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Studying remapping effects on 21cm mocks

In this work we extend the remapping method proposed by Mead and Peacock (MNRAS 440, 1233–1247 (2014)). This method allow us to remmap N-body simulations catalogues from one cosmology into another different cosmology directly without necessity of running an N-body simulations for each cosmology. On the other hand, it is well known that 21 cm mocks are constructed from, for example, halo or galaxy N-body simulations catallogues. Here we are interested in extending and validating, Mead and Peackok method to the 21 cms mocks conctructions. This will allows to construct 21cm intensity maps in different cosmologies in a more computationally eficient and faster way. The resulting mocks are going to be used in the BINCO telescope analysis.

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