

Proposal Abstract:

A key step in the pulsar search process is to distinguish between RFI and pulsar signals, and the difference between RFI and pulsar signals is that pulsar signals are a sustained periodic signal, while RFI usually only appears in a specific observation. We propose to use FAST to perform 50-minute isochronic observation between J0835-3707, J0803-0942, J1705-4331, J1823-0154, J1908+0457, J2208+4610 , and improve the signal intensity of the frequency-domain search method by using multiple interval observations. The interference signal in the frequency-domain search method is eliminated, and the calculation amount is reduced, so as to improve the search ability of pulsars.