

$$\rho \sim \frac{1}{z^\beta}$$

$$M(R) \sim \int_0^R \rho dz \sim R^{-\beta+1}$$

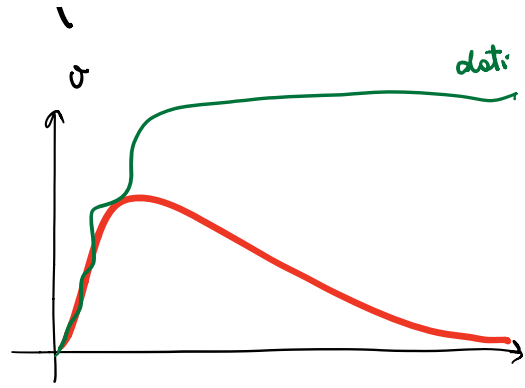
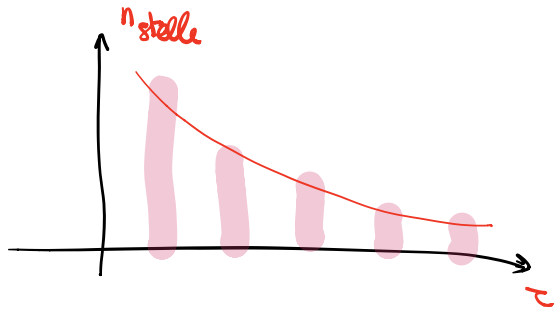
$$M \sim \sqrt{R} \quad \rho \sim \frac{1}{\sqrt{R}}$$

$$F \sim \frac{M_0}{R^2} + \alpha \frac{M(R)}{R^2} = \tilde{m} \cdot \frac{a_c}{v^2/R} = \tilde{m} \omega^2 R$$

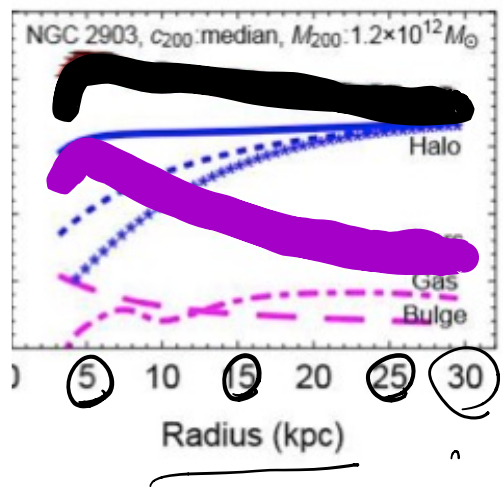
$\frac{M}{s} / s$

$$\alpha = 0 \quad v^2 = \frac{M_0}{R}$$

$$\alpha \gg 1 \quad v^2 = \frac{M(R)}{R} = \begin{cases} \text{const} & \Rightarrow M \sim R \\ \propto R & \Rightarrow M \sim R^2 \\ \dots & \dots \end{cases}$$



$\sigma(r)$



FINE