

Pulsar RMs observed by FAST and the Galactic magnetic fields

The Five-hundred-meter Aperture Spherical radio Telescope (FAST) is the most sensitive radio telescope for pulsar observations. We make polarimetric measurements for a large number of faint and distant pulsars in the Galactic halo and determined their rotation measures (RM). We also determined a few hundreds of RMs by processing the polarimetric data for newly-discovered pulsars in the project of the Galactic Plane Pulsar Snapshot (GPPS) survey or previously known pulsars without RMs. Through analysis of all available RMs of pulsars and extragalactic sources, we reveal the magnetic field structure in a much larger region in the Galactic halo and disk.

Affiliation

National Astronomical Observatories, Chinese Academy of Sciences

Auteur principal: XU, Jun (National Astronomical Observatories, Chinese Academy of Sciences)

Co-auteur: HAN, JinLin (National Astronomical Observatories, Chinese Academy of Sciences)

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