

FAST Proposal Coverpage

Last updated: 01/10/2019

Project Name:

(A 1-line title for your project)

Analysis of intermittent and nulling pulsars

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.)

Nulling and intermittent pulsars are a major topic of current pulsar research as they provide a direct link between studies of pulsar emission and irregularities in the rotation of the pulsars. We request observations with the FAST radio telescope to nulling and intermittent pulsars. These are pulsars whose emission switches on and off at seemingly random intervals. We will determine the distribution of the time scales, look for weak or bursty emission in the "off" states and determine the bandwidth of the on/off emission process and relate these results to predictions from recent theoretical models.