This proposal has not been submitted before.

Proposal Type: Regular
General Category: Pulsars
Observation Category: Galactic
Total Time Requested: 5 Hours
Minimum Useful Time: 30

**Proposal Title:** Confirmation Observations of Ten Faint Sporadic Pulsars Discovered by PALFA

**ABSTRACT:**
Recently, we developed a novel single-pulse search approach which identified many dim pulsar candidates. These candidates have repeated pulses at a consistent DM, with the times of arrival of these pulses fitting an underlying rotational period, but are not detectable through folding. We request confirmation observations of the best of these candidates in order to confirm their astrophysical nature. These observations are important to test the accuracy of our machine-learning algorithm and gauge its applicability to future surveys. They are also critical to constrain the emission mechanisms and spin-down properties of sporadic Rotating Radio Transient (RRAT) pulsars and how their numbers compare to the total neutron star population.

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

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

**Instrument Setup**

- L-wide

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**
Frequency Ranges Planned

1150-1730

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.