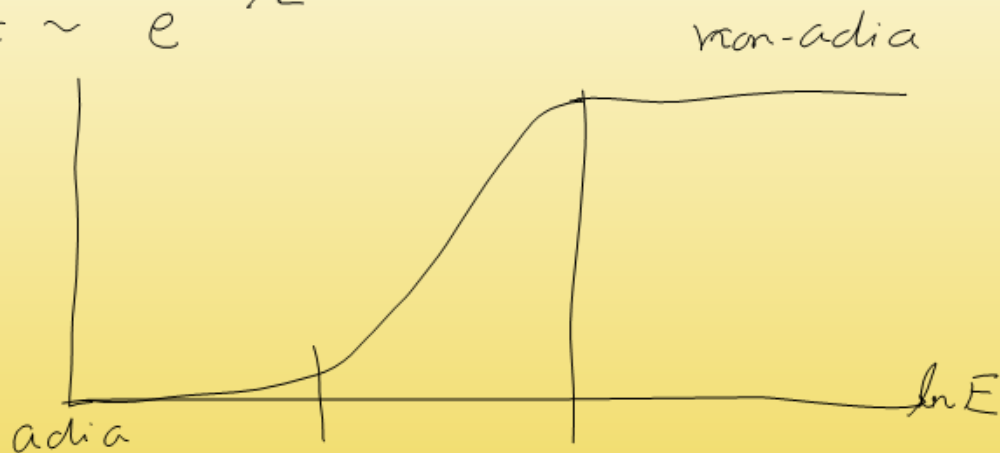


$$P_f \sim e^{-\frac{\pi}{2} \gamma}$$

$$\gamma = \frac{\Delta m^2}{2E} \frac{\sin 2\theta}{\cos 2\theta} \left(\frac{1}{V_c} \frac{dV_c}{dt} \right)^{-1} \sim \frac{a}{E}$$

$$P_f \sim e^{-b/E}$$



$$\int 2\Delta_m dt = \int \frac{\Delta m^2 L}{2E}$$

$$\sim \frac{2.5(\Delta m^2)_{\text{eV}^2} L(\text{m})}{E(\text{MeV})}$$

$$\sim 2.5 \frac{10^{-5} \times 10^{11}}{1}$$