Lecture 9

$$T = \frac{4(kr)^{2}}{(r^{2}+k^{2})^{6}} \sin h^{2}(kl) + 4r^{2}k^{2}$$

Pecall  $k = \frac{|2mE|}{h^{2}} \quad f = \frac{|2m(voE)|}{h^{2}}$ 

$$T(E) = \frac{4E(N-E) + N^{2} \sin h^{2}}{h^{2}} \quad T\sqrt{N-E} \quad E = \frac{k^{2}\pi^{2}}{2mc^{2}}$$

Tunneling March by condition

$$\frac{|2|}{|2|} = \frac{k^{2}\pi^{2}}{|2|} \quad \sqrt{1-r} = \frac{k^{2}\pi^{2}}{1-r} \quad E = \frac{k^{2}\pi^{2}}{2mc^{2}}$$

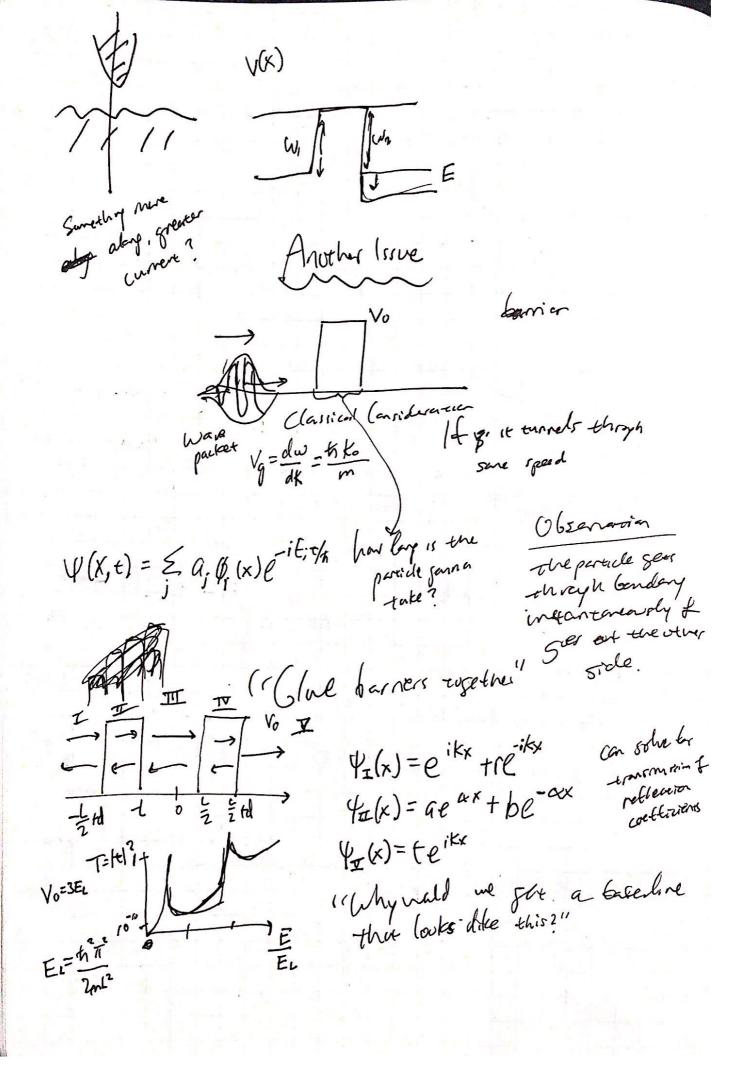
$$\frac{|2|}{|2|} = \frac{k^{2}\pi^{2}}{1-r} \quad \sqrt{1-r} = \frac{k^{2}\pi^{2}}{1-r} \quad \frac{|2|}{1-r} = \frac{k^{2}\pi^{2}}{1-r} e^{ik}$$

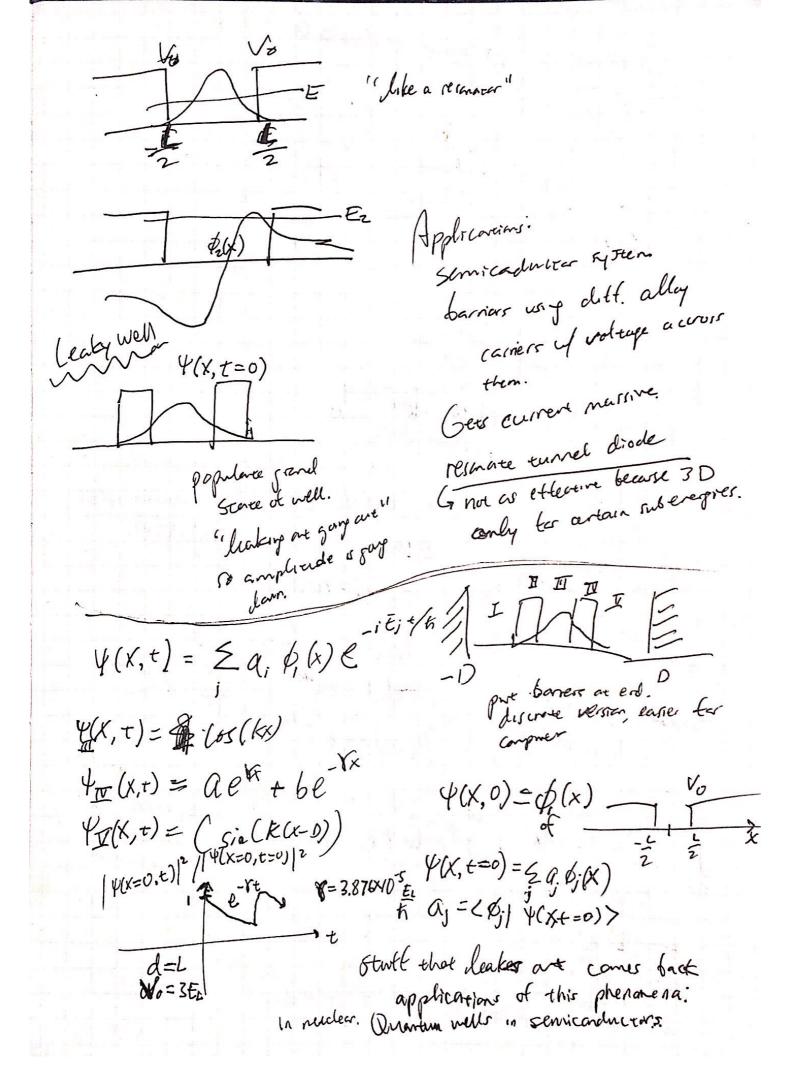
$$\frac{|2|}{|2|} = \frac{k^{2}\pi^{2}}{1-r} \quad \sqrt{1-r} = \frac{k^{2}\pi^{2}}{1-r} e^{ik}$$

$$\frac{|2|}{|2|} = \frac{|2|}{|2|} = \frac{|2|}{|2|} e^{ik} \quad \sqrt{1-r} e^{ik}$$

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$$\frac$$





hentin will: the man I electric conversion, Classical picture. Classical analog Vt=L THE = Y (=(Z).T Y=(V)e-26 escaping every ine wall = 2.36×10-5 E Used for alpha decay rates. What would happen if we get rogether a non-hermation model probabo. had flows. 4(x)=4(-x) even  $f_{II}(x) = \cos(kx)$ 4 N(x) = a e xx be-xx for Mymmetry Herpotian? Notas YI(x) = teikx PIK)=te-ikx required tar (A(+))\*Q Ydx= SP+HQ Ydx hermorian
Subject when Q=1 hemacin A=-5 02 + V(x) ∫ (A+) \* 4 dx = ∫ σ (-t2 d2 + V(X)) 4x 4 (x) dx

F=3.8786×10° Ec the are the are fam his simulation from his simulation

Ore cerebusian: non-sendand, non-hermentier analysis actually works

Y close w posenced of intime walls

0.525683

Vo=3EL

the ?? stare for leaky well.

Mon-hermation widely used for thops related to decay.