Technical Page

Proposal Type: Regular
General Category: Pulsars
Sub-Category: Continuum
Observation Category: 
Total Time Requested: 25 Hours

Proposal Title: A DEEP SEARCH FOR RADIO EMISSION FROM GEMINGA

ABSTRACT:

We propose to search for pulsed radio-emission from the Geminga gamma-ray pulsar. Claims of a radio detection with the Pushchino radiotelescope are inconsistent with recent Arecibo upper limits. Therefore, we propose a very deep 430 MHz observation of Geminga to search for emission at levels significantly below the current Arecibo upper limits. We will epoch fold the radio data over 5 days with our precise gamma-ray timing model. We expect that a radio detection would vastly improve our understanding of this enigmatic pulsar.

<table>
<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>John R Mattox</td>
<td>Boston University</td>
<td><a href="mailto:Mattox@bu.edu">Mattox@bu.edu</a></td>
<td>(617)353-5354</td>
<td>N</td>
</tr>
</tbody>
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Service Observing Request

Remot e Observing Request

X None
☐ All of the observing run.
☐ Part of the observing run.
☐ Queue Observing

X No
☐ Maybe
☐ Yes

Instrument Setup

430 MHz CH receiver

Atmospheric Observation Instruments:

Description of Observer Equipment:

Special Equipment or setup: Special setup: Software needs: Media needs:

RFI Considerations

Frequency Ranges Planned
see proposal