Exdended sources in ECDF-S

z=1.622
z=1.625
z=1.630
z=1.642
z=1.623
z=1.634
z=1.624
z=1.623
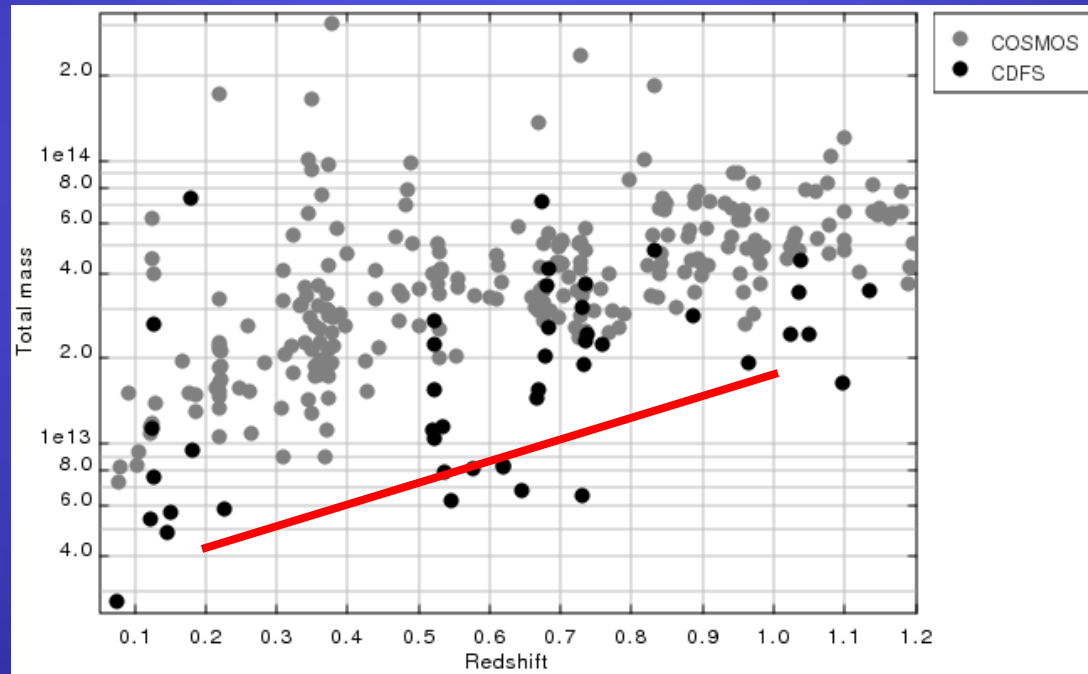z=1.622
z=1.544?
z=1.649
z=1.322?
z=1.705
z=1.627
z=1.625? z=1.703
z=0.643

Alexis Finoguenov
Helsingin Yliopisto
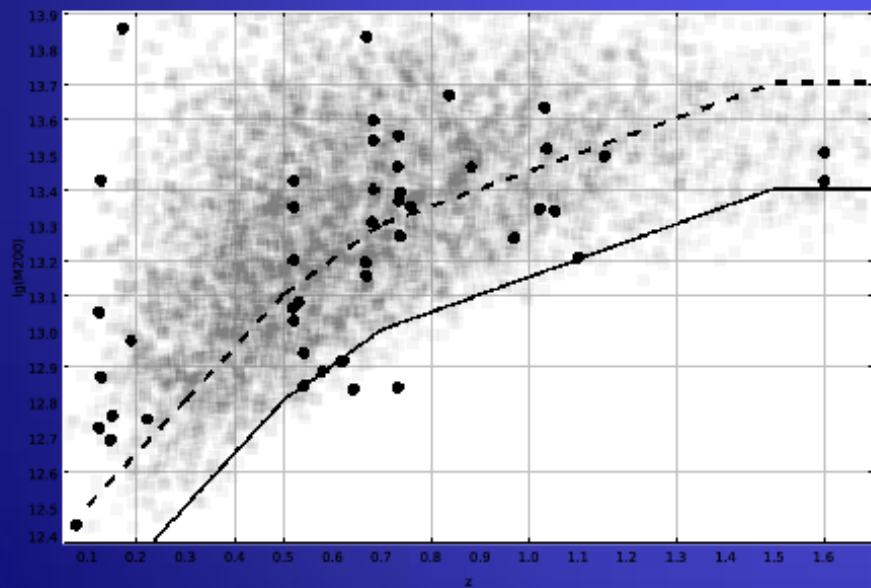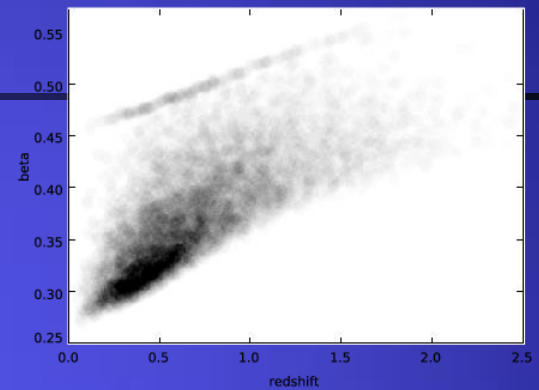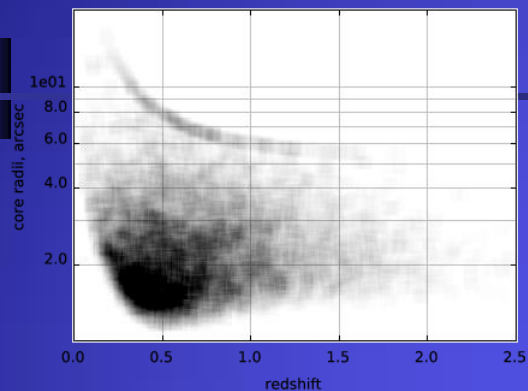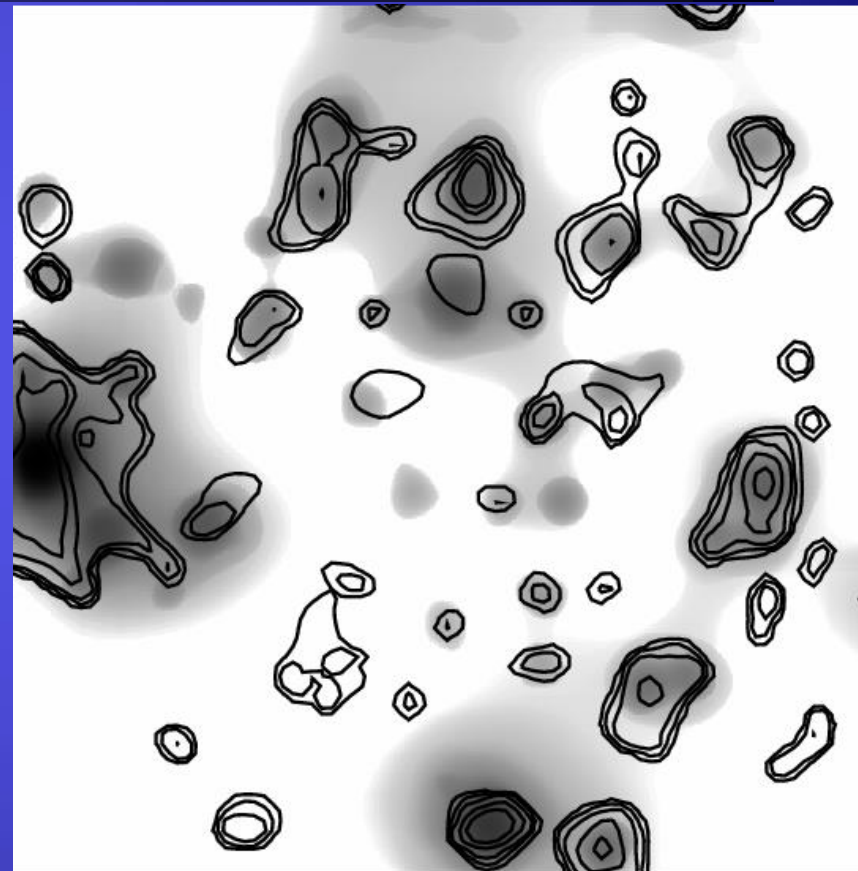UMBC
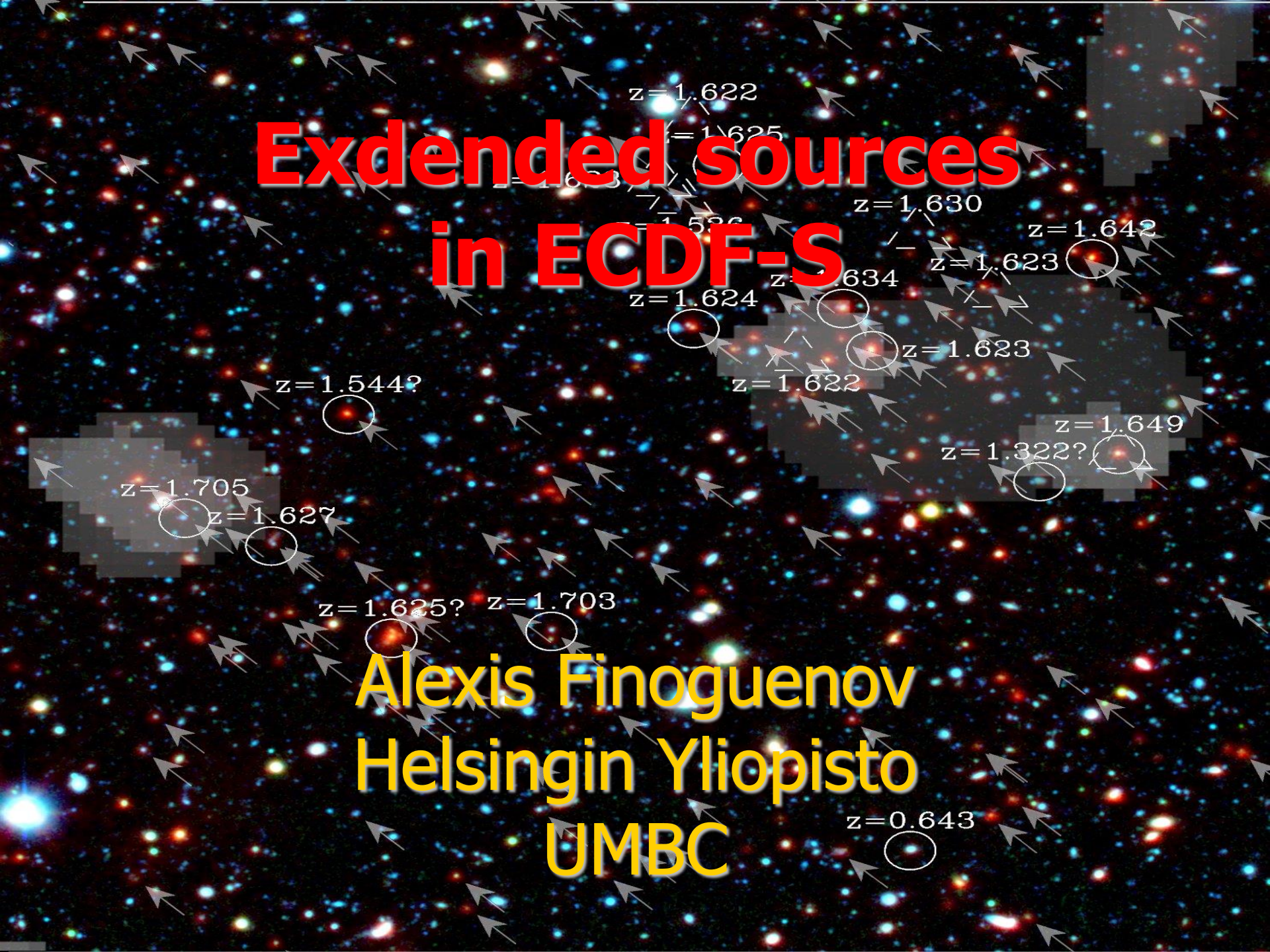
Fluctuations down to 5×10^{-17} ergs/s/cm^2
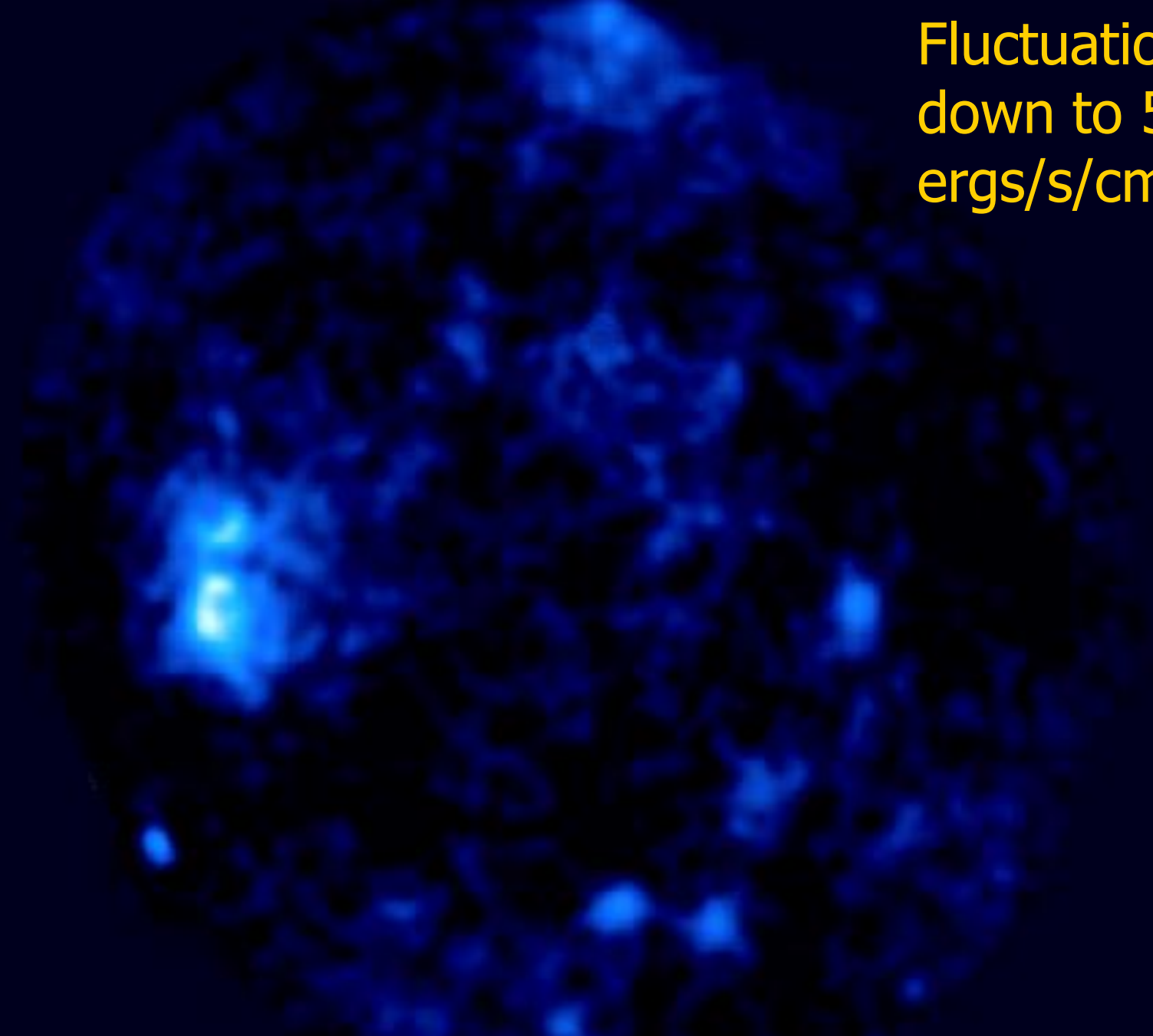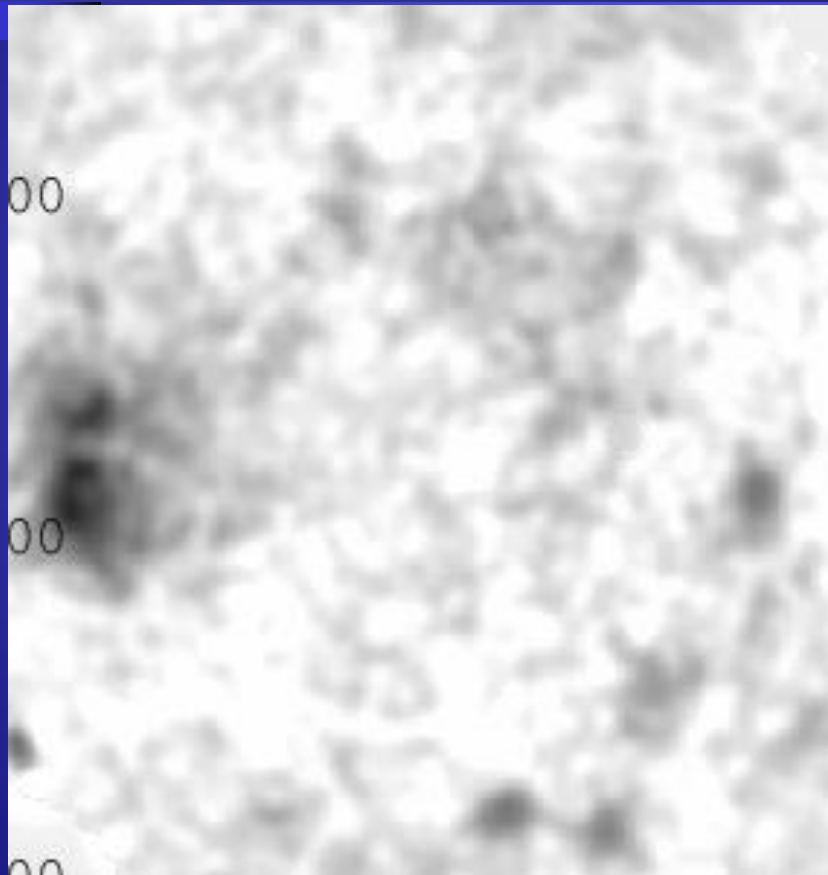
CDFS vs COSMOS
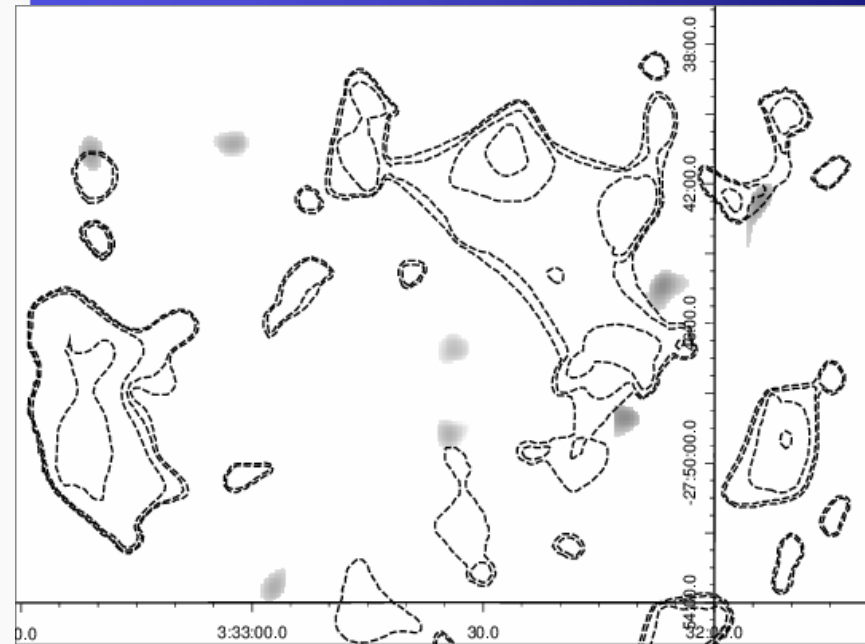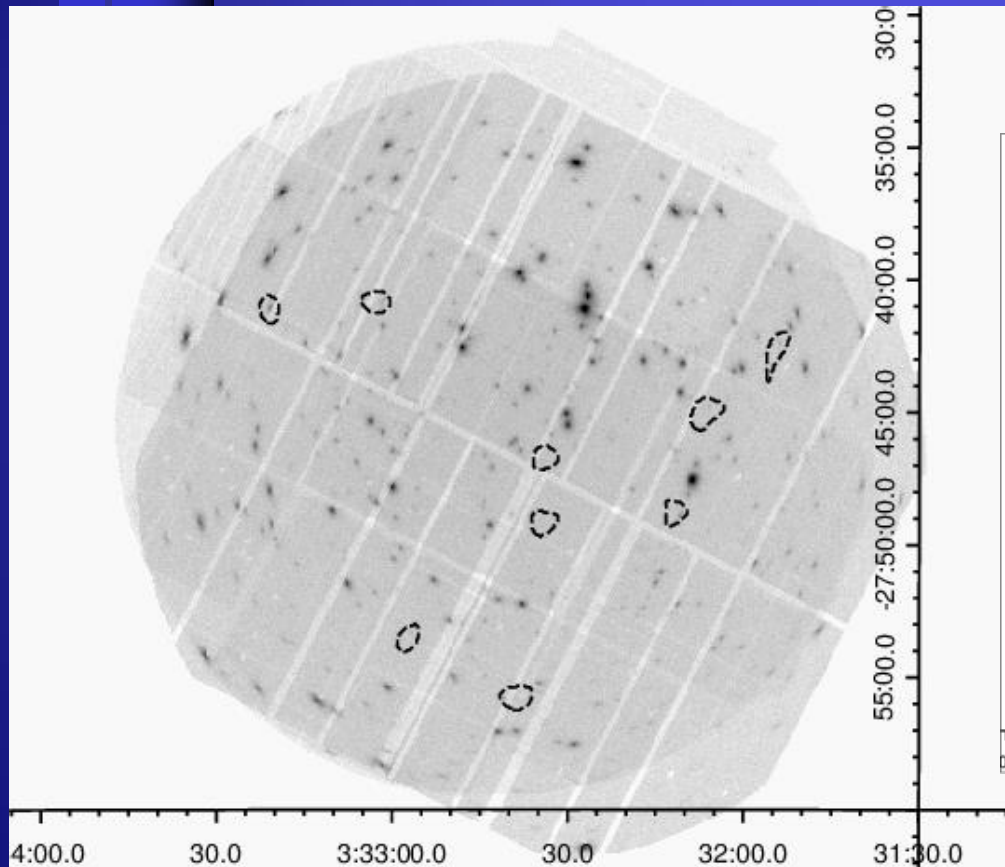
Kirk structure at z=1.6
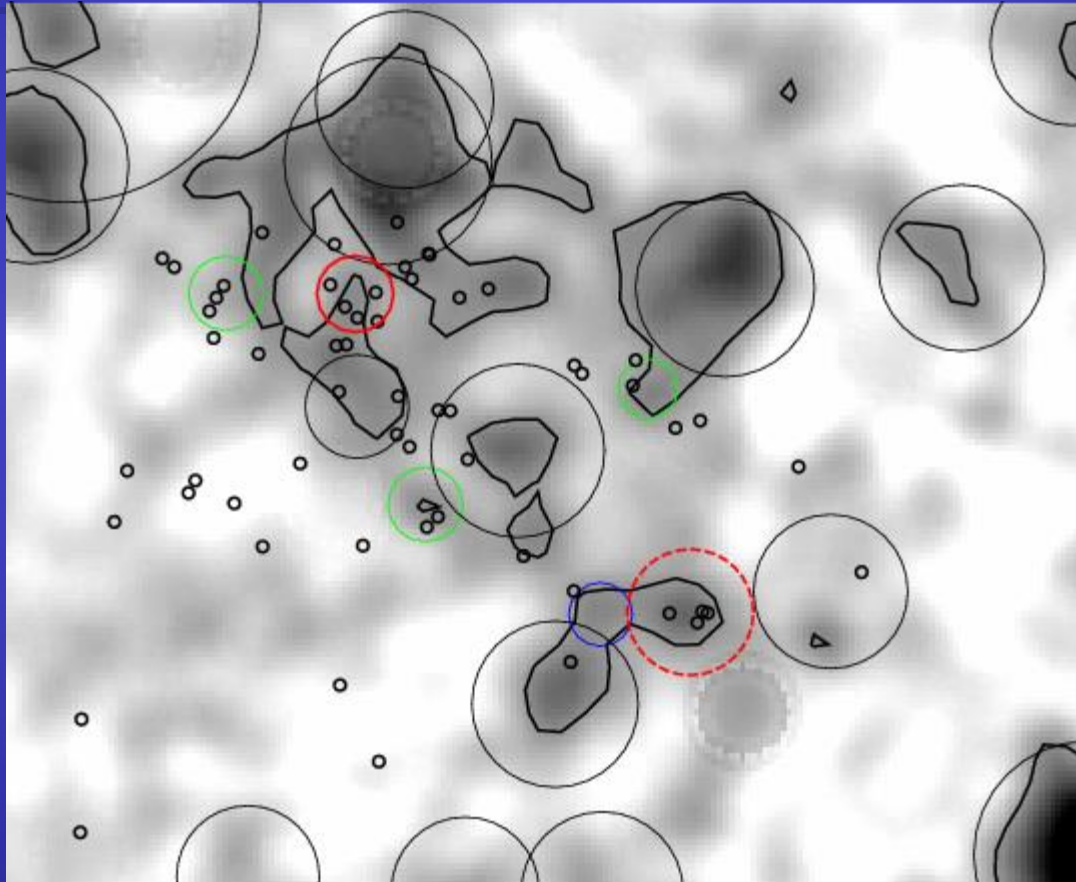
Random catalog
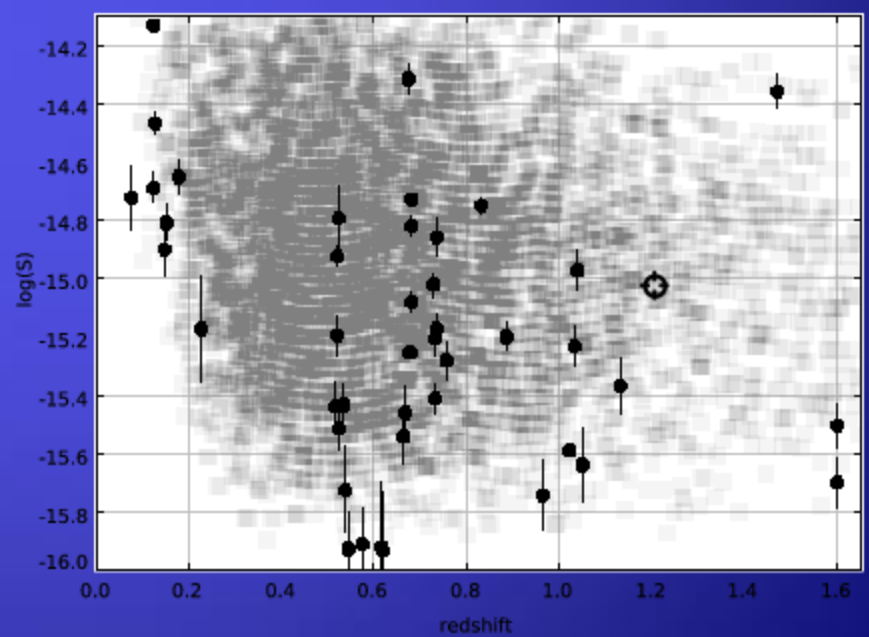
Reproducing the observed emission

Simulated contamination by point sources

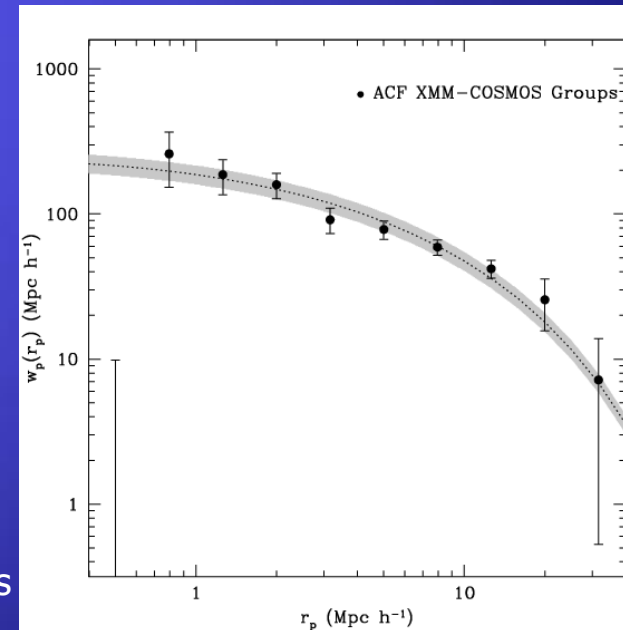# ACF of galaxy groups
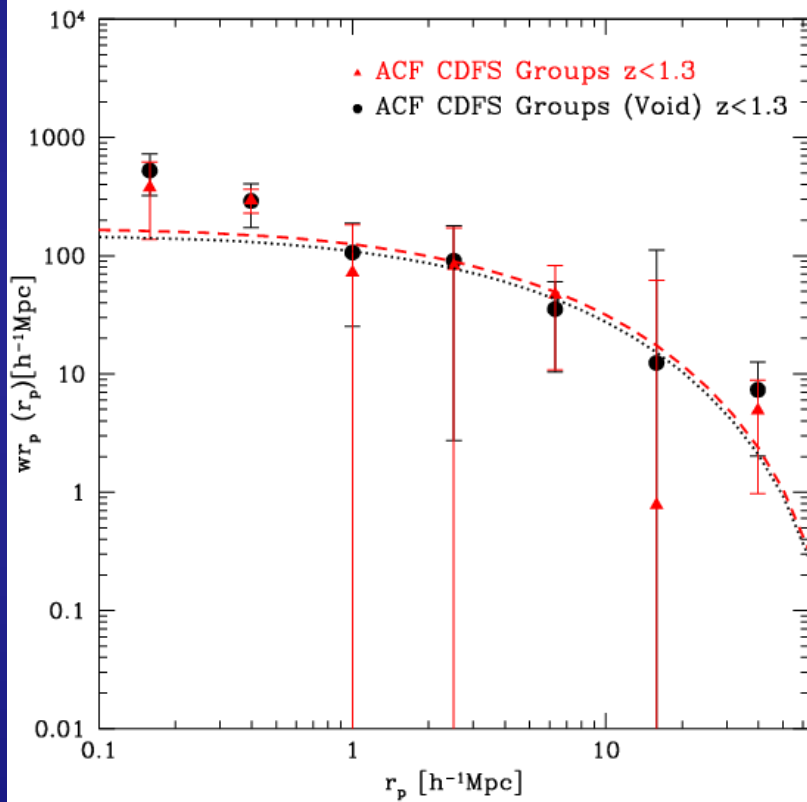
b_obs/b_model=1.1±0.1
This constraints the deviations from the assumed scaling relation to be < 30% in total mass.

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Lx-Mass from weak lensing (GEMS)
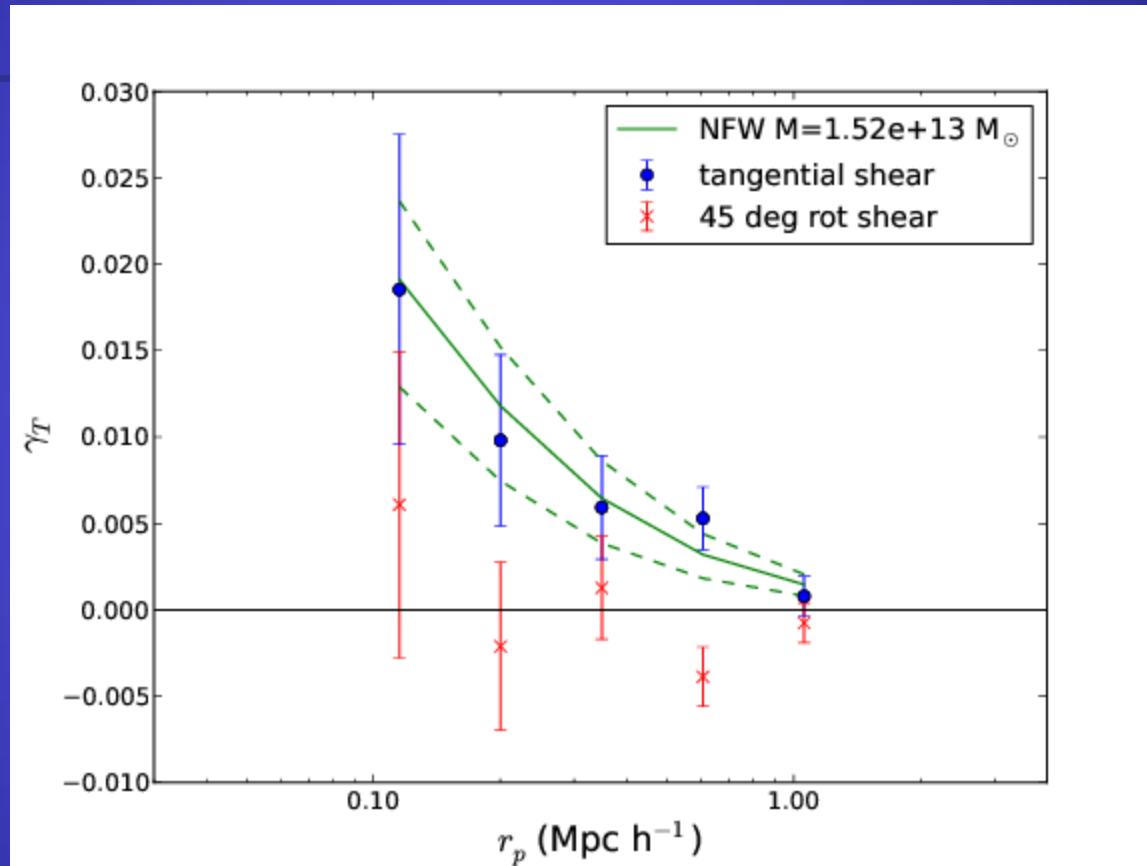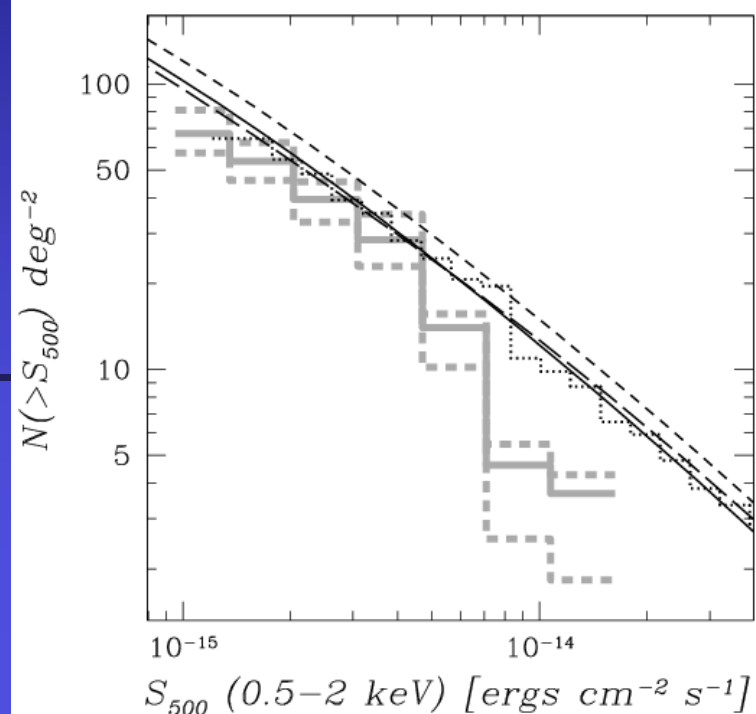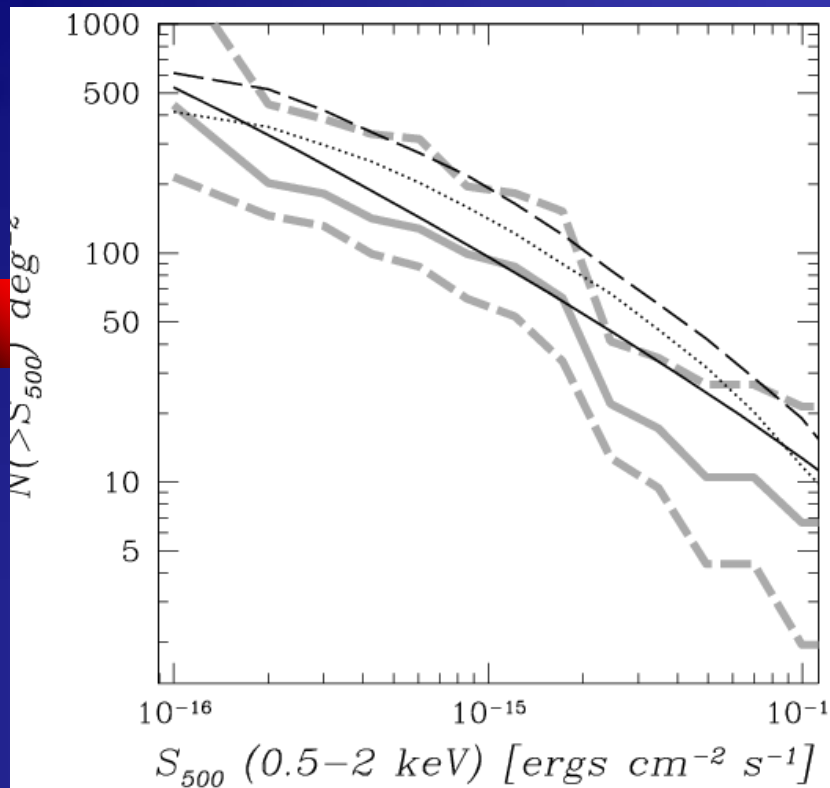

$$lgM = 0.6lgLx + C$$

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Ami Choi

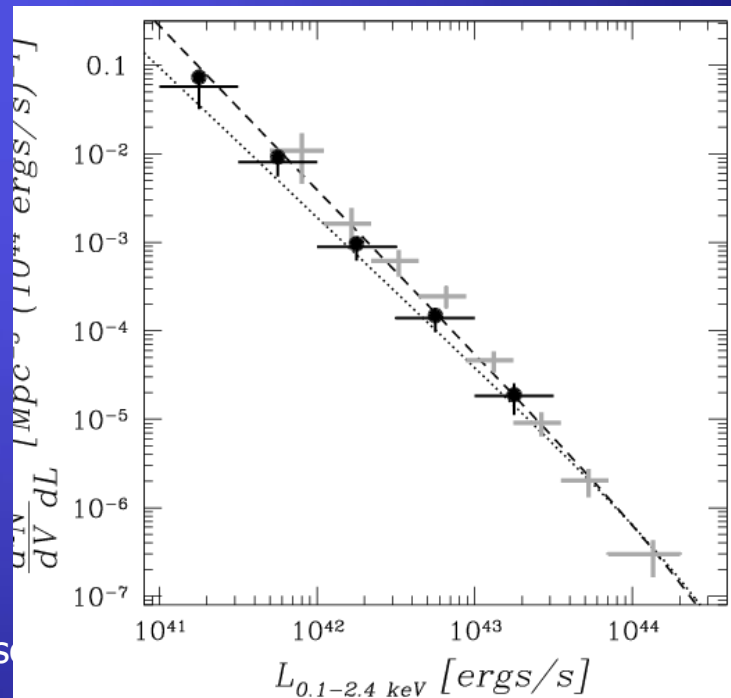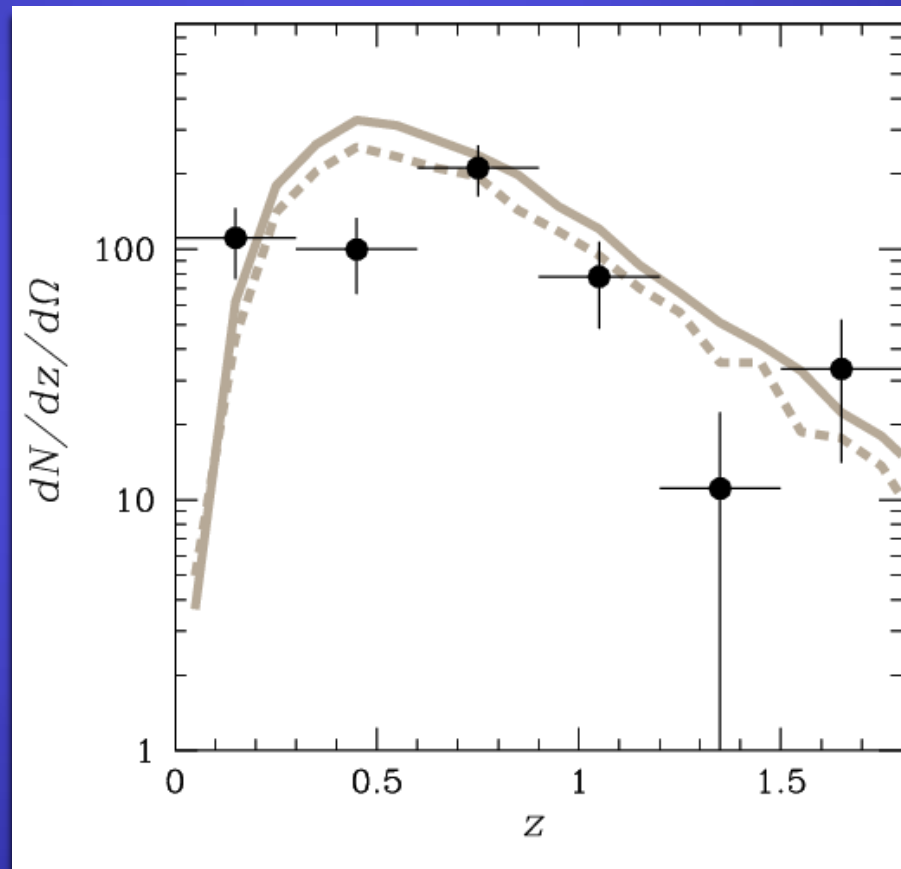CDFS: extended sources

Groups vs LCDM

Finoguenov et al. 2010, 2014

Alexis Finoguenov   CDFS: extended s

dn/dz – the void is 0.3<z<0.6

Conclusions

- **ECDF-S delivered a very unique catalog of galaxy groups, probing interestingly low halo masses.**

- **We have compared the mass calibration with the weak lensing signal and the clustering, finding a good agreement**

- **Planck13 LCDM overpredicts the number of groups that should be visible in ECDF-S. This can be alleviated by ascribing 30% higher mass to each group.**

- **Finally, the known lack of structure in CDFS is contained to $0.2 < z < 0.6$ range.**