretical Physics, Jamia Millia Islamia)

Presenter: Mr DINDA, Bikash (Centre for Theoretical Physics, Jamia Millia Islamia)