

Proposal Abstract:

The neutron star mass of the spider system is higher than average, especially the PSRs J2215+5135 and J1048+2339 ($>2M_{\text{sun}}$) in our observed sample can constrain the equation of state. Four spider pulsars have been observed at optical and high energies. Four Fermi spider pulsars have radio emission, lack complete orbital parameter measurements, and have an unusual mass of neutron stars. The radio timing will give us precise orbital parameters and study massive pulsars.