

## Technical Page

This proposal has not been submitted before.

Proposal Type: Regular  
 General Category: VLBI  
 Sub-Category: Continuum  
 Observation Category: Extragalactic  
 Total Time Requested: 50 Hours  
 Minimum Useful Time: 1 hour

**Proposal Title:** Completion of the Space VLBI Survey of AGN at the Highest Angular Resolutions  
**ABSTRACT:**

We request 100 hours of Arecibo time for July 2015 - June 2016 inclusive to complete a non-imaging Space VLBI survey of the bright AGN jet cores with RadioAstron at L and C bands. Current outcome of the survey demonstrates promising results and a high detection rate at long Space VLBI baselines. The main goal of this project is to study physics of AGN cores and properties of ISM by observing AGNs up to the longest RadioAstron baseline projections and measuring the core's geometry and brightness temperature while taking the influence of the inter-stellar medium into full consideration. These observations will enable the highest resolution ever achieved in direct astronomical observations at the proposed bands.

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### Remote Observing Request

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

### Instrument Setup

L-wide                      C

### Atmospheric Observation Instruments:

**Special Equipment or setup:** none

## RFI Considerations

### Frequency Ranges Planned