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Abstract:

We propose using FAST for searching and timing pulsars in Globular Cluster (GC) NCG6517. Lynch et al. (2011) found 4 pulsars (NGC6517A to D) in this GC. Ten years later, thanks to the ultra-high sensitivity of the FAST, 8 more pulsars (NGC6517E to L) have been found in this GC, for a total of 12 (Pan et al. 2021). We hope to use FAST to continue observing it to obtain the timing solutions for NGC6517I to L and find new pulsars as much as possible. These pulsars are an excellent medium for studying the evolutionary mechanism of this GC. And newly discovered pulsars in NGC6517 are also important to support or judge the GC pulsar population models.