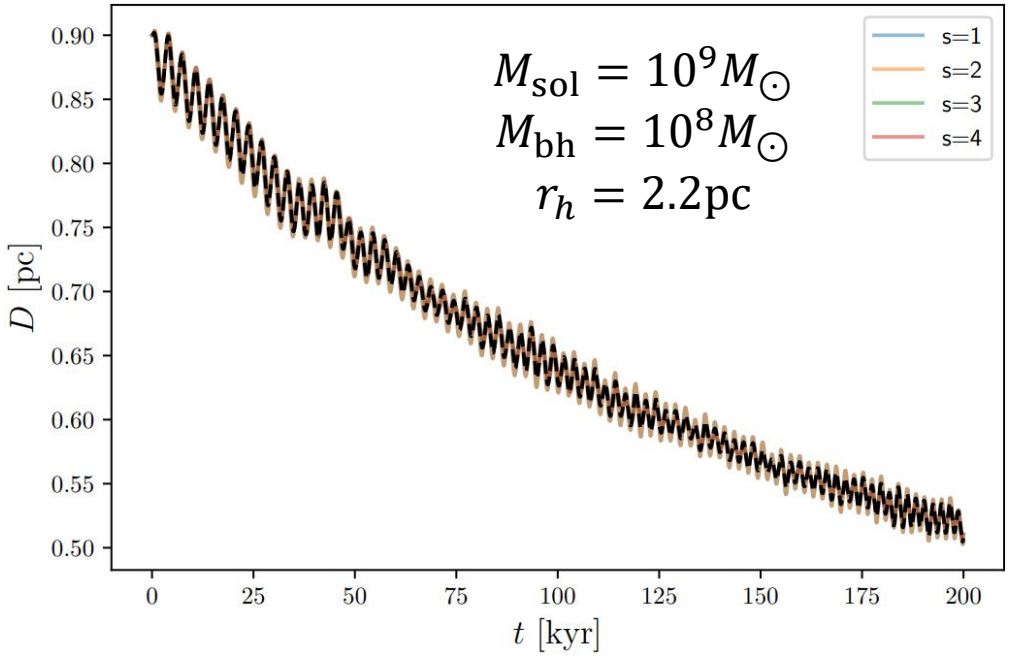
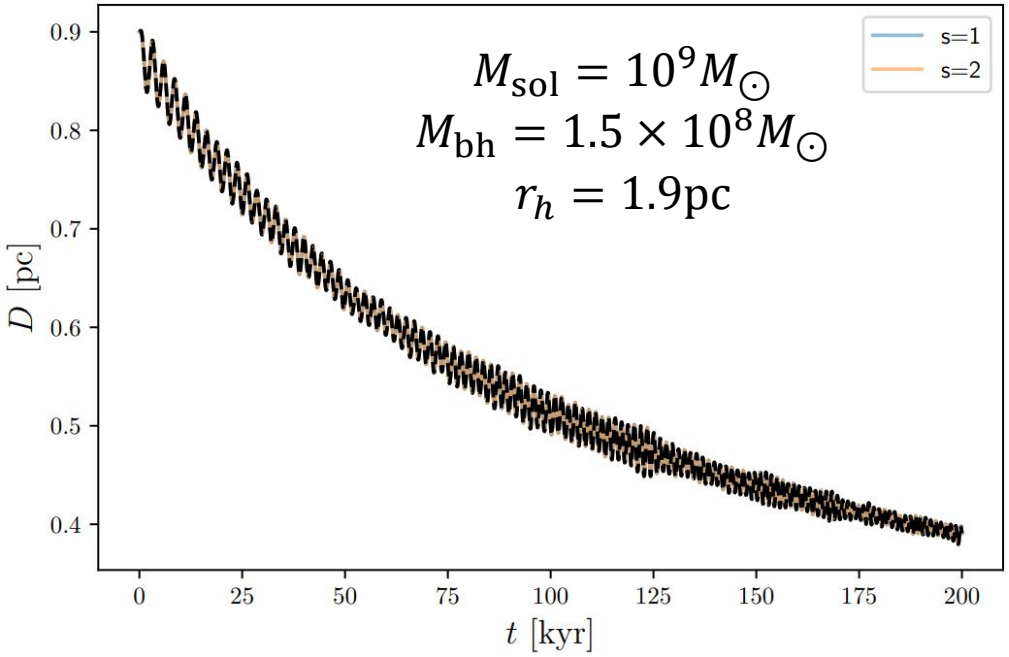
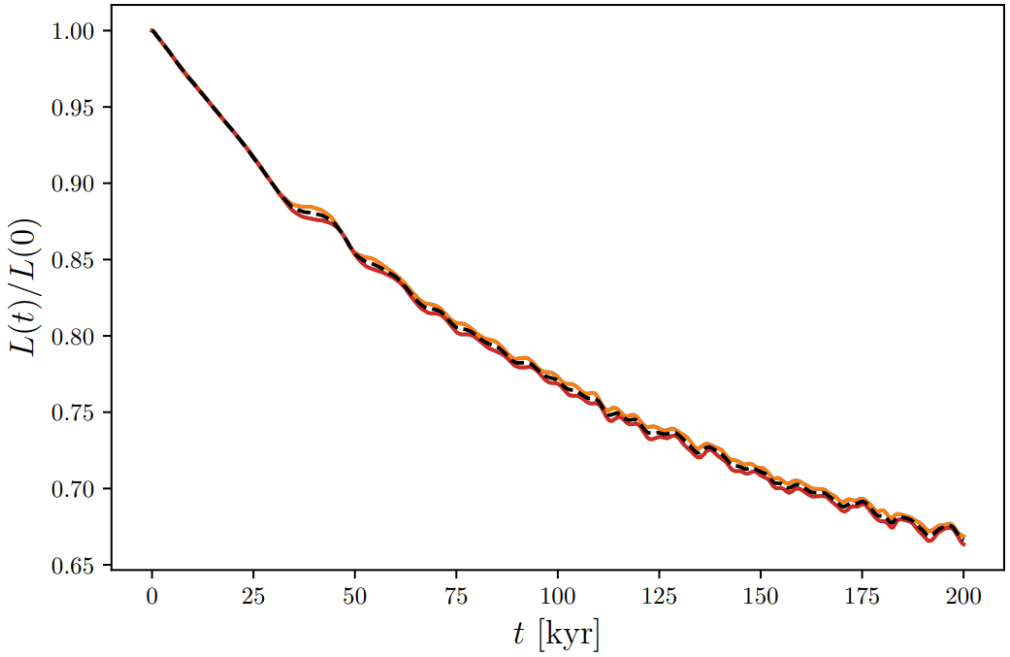
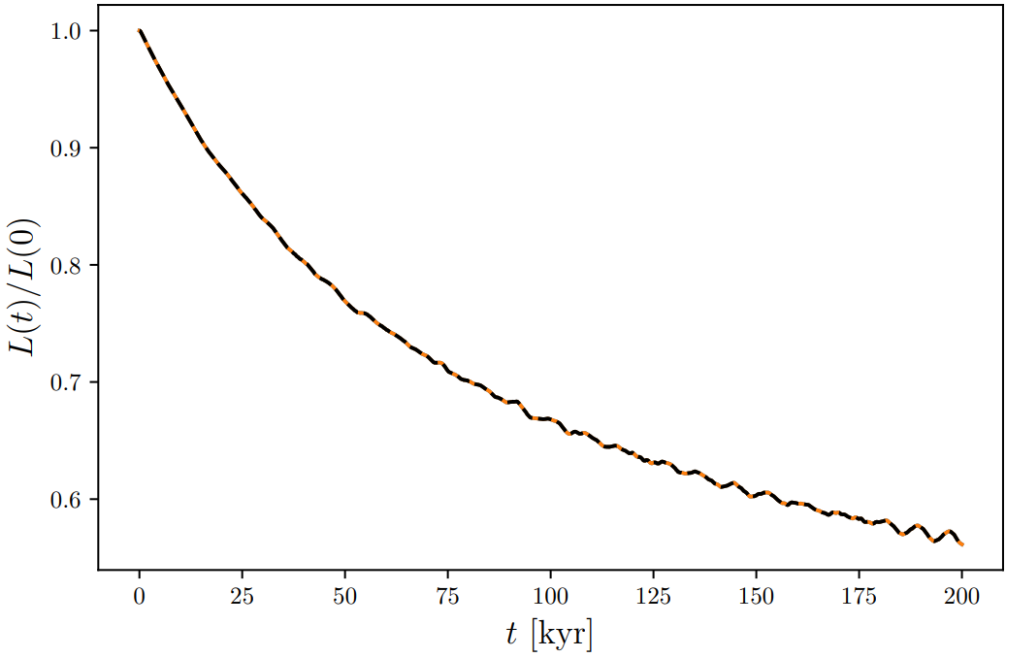

$M_{\rm sol} = 10^9 M_\odot$
$M_{\rm bh} = 10^8 M_\odot$
$r_h = 2.2$pc
s=1
s=2
s=3
s=4
D [pc]
t [kyr]


$M_{\rm sol} = 10^9 M_\odot$
$M_{\rm bh} = 1.5 \times 10^8 M_\odot$
$r_h = 1.9$pc
s=1
s=2
D [pc]
t [kyr]


$L(t)/L(0)$
t [kyr]


$L(t)/L(0)$
t [kyr]

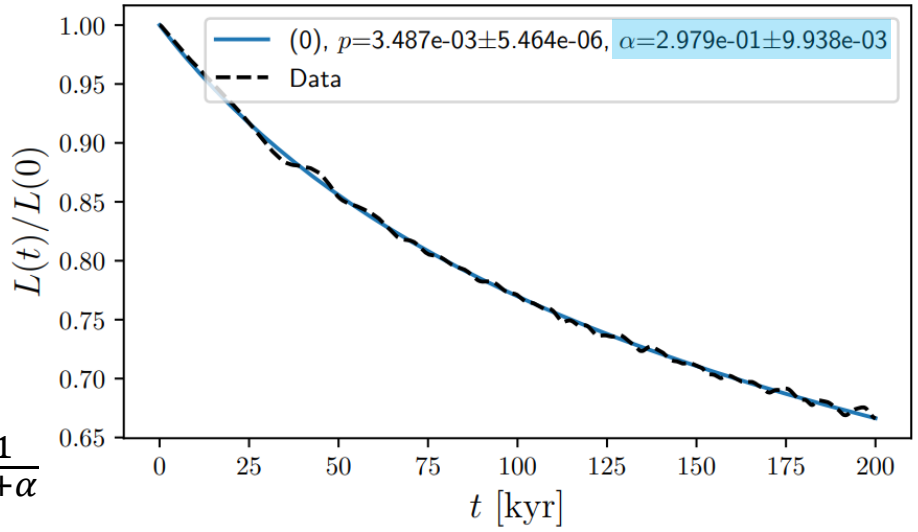
$$C \propto \left(\frac{mvD}{\hbar}\right)^{\alpha} \Rightarrow$$

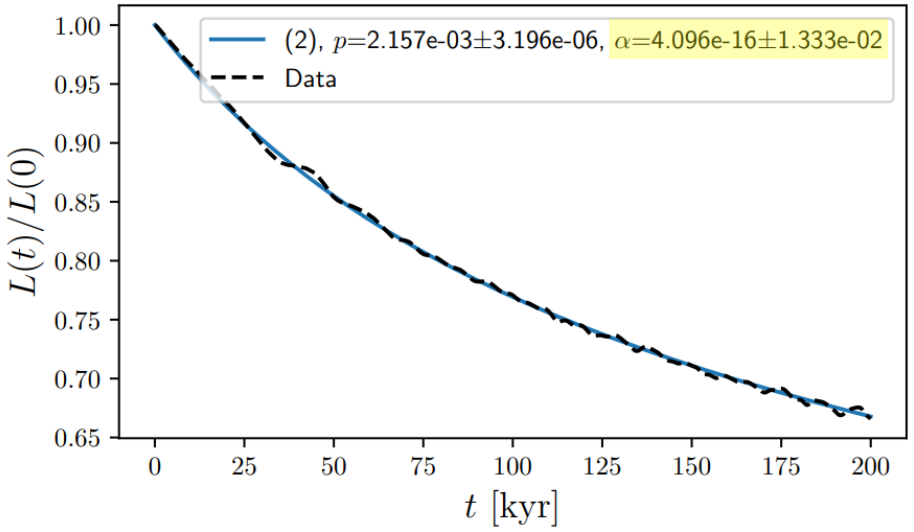
$$L^{(0)} \propto [1 + (3+\alpha)Pt]^{-\frac{1}{3+\alpha}}$$

$$L^{(2)} \propto \sqrt{\frac{S(t)}{S(0)}}[1 + (3+\alpha)Pt]^{-\frac{1}{3+\alpha}}$$

$$S(t) = 1 + B_0 D_0^3 [1 + (3+\alpha)Pt]^{-\frac{6}{3+\alpha}}$$

$M = 1.0 \times 10^8 M_\odot$, α is not fixed, but $\alpha > 0$





$M = 1.5 \times 10^8 M_\odot$, α is not fixed, but $\alpha > 0$