

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Sub-Category: Continuum
 Observation Category: Galactic
 Total Time Requested: 27 Hours

Proposal Title: TIMING NEWLY DISCOVERED MILLISECOND PULSARS IV

ABSTRACT:

In Arecibo proposal P1436, we were awarded 1.4 GHz pulsar search observations of 10 globular clusters (GCs). We made these observations in June 2001 using the WAPP instrument and subsequently discovered 7 new millisecond pulsars (MSPs) in the data. In project P1640 we were awarded time to begin timing 3 of these new pulsars in the clusters M13 and M5. In this proposal, we request an additional year of monthly 1 hour observations of these clusters in order to continue timing 5 of the millisecond pulsars contained therein. The availability of 4 WAPPs will allow us to obtain better detections of the currently know pulsars and will also improve our chances of detecting new pulsars in these clusters, which may “scintillate up”. With 1 hour on each cluster plus 15 minutes for setup at each epoch, the total time request is 27 hours for the next year.

Name	Institution	E-mail	Phone	Student
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Service Observing Request

Remote Observing Request

- | | |
|---|--|
| <input checked="" type="checkbox"/> None
<input type="checkbox"/> All of the observing run.
<input type="checkbox"/> Part of the observing run.
<input type="checkbox"/> Queue Observing | <input type="checkbox"/> No
<input type="checkbox"/> Maybe
<input checked="" type="checkbox"/> Yes |
|---|--|

Instrument Setup

L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

1125 - 1525

This proposal requires coordination with Punta Salinas radar within the band 1222-1381 MHz..

This proposal requires coordination with GPS L3 at 1381 MHz.