

Technical Page

This proposal has not been submitted before.

Proposal Type: Urgent
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 2 Hours
 Minimum Useful Time: 2

Proposal Title: Hidden or deactivated? A missing MSP

ABSTRACT:

PSR J1023+0038 is a transition object between radio millisecond pulsars and X-ray binaries: in 2001 it had an active phase, but it has been in quiescence ever since. Now its ≤ 2 GHz radio emission has disappeared. We request a 2-hour observation at 5 GHz to test whether this disappearance is due to enshrouding by ionized material or deactivation by an accretion disc.

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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: We plan to use PUPPI at 5 GHz. This combination is not widely used, so we may need some assistance configuring the hardware. We have allowed extra time in our proposal for troubleshooting.

RFI Considerations

Frequency Ranges Planned

4600-5400