

$$\Delta v_R = - \int_{-\infty}^{\infty} \frac{d\Phi}{dr} \frac{R}{v} dt = - \frac{2R}{V} \int_0^{\infty} \frac{d\Phi}{dr} \frac{dZ_p}{r}$$

gain of energy

$$\Delta E = - \int_{-\infty}^{\infty} [\Phi(r, R)]^2 \Sigma(R) R dR$$

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$$F(Z, Z_1) = \frac{M_*( < Z)}{M_*( < Z_1)} = \frac{M_*(Z) - M_*(Z_1)}{M_*(Z) - M_*(Z_1)} = \frac{1 - \frac{M_*(Z_1)}{M_*(Z)}}{1 - \frac{M_*(Z_1)}{M_*(Z)}} \Rightarrow \frac{M_*(Z) - M_*(Z_1)}{M_*(Z) - M_*(Z_1)}$$

$$\Phi = \Phi_0$$

$$P(R) = \frac{1}{2\pi R} \left[ 1 - \left( 1 - \frac{R}{R_0} \right)^2 \right]$$

$$Q = \frac{1}{2\pi R} \left[ 1 - \left( \frac{R}{R_0} \right)^2 \right]$$

$$Q_1$$

$$Q$$

$$Q(R)$$

T. Padmanabhan

$$\Delta v_R = - 2R \frac{v_{\phi}^2}{V} \int_0^{\infty} \frac{dZ_p}{R^2 + Z_p^2} = - \frac{\pi v_{\phi}^2}{V}$$

# Relativity Theory Astrophysics Volume 3

**Tao Wei**



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