Technical Page

This proposal has not been submitted before.

Proposal Type: Regular
General Category: Pulsars
Observation Category: Galactic
Total Time Requested: 18 hours
Minimum Useful Time:

Proposal Title: High sensitivity observation of interpulse emission

ABSTRACT:
Pulsars with interpulses are important tools for investigations of pulsar geometry and radio emission mechanism. Arecibo has the sensitivity to observe weak emission between the main pulse and interpulse which is poorly studied in previous works. We apply to observe 8 interpulse emission pulsars with Arecibo. The aims of the observation are to detect the low-level emission and modulation between the main pulse and the interpulse, to investigate the geometry and mechanism of pulsar radiation. The requested time is about 18 Hours for 8 selected pulsars in total.

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<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
</tr>
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<tbody>
<tr>
<td>Feifei Kou</td>
<td>National Astronomical Observatory, CAS</td>
<td><a href="mailto:koufeifei@nao.cas.cn">koufeifei@nao.cas.cn</a></td>
<td>+8613565936640</td>
<td>no</td>
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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

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.