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Abstract:

The study of nulling, mode changing and subpulse drifting has great significance to understanding the physical mechanism of pulsar emission. Eight new pulsars discovered by GPPS (Han et al. 2021) display the mode changing, nulling and subpulse drifting phenomenon. Because the duration of the GPPS survey is only 300 s and that for follow-up verification observations is only 15 minutes, it is hard to get the nulling fraction or study the details of mode-changes and subpulse drifting or get statistical properties of these pulsars from available observation sessions. In addition, Han et al. (2021) does not give the polarization characteristics of these pulsars. We propose using FAST to observe these pulsars for a long time, so that to give a detailed analysis of these pulsars.