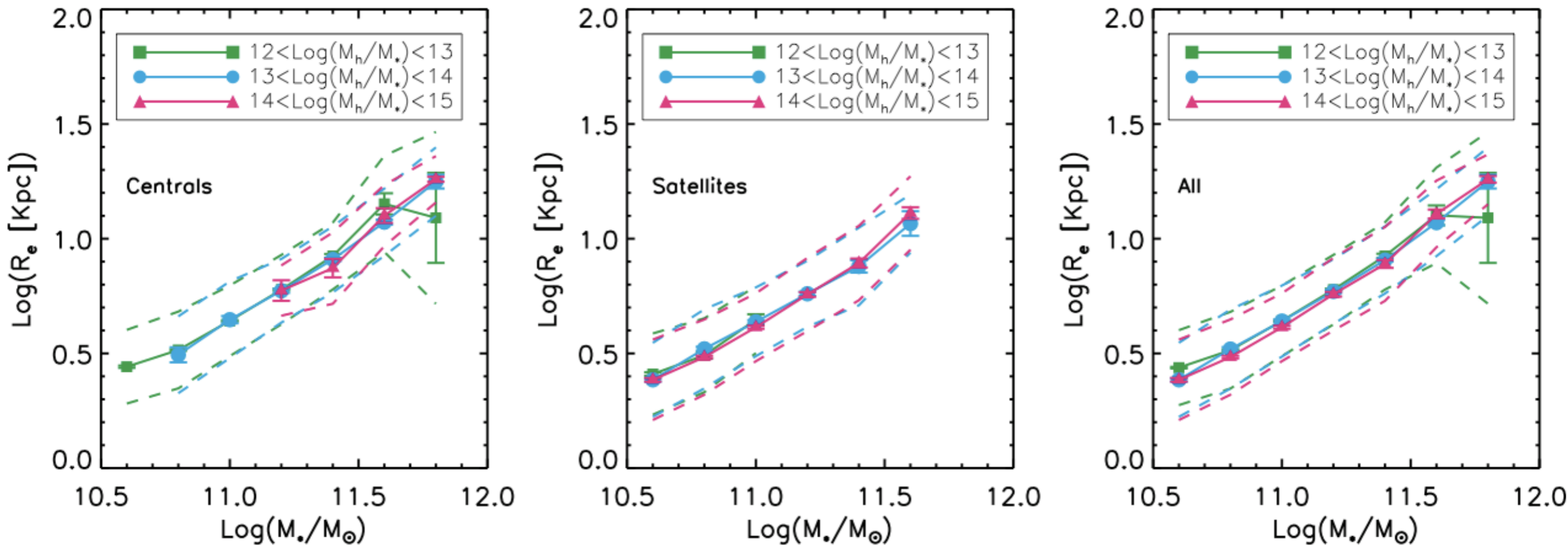


Size, Mass and Environment

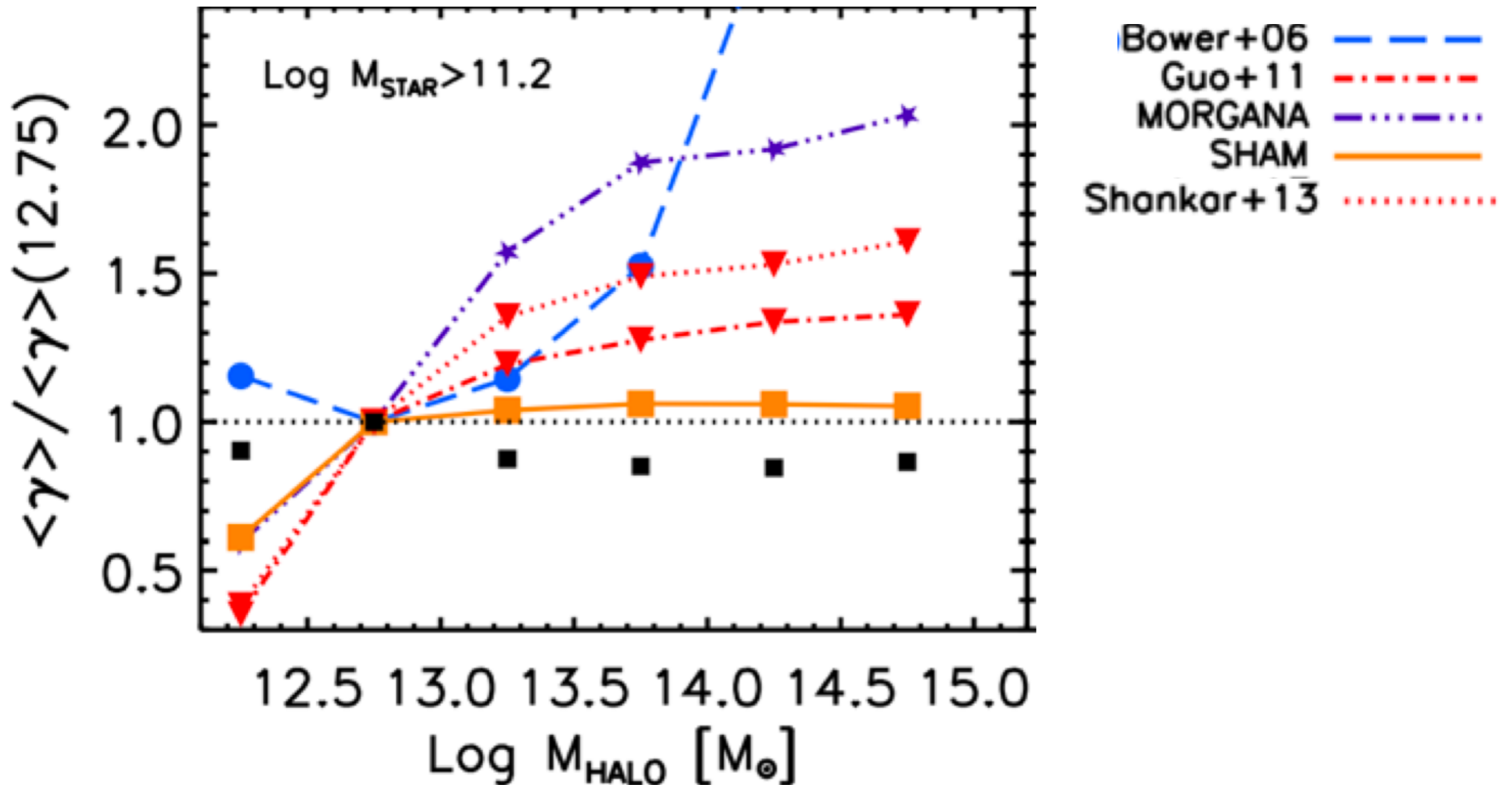
(Huertas-Company, Mei et al. 2013; Huertas-Company, Shankar, Mei et al. 2013)



$z \sim 0$ SDSS

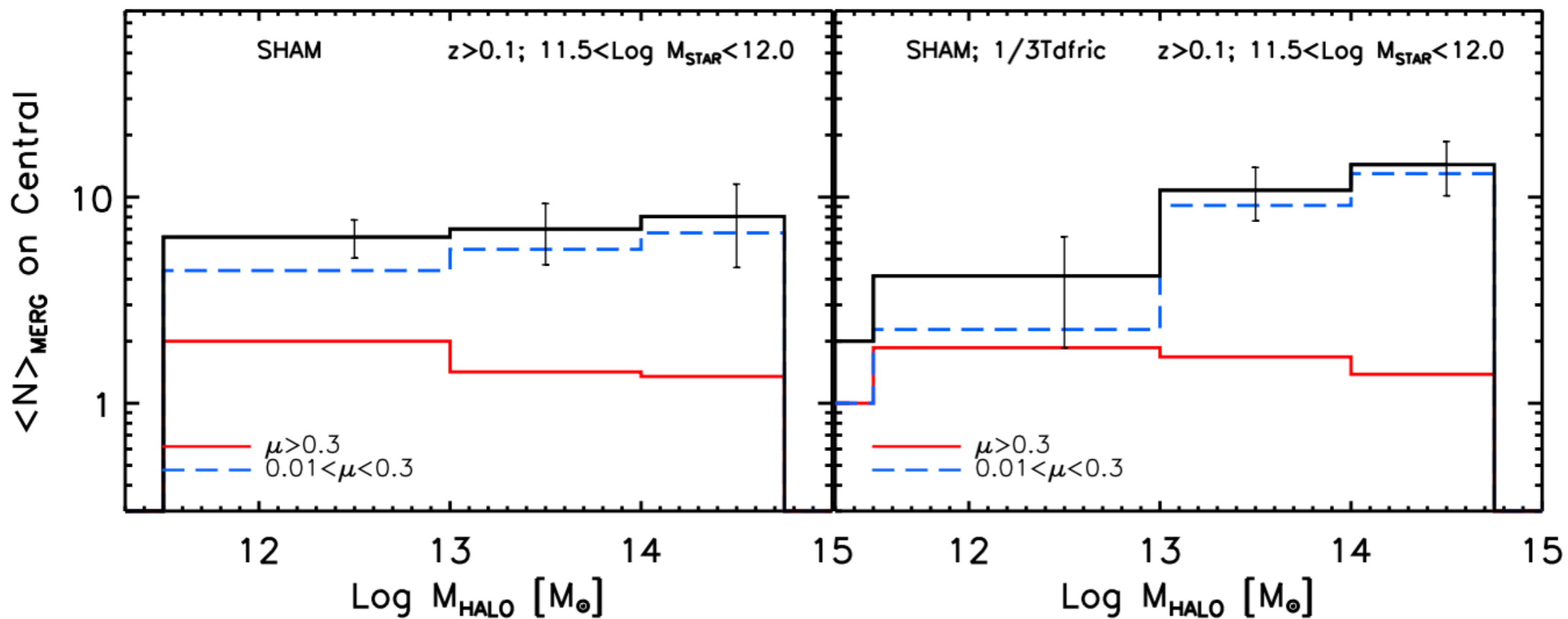
Yang et al. 2007 group sample; sizes from Bernardi et al. 2012

Central Massive ($M > 10^{11} M_{\text{sun}}$) ETG sizes Hierarchical Model Predictions



Central Massive ETG sizes and mergers

(Shankar, Mei, Huertas-Company et al. 2014)



10. Predicted cumulative mean number of mergers on the central galaxy as a function of host halo mass at $z = 0$. Marked with *blue-dashed* and *red, solid* lines are the cumulative number of minor and major mergers down to $z = 0$, respectively, with the *black, solid* line the sum of the two. The *vertical bars* indicate the 1σ uncertainties on the total number of mergers in each bin of halo mass.

Massive ETG Size Evolution and Environment

(Mei et al. 2015; Delaye, Huertas-Company, Mei et al. 2014)

