

c1

 $M_{tar} = 0.01M_{\oplus}$ $M_{tar} = 0.1M_{\oplus}$ $M_{tar} = 1.0M_{\oplus}$ $\gamma = 0.70$ $\gamma = 0.35$ $\gamma = 0.20$ $\gamma = 0.10$

$M_{tar} \quad \bar{\rho} = 3.47g/cm^3$ $\bar{h} = 6.90 * 10^6 cm$ 100104 particles $M_{imp} \quad \bar{\rho} = 3.47g/cm^3$ $\bar{h} = 6.93 * 10^6 cm$ 70139 particles $50\tau_{coll} = 39.67h \quad @ \quad v_{esc}$		$M_{tar} \quad \bar{\rho} = 3.47g/cm^3$ $\bar{h} = 6.90 * 10^6 cm$ 100104 particles $M_{imp} \quad \bar{\rho} = 3.62g/cm^3$ $\bar{h} = 7.08 * 10^6 cm$ 19994 particles $50\tau_{coll} = 36.05h \quad @ \quad v_{esc}$	
$M_{tar} \quad \bar{\rho} = 3.86g/cm^3$ $\bar{h} = 1.43 * 10^7 cm$ 100104 particles $M_{imp} \quad \bar{\rho} = 3.81g/cm^3$ $\bar{h} = 1.45 * 10^7 cm$ 70139 particles $50\tau_{coll} = 37.73h \quad @ \quad v_{esc}$	$M_{tar} \quad \bar{\rho} = 3.86g/cm^3$ $\bar{h} = 1.43 * 10^7 cm$ 100104 particles $M_{imp} \quad \bar{\rho} = 3.76g/cm^3$ $\bar{h} = 1.47 * 10^7 cm$ 35102 particles $50\tau_{coll} = 36.41h \quad @ \quad v_{esc}$	$M_{tar} \quad \bar{\rho} = 3.86g/cm^3$ $\bar{h} = 1.43 * 10^7 cm$ 100104 particles $M_{imp} \quad \bar{\rho} = 3.78g/cm^3$ $\bar{h} = 1.50 * 10^7 cm$ 19994 particles $50\tau_{coll} = 34.57h \quad @ \quad v_{esc}$	$M_{tar} \quad \bar{\rho} = 3.86g/cm^3$ $\bar{h} = 1.43 * 10^7 cm$ 100104 particles $M_{imp} \quad \bar{\rho} = 3.85g/cm^3$ $\bar{h} = 1.52 * 10^7 cm$ 10049 particles $50\tau_{coll} = 31.95h \quad @ \quad v_{esc}$
$M_{tar} \quad \bar{\rho} = 5.54g/cm^3$ $\bar{h} = 2.69 * 10^7 cm$ 100085 particles $M_{imp} \quad \bar{\rho} = 5.20g/cm^3$ $\bar{h} = 2.77 * 10^7 cm$ 70124 particles $50\tau_{coll} = 31.87h \quad @ \quad v_{esc}$		$M_{tar} \quad \bar{\rho} = 5.54g/cm^3$ $\bar{h} = 2.69 * 10^7 cm$ 100085 particles $M_{imp} \quad \bar{\rho} = 4.34g/cm^3$ $\bar{h} = 3.04 * 10^7 cm$ 19994 particles $50\tau_{coll} = 30.10h \quad @ \quad v_{esc}$	