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## Abstract:

It is widely accepted that a majority of pulsars could escape the Galactic gravitational field and thus populate the halo. Many of these will cease to emit detectable radio pulses, but some will continue to do so. To this day, there is no confirmed halo pulsar. So confirming halo pulsars and studying their properties, including their age, velocity, dispersion measure (DM), polarization, etc., are of great importance to reveal their origin and understand pulsar populations. Halo pulsars could also be used to study the electron density distribution in the halo. But, for decades, halo pulsars have received little attention because of the difficulty of distinguishing them from the Galactic disk pulsars. In this proposal, we request FAST observations to understand two halo pulsar candidates, PSRs C70 and 19C128 that were discovered by FAST. The proposed observations will result in measurements of their spin period derivative, age, proper motion, DM, and polarization. It will enable study of their radiation characteristics, which will help us to understand the evolution of pulsar magnetic fields with age, verify the existence of runaway OB stars in the halo, and also help to reveal the electron density distribution in the halo.