

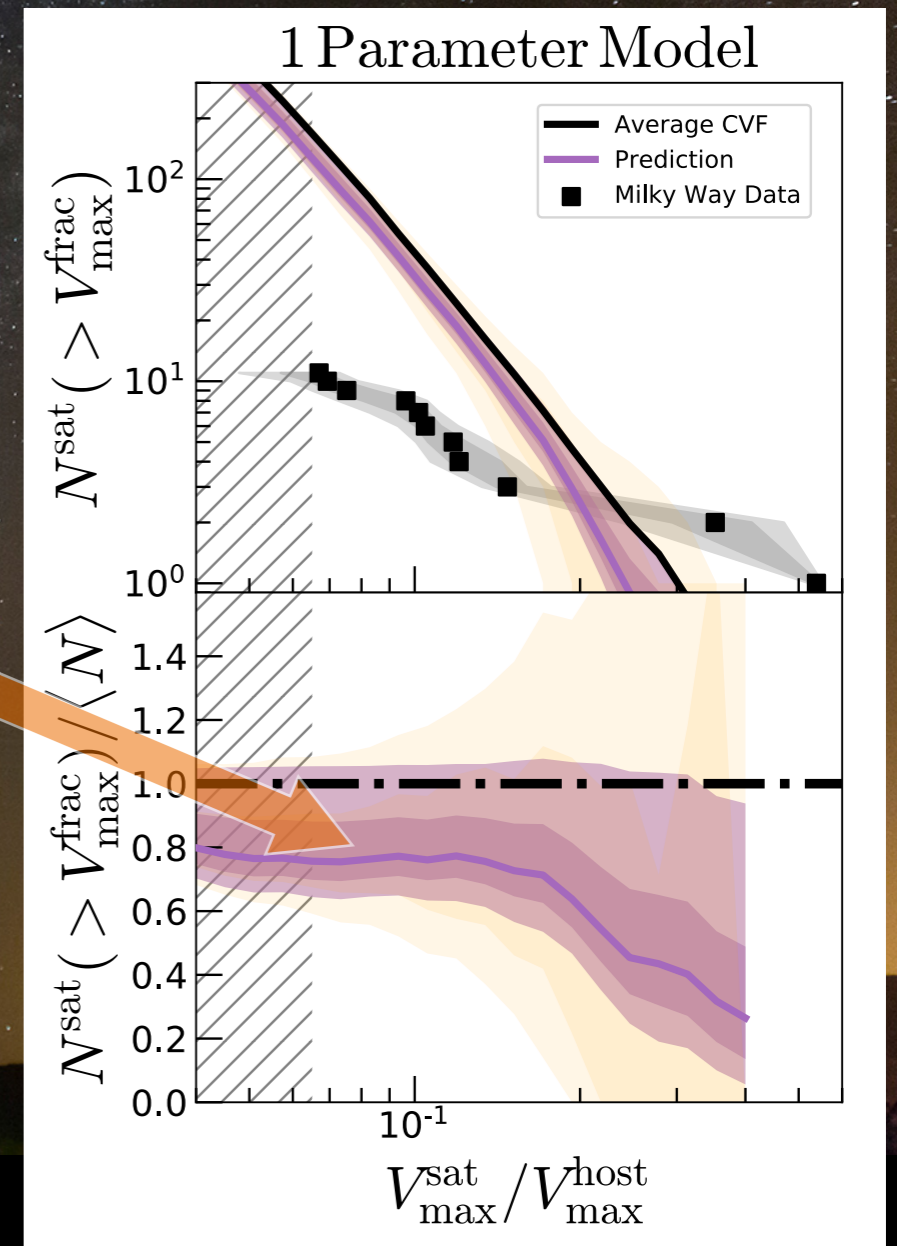
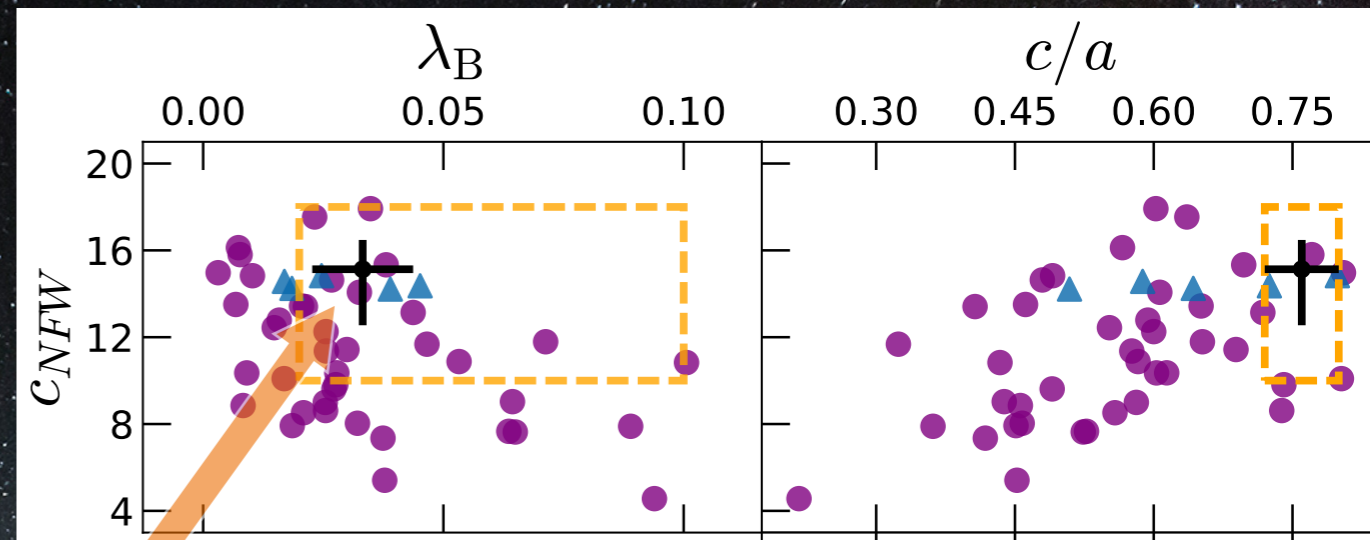
# Predictably Missing Satellites: Subhalo Abundances in Milky Way-like Halos

Catherine Fielder

University of Pittsburgh

With Yao-Yuan Mao, Jeff Newman, & Andrew Zentner

- Estimated properties of the Milky Way host halo are unusual!
- Predict up to 52% fewer subhalos
- Need to assume a host halo like the actual Milky Way's (not an average halo of the same mass) for models



arXiv: 1807.05180

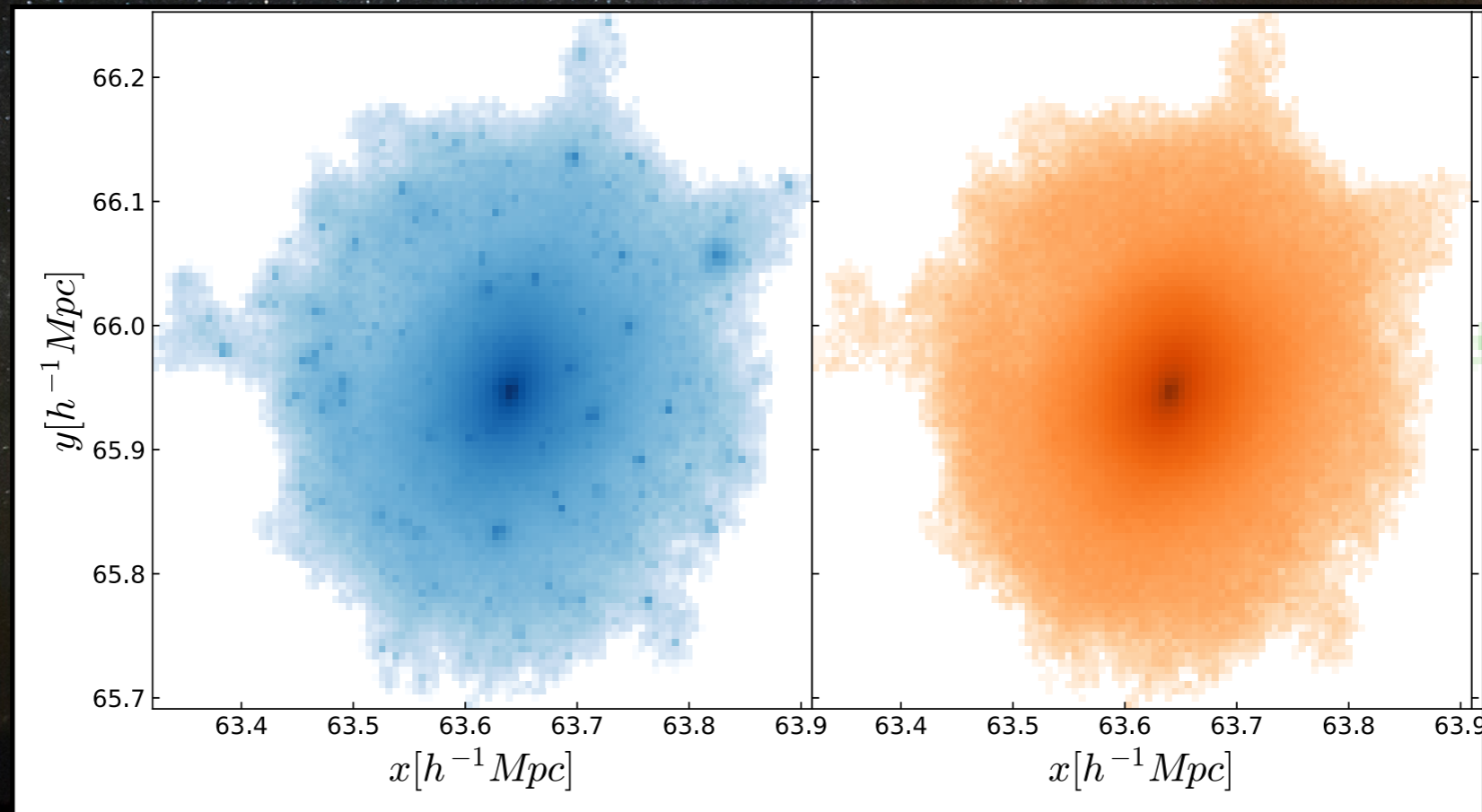
# Towards a More Universal Density Profile: Halo Mass Distributions Without Subhalos

Catherine Fielder

University of Pittsburgh

With Yao-Yuan Mao, Jeff Newman, & Andrew Zentner

- We explore density profiles for dark matter halos without their subhalos.
- We have identified analytic forms which fit the profiles well.



**In Prep; Stay tuned this Fall**