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Abstract:

In this proposal, we propose the FAST observations to the 7 Globular Cluster (GC) spider pulsars in 5 GCs: M5C (black widow), M92A (FAST discovery, eclipsing redback), M14A, D, and E (FAST discoveries, A: black widow, D and E: redbacks), NGC6712A (FAST discovery, nearly eclipsing black widow), and NGC6760A (black widow). The science goals including studying their eclipsing phenomena, companions, formation and evolution routines; searching for new pulsars and possible single pulses which are magnified by plasma lensing.