

Proposal Abstract:

The phenomenon of drifting subpulse is the regular phase drifting of individual subpulse within the on-pulse window. The drifting subpulse phenomenon has been widely regarded as a powerful tool to probe the inner magnetospheric structure and radiation mechanism of the pulsar. FAST is an ideal tool for drifting subpulse research of pulsars, especially for weak pulsars. In this proposal, we aim to study the drifting subpulse of PSR J1824-0132 using FAST. This will enable us to measurements the switch of drift-mode and polarization of this pulsar, provide opportunities to investigate the physical emission mechanisms of pulsars.