## **FAST Proposal Coverpage**

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Project Name: Searching for Pulsars in 14 Globular Clusters outside the coverage range of the Arecibo

## **Project Summary:**

The stellar densities of Globular Clusters (GCs) are extremely higher than normal areas. It has been proved that pulsar searching in the GCs is an efficient way to discover new pulsars, especially the millisecond pulsars. In this proposal, we apply to search for new pulsars (including rotating radio transient) in the 14 GCs that locate outside of the sky coverage range of the Arecibo with the FAST (-14.6 deg < DecJ < 65.6 deg). To cover as large area as possible and take full use of antenna time, we apply to use the all beams of the 19-beam L-band receiver. We want to ask for 21 hours in total including the telescope slewing time. Our observation will highly improve the detecting limit of these GCs in pulsar search and is possible to find new pulsars.