Technical Page

Proposal Type: Regular
General Category: Pulsars
Observation Category: Galactic
Total Time Requested: 26 Hours
Minimum Useful Time: 30 minutes

Proposal Title: Arecibo Timing Observations of two Gamma-Ray Pulsars

ABSTRACT:
We propose to time two energetic, young radio pulsars. One of them (J2021+3651) was recently confirmed to be one of the brightest known $\gamma$-ray pulsars, the other (J1930+1852) is a young and energetic, but radio-faint pulsar that can only be efficiently timed with Arecibo that might still prove to be a $\gamma$-ray pulsar. Our main goal is to monitor the rotational state of these two radio pulsars, allowing accurate folding of their $\gamma$-ray photons. A secondary goal is to constrain the geometry of the pulsars from polarimetry. Both types of information will be important to verify the multiple theories of $\gamma$-ray emission.

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<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
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<tbody>
<tr>
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Remote Observing Request

- [ ] Observer will travel to AO
- [X] 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 GPS L3 at 1381 MHz.