

Graduate school project report

Halo formation in the cosmic web

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Abstract

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1 Introduction

Cosmic Microwave Background (CMB) shows that the Universe was homogenous initially with very small inhomogeneities. On the other hand, the universe we see today not only has galaxies but also a lot of interesting structures well beyond the galactic scale. This foam-like large scale structure of the universe is called the cosmic web.

2 Analytical tools

3 N-body simulations

4 Analysing a snapshot of a GADGET-2 simulation

5 Conclusion and Future plan

References

[GADGET] bibliographic information

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