

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 49 Hours

Proposal Title: Timing and Polarimetry of Relativistic Binary Pulsar B1913+16

ABSTRACT:

We propose to continue our long term program of timing and profile measurements on binary pulsar B1913+16 with an intensive two-week observing campaign in the summer of 2001. We will probe relativistic gravitation, including gravitational radiation emission and geodetic spin axis precession. Spin axis precession will also provide us with a unique opportunity to study the full two-dimensional structure of the pulsar's emission beam.

Name	Institution	E-mail	Phone	Student
Joel M Weisberg	Carleton College	jweisber@carleton.edu	507 646-4367	no

I do NOT want to do remote observing.

Instrument Setup

430 CH receiver L-narrow S-low

Atmospheric Optical Instruments:

Description of Observer Equipment: Princeton Mark III and Mark IV backends

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

1400-1420
 425-435
 2375-2385

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