

### Technical Page

Proposal Type: Long Term  
 General Category: Pulsars  
 Observation Category:  
 Total Time Requested: 108 Hours

**Proposal Title:** Timing Observations of Three Recently Discovered Millisecond Pulsars

*ABSTRACT:*

We propose to continue systematic timing observations of the newly detected millisecond pulsars, PSR J1640+22 and PSR J1709+23, and to confirm and time a strong millisecond pulsar candidate J1737+13. In all three cases, the proposed observations will lead to establishing the much needed accurate timing models for these objects.

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**Service Observing Request**

**Remote Observing Request**

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

**Instrument Setup**

L-band 430 MHz CH receiver

**Atmospheric Observation Instruments:**

**Description of Observer Equipment:**

**Special Equipment or setup:** Special setup: Software needs: Media needs:

**RFI Considerations**

**Frequency Ranges Planned**

see proposal