

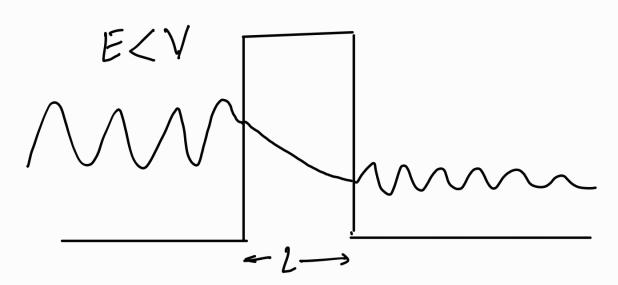
For 
$$92$$

$$P \cdot E = \frac{1}{4\pi 60} \frac{(92-2) \times e^2}{6^{-4}} \approx 26 \text{MeV}$$

PE E 25-30 MeV

X-partile having energy 10 MeV croner barrier potential of 25-30 MeV.

So, we use Guantum tunneling



Transmission probability
$$T = \frac{-28}{e} x_2$$

$$y = \int_{x_1}^{x_2} \frac{\sqrt{2m(V-E)}}{t} dx$$

decay is a spontaneous radioactive decay process in which a large rised nucleus (A>200) apartaneously undergoes decay process leading to emission of x-particle.

d-partile is banically the nucleus.

Before emission, & particle can be annumed to exist inside the nucleus.

when different kinds of x-decay processes for diff. kinds of nuclei were studied, it was found that max k.E of emitted x-particle may k.E of emitted x-particle unally ranges from 4-10 MeV.

d-particle experiences a barrier of height 26 MeV imide a Vranium nucleus before emission.

An 2-particle has a wave amociated with it. A wave function & can describe the wave

