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Status of 21 cm global signal measurements

Wednesday, 29 November 2023 11:55 (35 minutes)

Total-power radiometry with individual meter-wave antennas is a potentially effective way to study the Cosmic Dawn through measurement of the sky brightness arising from the 21cm transition of neutral hydrogen, provided this can be disentangled from much stronger Galactic and extra-galactic foregrounds. In this talk, I will review the current observational status of the global signal, 5 years after the EDGES results. I will also discuss some of the approaches/improvements in the analysis pipelines that have been proposed and some of the future directions that are being explored.

Research area

Epoch of Reionization

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