$$R = \frac{|B|^2}{|A|^2} = \left(\frac{k - k'}{k + k'}\right)^2$$

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$$R + T = 1$$

$$R +$$

$$\psi_{L}(x) \in A e^{ikx} + B e^{ikx}$$

$$\psi_{R} = C e^{-ikx}$$

$$\psi_{R}(0) = \psi_{R}(0)$$

$$\psi_{L}'(0) = \psi_{R}(0)$$

$$\psi_{L}'(0) = \psi_{R}(0)$$

$$A_{L}k - B_{L}k = -\alpha C$$

$$= -\alpha (A+B)$$

$$B = \frac{\alpha + ik}{\alpha - ik} A$$

$$D = \frac{|B|^{2}}{\alpha - ik} = |\alpha + ik|^{2}$$

= xtik arik = 1

Aeika Ceax+Deax Feikx Square barries
T= 1/2 > 0 R= 1/8/2
Quantum tunneling
and Manager
e dx characteristic length of decay
1 S = = the Switch of burner
then turnoling occurs readily
if not, it doesn't
Alpha Decay
eg. U-238 Nucleus - unstable
expers an alpha particle (2p)
stong 1 1 1 25 mult have stalk 1 1 lower energy
20 4.3MeV V=704J
a particle tunnels. Through the barrier
· Turrel Diode
· SQUID
· field emission
thermionic emission - heat up method - some e can get everythe everythe except
turneling allared type to field emission less noise less power "electron beam"
- less noise
"electron beam"