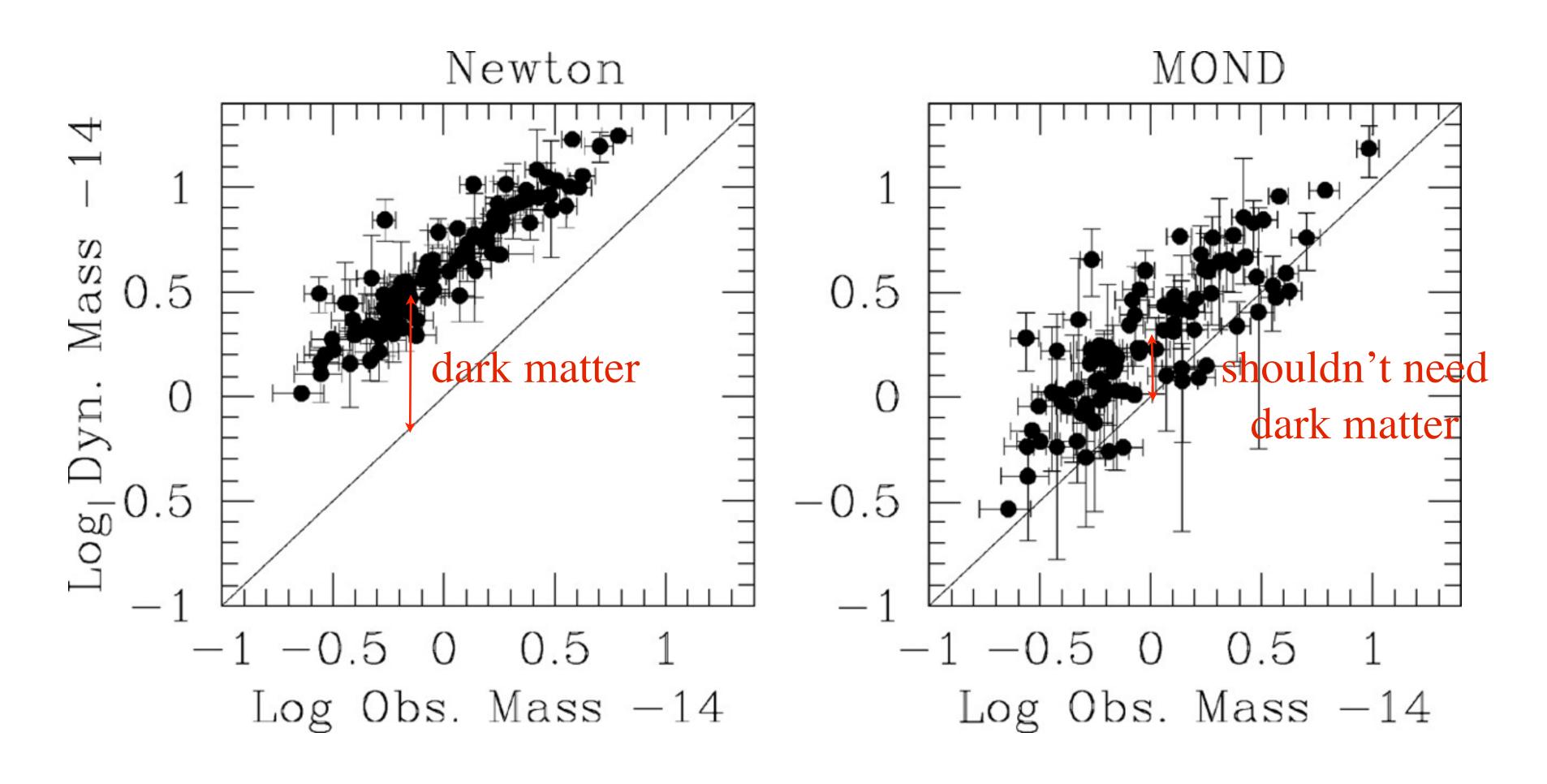
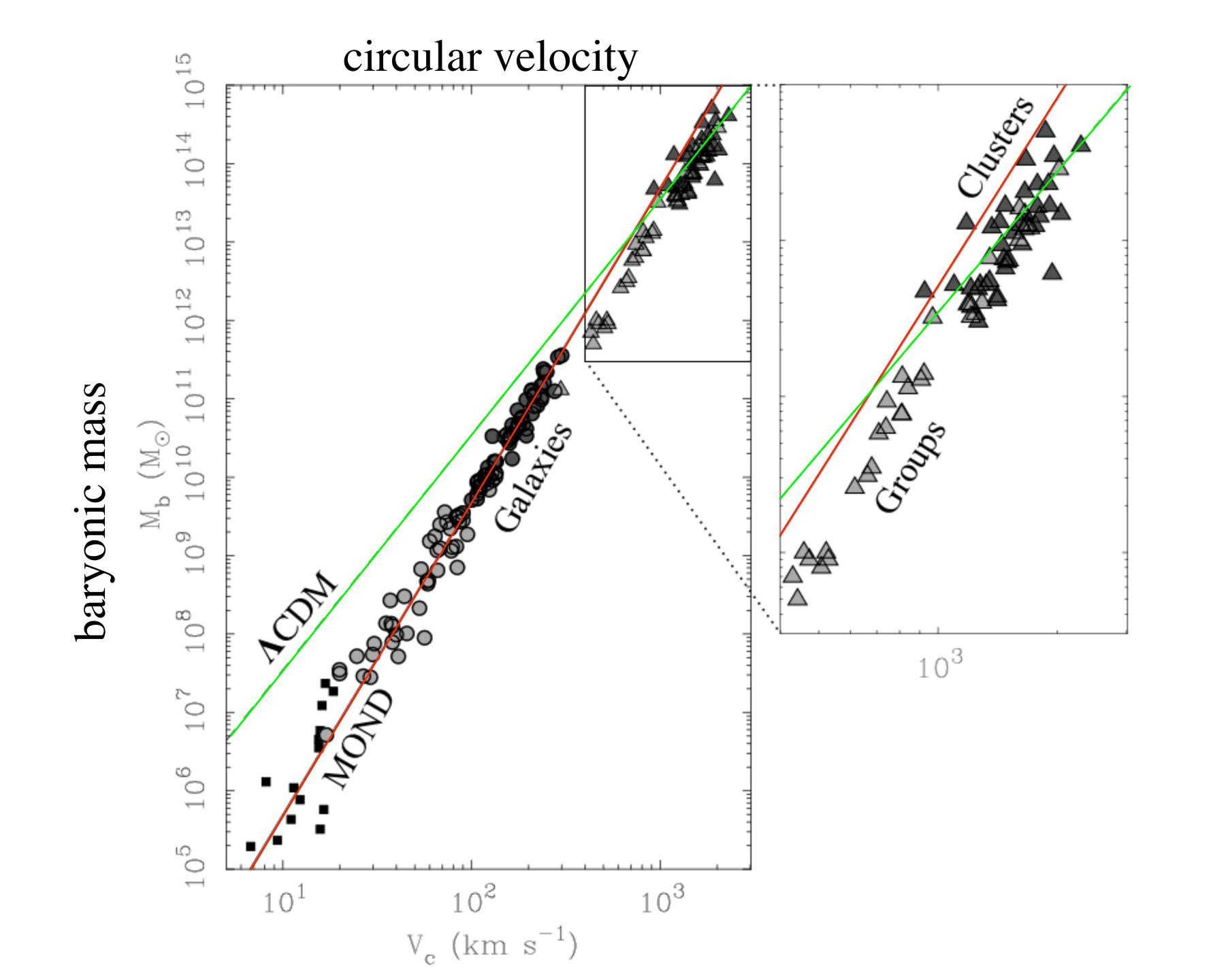
Clusters of galaxies

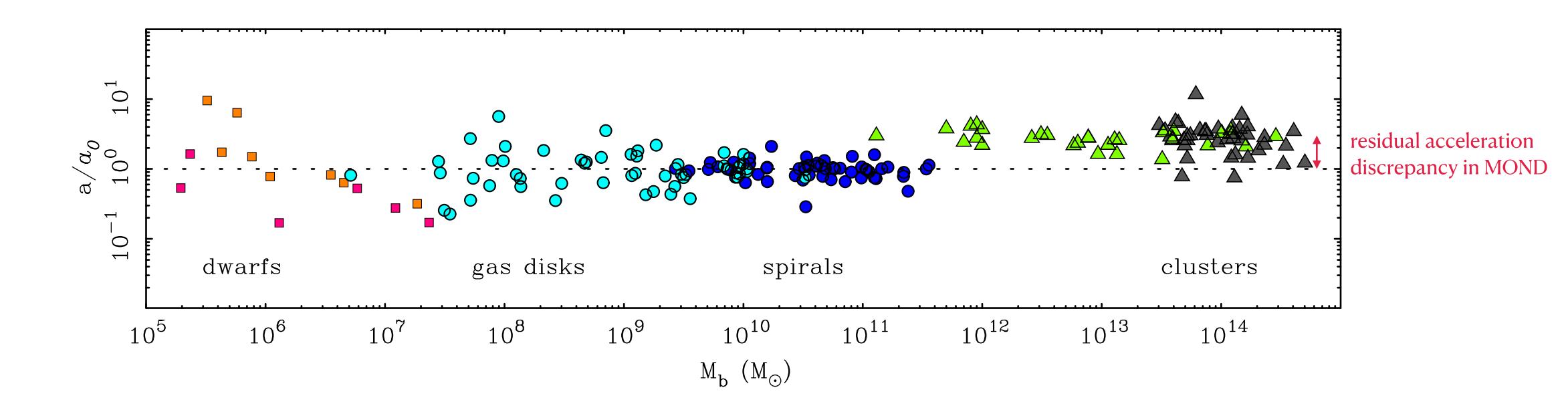
a persistent problem for MOND



(Sanders & McGaugh 2002)



Data for groups & cluster offset from MOND prediction, but slope pretty good over many decades in baryonic mass.



$$a_0 = 1.2 \times 10^{-10} \text{ m s}^{-2} \approx \frac{cH_0}{2\pi} \approx c\Lambda^{1/2}$$

 $\Sigma_{\dagger} = 860 \text{ M}_{\odot} \text{ pc}^{-2}$

