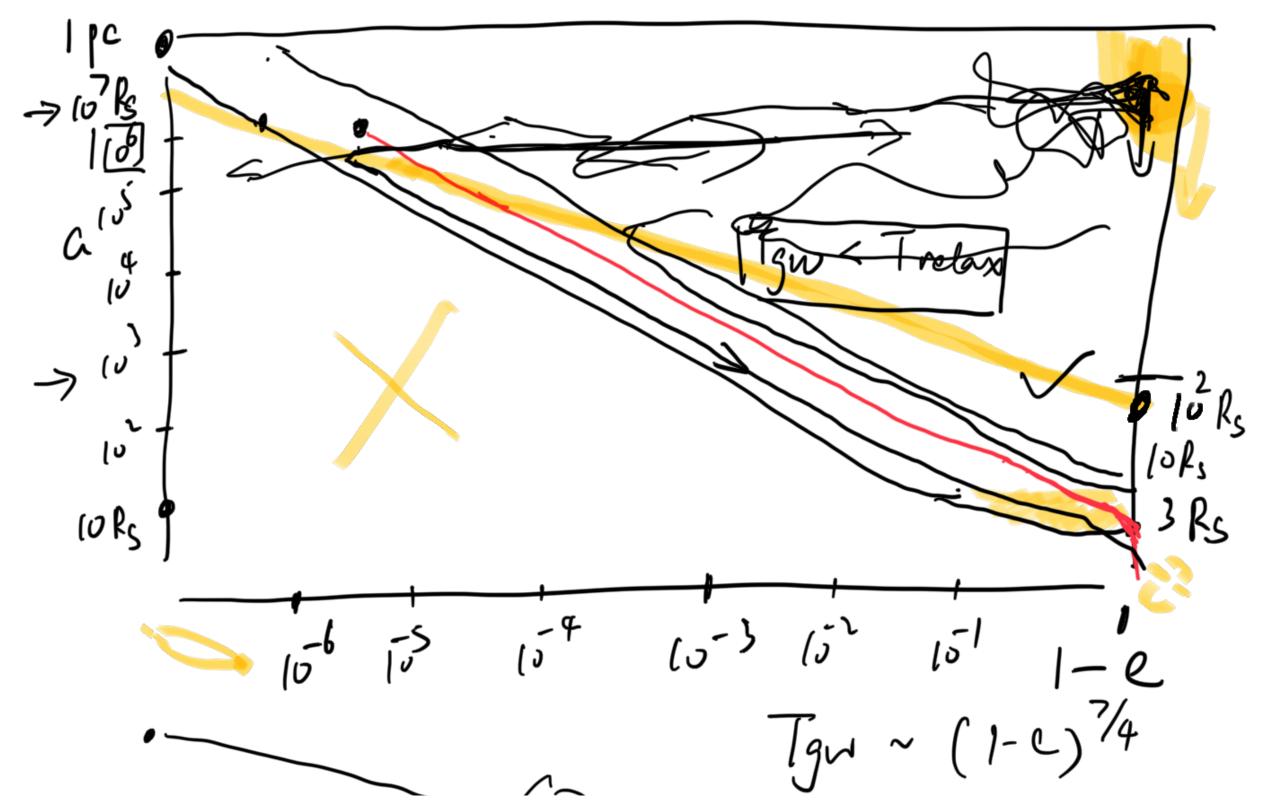
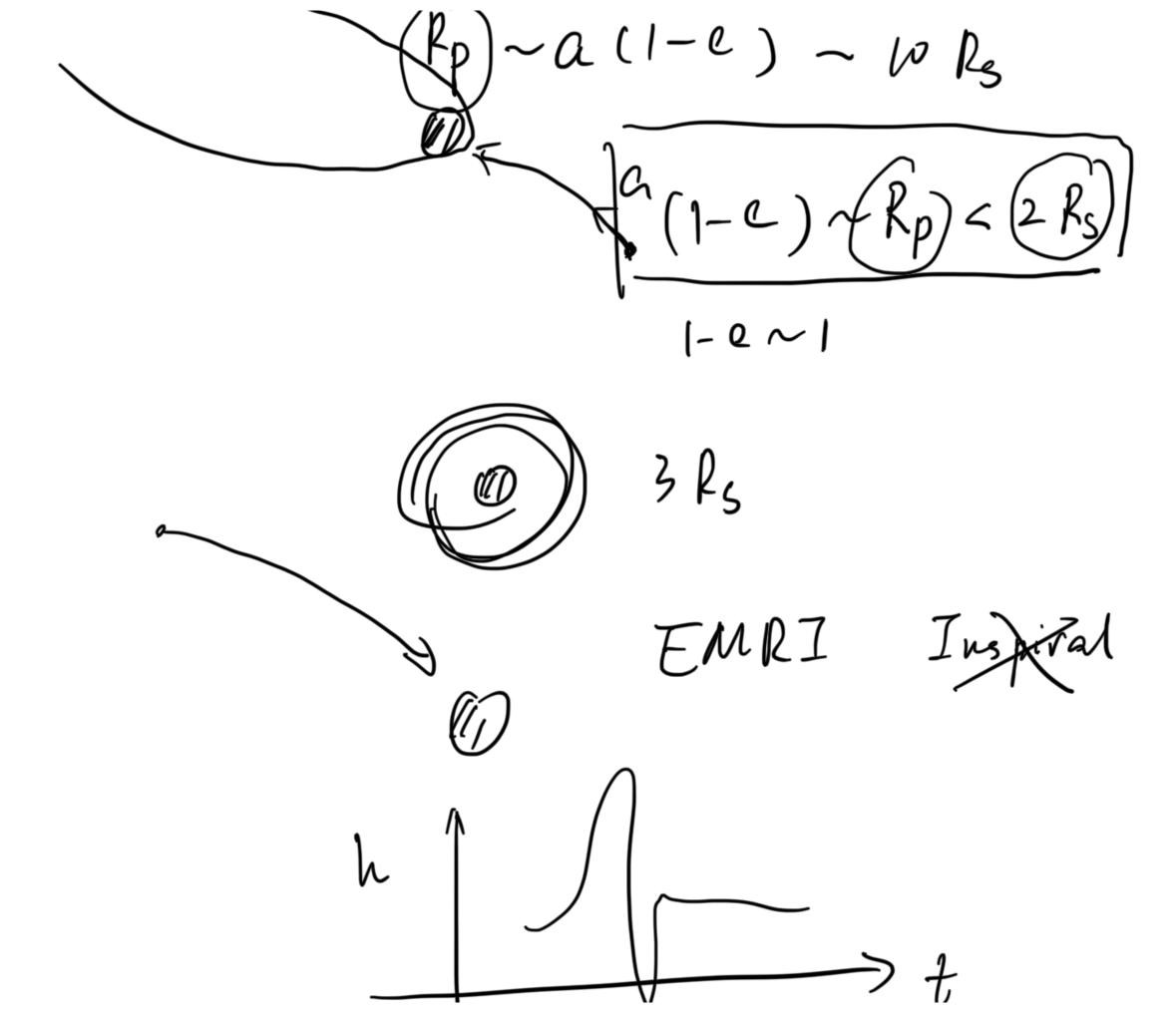
$$f_{gw} = \frac{1}{7} \sqrt{\frac{GM}{a^3}} = \frac{2mH_2}{10M_0} \left(\frac{M}{0R_s}\right)^{\frac{3}{2}}$$

M~ los Mo

## Phase space of stars around smith





P & wyr

Rp = a(1-e) ≈ 10 Rs

Where are the SOBHs?

 $\frac{dN}{d\alpha}$   $\sim 47\alpha^2 S \sim \alpha^{\frac{1}{4}}$ pe loRs loms stars 4/2 Losmo sBIls w sBHs 10 Rs 0,1 61745

 $\frac{dN}{dN}$ 

d(He2) d (1-e)  $\frac{dN}{d(1-e)}$  ~ c when  $e \sim 1$  (1+e=2)  $\frac{dN}{d\ln(1-e)} \sim 1-c$ Relaxation

0

Clean EMPIs?.
Tretax < Tgw

Near-circular EMRZ

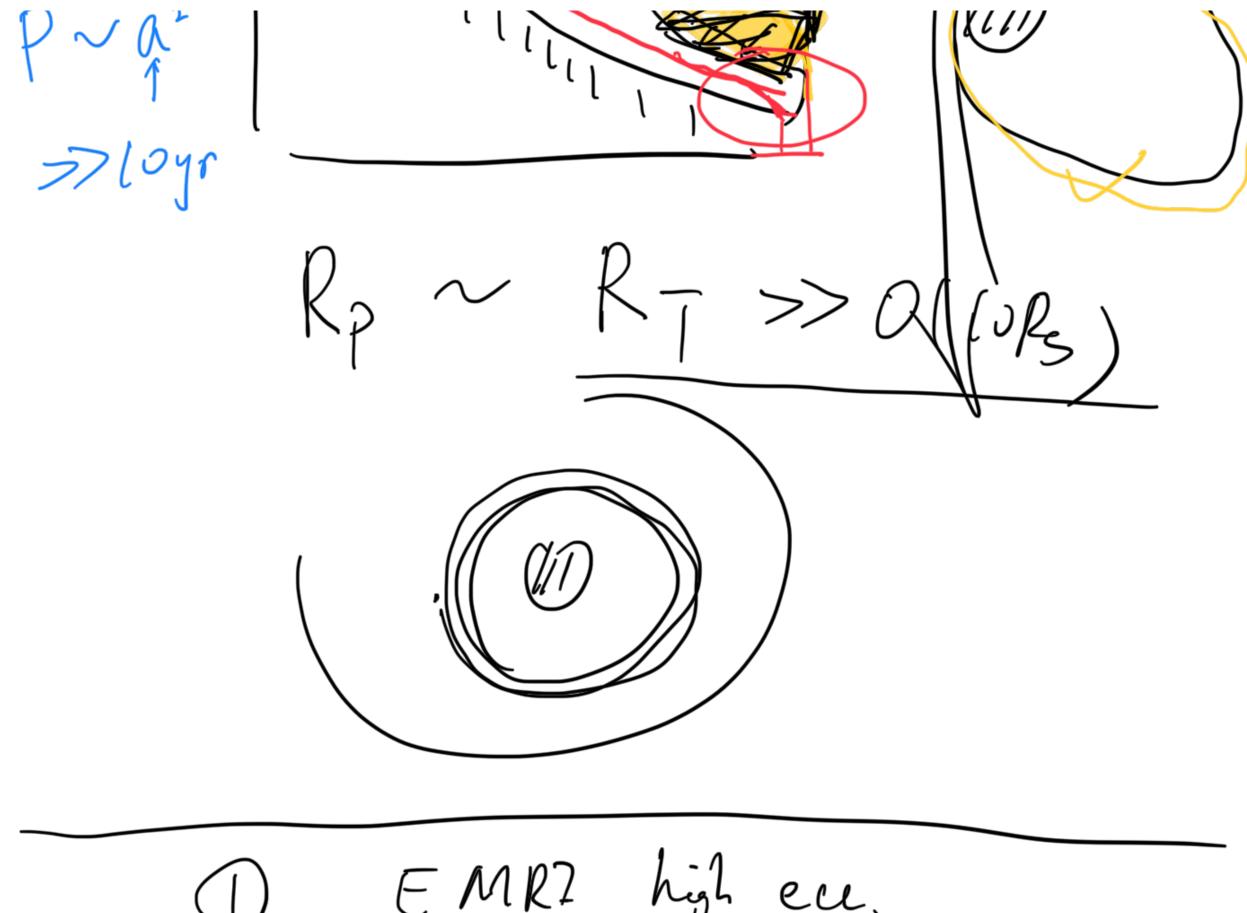
Dinary (BH)

RT

AGN dish Co

EMR25

I Jawa Treban i William



EMRZ high ecc.

(3) near-cerular + MIRS AGN circular EMRZS

Resonant Relaxation

Schwarzschild Barrier

Devent rate

9 ece.

g ~ a?

S-Stars.