

## Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Extragalactic  
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 Observation Category:  
 Total Time Requested: 15 Hours

**Proposal Title:** High Velocity Gas in M61: A Tidal Tail?

*ABSTRACT:*

Recent HST observations detected a MgII doublet in absorption along a sightline through the outskirts of M61 towards a radio quiet QSO. The MgII lines show surprising blueshifted wings which cannot be explained as part of M61's rotation. Follow-up VLA observations suggest this feature arises in a tidal tail. We propose sensitive HI emission measurements to detect the HI associated with the MgII absorption directly and to map the tidal feature.

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I NA want to do remote observing.

### Instrument Setup

L-narrow

**Atmospheric Optical Instruments:**

**Special Equipment or setup:** none

### RFI Considerations

### Frequency Ranges Planned

not given