

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 27 Hours
 Minimum Useful Time: 2.25

Proposal Title: High-Precision Millisecond Pulsar Timing: Velocities and Evolution

ABSTRACT:

We request observations once a month in the LST range 17:45–20:00, for a total of 27 hours over one year, to continue timing four millisecond pulsars. Three of these pulsars are fairly new, discovered in the Parkes Multibeam Pulsar Survey, while the fourth is well-known but has proved to be an excellent “timer” with our modern backend. We demonstrate how these observations will improve our understanding of the pulsar proper motions and evolution. These objects are also invaluable assets to the gravitational-wave-background timing array project.

Name	Institution	E-mail	Phone	Student
Ingrid H. Stairs	University of British Columbia	stairs@astro.ubc.ca	604-822-6796	no

Remote Observing Request

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

Instrument Setup

L-wide

Atmospheric Observation Instruments:

Description of Observer Equipment: ASP and WAPPs

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

1120-1220, 1320-1520

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

This proposal requires coordination with GPS L3 at 1381 MHz.