**Technical Page**

**Proposal Type:** Regular  
**General Category:** Astronomy  
**Sub-Category:** Pulsars  
**Sub-Category:** Pulsars  
**Observation Category:**  
**Total Time Requested:** 28 Hours  

**Proposal Title:** A search for pulsations from the neutron star companions of PSRs B1534+12 and B1913+16

**ABSTRACT:**

We propose to search for radio pulsations from the neutron star companions of the relativistic binary pulsars B1534+12 and B1913+16—a search is warranted as the companions’ emission beams may have precessed into view since these pulsars were discovered, and the system ages imply that the companions are middle-aged. We will also simultaneously make polarization measurements of the known pulsars to extend our pre-upgrade baselines for new sensitivity to long-term changes.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zaven Arzoumanian</td>
<td>Cornell University</td>
<td><a href="mailto:arzouman@spacenet.tn.cornell.edu">arzouman@spacenet.tn.cornell.edu</a></td>
<td>607-255-0612</td>
<td>no</td>
</tr>
</tbody>
</table>

I do not want to do remote observing.

**Instrument Setup**

430 G 430 CH receiver

**Atmospheric Optical Instruments:**

**Special Equipment or setup:** AOFTM, Caltech Baseband Recording system

**RFI Considerations**

**Frequency Ranges Planned**

not given