

Technical Page

This proposal has been submitted before.

The previous proposal number is P2680.

Proposal Type: Regular
 General Category: Pulsars
 Observation Category:
 Total Time Requested: 15 Hours
 Minimum Useful Time:

Proposal Title: Going over the edge - the precessing relativistic pulsar J1906+0746 (continued)
ABSTRACT:

We propose to continue the long-term monthly timing campaign on PSR J1906+0746, the relativistic binary pulsar found in the PALFA survey data. The pulse profile of this young pulsar changes from month to month, pointing to dramatic geodetic precession. From the different cuts through the pulsar emission region, we have constructed rare beam maps of both magnetic poles. Our line of sight now even appears to be approaching the edge of the emission region, and the pulsar flux has decreased enormously. Only with Arecibo/PUPPI can this beam mapping be completed, before the pulsar disappears for the next century.

Name	Institution	E-mail	Phone	Student
Joeri Van Leeuwen	ASTRON/U. Ams-terdam	leeuwen@astron.nl	+31626154552	no

Remote Observing Request

- Observer will travel to AO
- Remote Observing
- In Absentia (instructions to operator)

Instrument Setup

L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

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

This proposal requires coordination with GPS L3 at 1381 MHz.