

## Cosmic Magnetism in Voids and Filaments



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## Cosmic Filaments as seen by eROSITA and LOFAR

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Cosmological simulations predict the presence of hot gas in filaments that connect clusters of galaxies. This hot gas is thought to be an important contribution to the missing baryons in the Universe. In recent years, searches for this gas have been conducted in the X-ray as well as the radio band. There have been detections in both bands for close cluster pairs. In the radio regime, it is not clear under which conditions synchrotron emission from relativistic electrons can be produced in filaments. In this contribution, we present our search for emission from filaments connecting clusters of galaxies using stacking techniques on eROSITA and LOFAR data. We compare our results to recent advances in theory and simulation.

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