

Proposal Abstract:

Pulsar timing observations are crucial for determining the basic parameters of pulsars. The Galactic Plane Pulsar Snapshot (GPPS) survey has discovered 658 new pulsars using FAST. We propose timing observations for 35 of these pulsars with periods between 30 and 100 milliseconds to obtain their accurate period, period derivative and position. The period derivative enables us to distinguish young and old pulsars. Based on the characteristic age and periodic Doppler shift of the spin period, we will identify and study young pulsars, binary pulsars, and disrupted recycled pulsars.