

Proposal Abstract:

We propose to use the Five-hundred-meter Aperture Spherical radio Telescope (FAST) to study the emission properties of Rotating Radio Transients (RRATs). RRATs are a rare and enigmatic class of pulsars that emit sporadic radio pulses with no regular periodicity, making them difficult to detect and study. However, the large size and high sensitivity of the FAST make it an ideal instrument for studying these enigmatic objects. Our scientific goals are to study the properties and behavior of RRATs, including their pulse characteristics, emission spectra, and variability over time.