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Abstract:

Multi-wavelength observations play an important role in studying pulsars in binary systems. Millisecond pulsars and pulsars in gamma-ray binaries with X-ray and gamma-ray emissions are important sources to study accretion and wind processes. Two kinds of sources are proposed in this work: a) by searching radio pulses from Fermi-LAT unidentified sources with X-ray counterpart we could find more MSPs; b) by searching radio pulses from high mass X-ray binaries we can confirm the gamma-ray binary nature and obtain the orbital parameters. A total of 4.5 hours are requested to search pulsars in binary systems.