



Contribution ID: 91

Type: **not specified**

21 cm Cosmology From a micro-SKA

Thursday, 25 March 2010 16:15 (15 minutes)

For the first time, observations targeting the highly redshifted 21 cm line have yielded a meaningful probe of neutral hydrogen in the intergalactic medium during the epoch of reionization. The Experiment to Detect the Global Epoch of Reionization Signature (EDGES) has measured the all-sky radio spectrum between 100 and 200 MHz with 10 mK sensitivity at the Murchison Radio-astronomy Observatory (MRO). Preliminary analysis of these measurements has ruled out very rapid reionization histories between redshifts 6 and 13. I will present the latest results and plans for future studies.

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