

## 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.

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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.