

Conclusions The results show that we can constrain the scatter using the correlation function although we still have to study the effects of the photometric errors and the error covariance for the correlation function. The next steps are combine the likelihood for the bias with the likelihood for the number of clusters as a function of richness and redshift also predicted with the Halo Model. Therefore we could constrain the cosmological parameters and at the same time we calibrate the mass observable relation with the combined likelihood. Finally we want to apply this method to a real galaxy cluster catalog such as the MaxBCG. References:

CLEFENCES: Campa et al(In preparation) Cluster bias: Manera & Gaztañaga, Arxiv:0912.0446 Halo Model of large scale structure: A. Cooray & R. Sheth, astro-ph: 0206508 Self Calibration of dark energy studies: Lima & Hu 2005, 2007 Correlation function of galaxy cluster with MaxBCG:Estrada et al. 2009.