

Technical Page

This proposal has not been submitted before.

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 4 Hours
 Minimum Useful Time: 1h

Proposal Title: A Possible Pulsar: VLA J0636+1838

ABSTRACT:

In a previous Arecibo program (P1358, PI Lazio), we observed VLA J0636+1838, an unresolved (25 arcsec beam), 215 mJy source detected at 74 MHz with the VLA (Obs. ID AK454, PI Kassim). In the VLA data, the source did 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 and it may be as steep as -2.5. In 4 hr of AO time, over 2 days, the Apr-2000 P1358 observations (at 430 and L-band) did not yield any pulsation detections. However, these observations were taken with a bandwidths of 10 MHz at 430MHz and 100MHz at L-band. Also, the technique of acceleration searches has since become available. With bandwidth improvements factors of 3 (now at 327 MHz) and 8, respectively, using PUPPI, a re-observation is a brief, high-gain project.

Name	Institution	E-mail	Phone	Student
Timothy E Dolch	Hillsdale College	tdolch@hillsdale.edu	527-607-2449	no

Remote Observing Request

- Observer will travel to AO
- Remote Observing
- In Absentia (instructions to operator)

Instrument Setup

L-wide 327

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

310 - 340

1150 - 1730