

FAST Proposal Coverpage

Last updated: 01/10/2019

Project Name:

Initializing the Chinese Pulsar timing array

Project Summary:

(A 1 paragraph summary of your project, including its scientific goals and how you will address them. This information will be potentially public.)

We propose to perform the trial pulsar timing observations for a selected group of the international pulsar timing array (IPTA) pulsars in order to initialize the Chinese pulsar timing array (CPTA) project. The CPTA pursues the goal of directly detecting gravitational waves at the nano-Hertz band, in collaboration with the IPTA. The major scientific drive of the current proposal is to establish the CPTA project, acquire the first data set, and to investigate the millisecond pulsar noise parameters such that we can optimize the future timing program at FAST.