Proposal Identification No.: P1358  
Date Received: 1999-Sep-30 15:54:34

Technical Page

Proposal Type: Regular  
General Category: Pulsars  
Observation Category:  
Total Time Requested: 4 Hours

Proposal Title: An Unidentified Ultra-Steep Spectrum Source

ABSTRACT:

We have discovered an unresolved (25" beam), 215 mJy source in a 74 MHz image obtained with the VLA. The source does not appear in a 330 MHz image ($S < 6.3$ mJy) from data acquired simultaneously nor in the NVSS ($S < 1.8$ mJy). Its spectrum is at least as steep as $-1.6$ ($S \propto \nu^{-\alpha}$), and it may be as steep as $-2.5$. We request 4 hrs of AO time, over 2 days, in order to search for pulsations from this object at 430 and 1400 MHz.

<table>
<thead>
<tr>
<th>Name</th>
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<th>Student</th>
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<tbody>
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</tr>
</tbody>
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Instrument Setup

430 G L-wide

Atmospheric Optical Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

428-438
1350-1450

This proposal requires coordination with Punta Salinas radar within the band 1222-1381 MHz.
This proposal requires coordination with GPS L3 at 1381 MHz.
This proposal requires coordination with AFTWF within the band 425-435 MHz.