

Proposal Abstract:

The Pulsar Arecibo L-band Feed Array (PALFA) survey conducted with the Arecibo William E. Gordon 305-m telescope discovered a total of 208 pulsars during its period of study. However, due to the collapse of the Arecibo observatory in December 2020, follow-up observations of several new milli-second pulsars (MSPs) discovered could not be carried out. We are proposing to make use of the FAST telescope to take up the task of observing some of these MSPs in an effort to better understand their properties and determine whether they may have unique physics applications. We are requesting 20 hours of time in order to perform this study.