

Proposal Abstract:

Nulling, mode-changing and drifting are three main phenomena of pulsars from single pulse sequences, that reflect the diversity of physical radiation processes. We have found some bright pulsars showing these phenomena discovered by the FAST Galactic Plane Pulsar Snapshot (GPPS) survey. Building upon the previous A+B ranked proposal PT2022_0029, we propose to observe the other 41 sources using highly sensitive FAST for longer observations. With these high-quality data, we will get accurate phenomena parameters and do the detailed analysis of these phenomena. We plan to observe each pulsar for 1 hour.