

COMBINING GALAXY GALAXY LENSING AND CLUSTERING

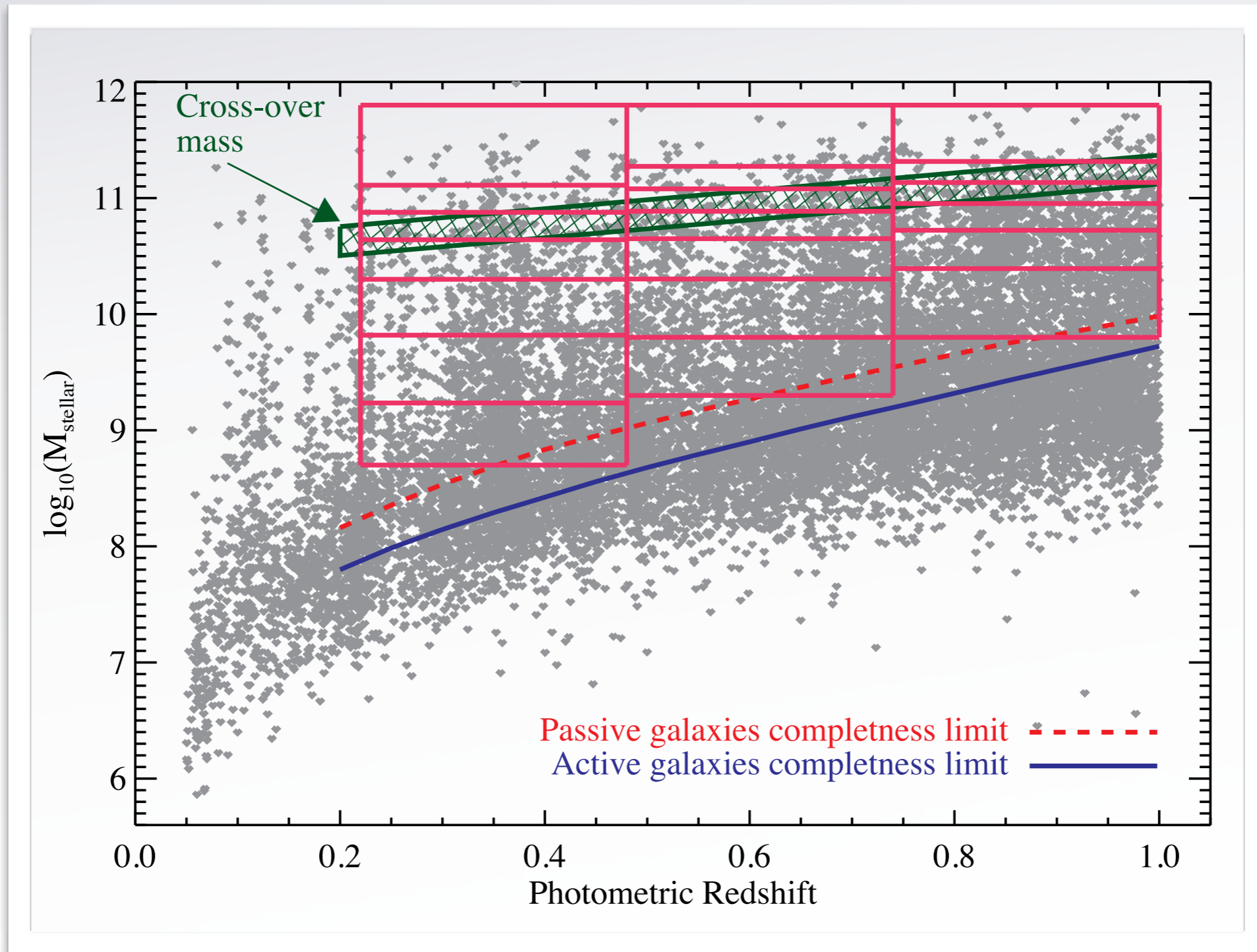
Alexie Leauthaud

LAWRENCE BERKELEY NATIONAL LAB

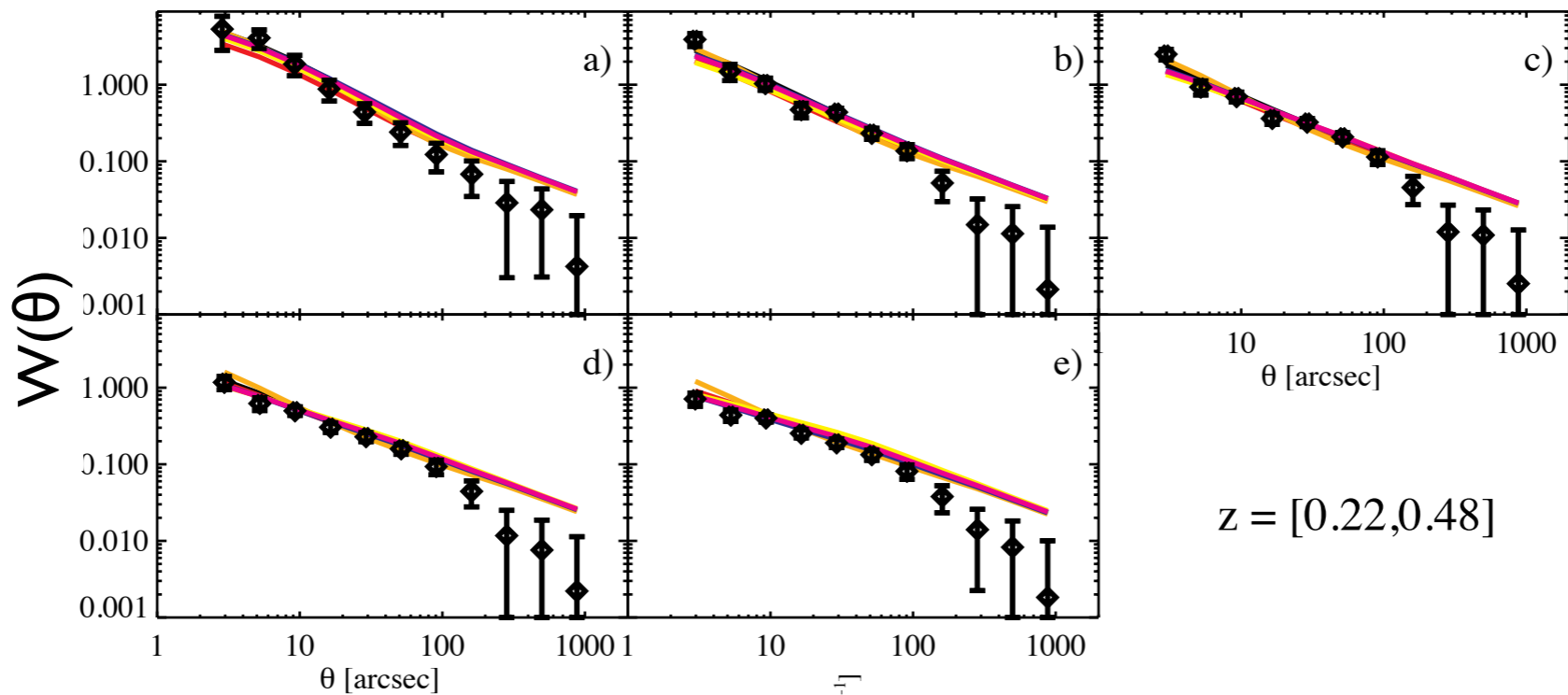
With:

Jason Rhodes, Richard Massey, Jeremy Tinker, Jean-Paul Kneib, Peter Capak, Kevin Bundy, Olivier Ilbert, Adam Amara, Matt George, James Taylor, Tim Schrabback. Olivier Le Fevre, Anton Koekemoer, Simon Lilly, Henry J. McCracken, Mara Salvato, Nick Scoville and the COSMOS collaboration

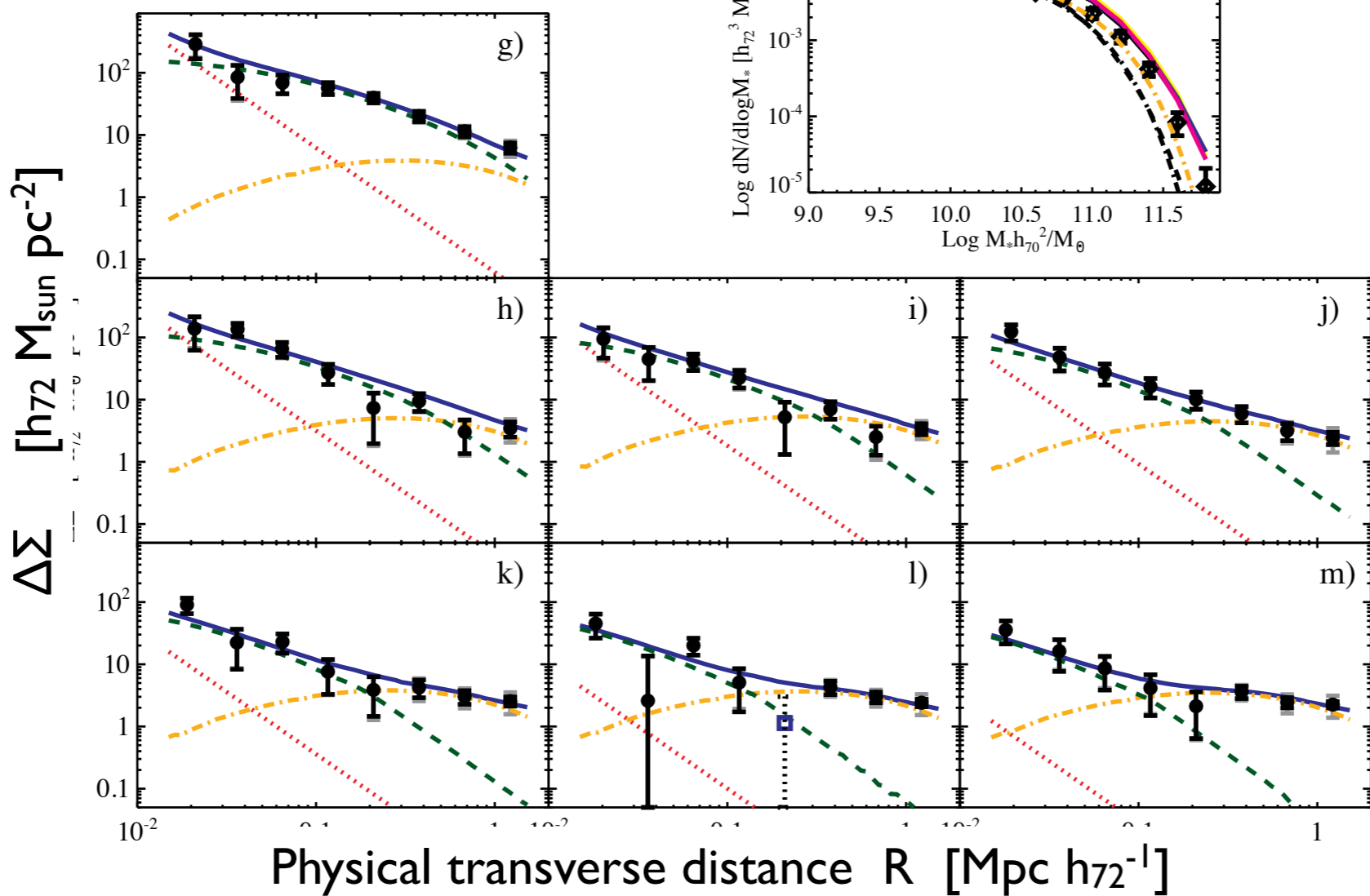
Stellar mass distribution in COSMOS



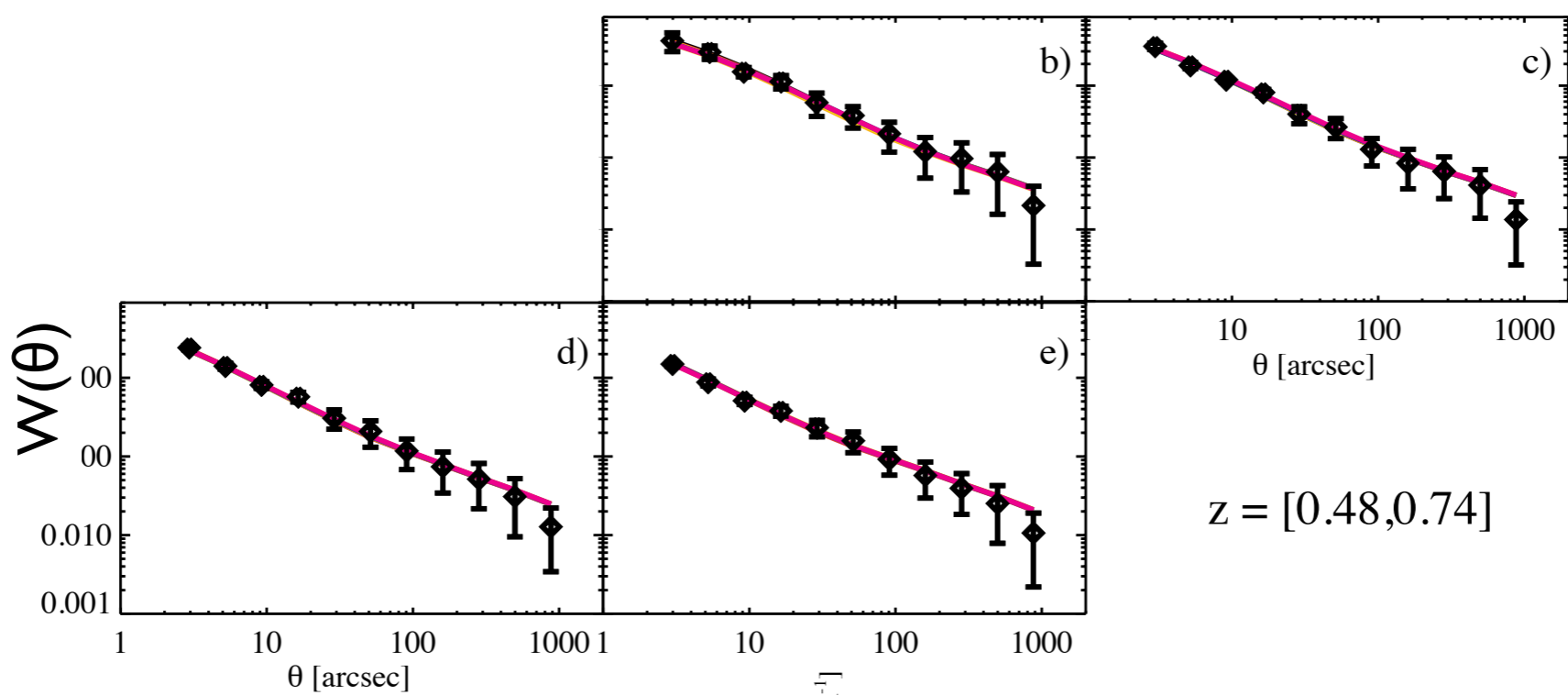
Clustering



Galaxy-galaxy lensing

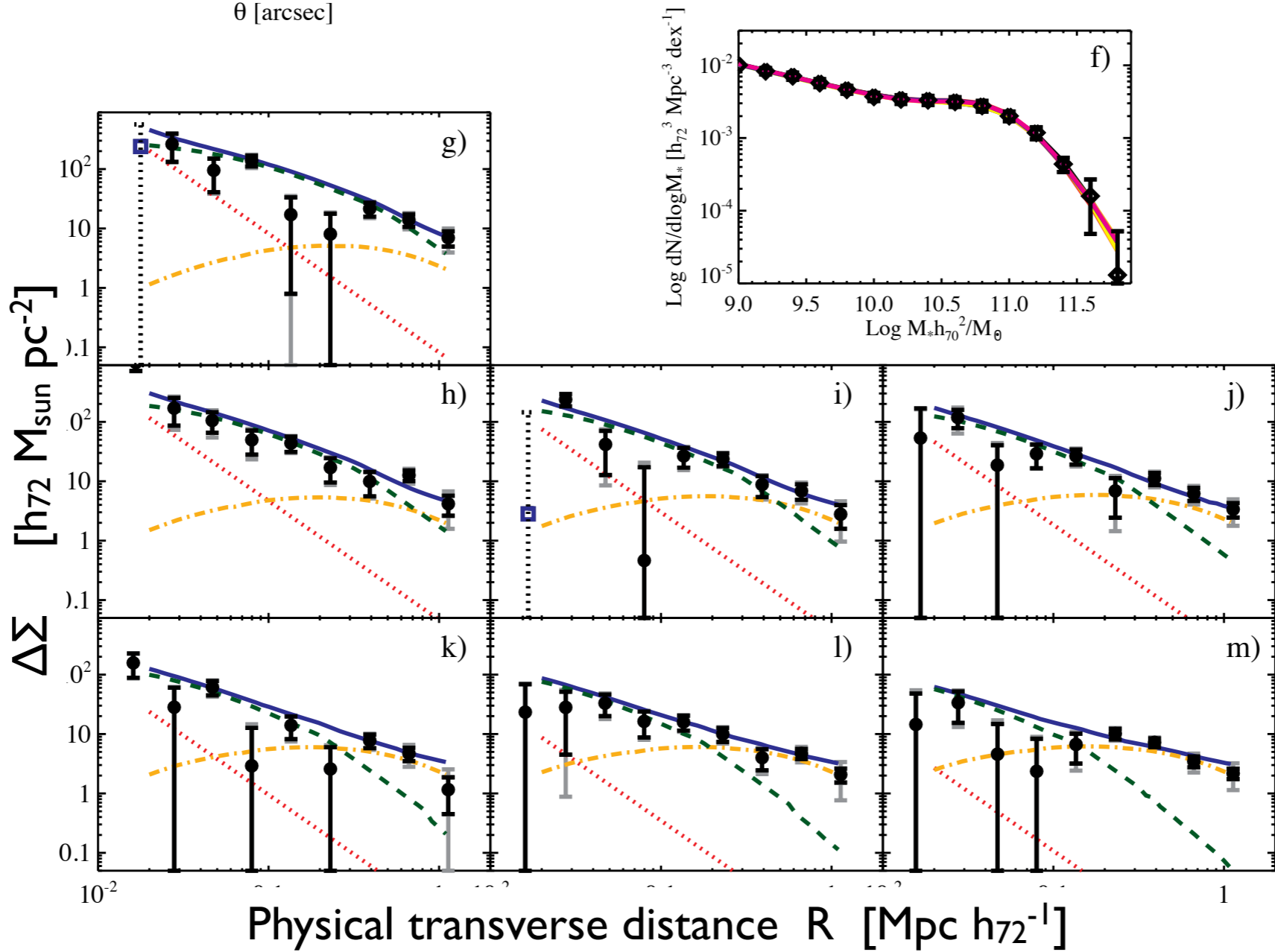


Clustering



Work in Progress

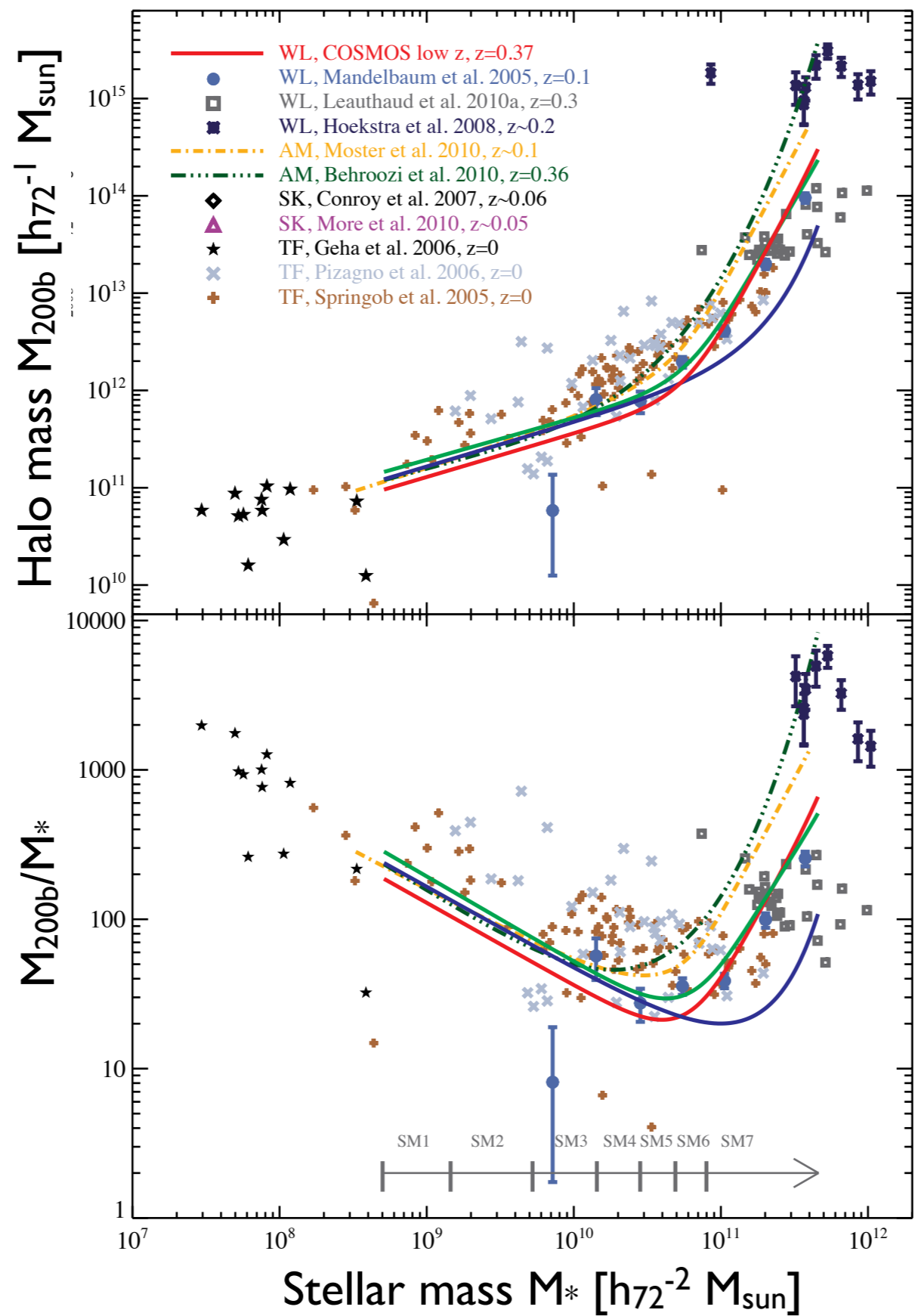
Galaxy-galaxy lensing



Stellar mass function

Stellar mass vs Halo mass

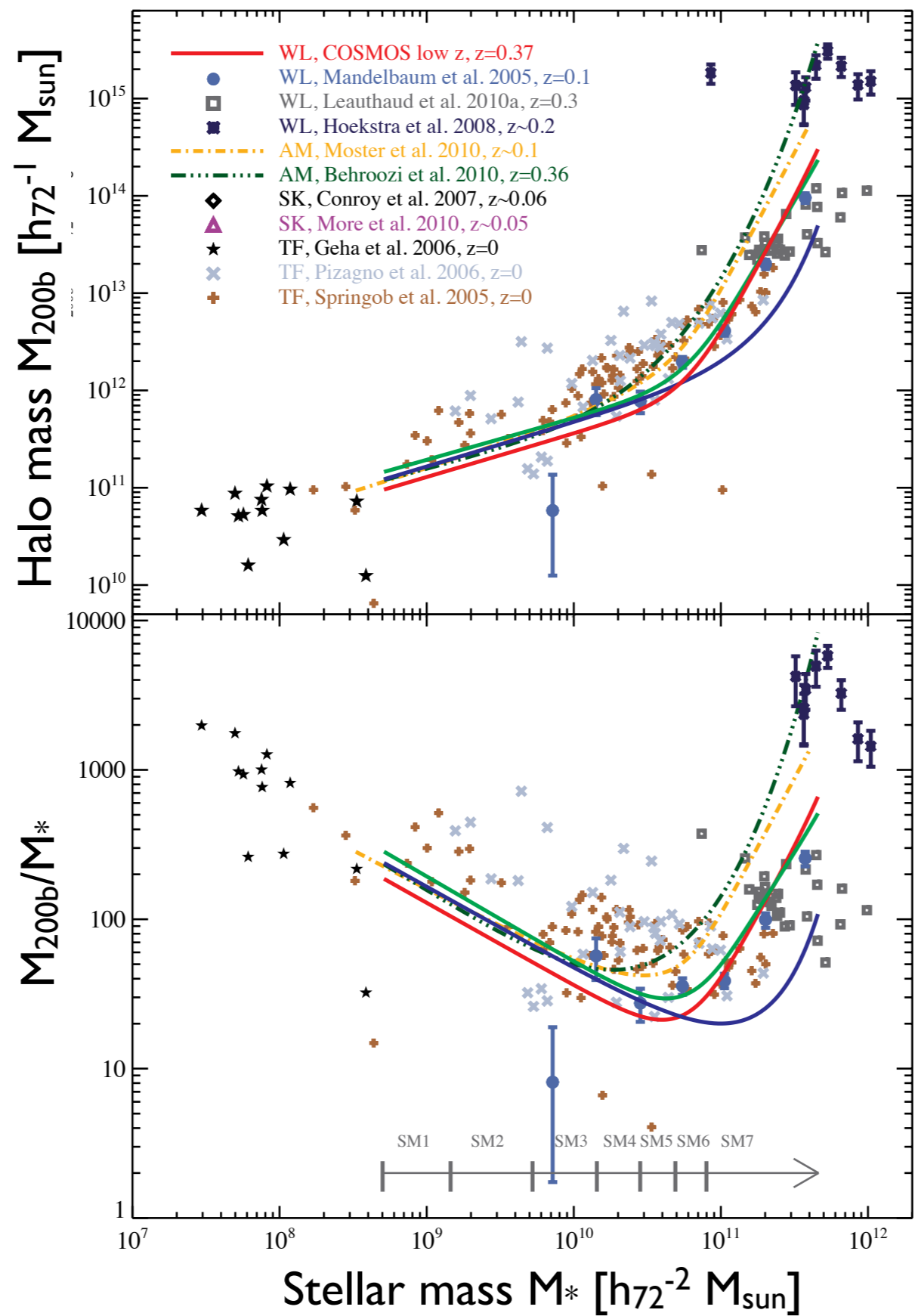
Work in Progress



Star formation efficiency

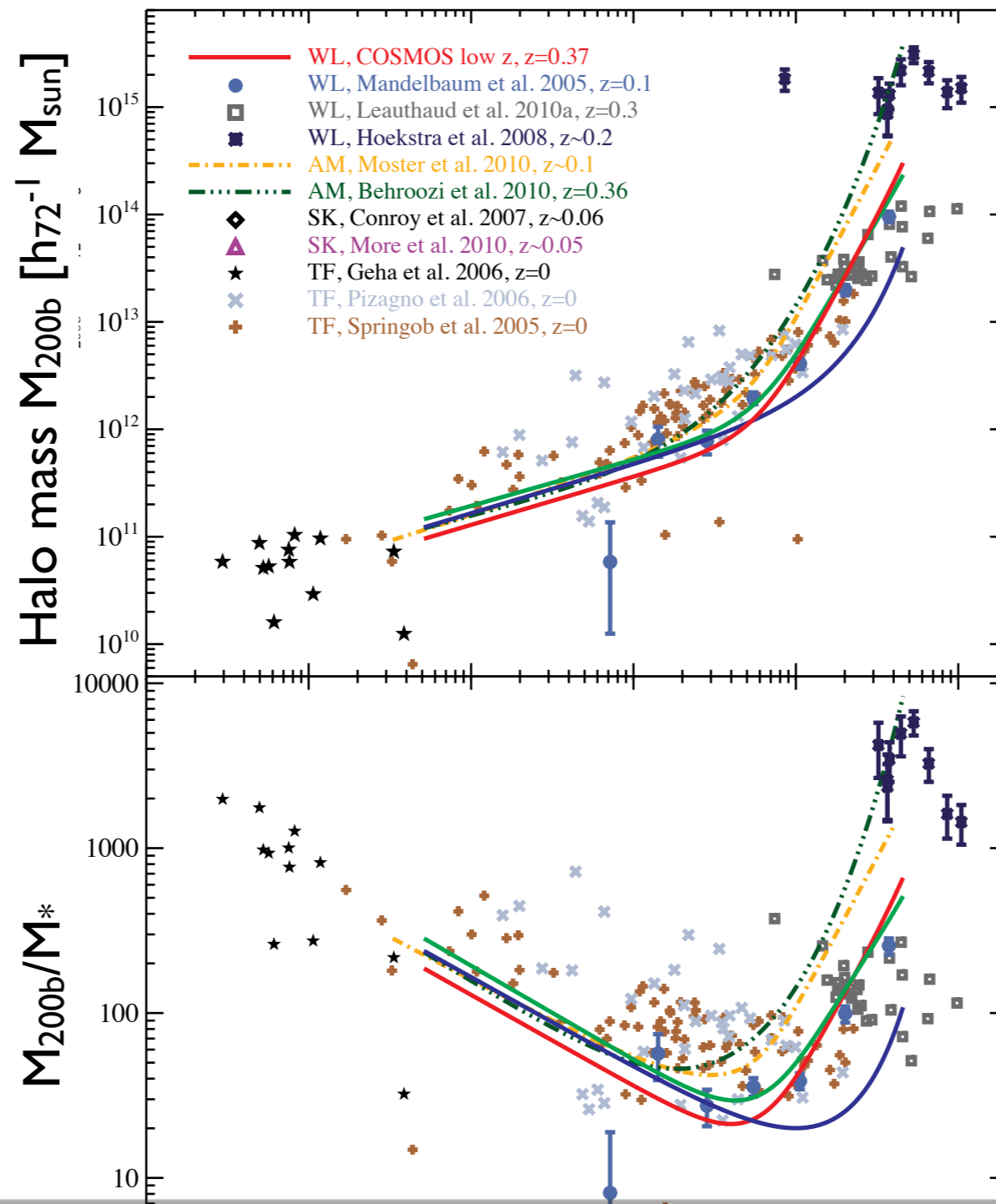
Stellar mass vs Halo mass

Work in Progress



Stellar mass vs Halo mass

Work in Progress



Next steps:

- 100 light cones per redshift slice from Las Damas for sample variance
- Shear calibration with STEP like simulations (with Jason Rhodes and Richard Massey)

THANKS !