

Cosmic Cartography 2022: Exploring the Cosmic Web and Large-Scale Structure



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Multi-wavelength detection of filaments

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Missing baryon problem is a long standing issue. Hydrodynamical simulations predict that the majority of the missing baryons is contained in the filaments of the cosmic web in the form of a plasma, called the warm-hot intergalactic medium (WHIM). So far, the direct measurement of the WHIM in cosmic filaments has been a challenge due to the weak signal and the entangled shape of cosmic filaments. I will present the multi-wavelength detection of the WHIM in the cosmic filaments using combined optical(galaxy), millimeter(SZ), and X-ray data.

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