

## Technical Page

Proposal Type: Regular  
 General Category: Pulsars  
 Observation Category: Galactic  
 Total Time Requested: 18 Hours

**Proposal Title:** Proper Motion of Binary Pulsar PSR B1913+16

*ABSTRACT:*

We will make a series of pulse timing observations of binary pulsar B1913+16 over the course of a year. Combined with previous data, the observations will yield a high precision measurement of the pulsar's proper motion. This measurement is of importance in a number of applications, from studies of birth kicks imposed on neutron stars to tests of relativistic gravity.

Name	Institution	E-mail	Phone	Student
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**Service Observing Request**

**Remote Observing Request**

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

**Instrument Setup**

L-wide

**Atmospheric Observation Instruments:**

**Description of Observer Equipment:** The ASP pulsar coherent dedisperser or the Princeton Mark

III or Mark IV system may be used in parallel with the WAPPs, which will be the primary data collection equipment.

**Special Equipment or setup:** This proposal needs at least four WAPPs as backends. WAPP pulsar-folding mode is strongly preferred.

**RFI Considerations**

## Frequency Ranges Planned

1120-1220

1370-1470