

## Technical Page

Proposal Type: Director Discretionary Time  
 General Category: Astronomy  
 Sub-Category: Continuum  
 Observation Category: Extragalactic  
 Total Time Requested: 15 Hours  
 Minimum Useful Time: 3

**Proposal Title:** A Pilot Study of Intra-Day Variability (IDV) in Extragalactic Radio Sources with the Arecibo Telescope

*ABSTRACT:*

We will make multi-band polarization IDV observations with the Arecibo Telescope, which will give high sensitivity in order to detect weak variability. We will observe two targets: J010+1800 and PKS 0528+134. The observation will cover the LST range of 4:00 to 7:00 for four days. In order to test for variations on a longer timescale, we also request one night of observations a week before or after the initial set. Hence the total time we request is 15 hours.

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### Remote Observing Request

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

### Instrument Setup

S-low C

### Atmospheric Observation Instruments:

**Special Equipment or setup:** none

### RFI Considerations

### Frequency Ranges Planned