

Cosmic Voids in Λ CDM

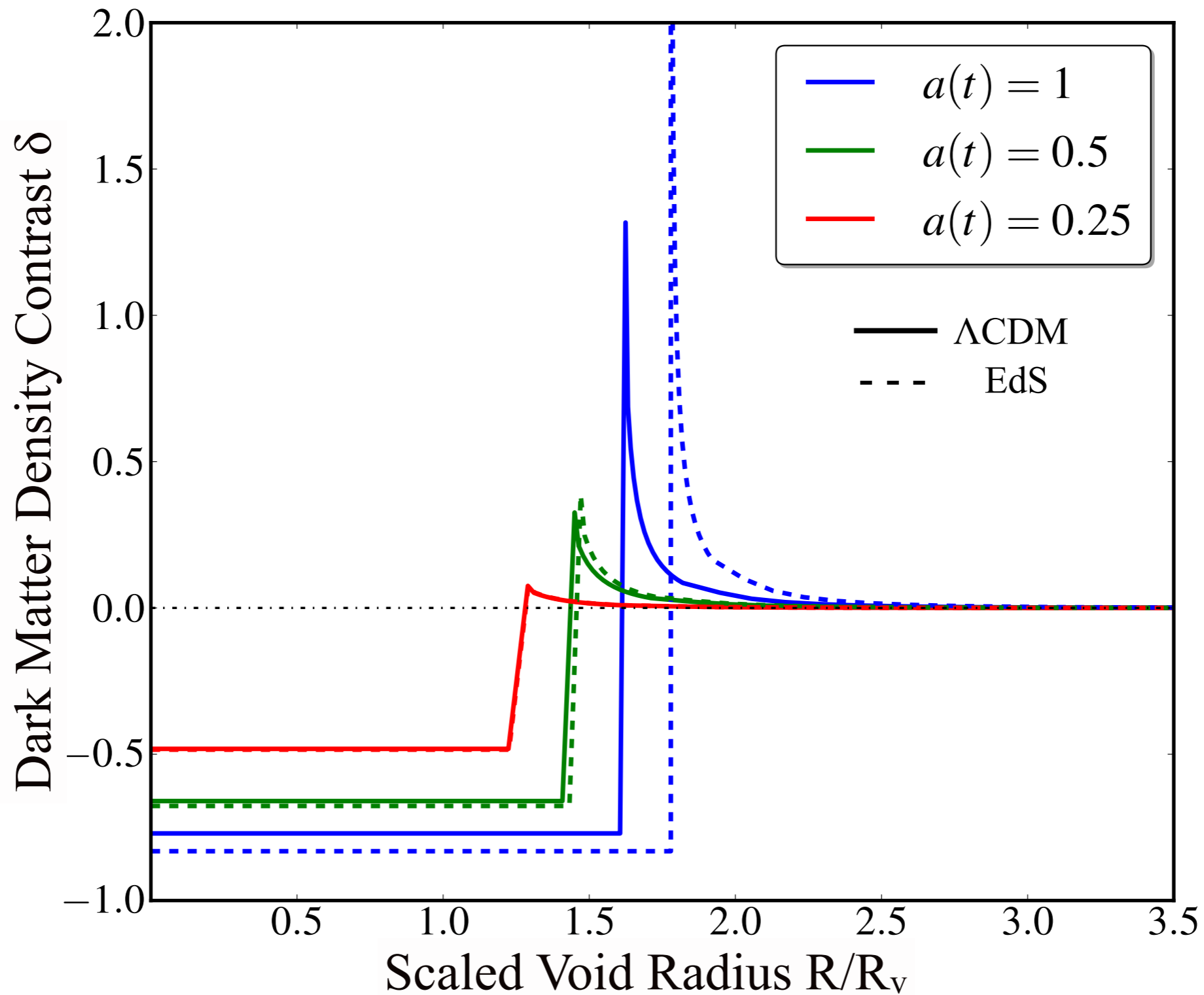
Vasiliy Demchenko, Yan-Chuan Cai,
Catherine Heymans, John Peacock

DEX
University of Edinburgh
10/01/17



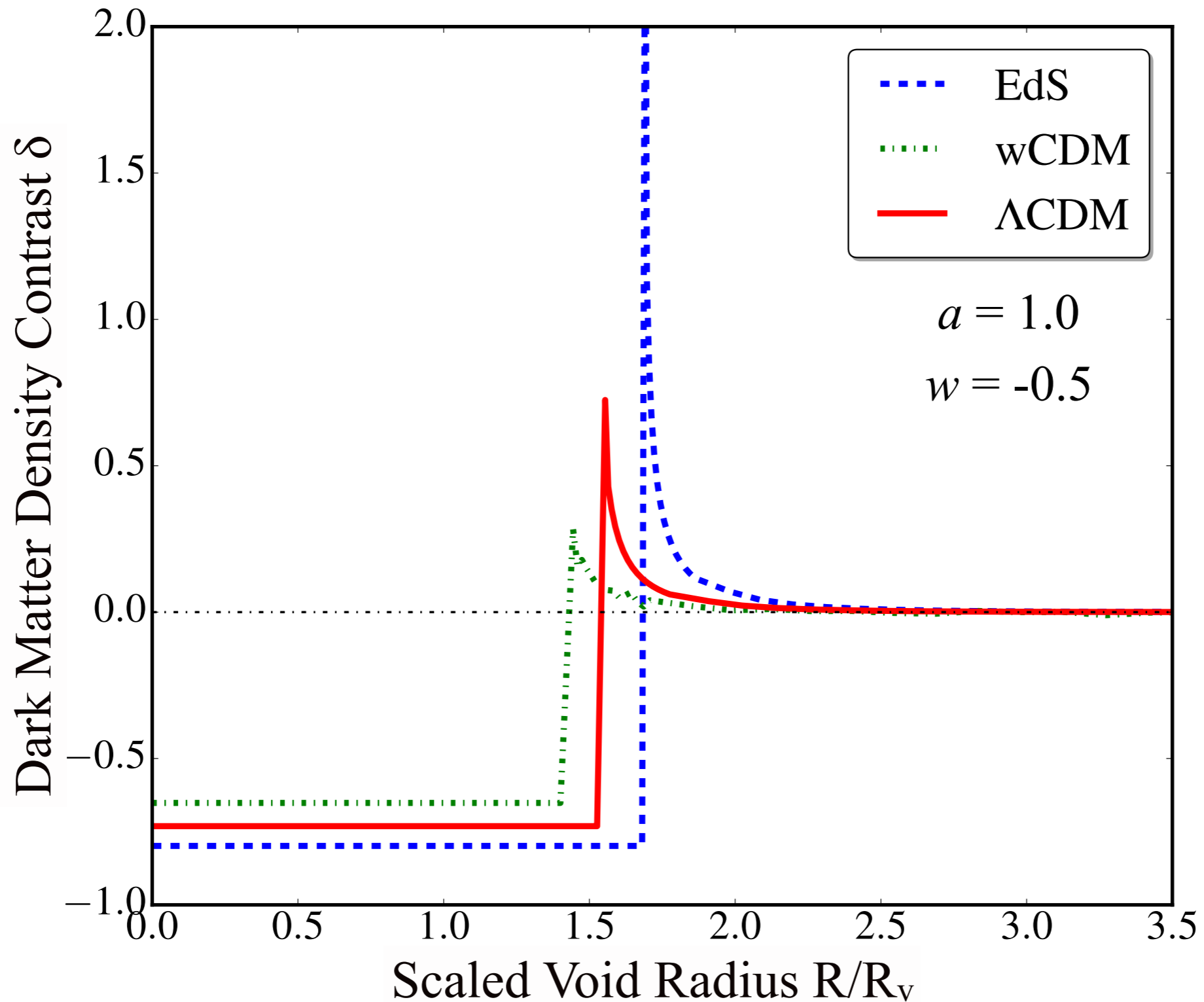
What is a void?

Demchenko et al. 2016 (arXiv:1605.05286)



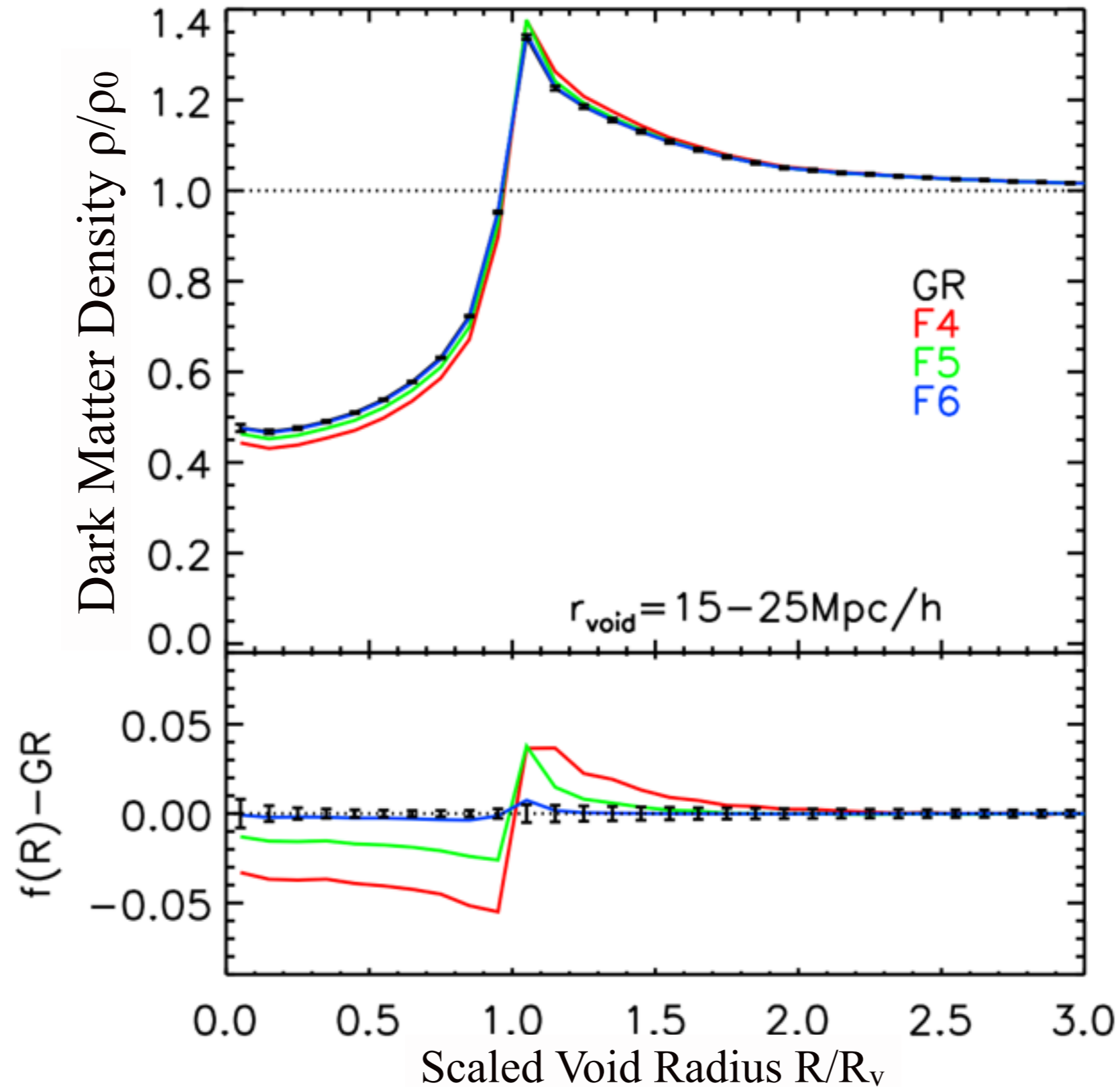
Why we care about voids

Demchenko et al. 2016 (arXiv:1605.05286)



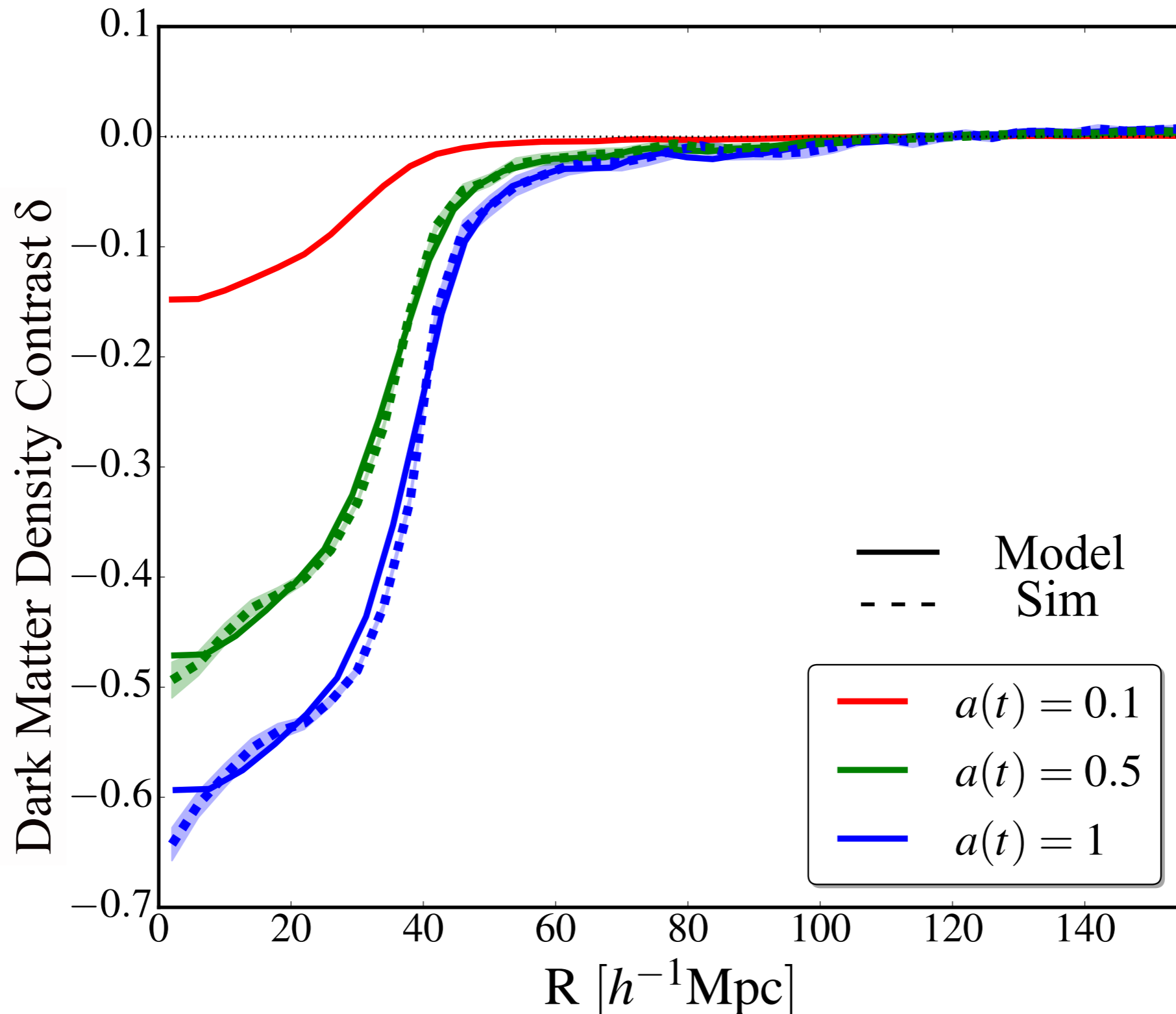
Why we care about voids

Cai, Padilla, & Li 2014 (arXiv:1410.1510)

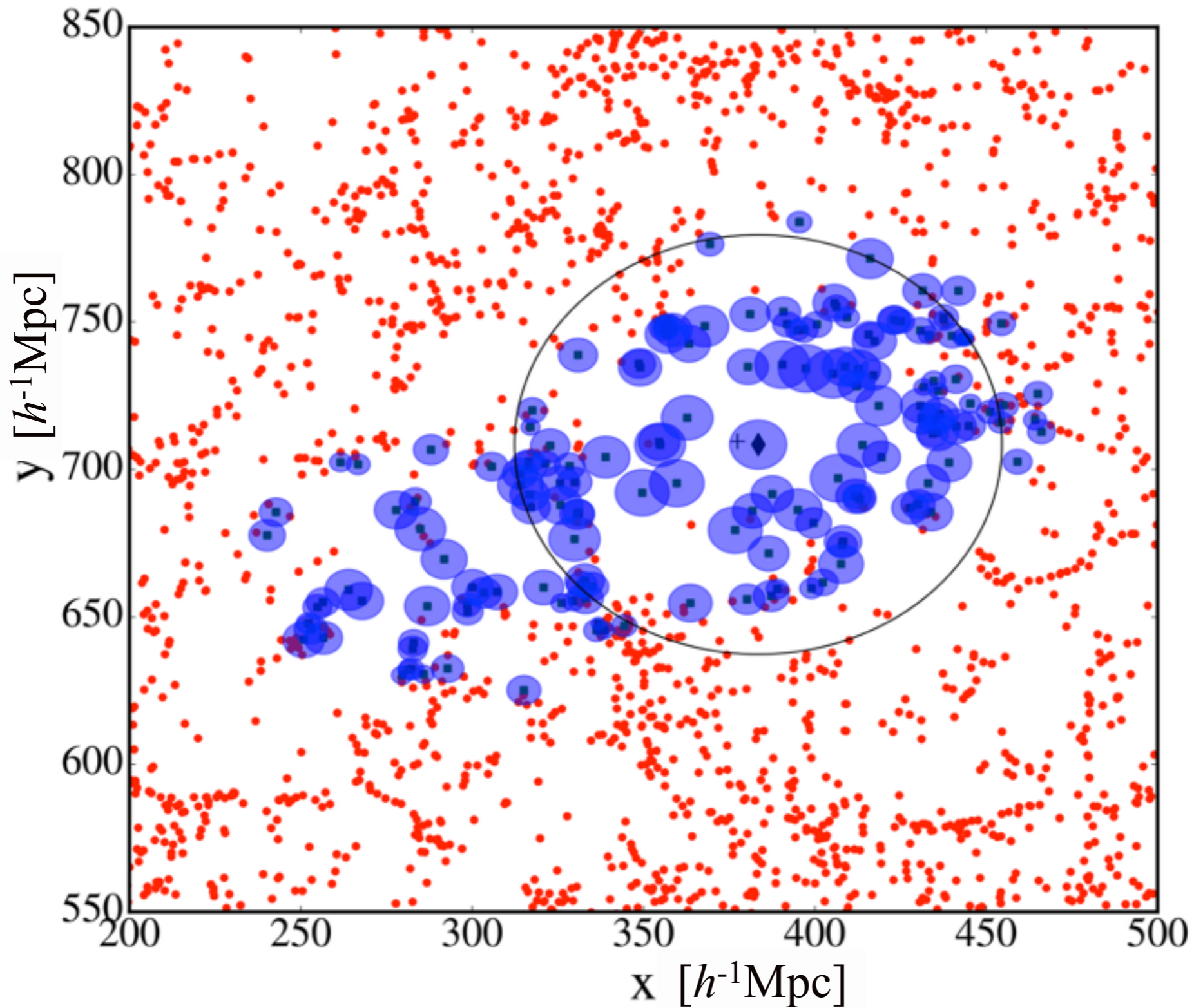


Model vs Simulation

Demchenko et al. 2016 (arXiv:1605.05286)



The Future



A visualization of the cosmic web, showing a complex network of dark matter filaments and galaxy clusters. The filaments are thin, interconnected lines of light, while the clusters are denser, glowing regions. The overall structure is a vast, interconnected web of matter.

Thank You!!