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Abstract:

Reversal of subpulse drifting directions is one of uncommon subpulse drifting behaviors of pulsars, that the observed drift directions of subpulses change. This behavior is not well explained yet. From the FAST Galactic Plane Pulsar Snapshot (GPPS) survey, we find 9 pulsars perhaps having the unusual subpulse drift behavior. For a further study of those pulsars, we propose to observe these pulsars for longer time by FAST. With the long tracking and high-quality data, we will do detailed analysis and expect to understand the physical mechanism of pulsar emission and modulation of emission processes.