

**Technical Page**

Proposal Type: Regular  
 General Category: Pulsars  
 Observation Category: Galactic  
 Total Time Requested: 47 Hours

**Proposal Title:** A 20cm Search for Pulsars in Globular Clusters using WAPP

**ABSTRACT:**

We request 47 hr of Arecibo time in order to observe 8 globular clusters using the newly commissioned facility Wideband Arecibo Pulsar Processor at L-band. With its superb wide-bandwidth capability, coupled with excellent frequency and time resolution, WAPP makes Arecibo the world's premiere instrument for pulsar searches of globular clusters. Our proposed search will make use of these strengths to look for cluster slow and millisecond pulsars, both isolated and in long- and short-orbital-period binaries, with significant sensitivity to sub-millisecond pulsations.

| Name             | Institution           | E-mail              | Phone        | Student |
|------------------|-----------------------|---------------------|--------------|---------|
| Victoria M Kaspi | MIT/McGill University | vicky@space.mit.edu | 617-253-5169 | no      |

I NA want to do remote observing.

**Instrument Setup**

L-wide

**Atmospheric Optical Instruments:**

**Description of Observer Equipment:** We intend to supply a DLT 7000 drive and DLT tapes in order

to record data from the WAPP disk farm.

**Special Equipment or setup:** none

**RFI Considerations****Frequency Ranges Planned**