

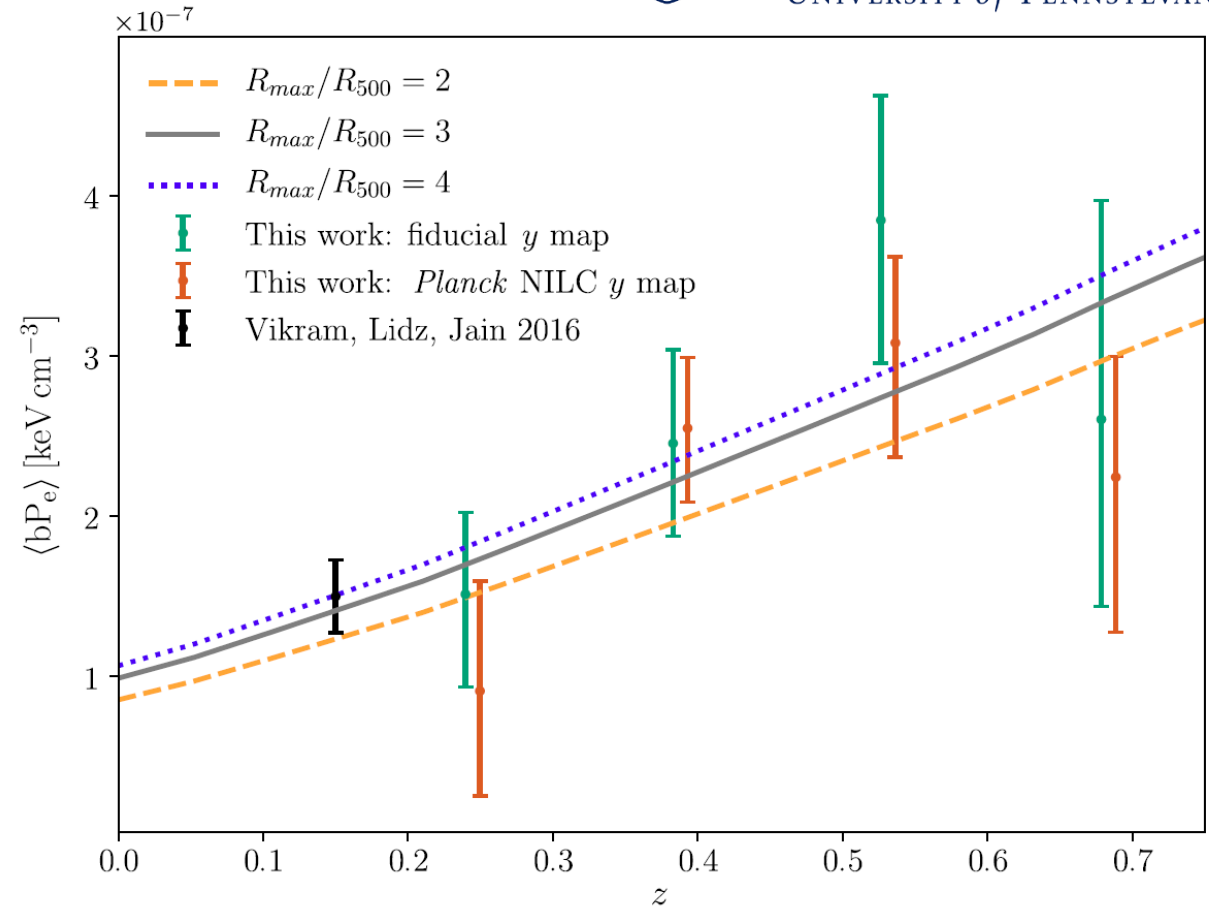
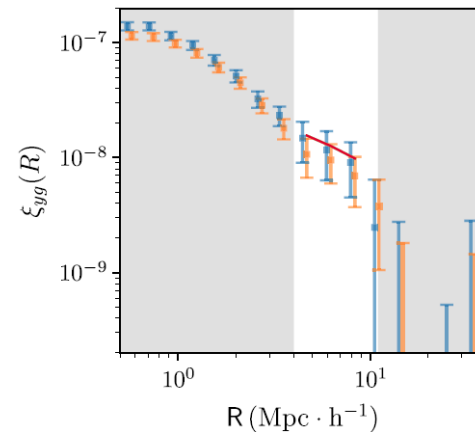
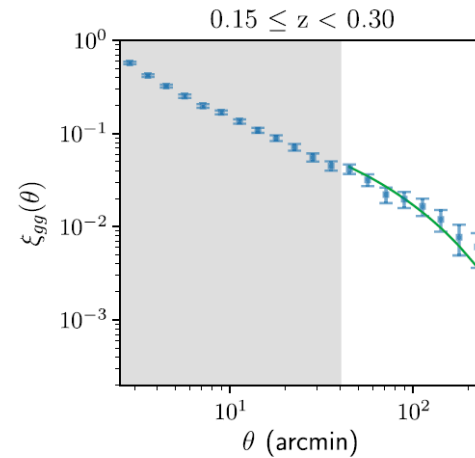
Galaxy X Compton y -map with ACT and DES

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- SZ Compton y -map (Planck/ACT)
 - Hot gas pressure
 - Feedback
 - Redshift insensitive
- Galaxy (DES)
 - Photometric redshift
- Systematics Check (CIB etc.)
- Results
 - Halo-biased pressure as a function of redshift
 - Halo energy vs gravitational collapse
- Future: CMB-S4 X DESI/LSST etc.



First try with Planck y -map and DES Y1 data (Pandey, Baxter, Xu et al. 2019)