

Thermal history of the Universe at intermediate redshift: progress with 21cm absorption measurements

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Speculations on the EDGES 21cm anomaly

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Possible attempts to resolve the EDGES anomaly rely on cooling cosmic hydrogen gas via interactions between dark and visible sector or modifying the soft photon background beyond CMB. The first solution is in tension with cosmological dark matter probes once simple dark sector models are considered. The second solution can be realised as soft photon emission from dark sector. However, the proposed mechanisms to produce soft photons need rather complex physics, e.g. axion miniclusters. The talk is based on our recent paper 1803.03245.

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