

FAST Proposal Coverpage

Last updated: 01/10/2019

Project Name:

M13 new discovery follow-up observations

Project Summary:

We have discovered a new pulsar in the globular cluster (GC) M13 as part of our survey of globular cluster using FAST. So far we haven't been able to obtain a coherent timing solution, but have determined that the new pulsar is in a binary system with an orbital period longer than one day. This is only the 6th pulsar found in M13 and we request 8 hours to obtain a coherent timing solution to obtain improved astrometric, spin and binary parameters to understand the nature of the pulsar, its location in M13 and how it relates to the rest of the pulsar population in this, and other clusters.