

Technical Page

This proposal has not been submitted before.

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Continuum
 Observation Category: Galactic
 Total Time Requested: 17.5 Hours
 Minimum Useful Time: 2 hours

Proposal Title: Observations of radio flares from the T-dwarf WISEPC J112254.73+255021.5
ABSTRACT:

WISEPC J1122+25 is one of only four T-dwarfs found to emit non-thermal flares at radio wavelengths. Using the data from our original observations, we have preliminarily established that this dwarf may be an ultra-fast rotator with a period as short as 17 min. if true, this would be a result of great interest to both observers and theorists working in this area. Recent JVLA observations by a different group seem to indicate that the dwarf's rotation period is about 116 min., which, if real, would make it much less unusual. We propose to use the Arecibo telescope to measure more flares from WISEPC J1122+25 at 5 GHz with the Mock spectrometer, and resolve the existing controversy as soon as possible.

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Remote Observing Request

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

Instrument Setup

C

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned