Technical Page

Proposal Identification No.: P2201
Date Received: 2006-Feb-01 22:13:49

Proposal Type: Regular
General Category: Pulsars
Observation Category: Galactic
Total Time Requested: 6 Hours

Proposal Title: Search for Giant Pulses in Three High Edot Pulsars

ABSTRACT:

We propose to make observations using the WAPP of the pulsars J1930+1852, B1951+32, and J1913+1011 in order to prove a correlation between the Edot of a pulsar and the presence of giant pulses. We believe we will be successful in finding giant pulses in these pulsars because they possess high Edots, a characteristic shared by the Crab Pulsar, PSR B1937+21, PSR B0540–69, and B1821 and #8722;24; four of the few currently known giant pulse emitters. These pulsars have been monitored, however there have been no specific searches completed for giant pulses. We expect that with the 6 hours we have applied for, we will observe giant pulses in all three pulsars.

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<tr>
<th>Name</th>
<th>Institution</th>
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<th>Student</th>
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<tbody>
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Service Observing Request

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

Remote Observing Request

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

☐ No
☐ Maybe
☐ Yes

Instrument Setup

430 G L-wide 327

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned
422-442 MHz
1.15-1.73 GHz

This proposal requires coordination with GPS L3 at 1381 MHz.