Proposal Identification No.: P1599 Date Received: 2001-Oct-01_14:04:13

Technical Page

Proposal Type:	Regular
General Category:	Pulsars
Observation Category:	Galactic
Total Time Requested:	3.0 Hours

Proposal Title: Searching for the Radio Counterpart to the Neutron Star in SNR G54.1+0.3

ABSTRACT:

We request 3 hours of telescope time to search for the radio counterpart to the X-ray-bright neutron star recently discovered with the Chandra observatory in the supernova remnant (SNR) G54.1+0.3. This neutron star has all the hallmarks of being a pulsar, but no pulsations have yet been detected from it. Our proposed search will improve upon past blind searches of this SNR by a factor of roughly 6, and reach a constraining luminosity limit of roughly 1 mJy kpc^2.

Name	Institution	E-mail	Phone	Student
Fernando Camilo	Columbia University	fernando@astro.columbia.edu	212 854-2540	no

I might want to do remote observing.

Instrument Setup

L-wide

Atmospheric Optical Instruments:

Special Equipment or setup: Will use WAPP, recording to disk, backing data to Exabyte tape.

RFI Considerations

Frequency Ranges Planned

1125-1225