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Fluctuations down to 5x10⁻¹⁷ ergs/s/cm²

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Cluster cosmology

Arcminute spatial scales are confused



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extended sources in CDFS

Confusion due to overlapping profiles of galaxy groups



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Cluster cosmology in Deep Fields

CDFS vs COSMOS







Random catalog



ACF of galaxy groups



GEMS





10

Lx-Mass from weak lensing





dn/dz – the void is <0.6



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Cluster cosmology in Deep Fields

Kurk supercluster: just a bunch of groups



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Cluster cosmology in Deep Fields

Conclusions

- CDFS delivered a very unique catalog of galaxy groups, probing the interestingly low halo masses.
- We have compared the mass calibration with the weak lensing signal and the clustering, finding a good agreement
- Statistics of CDFS is consistent with LCDM, once we remove the void or stay above z>0.6
 - Confusion makes identification a hard work and it might be incomplete at low S/N
 - LSS at z=1.6 is detected with 6 groups in the 2-3 10¹³M_{sun} range