

## Technical Page

This proposal has not been submitted before.

Proposal Type: Director Discretionary Time  
 General Category: Astronomy  
 Sub-Category: Continuum  
 Observation Category: Galactic  
 Total Time Requested: 16 Hours  
 Minimum Useful Time: 2 hours

**Proposal Title:** Timing the ultracool dwarf TVLM 513-46546

*ABSTRACT:*

This proposal requests the Arecibo telescope time at 5 GHz to conduct additional observations of the ultracool dwarf, TVLM 513-46546, to verify and improve the timing model of the periodic radio flares from this star. The data gathered so far suggest that a sufficiently precise timing of these flares may provide a new tool to study the physics of very low mass stars and brown dwarfs.

Name	Institution	E-mail	Phone	Student
Alexander Wolszczan	Penn State University	alex@astro.psu.edu	814 863 1756	no

### Remote Observing Request

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

### Instrument Setup

C

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** Mock spectrometer

**RFI Considerations**

**Frequency Ranges Planned**