

Proposal Abstract:

Pulsar timing observations are crucial for determining the basic parameters of pulsars. Timing of young pulsars offers unique insights into study of neutron stars. However, young pulsars are prone to exhibiting timing irregularities, which pose challenges in obtaining phase-coherent timing solutions for newly discovered young pulsars. The Galactic Plane Pulsar Snapshot (GPPS) survey has discovered 658 new pulsars using FAST. In this proposal, we aim to conduct timing observations for 4 young GPPS pulsars and 16 young pulsar candidates. Our objectives are to accurately measure their period, period derivative, and position, and to identify possible glitches.