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Abstract:

The Fermi Large Area Telescope (LAT), launched in 2008, has detected almost 300 gamma-ray pulsars. The Fermi LAT Collaboration, in collaboration with major radio telescopes around the world, formed the Pulsar Search Consortium, which together have discovered over 100 millisecond pulsars (MSPs), a significant fraction of the known population of MSPs. Most of these have subsequently showing gamma-ray pulses. We propose to use FAST to search for MSPs in the most promising pulsar-like gamma-ray sources in the recently-released 4FGL-DR3 Catalog, the 3rd Release of the 4FGL Catalog, based on 12 years of Fermi LAT data.