Technical Page

This proposal has not been submitted before.

Proposal Type: Short
General Category: Pulsars
Observation Category: Galactic
Total Time Requested: 2 Hours
Minimum Useful Time:

Proposal Title: Follow-up of a radio transient discovered with ALFABURST

ABSTRACT:

We propose to observe a Galactic radio transient source detected with the ALFABURST back-end on June 18, 2017 (MJD 57922). The transient was detected in single-pulse search at a dispersion measure (DM) of 281 pc/cc. We have carried out follow-up observations with the Green Bank Telescope (GBT) at 1400 and 820 MHz resulting in non-detection. We believe that this source is either a rotating radio transient with an extremely low burst rate or an intermittent pulsar with a small duty cycle. We request 2 hours of time to observe the source position with the Arecibo L-band Feed Array (ALFA) receiver. Our time request includes set-up time and observation of a test pulsar, PSR B1933+16.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>P Mayuresh Surnis</td>
<td>West Virginia University</td>
<td><a href="mailto:msurnis@gmail.com">msurnis@gmail.com</a></td>
<td>304-777-9793</td>
<td>no</td>
</tr>
</tbody>
</table>

Remote Observing Request

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

Instrument Setup

ALFA

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations
Frequency Ranges Planned

1225 - 1525