This proposal has not been submitted before.

Proposal Type: Regular  
General Category: Pulsars  
Observation Category: Galactic  
Total Time Requested: 27 Hours  
Minimum Useful Time: 1 hour

Proposal Title: Further Follow-up of Interesting Pulsars Discovered in the Arecibo 327 MHz Drift Scan Survey

ABSTRACT:
We propose to use 36 hours of Arecibo time over the course of a year to time two interesting pulsar systems discovered in the Arecibo Observatory 327 MHz Drift Scan Survey and to find an initial timing solution for a newly discovered source. One of the interesting systems (PSR J2234+06) is an MSP in a 32 day binary orbit with an eccentricity of 0.129. The other (PSR J2204+27) is an intermediate period pulsar with at least one companion and initial follow-up indicates that it might have at least one more companion.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kevin M Stovall</td>
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<td>325-226-2495</td>
<td>no</td>
</tr>
</tbody>
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Remote Observing Request

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

Instrument Setup

L-wide 327

Atmospheric Observation Instruments:

Special Equipment or setup: We will use PUPPI for all observations.

RFI Considerations
Frequency Ranges Planned

This proposal requires Iridium RFI protection at 1612 MHz between 10pm and 6am EST.
This proposal requires coordination with Punta Salinas radar within the band 1222-1381 MHz.
This proposal requires coordination with GPS L3 at 1381 MHz.