

Prospects for testing models of coupled dark matter-dark energy via 21 cm Power Spectrum after Reionization

The hydrogen 21 cm line has been used as an interesting tool of cosmology, and among its several applications there is the possibility of testing models of modified gravity via comparing both modified gravity and Λ -CDM 21 cm Power Spectrum. The present work goes in the same direction, aiming to study models of interaction between dark energy and dark matter using this approach. The basic concepts of 21 cm line and its related PS will be presented, with the purpose of comparing the 21 cm PS after reionization from coupled dark matter-dark energy with that one from Λ -CDM.

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