

## Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Galactic  
 Sub-Category: Galactic  
 Observation Category:  
 Total Time Requested: 12 Hours

**Proposal Title:** Continuum Mapping of an Interaction Region within Loop I (The North Polar Spur)

*ABSTRACT:*

We propose 430-MHz continuum mapping of a region within Loop I (The North Polar Spur) where a semi-circular emission arc is superposed upon the larger feature, showing apparent interaction. This arc is likely to represent the remnant of a second-generation supernova resulting from star formation within the compressed cool shell of the Loop I supernova remnant. As such, the object is a promising candidate for the “reheating event” which has often been invoked to explain the X-ray emission of Loop I. The proposed observations have a ten-fold smaller beam area than any previous survey of the interaction region, and will aid understanding of the nature of the arc, and its relation to Loop I.

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I NA want to do remote observing.

**Instrument Setup**

430 G

**Atmospheric Optical Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**

**Frequency Ranges Planned**

not given