

Proposal Abstract:

Scientific research in recent ten years shows that more and more emission variations of pulsars are related to their rotation. We propose to observe 13 pulsars using the FAST to conduct detailed investigations on the emission variations such as giant pulse, mode change, subpulse drifting, pulse nulling, etc. Combined with the pulsar timing data of the Haoping 40-meter radio telescope (HRT) in the National Time Service Center of the Chinese Academy of Sciences, explore the correlation between the pulsar glitches and emission change, and clarify the laws of glitches and emission change. It is of great scientific significance to study the emission mechanism of pulsars.