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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 48 pulsars with these phenomena discovered by the FAST Galactic Plane Pulsar Snapshot (GPPS) survey. We propose to observe these 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, in order to deeply understand the physical processes of pulsars. We plan to observe each of them for one hour, and totally apply for 57.6 hours.