

## Technical Page

This proposal has not been submitted before.

Proposal Type: Director Discretionary Time  
 General Category: Pulsars  
 Observation Category:  
 Total Time Requested: 30 Hours  
 Minimum Useful Time: 45min

**Proposal Title:** New Searches for Radio Millisecond Pulsars in Fermi Sources (GLST091250)  
*ABSTRACT:*

Fermi has had a spectacular impact on pulsar research, and millisecond pulsars (MSPs) in particular. In the past 7 years, astronomers have discovered 69 new MSPs (3/4 by our group, 34 at the GBT, and 8 at Arecibo) in Fermi unassociated sources. The vast majority were discovered as part of the Pulsar Search Consortium. We aim to continue this amazing MSP discovery pace using the GBT and Arecibo. With 7 years of Fermi survey data, and the new ‘Pass 8’ analysis, there are scores of new high Galactic latitude unassociated sources to search. In addition, we will re-search 10 bright and very pulsar-like sources in case eclipses or unfortunate scintillation hampered earlier search efforts. We request 50 hours of GBT time and 30 hours of Arecibo time.

Name	Institution	E-mail	Phone	Student
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### Remote Observing Request

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

### Instrument Setup

327

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**

## Frequency Ranges Planned