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Constraining Single Field Inflation with the SKA

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The SKA allows to map the distribution of neutral hydrogen in the Universe over a vast redshift range. The three-dimensional 21cm power spectrum found through this map can be used to perform precision tests not only for several astrophysical phenomena but also for early Universe cosmology. Even considering only a small redshift range it allows to significantly improve current constraints on the Hubble slow-roll parameters when combined with the CMB anisotropies measurement of Planck.

Summary

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