Technical Page

This proposal has not been submitted before.

Proposal Type: Short
General Category: Pulsars
Observation Category: Galactic
Total Time Requested: 1 hr 20 min Hours
Minimum Useful Time: 1 hr 20 min

Proposal Title: Is soft X-ray transient 1H 1905+000 a radio millisecond pulsar now?

ABSTRACT:

There are now three sources known that change from mass-accreting X-ray emitters to pulsating radio emitters, and back. Given this, we propose for the follow-up observation of the neutron star binary 1H 1905+000. That source has transformed from an X-ray emitting accretion state to a low, very quiescent state - the dimmest of all X-ray pulsars. Our 2006 Arecibo observations, however, did not yet reveal radio pulsations. Has the source changed to a proper radio-emitting millisecond pulsar since? That we propose to investigate in this proposal.

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<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
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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

1220 - 1250

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.