

Technical Page

Proposal Type: Short
 General Category: Pulsars
 Observation Category:
 Total Time Requested: 3 Hours

Proposal Title: Pulsar Hands-on Observing for Undergraduate Studies

ABSTRACT:

We request 3 hours of observing time in the LST range between 3-7 hours, to conduct single pulse as well as demonstrate timing observations of a selected group of pulsars. The observations will be used for educational purposes as part of an undergraduate course targeting third and fourth year physics and engineering students at the University of Virginia. ASTR 314, an Introduction to Radioastronomy, will be taught by Bastian and Xilouris, during the spring semester of 2004, at the Astronomy Department of the University of Virginia. We will be primarily concerned with the techniques involved in recording single pulses of known slow pulsars, aiming at studying the stabilization processes involved in pulsar radiation. However, for demonstration purposes, we will be timing the same group of slow pulsars. It is expected that the students will not only be exposed to single-dish observations, but also get involved with data reduction and data interpretation as part of their tutorial projects. It is anticipated that this experience will prove inspiring for some of our students leading them to pursue radioastronomy in their further studies.

Name	Institution	E-mail	Phone	Student
Kiriaki Xiluri	University of Virginia	kx8u@virginia.edu	434-924-7470	no

Service Observing Request

Remote Observing Request

- | | |
|---|--|
| <input checked="" type="checkbox"/> None
<input type="checkbox"/> All of the observing run.
<input type="checkbox"/> Part of the observing run.
<input type="checkbox"/> Queue Observing | <input type="checkbox"/> No
<input type="checkbox"/> Maybe
<input checked="" type="checkbox"/> Yes |
|---|--|

Instrument Setup

430 G

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

This proposal requires coordination with AFTWF within the band 425-435 MHz.