

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Extragalactic
 Total Time Requested: 89 Hours
 Minimum Useful Time: 1.5 hours

Proposal Title: A Pulsar Census of the Local Group

ABSTRACT:

We request 89 hours to search for pulsars in sixteen Local Group galaxies at 327 MHz. If successful, this will result in the first ever detection of pulsars outside of the Milky Way and the Magellanic Clouds. The only means to detect these distant pulsars is to search for high-intensity giant radio pulses. Discovery of pulsars in other galaxies, combined with distance measurements, would be a sensitive probe of ionized component of the local intergalactic medium. Any new extragalactic pulsars will contribute significantly to pulsar evolution studies in other galaxies.

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Remote Observing Request

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

Instrument Setup

327

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned