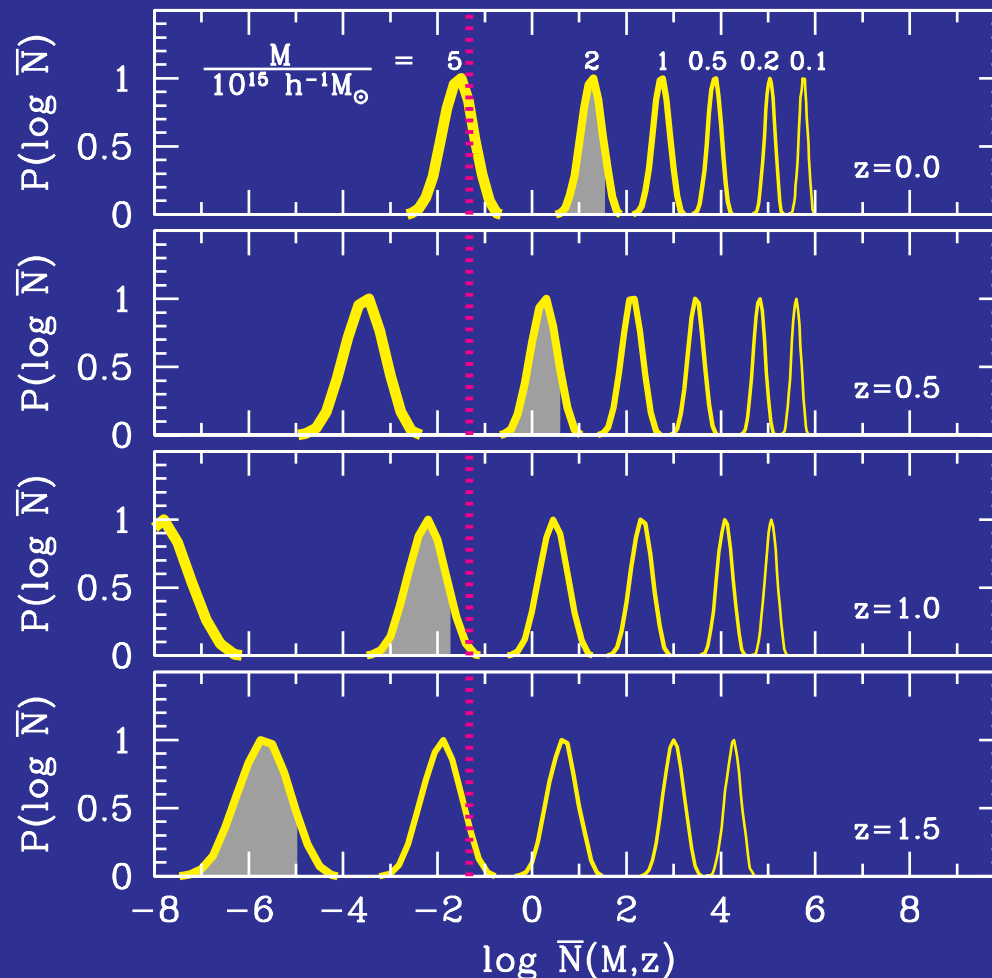


# Elephantine Predictions

- Geometric constraints on the cosmological parameters of  $\Lambda$ CDM
- Convert to distributions for the predicted average number of clusters above a given mass and redshift



# $\Lambda$ CDM Falsified?

- 95% of  $\Lambda$ CDM parameter space predicts less than 1 cluster in 95% of samples of the survey area above the  $M(z)$  curve
- No currently known high mass, high redshift cluster violates this bound

