



Contribution ID: 83

Type: **not specified**

## **Cosmology using 1-loop EFT power spectrum for HI intensity mapping**

We explore the information from HI power spectrum in redshift space using 1-loop EFT power spectrum model and HIRAX survey. This work is an extension of our recent paper on Cosmological constraints from the power spectrum and bispectrum of 21cm intensity maps. We marginalise over bias and nuisance parameters. We notice from the results that CMB Planck 2018 constraints can be improved if we add non-linearity (EFT).

**Presenter:** RANDRIANJANAHARY, Liantsoa Finaritra

**Session Classification:** Posters of friday (ignore time)