

Technical Page

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

Proposal Title: Rapid Radio Flares and the Jet Engine in the Microquasar GRS 1915+105

ABSTRACT:

We will use Arecibo and the Rossi X-ray Timing Explorer (RXTE) to make simultaneous radio/X-ray observations of the superluminal jet source GRS 1915+105. As a microquasar, GRS 1915+105 is very important to the study of jets from black hole systems ranging from stellar mass to quasars. Our August 1997 and July 1998 coordinated X-ray/infrared campaigns have already yielded important results, including the first observational evidence linking particle ejection to activity in the inner accretion disk. The proposed observations will allow us to better characterize this link and study its properties under a broad range of physical conditions. RXTE time has already been awarded to S. Eikenberry for these observations.

Name	Institution	E-mail	Phone	Student
Stephen S Eikenberry	Cornell University	eiken@astrosun.tn.cornell.edu	607-255-4083	no

I NA want to do remote observing.

Instrument Setup

L-narrow S-band receiver C

Atmospheric Optical Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

not given