

Proposal Abstract:

283 pulsars were discovered in the 38 globular clusters before May 15, 2023. 41 pulsars were detected by the Five-hundred-meter Aperture Spherical radio Telescope. The advantage of higher sensitivity of FAST telescope would increase the number of GC pulsars. GLIMPSE-C01 is an interesting globular cluster with a distance 4.2 Kpc and a core radius of about 0.59 arcmin. The transient X-ray binary MAXI J1848-015 and new binary pulsar J1848-0129A was recently discovered. We apply the FAST observational time to observe the Globular Cluster GLIMPSE-C01 (including the Faint X-Ray source MAXI J1848-015 and interesting bid DM pulsars J1848-0129A). We will determine the timing parameters of J1848-0129A. Using the highest sensitivity of FAST, we will increase the observational exposure times and frequencies to observe it. We will not only reveal the properties of the X-Ray source of MAXI J1848-015, but also detect more new pulsars.