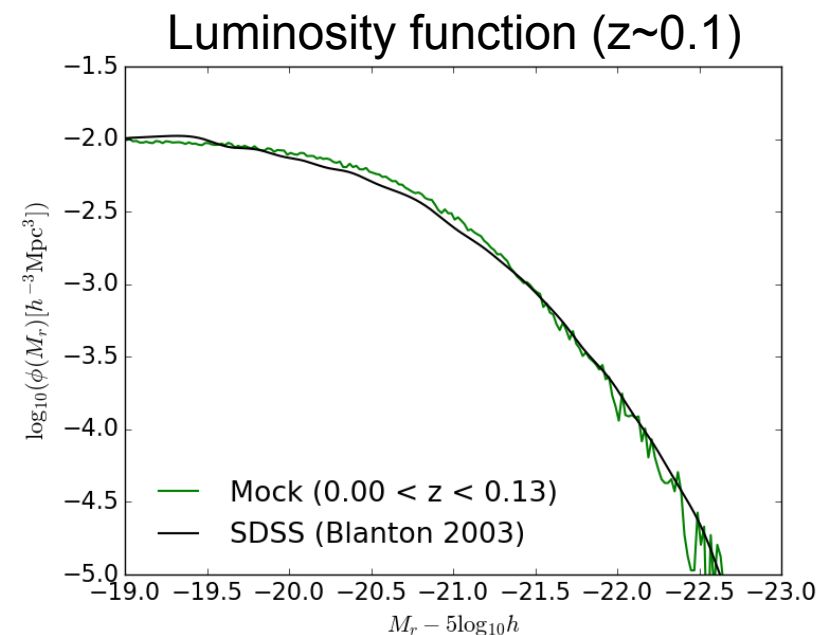
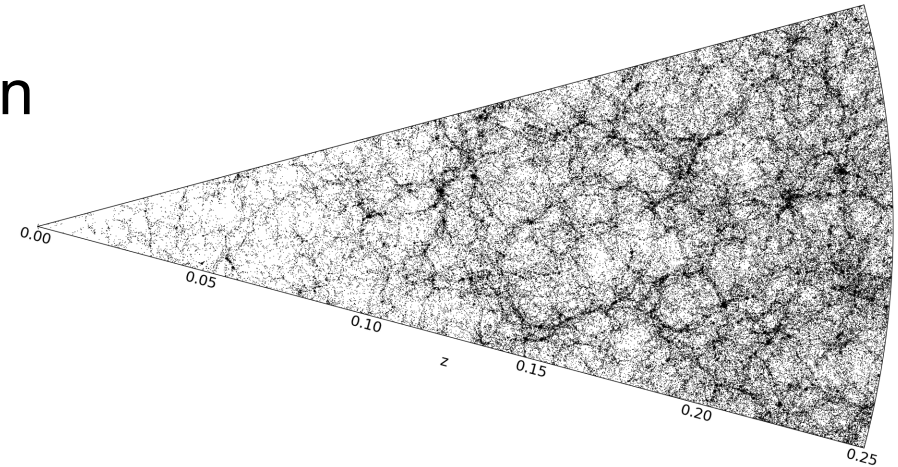


MXXL Mock Catalogue

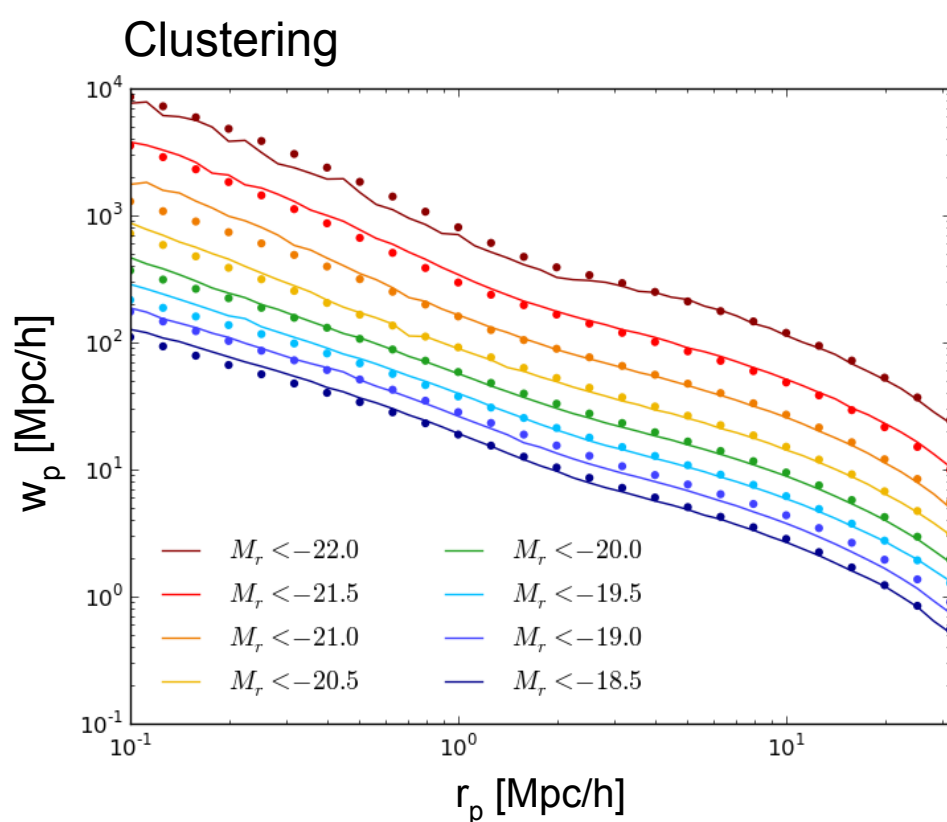


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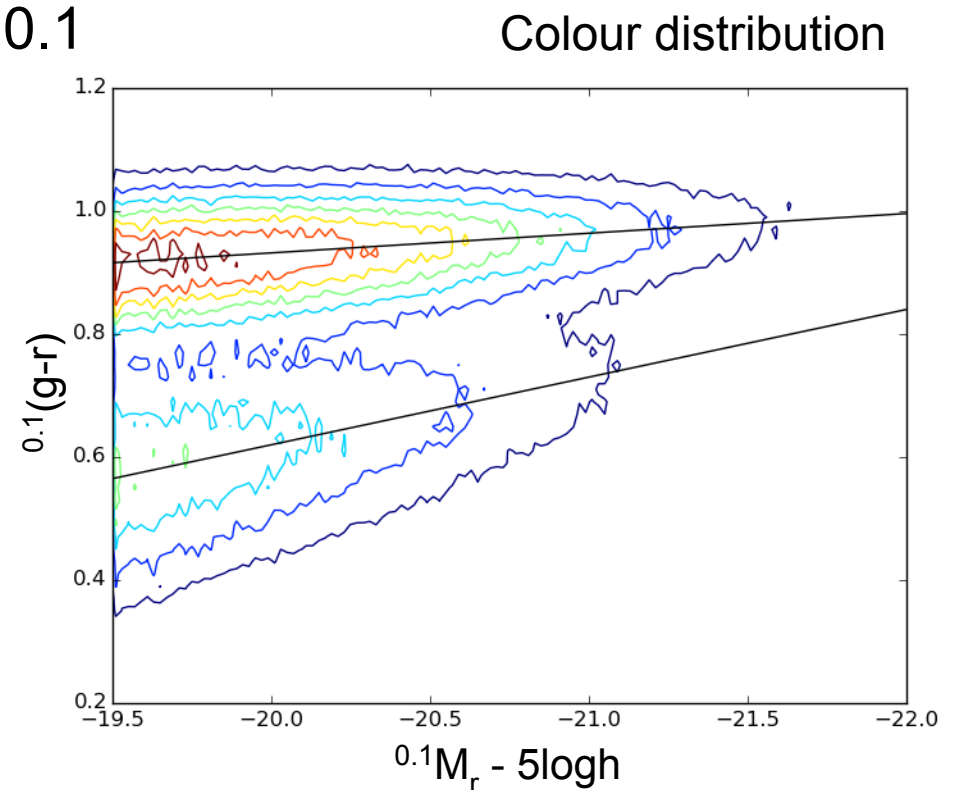
- Millennium-XXL (MXXL) simulation
 - Box size 3Gpc/h
 - Particle mass $8.456e9$ Msol
 - 20 particle halo resolution
- Halo positions interpolated to make halo lightcone catalogue
- Lightcone reaches $z \sim 0.5$ without periodic replications of box
- Haloes populated with galaxies using best fit SDSS HODs



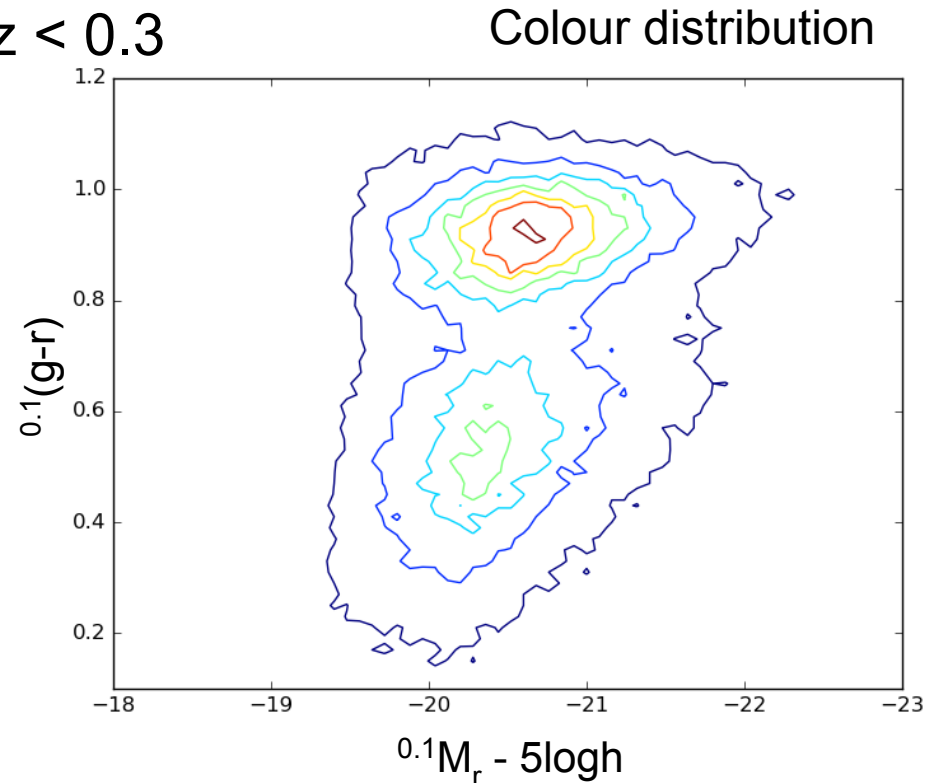
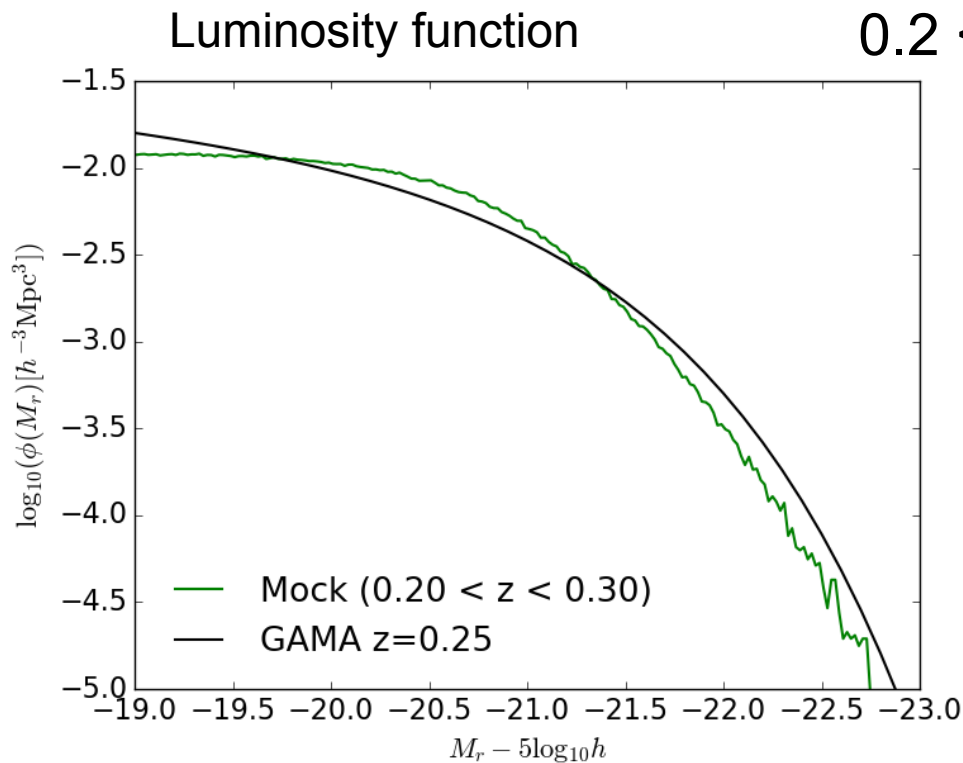
- Assign $^{0.1}M_r$ magnitudes (Skibba et al 2006)
- Assign $^{0.1}(g-r)$ colours (Skibba & Sheth 2009)
- Good agreement with SDSS clustering and colour distribution



$z \sim 0.1$



- Evolve HODs with redshift to reproduce GAMA LF evolution
- Evolve colour distribution to reproduce GAMA



- Catalogue complete to $r=19.8$ for $z > 0.1$
- Incomplete for $z < 0.1$ due to MXXL resolution

