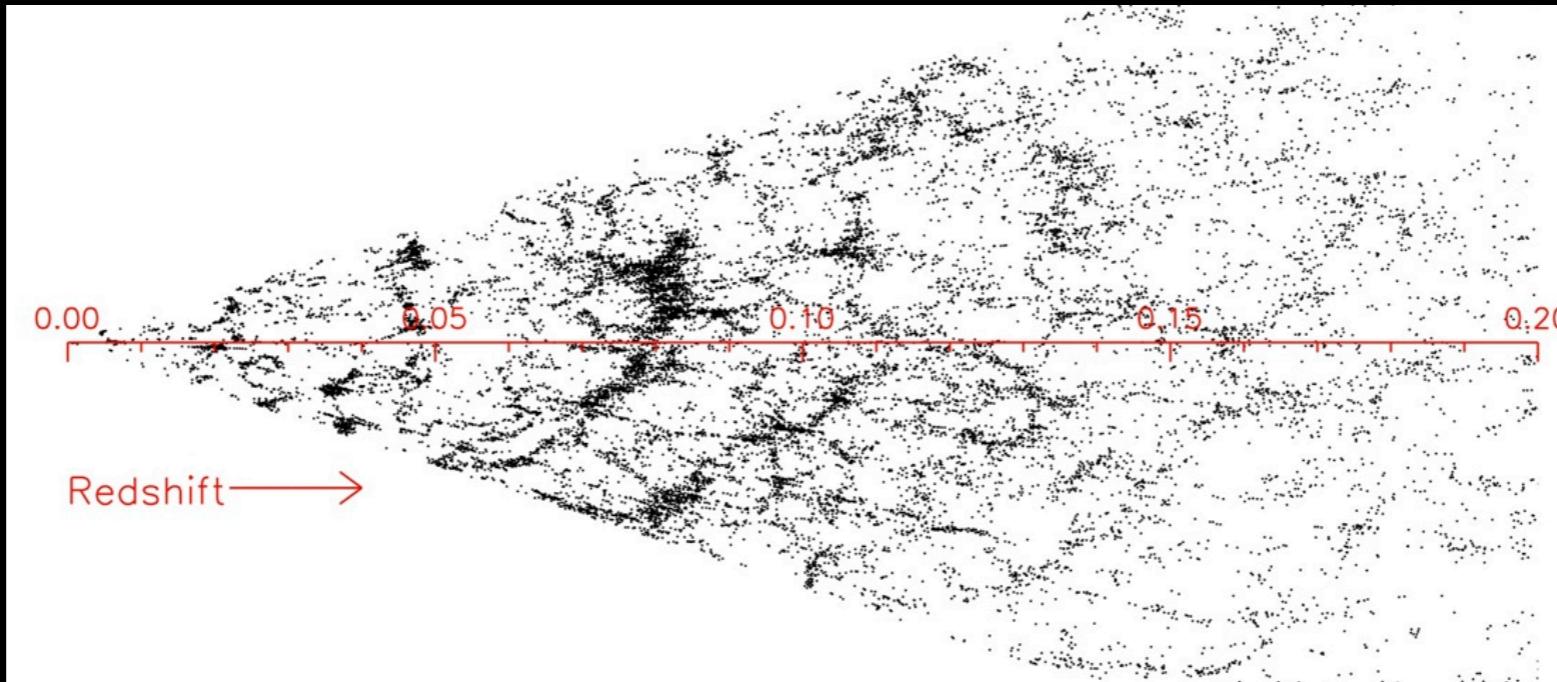
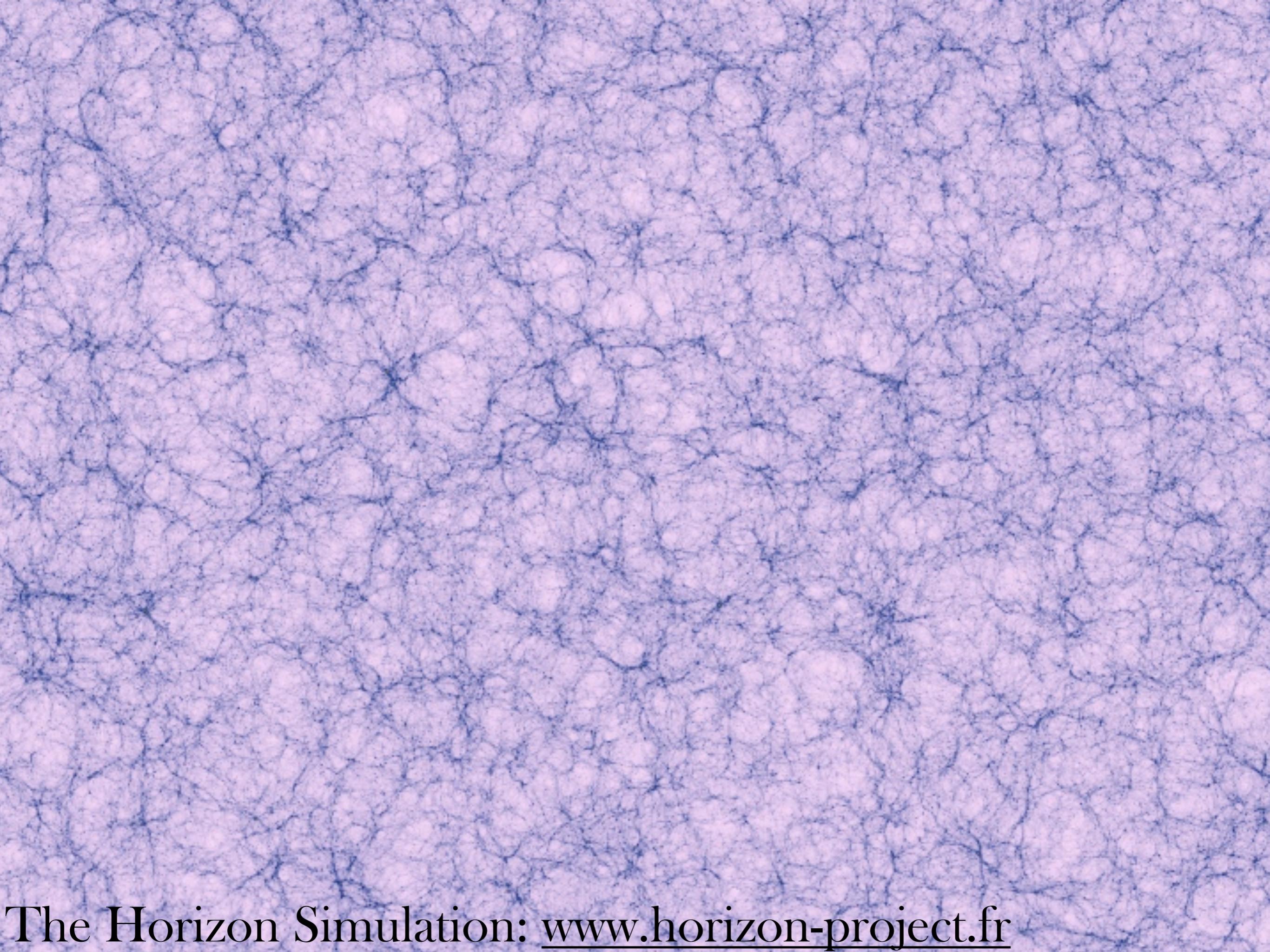


Local Large-Scale Structure and the Assumption of Homogeneity



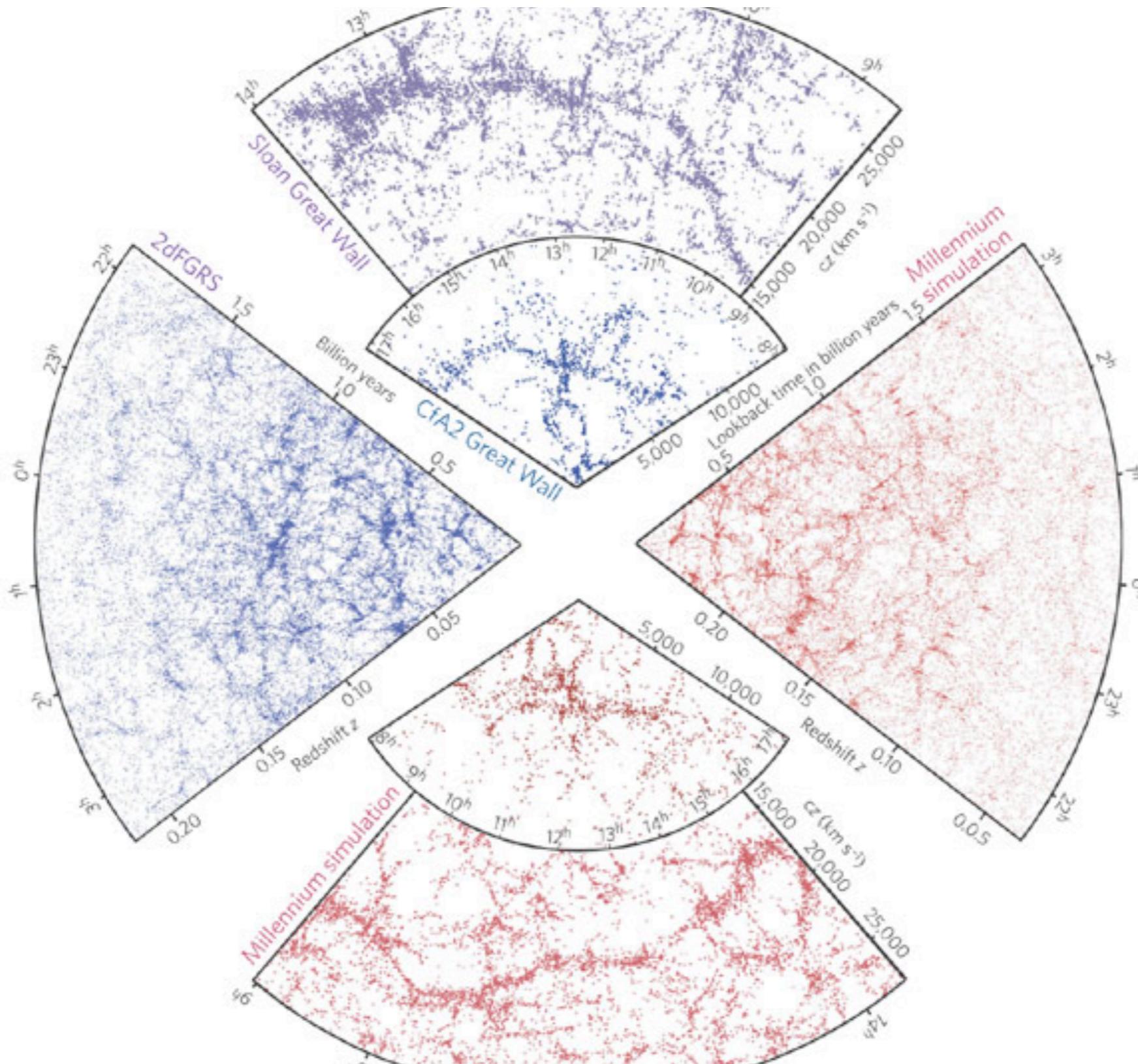
Ryan Keenan (ASIAA, Taiwan)

Collaborators: Amy Barger (U. Wisconsin), Lennox Cowie (IfA, Hawaii), Wei-Hao Wang (ASIAA, Taiwan), Isak Wold (U. Wisconsin), Laura Trouille (Northwestern, IL)



The Horizon Simulation: www.horizon-project.fr

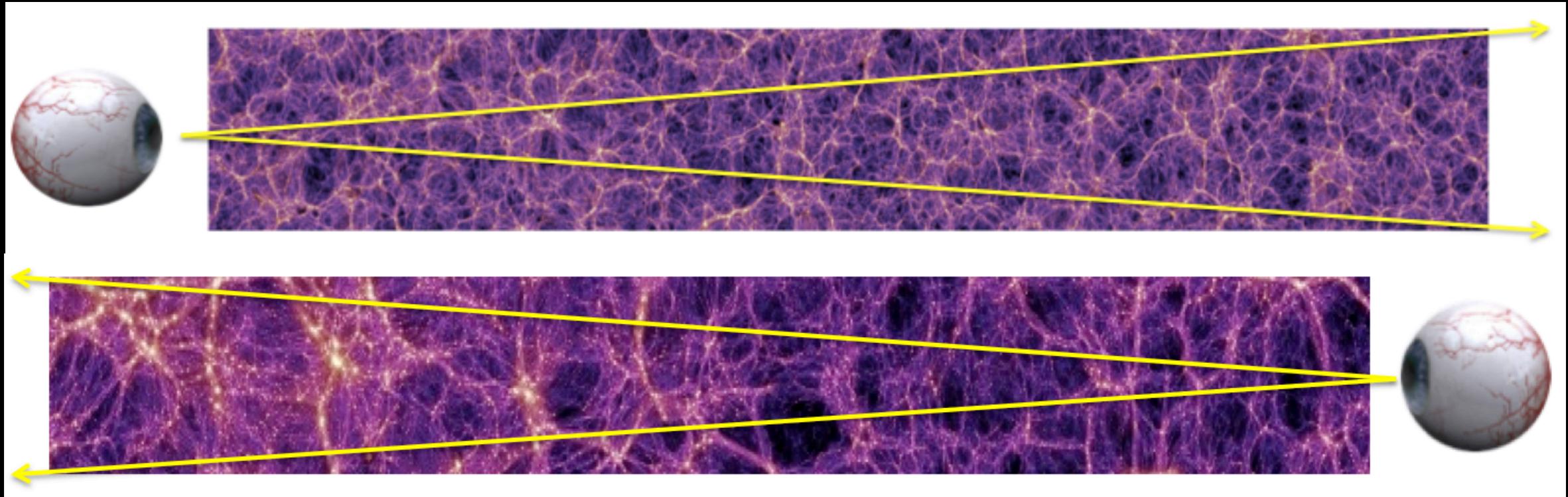
Observations: CFA2, 2DFGRS, SDSS (blue and purple)



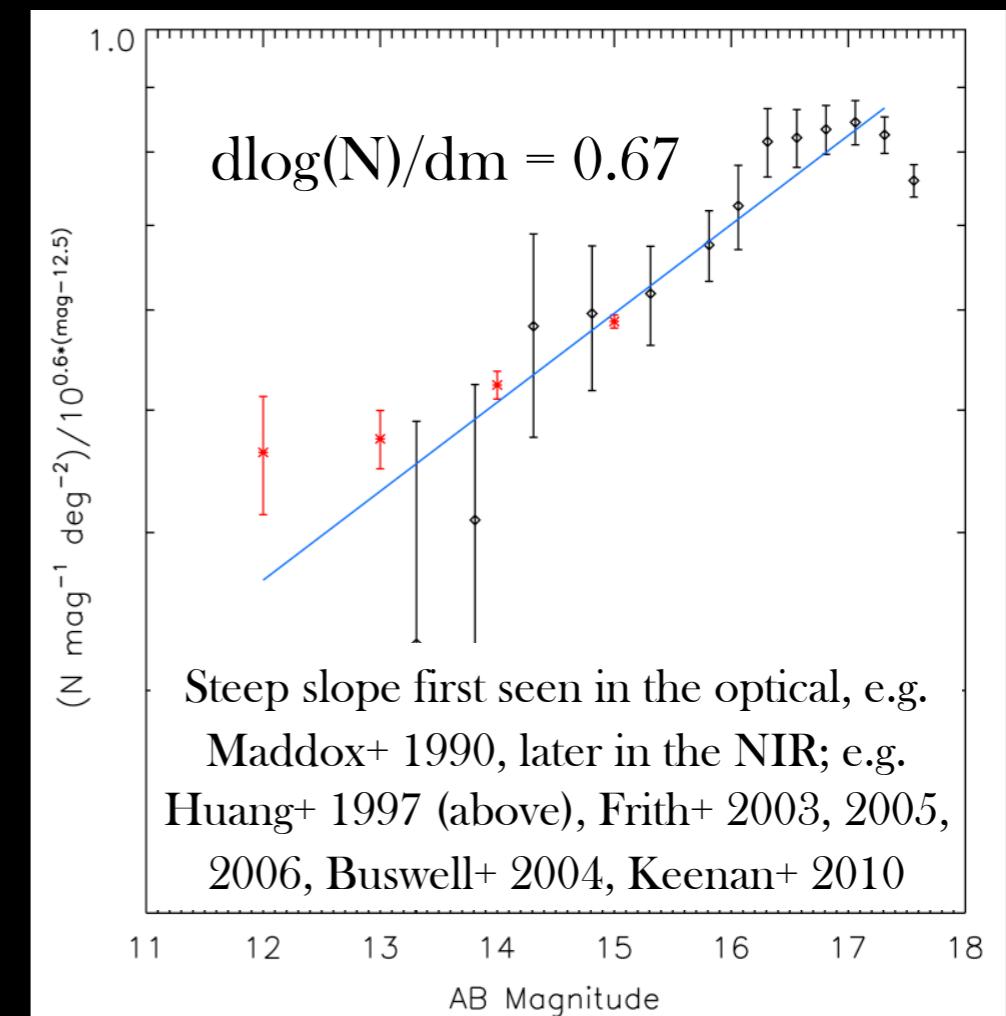
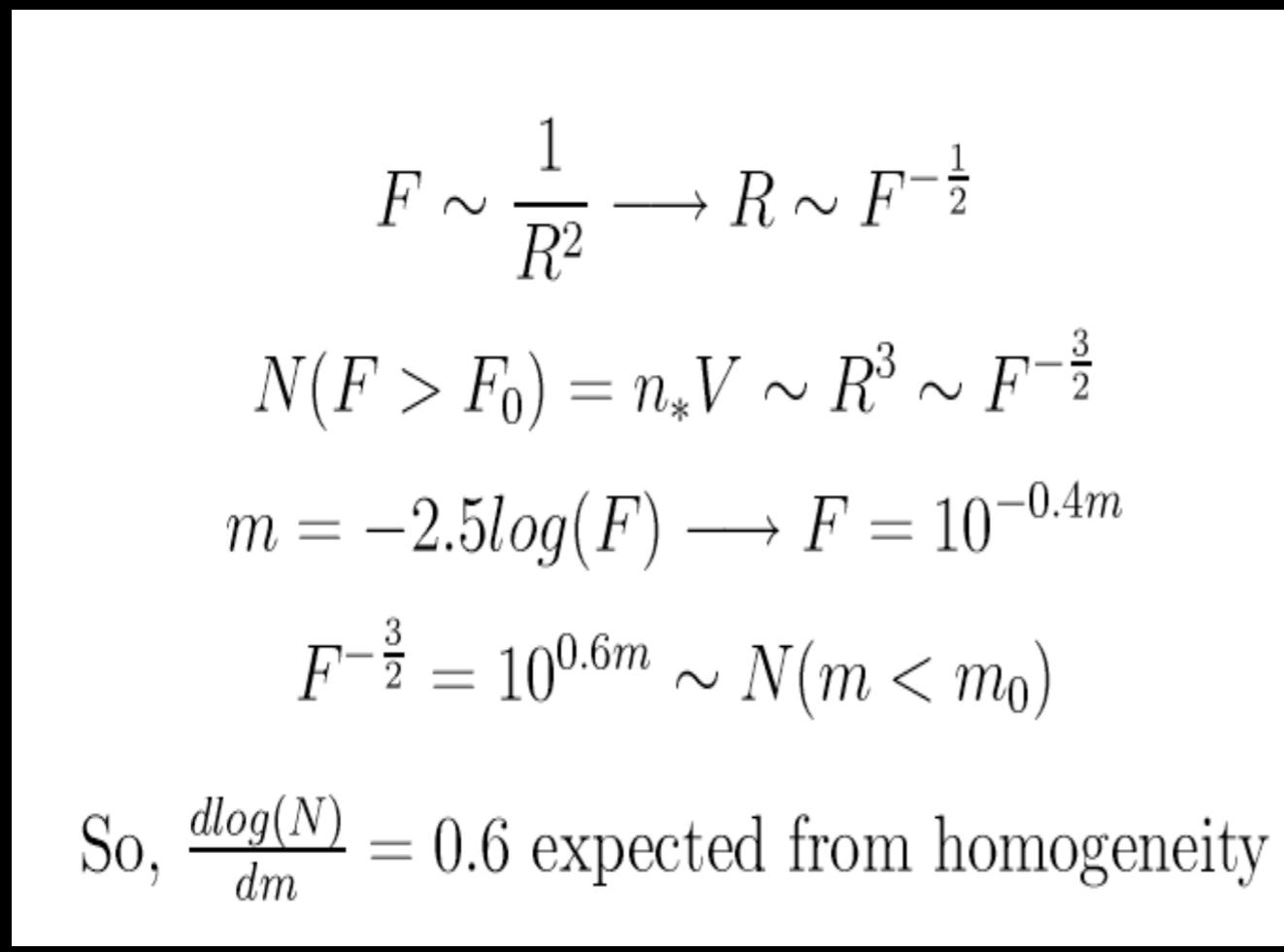
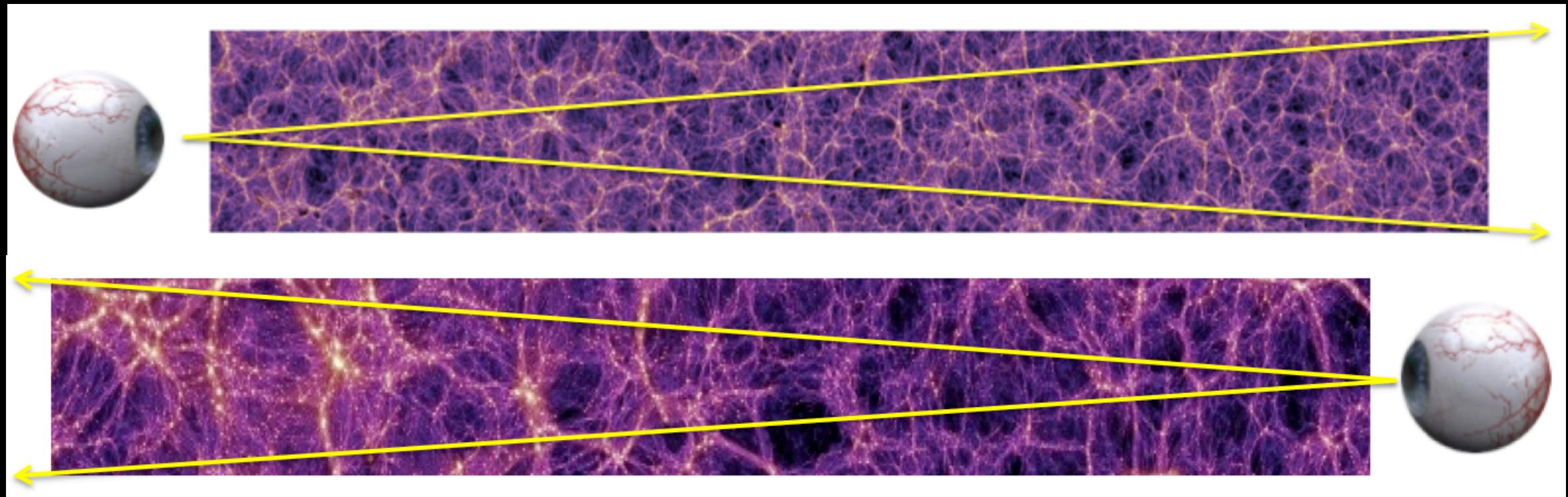
Millennium Simulation (red)

Springel et al. (2006)

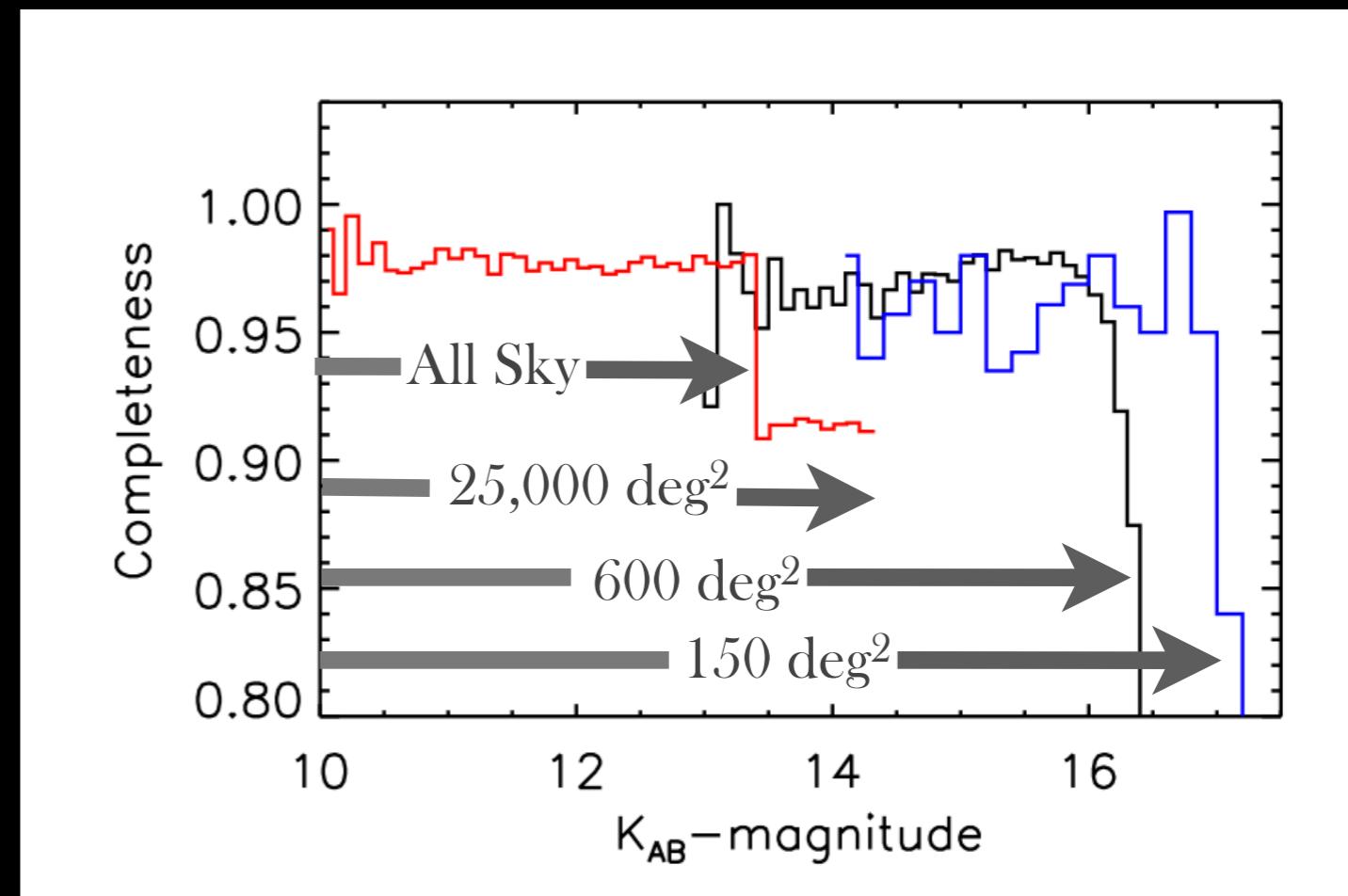
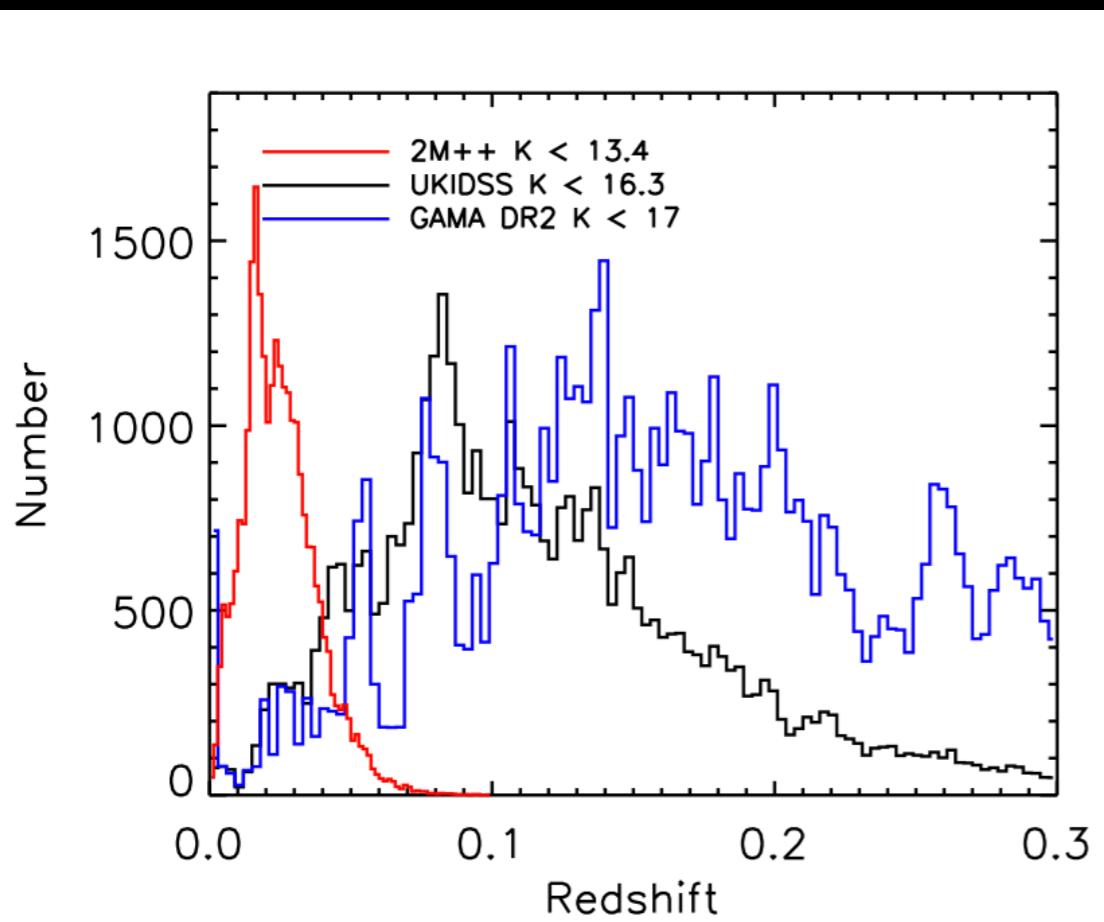
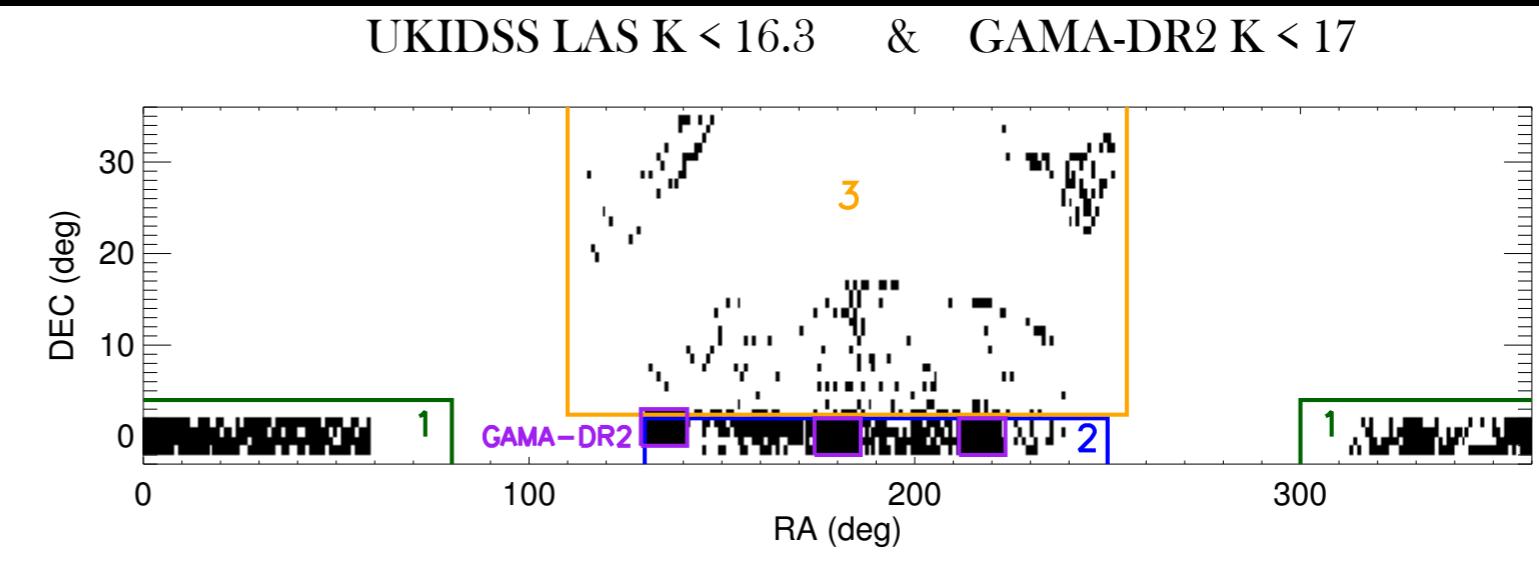
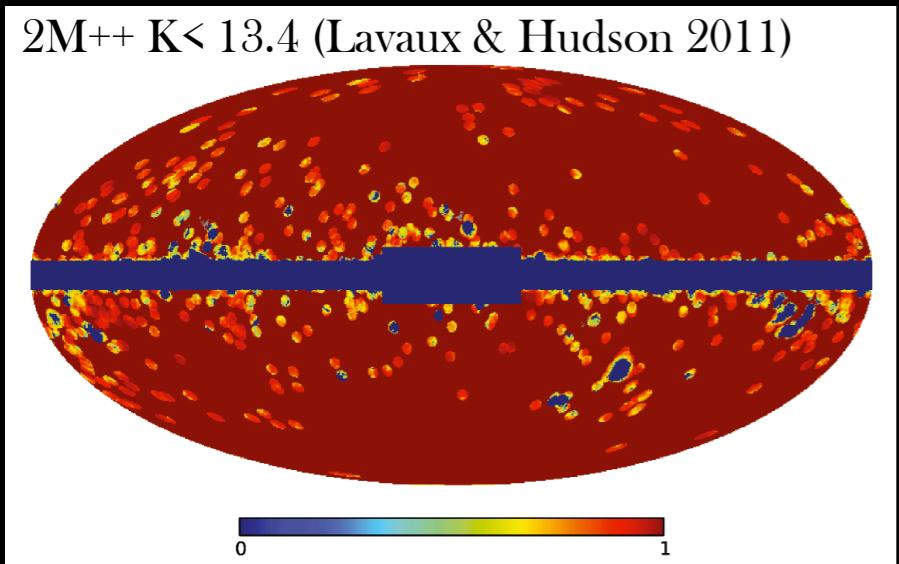
(NIR) Galaxy Counts to Probe Structure



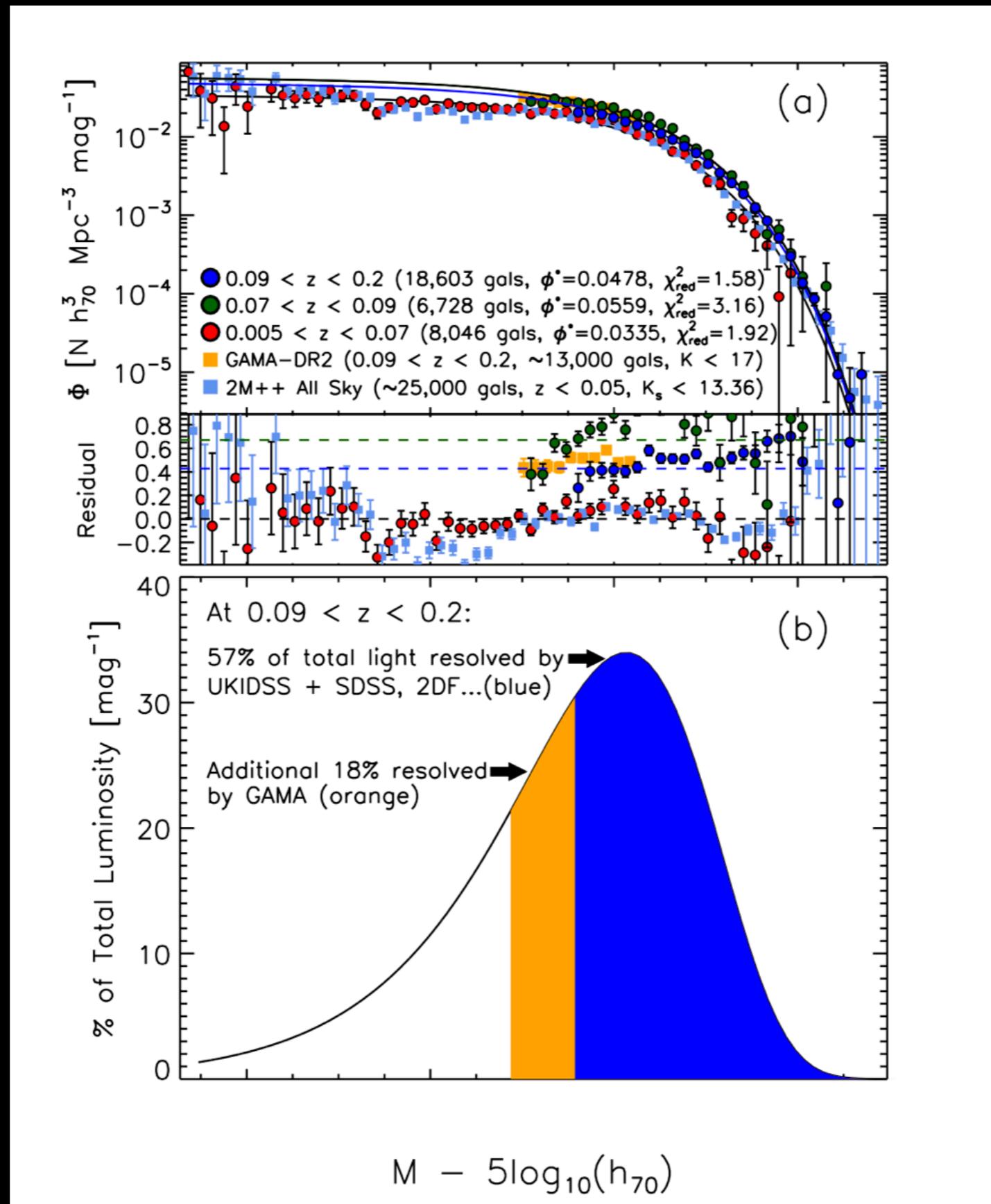
(NIR) Galaxy Counts to Probe Structure



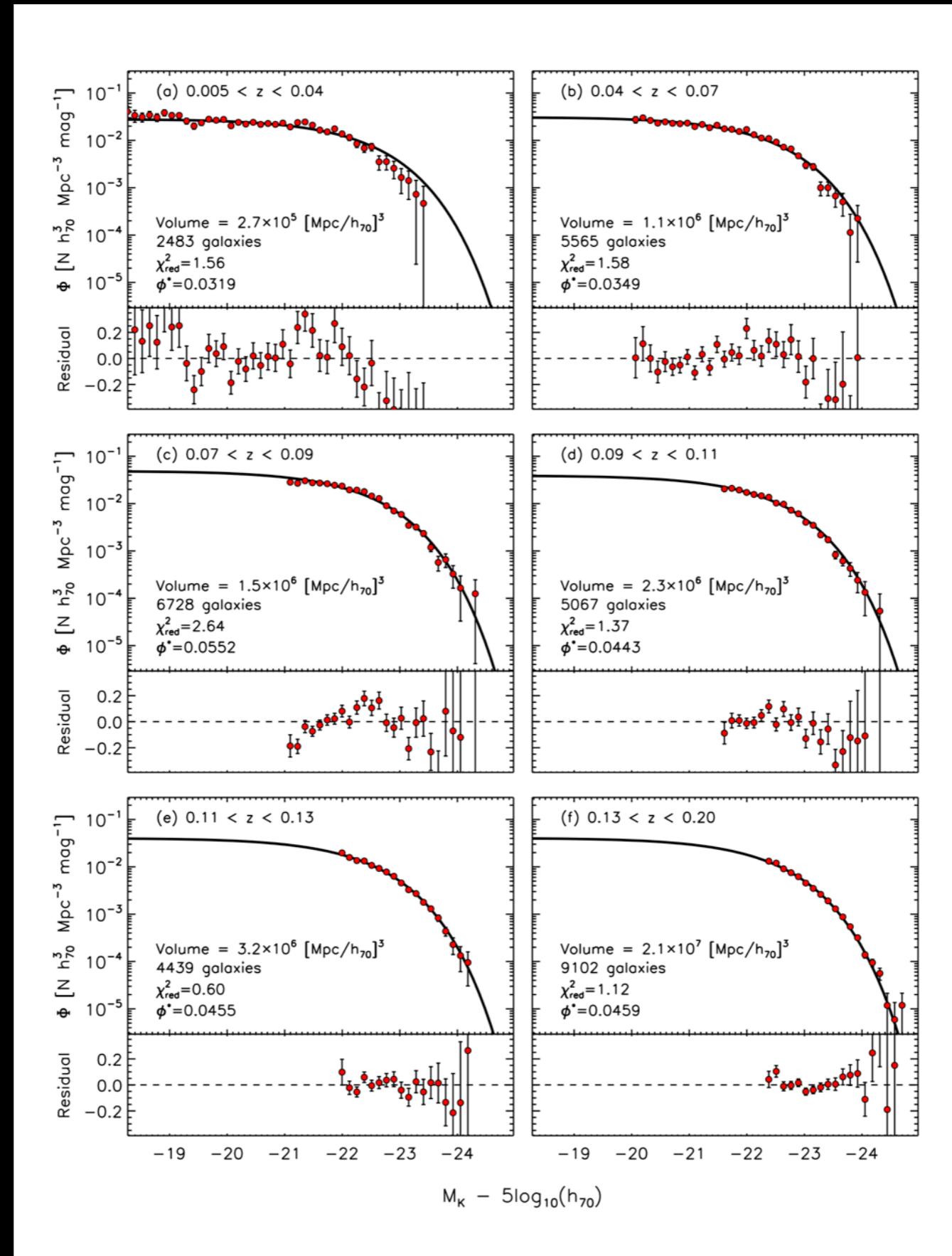
K-band (UKIDSS/2MASS) + Redshifts (SDSS, 2DF, 6DF, 2MR, GAMA)



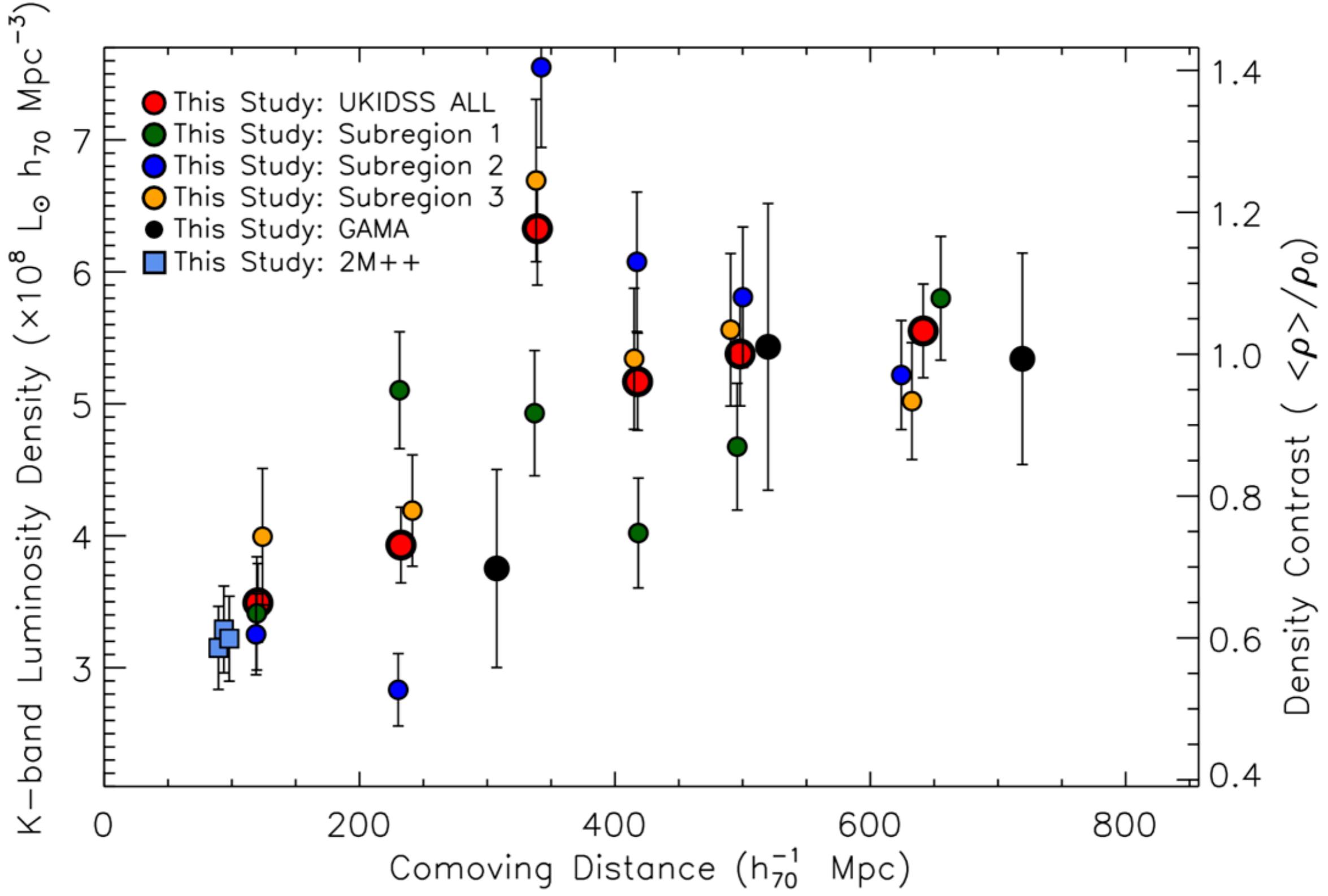
LF As a Function of Redshift



LF As a Function of Redshift



Luminosity Density vs. Distance



Luminosity Density vs. Distance

