

cooling, growth, & acceleration

$$v_z = v_{\text{mix}} \left(\frac{L}{v_{\text{mix}} t_{\text{cool}}} \right)^{1/4}$$

$$\dot{E}_{\text{cool}} \propto P v_z$$

$$\dot{M}_{\text{cold}} \propto \rho_{\text{hot}} v_z$$

$$\dot{P}_{\text{cold}} \propto \rho_{\text{hot}} v_{\text{rel}} v_z$$

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