

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category:
 Total Time Requested: 40 Hours

Proposal Title: Caltech-Arecibo Drift Survey: Verification of Pulsar Candidates

ABSTRACT:

We propose to attempt to verify the top 20 pulsar candidates from the Caltech-Arecibo Drift Survey. Our search covered over 800 square degrees with significantly better sensitivity to millisecond and sub-millisecond pulsars than previous searches at Arecibo. Our search has detected 19 previously known pulsars, including two millisecond pulsars, and we have already verified 3 new (slow) pulsars using unsubscribed telescope time. We expect this survey to yield at least 6 new slow pulsars and 4 new millisecond pulsars.

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I do NOT want to do remote observing.

Instrument Setup

430 CH receiver

Atmospheric Optical Instruments:

Special Equipment or setup: The observations will use the PSPM. No special equipment is required.

RFI Considerations

Frequency Ranges Planned

425-435

This proposal requires coordination with AFTWF within the band 425-435 MHz.