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New Technologies and HI Mapping Results from CRAFTS

Tuesday, August 30, 2022 2:00 PM (30 minutes)

The Commensal Radio Astronomy FAST Telescope Survey (CRAFTS) is underway. With over 2,000 hours complete (out of 11,000 planned) we have mapped significant sections of the sky visible from the Five Hundred Meter Spherical Aperture Telescope (FAST) located in Guizhou, China. The Survey itself represents a technological leap forward in radio telescope observation techniques which allows for multiple science objectives to be achieved simultaneously. In the case of CRAFTS this includes simultaneous Galactic HI Mapping, HI Galaxy Search, Continuum Imaging, Pulsar Search, and FRB Search projects. In this talk we will discuss some of the new technologies that have made these commensal observations possible. We will also show the latest HI imaging results from selected regions of interest including the Taurus and Orion Molecular Cloud Complexes and the Lockman Hole.

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