



$$\begin{aligned} & \text{LMC023} \\ & c = 14.1 \\ & \Gamma_{\text{dyn}} = 1.60 \times 10^9 \text{ M}_\odot/\text{Gyr} \end{aligned}$$

$$\begin{aligned} & \text{LMC002} \\ & c = 13.8 \\ & \Gamma_{\text{dyn}} = 2.69 \times 10^9 \text{ M}_\odot/\text{Gy} \end{aligned}$$

$$\begin{aligned} & \text{MW026} \\ & c = 13.3 \\ & \Gamma_{\text{dyn}} = 1.28 \times 10^{10} \text{ M}_\odot/\text{Gyr} \end{aligned}$$

MW042  
 $c = 9.3$   
 $\Gamma_{\text{dyn}} = 3.85 \times 10^{10} M_{\odot}/\text{Gyr}$

$$\begin{aligned} & \text{LCluster016} \\ & c = 8.3 \\ & \Gamma_{\text{dyn}} = 1.29 \times 10^{14} \text{ M}_\odot/\text{Gy} \end{aligned}$$

$$\begin{aligned} & \text{LCluster027} \\ & c = 5.5 \\ & \Gamma_{\text{dyn}} = 1.27 \times 10^{14} \text{M}_\odot/\text{Gy} \end{aligned}$$

Cluster068  
 $c = 5.4$   
 $\Gamma_{\text{dyn}} = 1.18 \times 10^{14} \text{ M}_\odot/\text{Gyr}$

Cluster021  
 $c = 4.7$   
 $\Gamma_{\text{dyn}} = 3.04 \times 10^{14} \text{ M}_\odot/\text{Gyr}$



$$\log_{10} \tilde{Q}_r = \log_{10} \frac{\rho/\rho_m}{(\sigma_r/v_{\text{vir}})^3}$$