

Technical Page

Proposal Type: Short
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 9.5 Hours

Proposal Title: A Search for Gamma-ray Pulsars

ABSTRACT:

We request 9.5 hours of Arecibo radio telescope time to carry out a search for young radio pulsars at the positions of nine X-ray sources within the positional errorbars of three unidentified EGRET sources, for which the emission is likely to originate in a neutron star. These were selected for their spatial coincidence with OB associations and/or very young supernova remnants. We propose to use the 430-MHz line feed to make a total of six deep pointings of 48 minutes each, which should provide stringent limits for the pulsed radio emission from these objects. We also intend to make three 48-minute, 1200-MHz pointings at sources that lie deeper in the Galactic disk

Name	Institution	E-mail	Phone	Student
Paulo C Freire	Arecibo Observatory	pfreire@naic.edu	Ext. 358	

I do NOT want to do remote observing.

Instrument Setup

L-wide 430 CH receiver

Atmospheric Optical Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned