Technical Page

Proposal Type: Regular
General Category: Pulsars
Observation Category: 68 Hours

Proposal Title: Caltech-Arecibo Drift Survey: Timing of New Pulsars

ABSTRACT:
We are requesting 68 hours of telescope time over a 10 month period to obtain timing solutions for 4 new pulsars from the Caltech-Arecibo Drift Survey. The timing program will allow determination of each pulsar’s period derivative, from which the magnetic field and characteristic age can be derived. These observations may also reveal such phenomena as glitching behavior and binary motion, if present. One of the new pulsars already shows a number of interesting characteristics, including a 180 degree interpulse and possible association with a supernova remnant.

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<tr>
<th>Name</th>
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<tbody>
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I might want to do remote observing.

Instrument Setup

430 CH receiver L-narrow

Atmospheric Optical Instruments:

Special Equipment or setup: We will use PSPM and CBR. We will be using our usual supply of tapes. No other special equipment required.

RFI Considerations

Frequency Ranges Planned

425-435
1405-1415

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