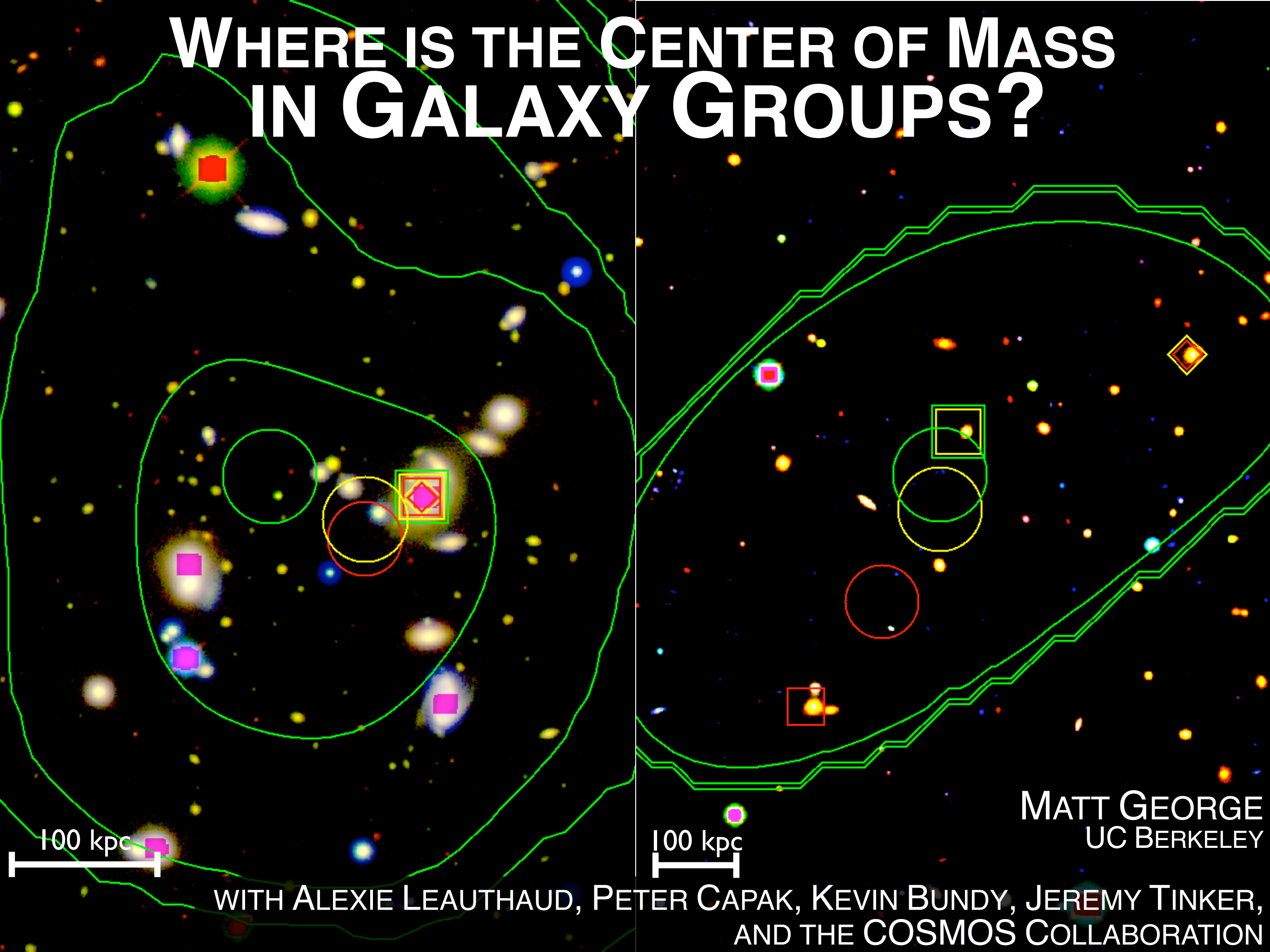


WHERE IS THE CENTER OF MASS IN GALAXY GROUPS?



100 kpc

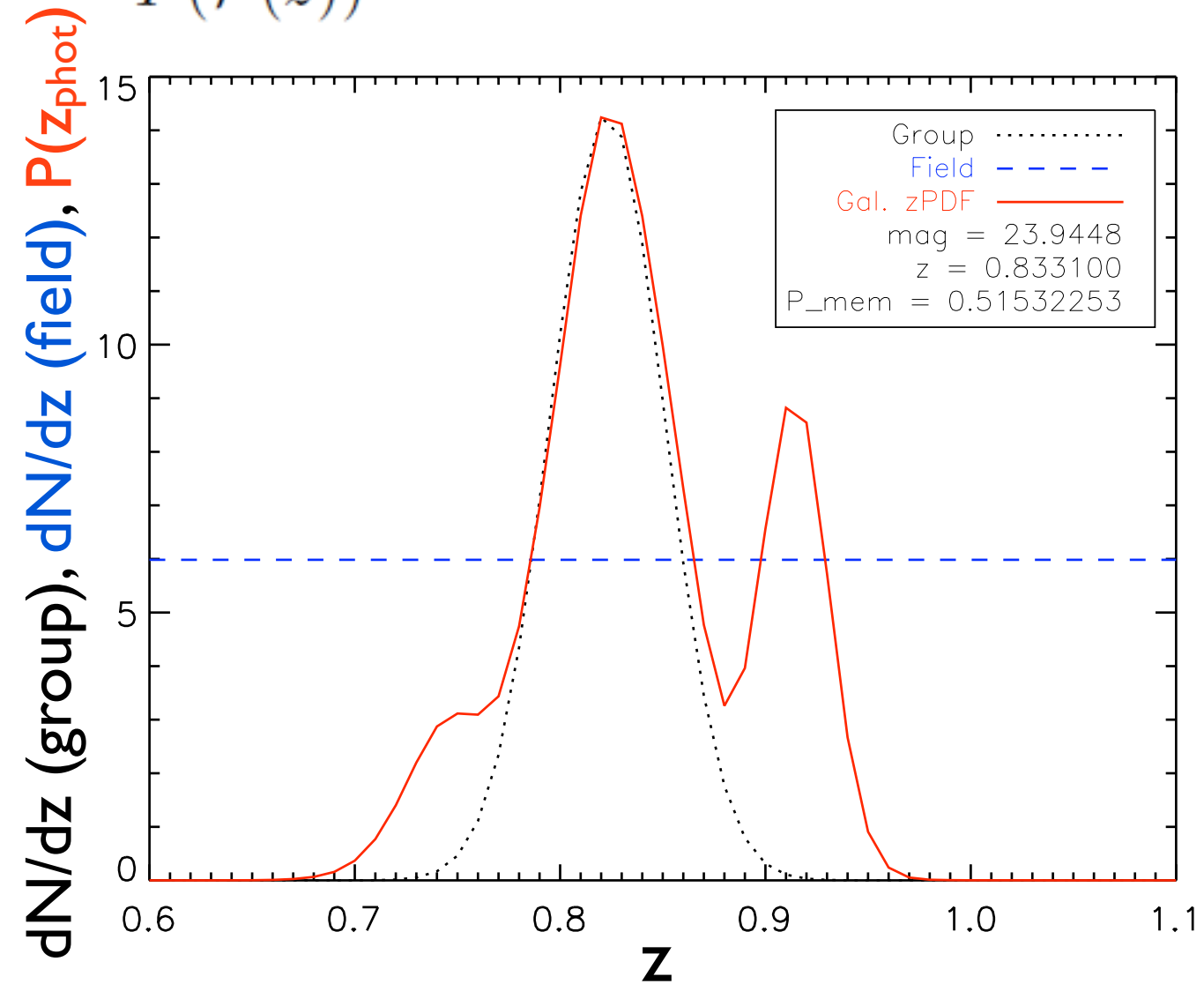
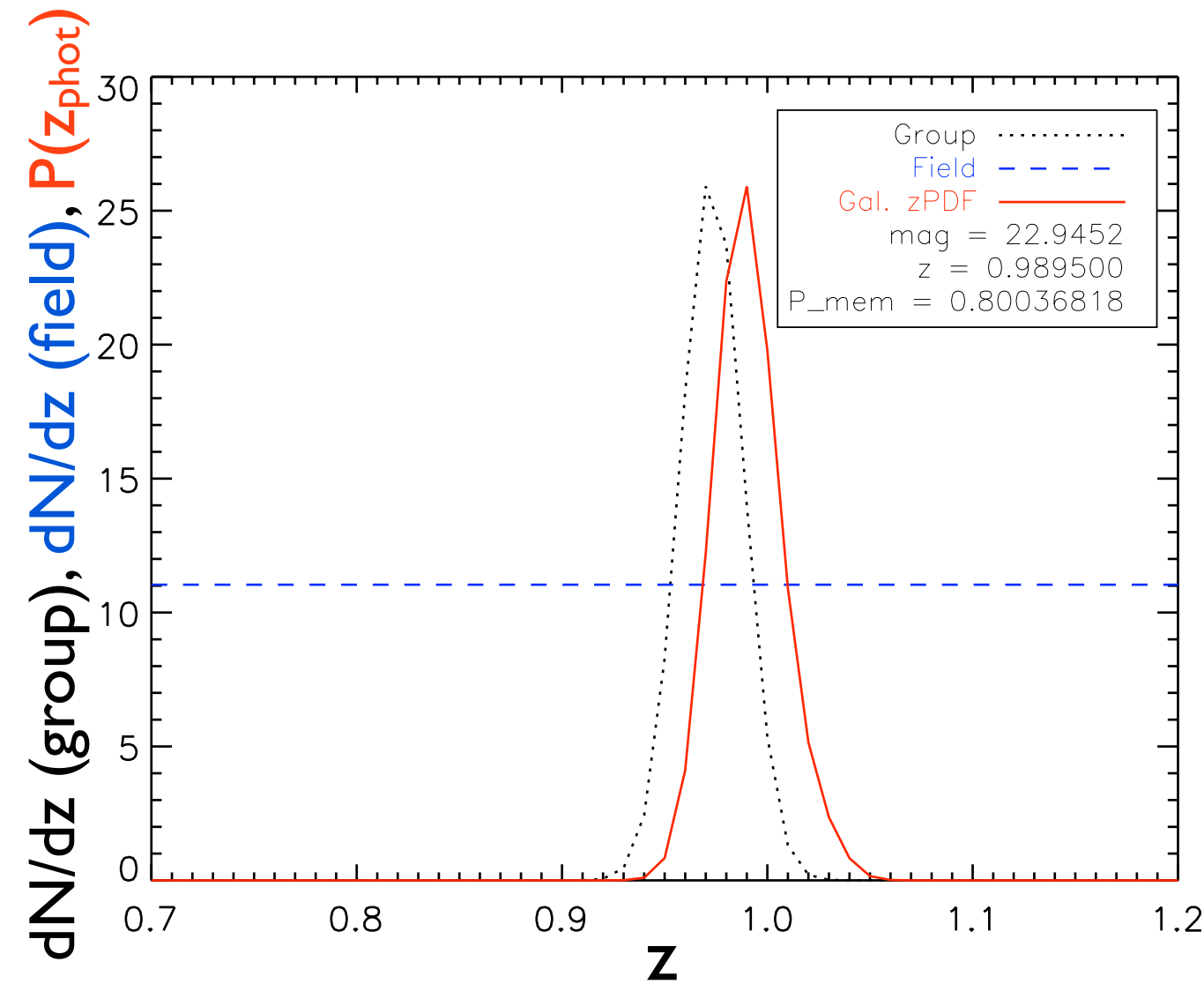
100 kpc

MATT GEORGE
UC BERKELEY

WITH ALEXIE LEAUTHAUD, PETER CAPAK, KEVIN BUNDY, JEREMY TINKER,
AND THE COSMOS COLLABORATION

Member Selection with Photometric Redshifts

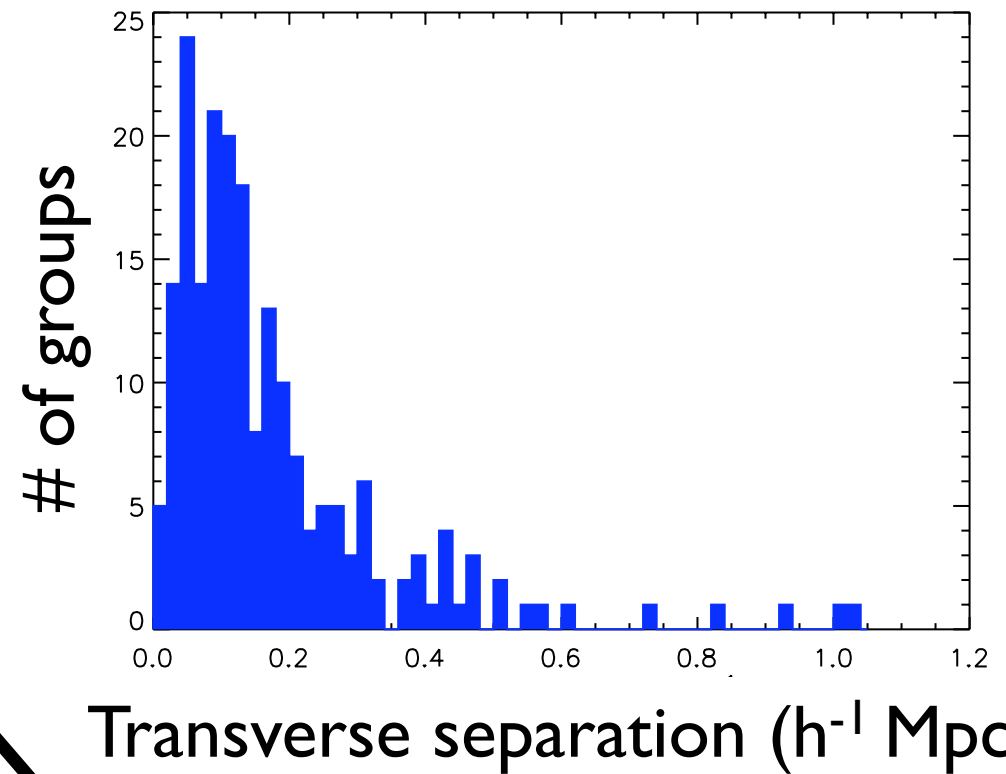
$$P(g \in G | \mathcal{P}(z)) = \frac{P(\mathcal{P}(z) | g \in G) P(g \in G)}{P(\mathcal{P}(z))}$$



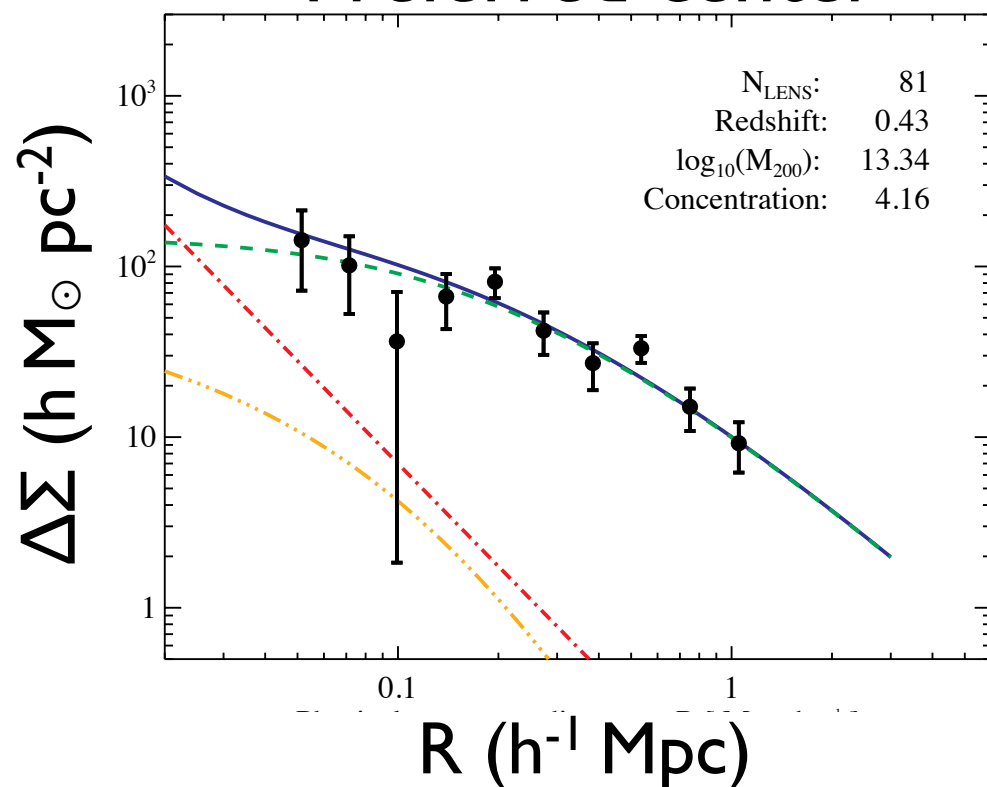
Identify members using photoz probability distribution + measured field/group densities

Preliminary Weak Lensing Results

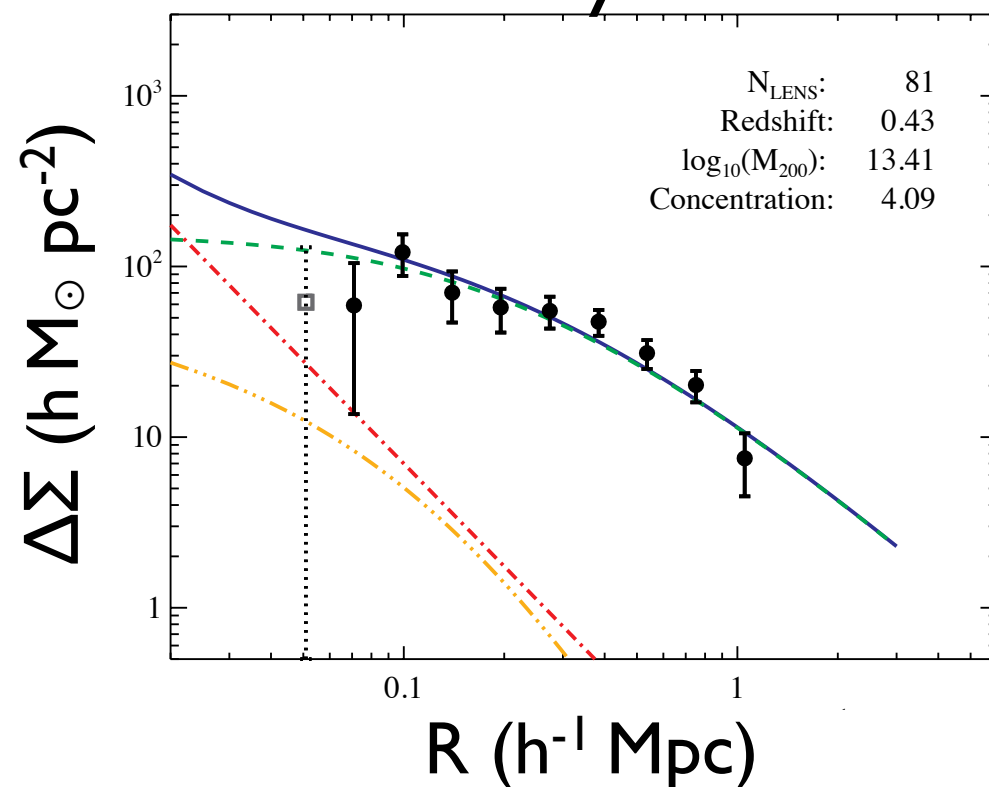
- ▶ Define several “centers”
- ▶ Calculate typical separations →
- ▶ Measure stacked WL signal
- ▶ Study inner profile



Preferred center

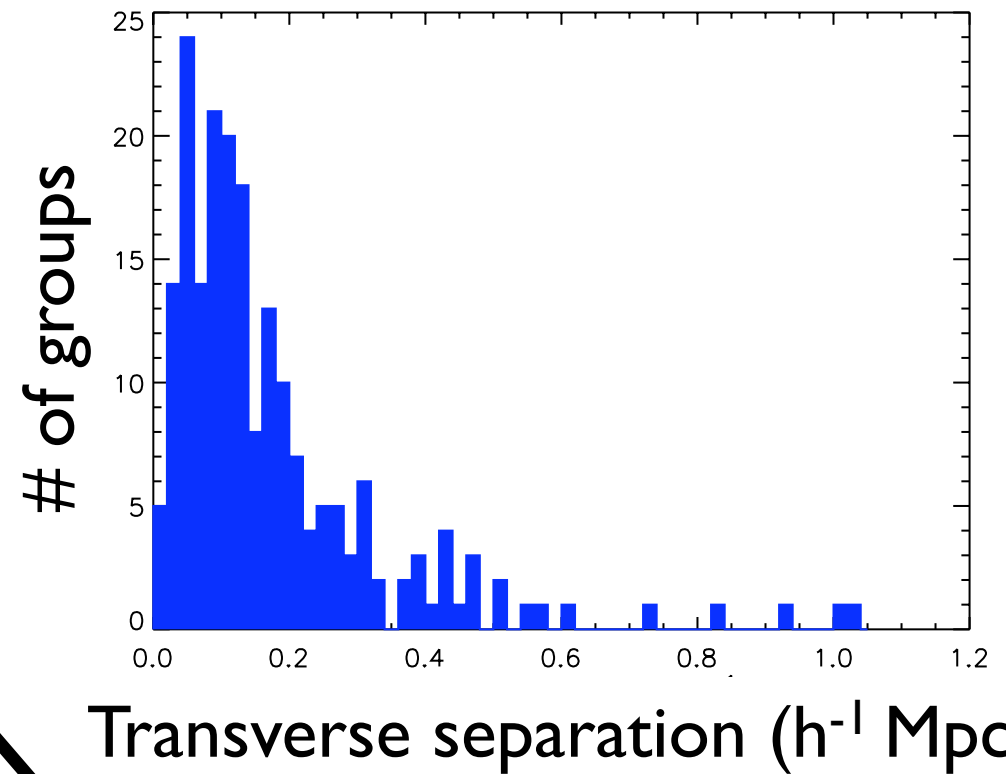


Luminosity centroid

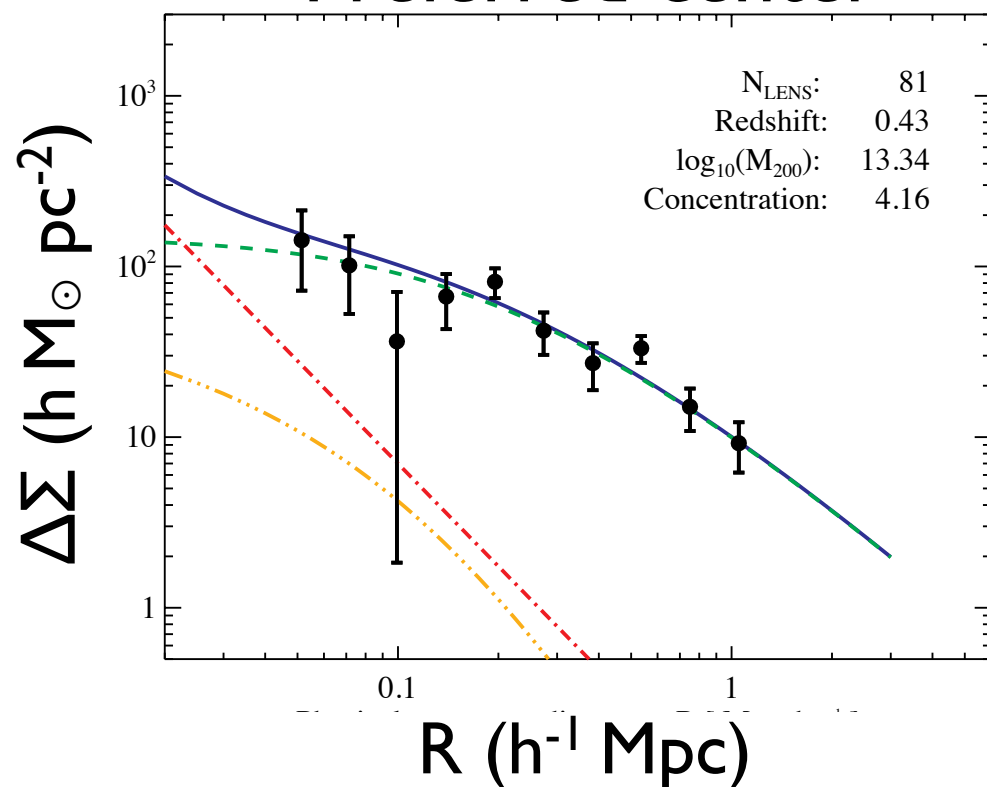


Preliminary Weak Lensing Results

- ▶ Define several “centers”
- ▶ Calculate typical separations
- ▶ Measure stacked WL signal
- ▶ Study inner profile



Preferred center



Luminosity centroid

