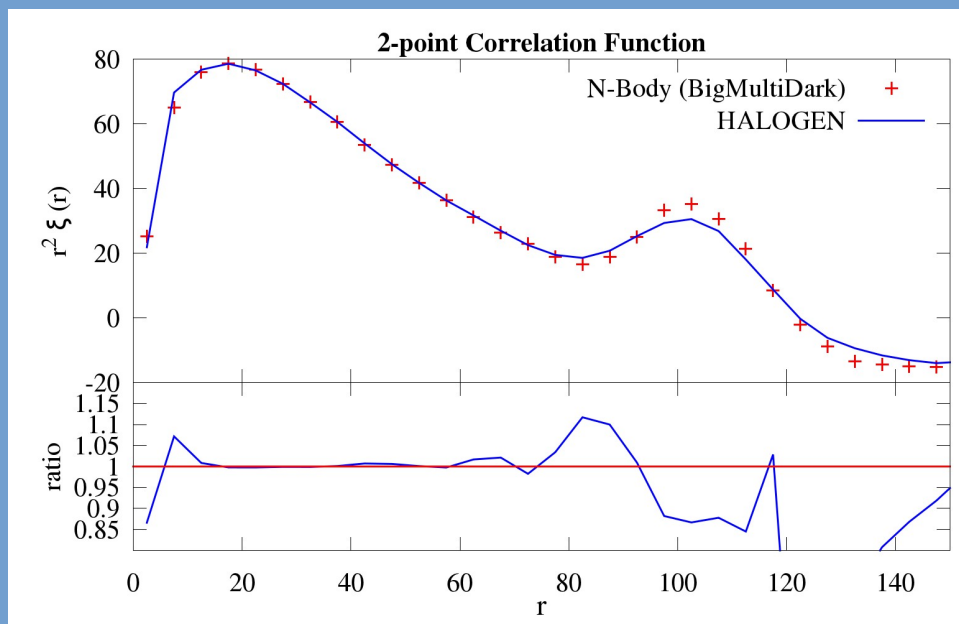
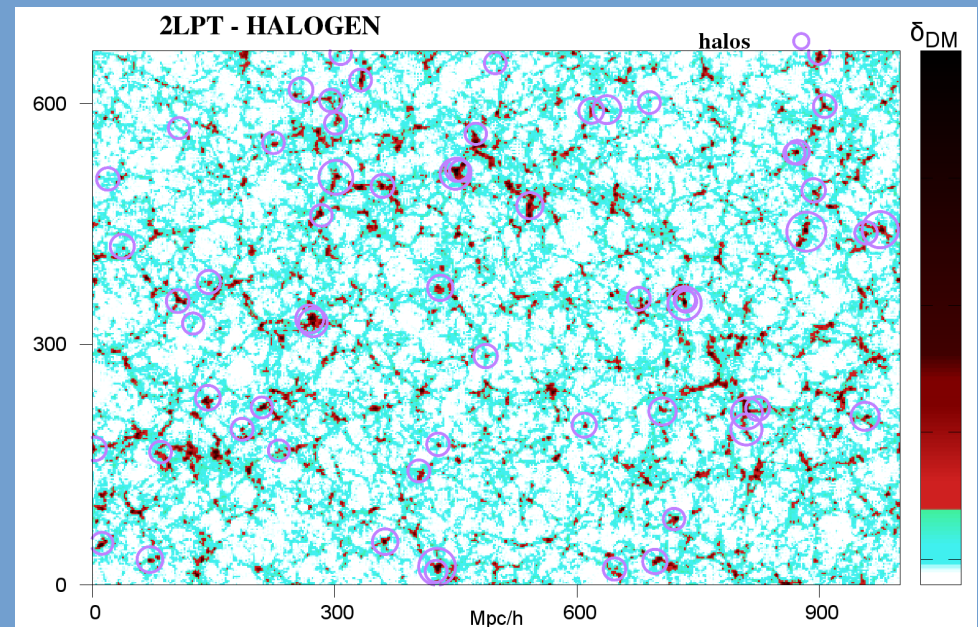
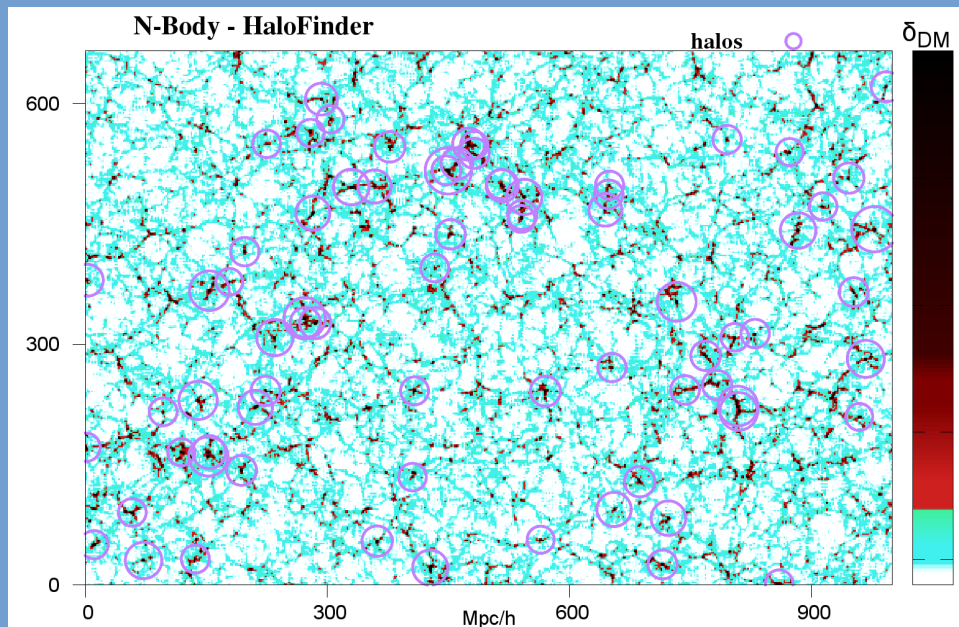


HALOGEN: A fast halo catalogue generator

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HALOGEN

arXiv: 1412.5228

- A publicly available¹ tool to generate halo catalogs.
- $\sim 10^3$ – 10^5 times faster than a N-Body Simulation.
- Designed to:
 - Reproduce the Halo Mass Function
 - Obtain the correct 2-point Statistics
- Involves 4 steps:
 - 2LPT
 - Analytic Halo Mass Function
 - Bias: stochastic with only one free parameter
 - Velocity bias.

¹ <https://github.com/savila/halogen>