

Proposal Abstract:

Globular clusters have been identified as potential sites for pulsars, with 283 pulsars discovered in 38 such clusters as of May 2023. One such cluster, M15, contains nine known pulsars. Research on pulsars in M15 has been primarily conducted by Arecibo in the 1990s. However, the timing solutions for these pulsars have not been updated in several years, with the exception of M15A, B, and C. Recent observations of M15C have revealed a steady decrease in brightness and significant changes in its pulse profile shape, it might become undetectable in following years. We have three detections for M15C from 2018 to 2020, but M15C was not detected in the most recent data. To determine whether M15C is undetectable, study about its current status, and to obtain additional data for accurate timing solutions, we propose further observations of Globular Cluster M15.