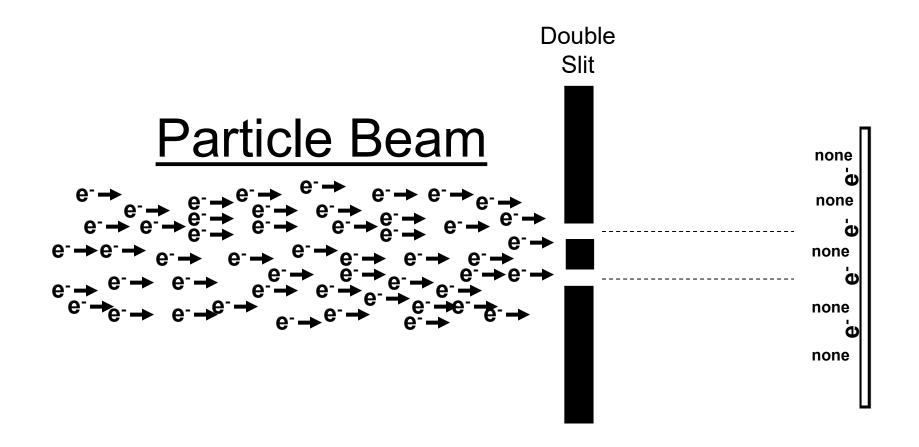
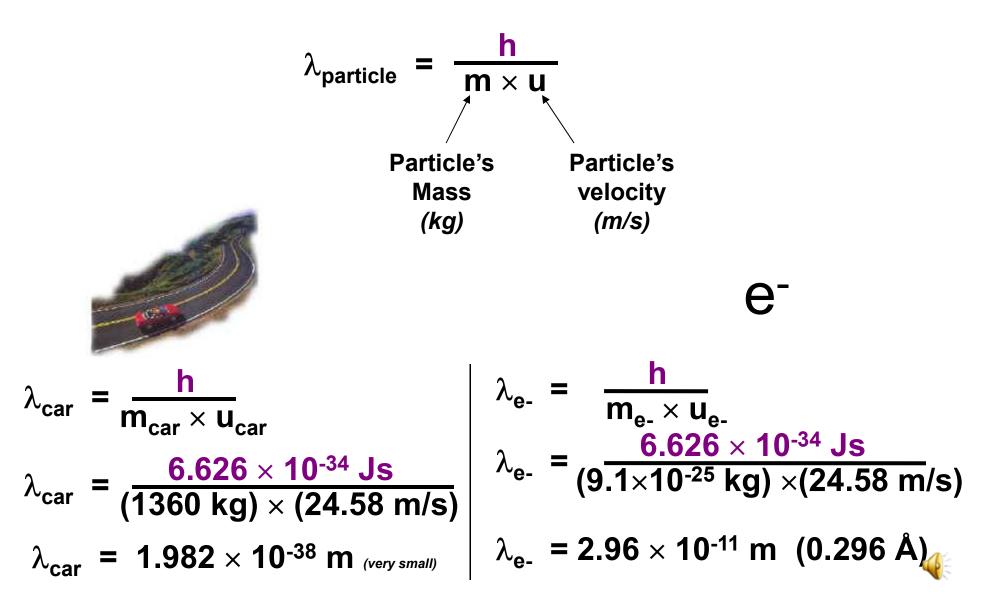
Particles and Waves... Continued.



Conclusion: Electrons are behaving as waves!



Wavelengths of Particles:



When Particle Wavelength is Important.

When the wavelength of the particle is of the same approximate dimensions as the particle's surroundings...

...then the wave nature of the particle becomes important.



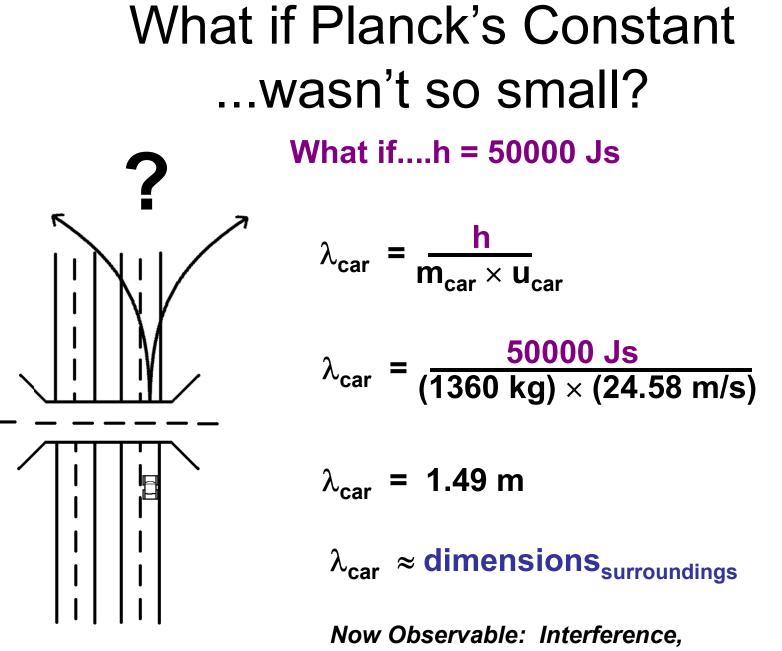
$$\lambda_{car} = 1.982 \times 10^{-38} \text{ m}_{(very small)}$$

$$\begin{array}{l} \text{Surroundings:} \\ \text{Bridges, other cars} \\ \text{roads, trees, etc.} \\ (3-50 \text{ m}) \end{array} \\ \lambda_{car} <<<< \text{dimensions} \\ \text{surroundings} \end{array}$$

.:. Wave nature of car is not important

:. Wave nature of e- is important





diffration (path bending).

