

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 50 Hours
 Minimum Useful Time: 1.5 hours

Proposal Title: HI Intensity Mapping of zCOSMOS field

ABSTRACT:

We will measure 21 cm emission at redshifts near 1 by stacking the intensity field aligned using galaxy positions taken from the zCOSMOS optical redshift survey. We will attempt to produce not just a measurement of the average HI mass in the zCOSMOS galaxies, but also a 21 cm correlation function at redshift $z \sim 1$. We will further attempt to detect the HI emission by direct intensity mapping.

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Remote Observing Request

- Observer will travel to AO
- Remote Observing
- In Absentia (instructions to operator)

Instrument Setup

705-825

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

700 - 800