

Proposal Abstract:

Radio pulsars typically exhibit exceptionally stable pulse profiles across different observing frequencies, allowing for the precise determination of pulse arrival times through correlation with a low-noise 'standard profile.' The observed mode switching and oscillation in the pulse period derivative of PSR BB1828-11 have led to much debate. We propose to make high-cadence observations of this pulsar with FAST to better sample the variation in the period derivative. Understanding this controversial pulsar will increase our knowledge of our pulsar emission significantly.