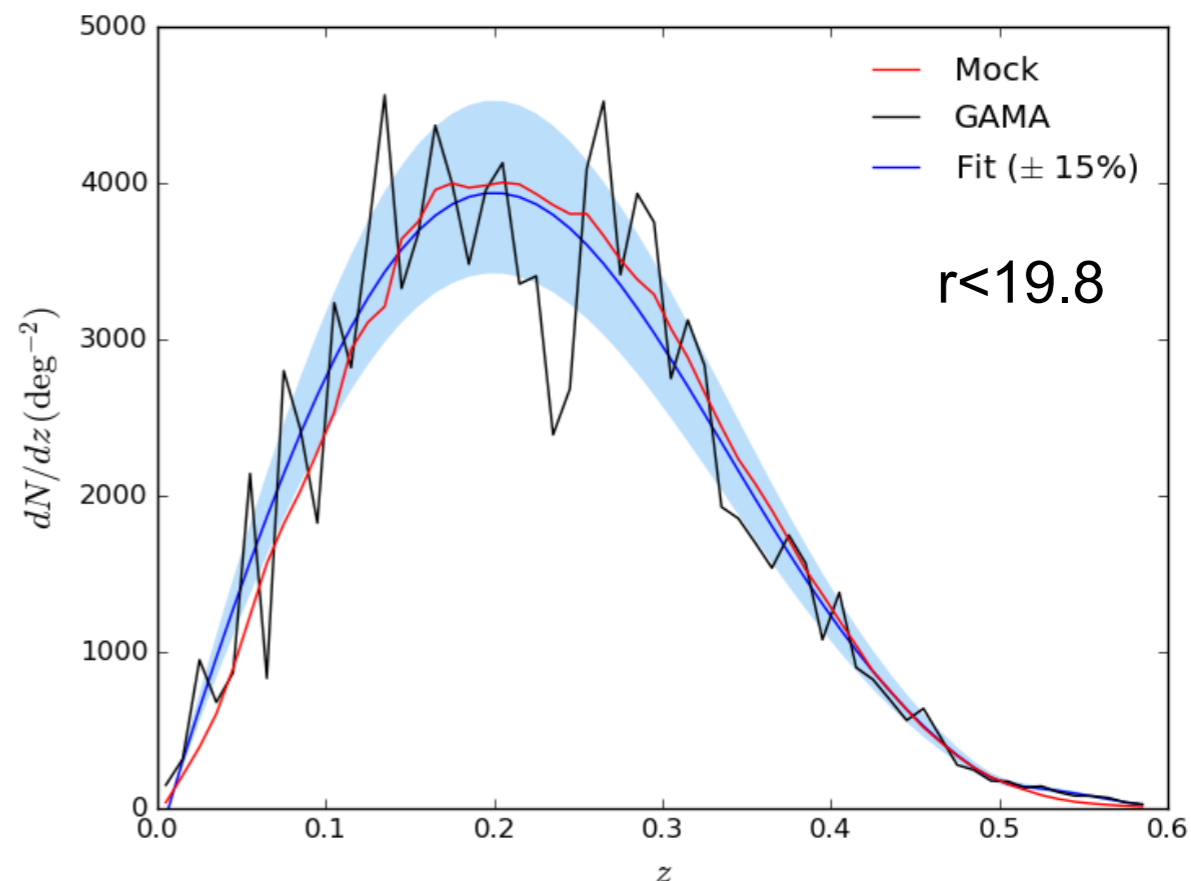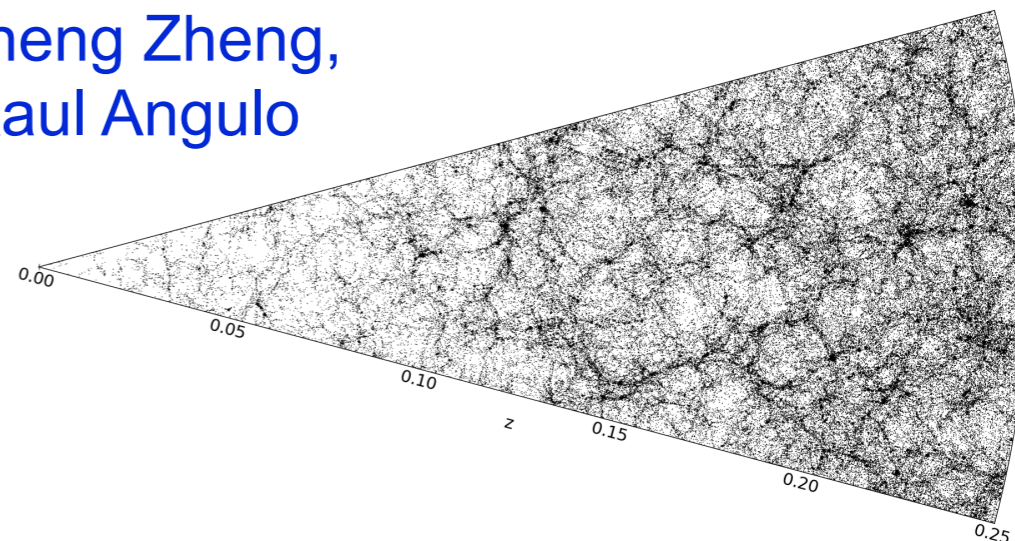# A Lightcone Catalogue from MXXL

Alex Smith

DEX, 10 Jan 2017
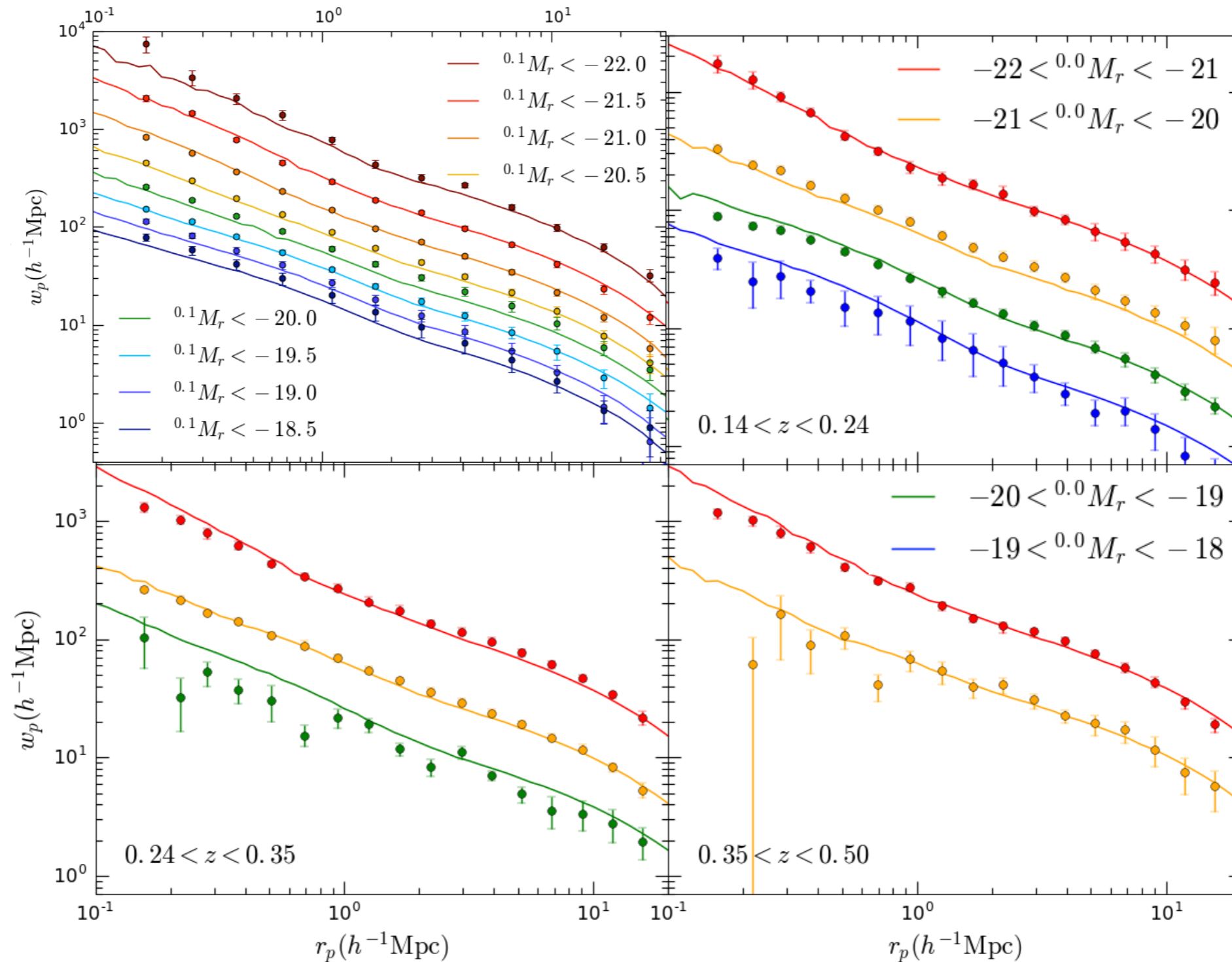
Shaun Cole, Carlton Baugh, Zheng Zheng,
Idit Zehavi, Peder Norberg, Raul Angulo

- Full sky HOD mock from MXXL simulation

- Complete to r=20

- Median redshift ~ 0.2

- Luminosity function agrees with SDSS (low z) and GAMA (high z)
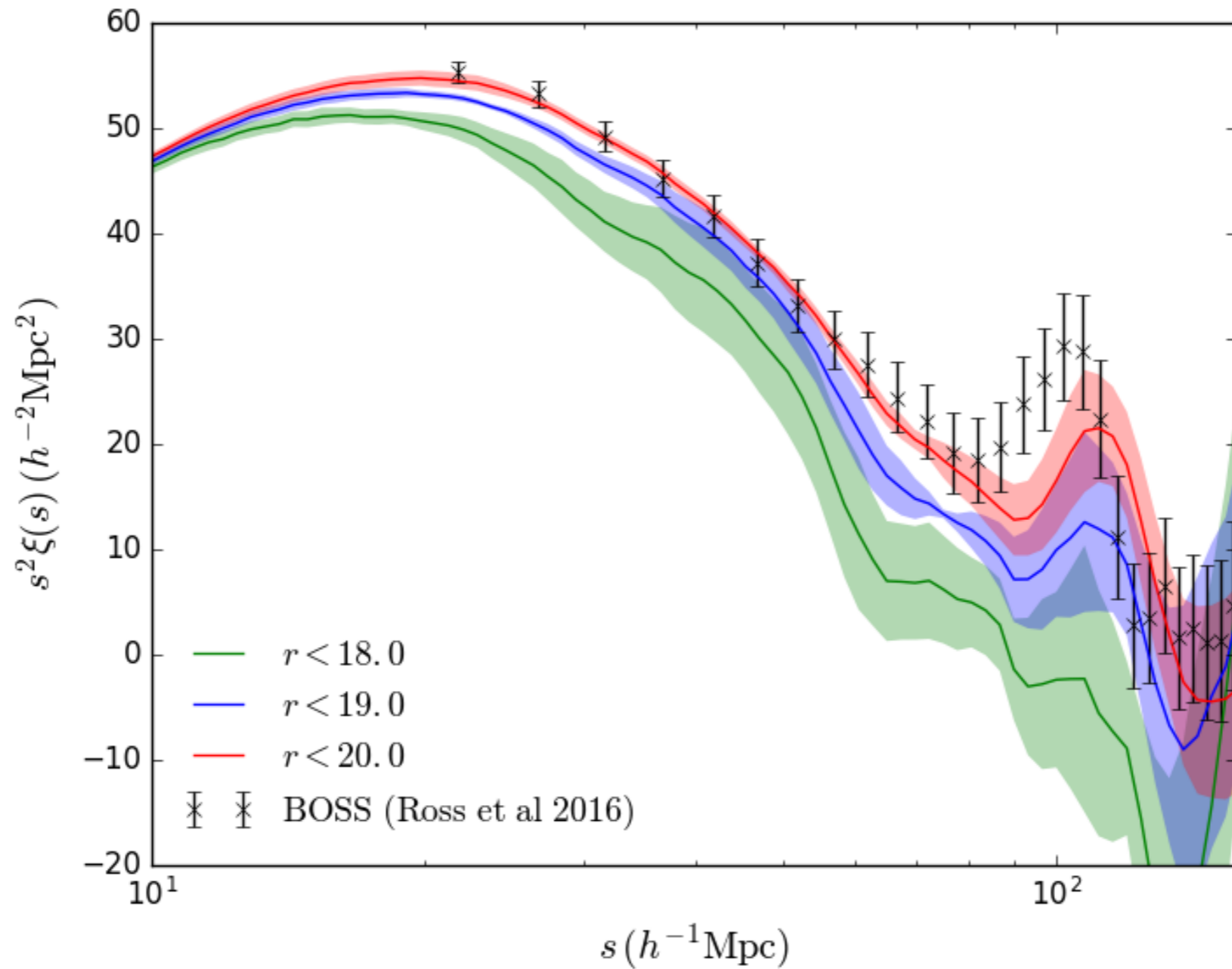
- Also contains g-r colours

Projected Clustering

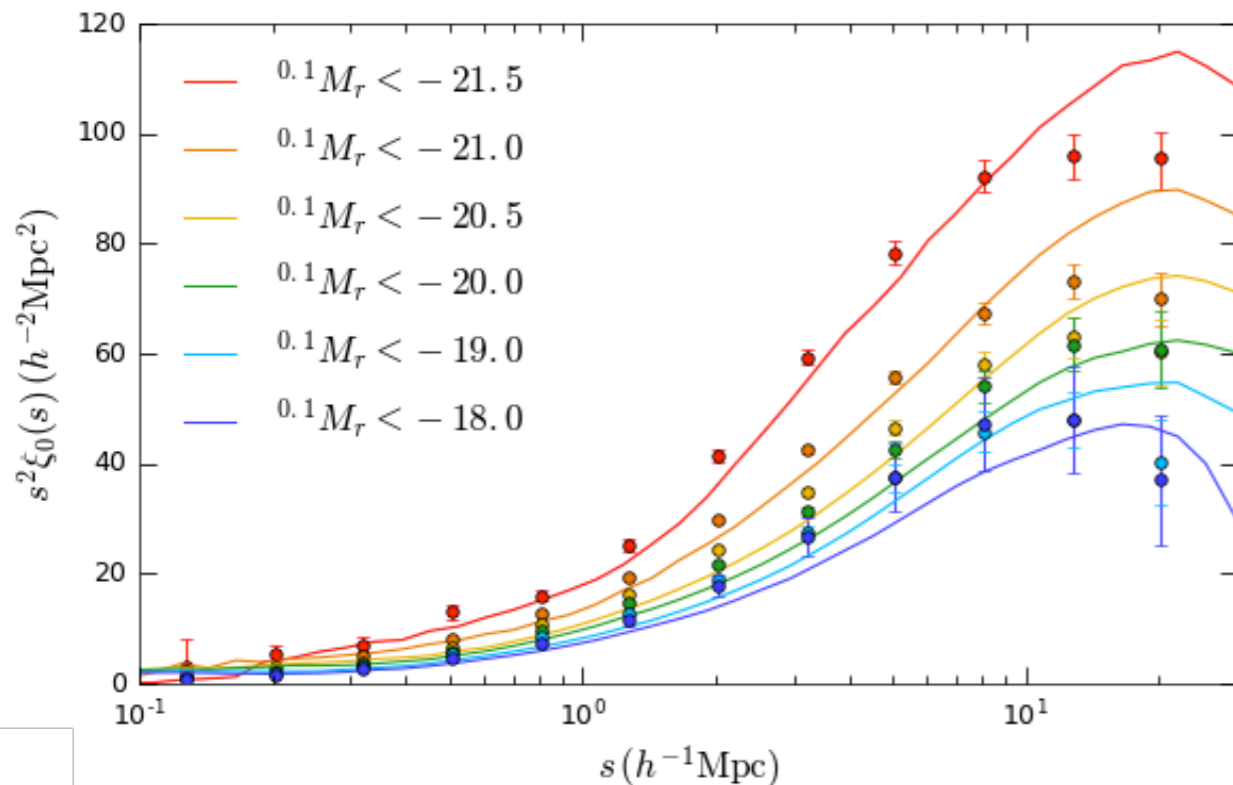## Compared to SDSS (Zehavi 2011) and GAMA (Farrow 2015)

BAO

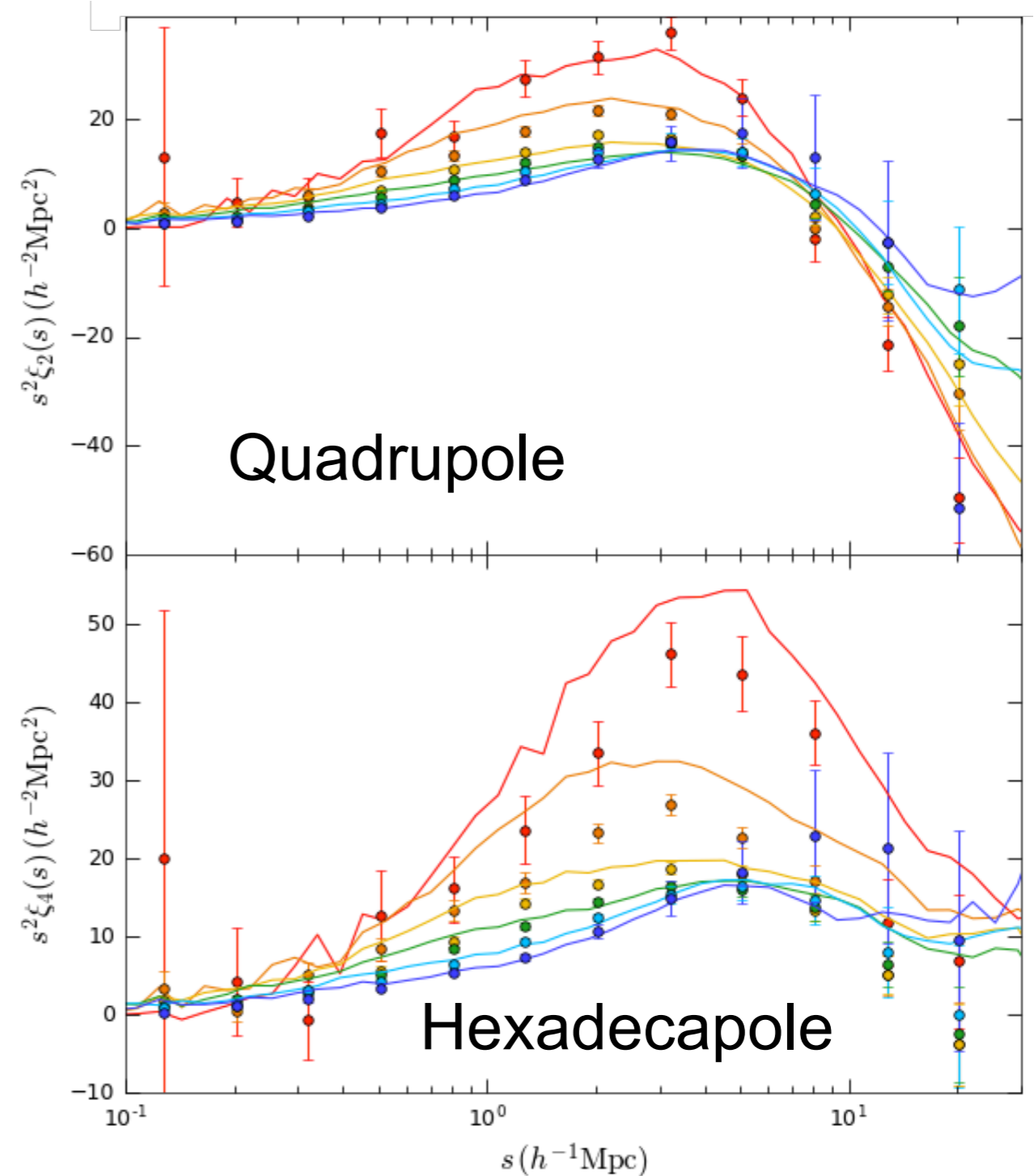Large scale clustering compared to BOSS (Ross 2016)

Redshift Space Distortions

Multipoles of redshift space correlation function
compared to SDSS (Guo 2015)