This proposal has not been submitted before.

**Proposal Type:** Regular
**General Category:** Pulsars
**Observation Category:** Galactic
**Total Time Requested:** 10.5 Hours
**Minimum Useful Time:** 45 minutes

**Proposal Title:** Confirmation of Pulsar and Rotating Radio Transient Candidates Identified by Machine Learning in AO327 Survey Data

**ABSTRACT:**
We have developed a radio transient search code, Single-pulse Event Group IDentification (SPEGID), that uses clustering and supervised machine learning to automatically identify and classify astrophysical pulses in standard single-pulse search output from pulsar surveys. We analyzed data from the Arecibo 327 MHz Drift Pulsar Survey (AO327) and found many credible candidates that were missed by other search algorithms. In order to verify the astrophysical origin of these candidates we need follow-up observations. In this proposal we request time to confirm our 10 most promising candidate sources of single pulses.

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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>
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**Remote Observing Request**
- [ ] Observer will travel to AO
- [x] Remote Observing
- [ ] In Absentia (instructions to operator)

**Instrument Setup**

327

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**
Frequency Ranges Planned