

Proposal Abstract:

Fast Radio Burst (FRB) is one of most fascinating astronomical discoveries during the recent decade. Based on our previous researches, the detection of the sub-pulse drift pattern provide a very prospective way to reveal the origin of FRB, which is the most key and fundamental question in the field. We propose to monitor two pulsars and four repeaters, which have showed FRB-like drifting structures. Alliteratively, we also propose to observe a FRB source which shares similar properties with a known active repeater (FRB 121102). The source is a potential repeater with sub-pulse drift patterns. This project intends to explore the unknown space in $\dot{\nu}$ - ν diagram so that we can study the geometry and dynamic of charges in the magnetosphere of FRB source and compare them with those of pulsar.