

Proposal Abstract:

PSR B2016+28 displays almost all of radiation behaviours of radio pulsars such as microstructure, giant pulse, and drifting sub-pulse. These radiation behaviours provide an opportunity to further understand this pulsar's radiation mechanism. Studying these various radiation phenomena and their polarization emission characteristics in detailed helps us to understand the relationship between emission intensities and magnetospheric emission behaviours. Furthermore, the emission properties of single pulse of radio pulsars is usually used to understand the physics of sparking, and their complex polarization emission behaviours provides further insight into radio pulsar's magnetosphere.