**Technical Page**

This proposal has not been submitted before.

**Proposal Type:** Regular  
**General Category:** Pulsars  
**Observation Category:** Galactic  
**Total Time Requested:** 40 Hours  
**Minimum Useful Time:** 1 hour

**Proposal Title:** Timing Studies of Pulsars Discovered by Five-hundred-meter Aperture Spherical Radio Telescope (FAST) Single Pulse Searches

**ABSTRACT:**

We propose to study 10 new pulsar candidates discovered by the Five-hundred-meter Aperture Spherical radio Telescope (FAST) through single-pulse detection algorithm in the Commensal Radio Astronomy FAST Survey (CRAFTS). Despite the short integrations of the drift-scan mode utilized by CRAFTS, these candidates are mostly slow pulsars (P > 1.5 s) with steeper than usual spectral indices. To confirm possible rotating radio transients (RRATs) in this sample and to obtain their fundamental parameters, we request 20 minutes of confirmation time at both 327 MHz and L-band and 5 hours for timing, for each candidate. Along with recent low-frequency discoveries from LOFAR, the proposed study will help probe a previously less explored neutron star population on the bright rotationally-powered, yet slow pulsars.

<table>
<thead>
<tr>
<th>Name</th>
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<th>Student</th>
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<tbody>
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**Remote Observing Request**

- [ ] Observer will travel to AO
- [x] Remote Observing
- [ ] In Absentia (instructions to operator)

**Instrument Setup**

L-wide 327

**Atmospheric Observation Instruments:**
Special Equipment or setup:  None

RFI Considerations

Frequency Ranges Planned

310 - 340
1150 - 1730