

FAST Proposal Coverpage

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Project Name:

Timing Two New Millisecond Pulsars Discovered by FAST in Globular Clusters

Project Summary:

We propose to time two new Globular Cluster eclipsing binary Millisecond Pulsars, which were discovered by FAST. With the timing solution, we can potentially confirm their eclipsing phenomena that will be then used for obtaining the gravitational quadruple moment variations caused by tidal dissipation. Binary systems in globular clusters are of high scientific value, providing unique probe of the gravity field in these clusters, or even constraint gravity theory, such as the general relativity.