

Proposal Abstract:

By processing the 20 archive data published by FAST, we found four new pulsar binaries M2G to J (the detection rate of M2I and J is only 10%), and two pulsar candidates. M2H is a binary with an orbital period of about one day, which may be with .a planet companion. For M2I and M2J, their detection rates are very low, which may be attributed to either scintillation or the orbital phase. In order to obtain the phase connected timing solutions of these faint binary pulsars, and to confirm the faint pulsar candidates, and make full use of the extreme sensitivity of FAST to search for more pulsars, we suggest multiple long-term continuous observations.