

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 41 Hours

Proposal Title: Masses of Three Neutron Stars

ABSTRACT:

We will undertake campaigns of timing observations of three millisecond binary pulsars in order to measure the masses of two of the pulsars and refine the mass measurement of the third. These new measurements will be possible because of substantial recent improvements in pulsar backends (ASP and four dual-board WAPPs) and in telescope receivers (L-wide and 20 MHz passband at 430 MHz).

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

430 G L-wide 327

Atmospheric Observation Instruments:

Description of Observer Equipment: Arecibo Signal Processor (ASP) backend for pulsar processing
 (in addition to the WAPPs).

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

Standard ranges of the
327, 430, and L-wide feeds.
We can work around RFI as
necessary.

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