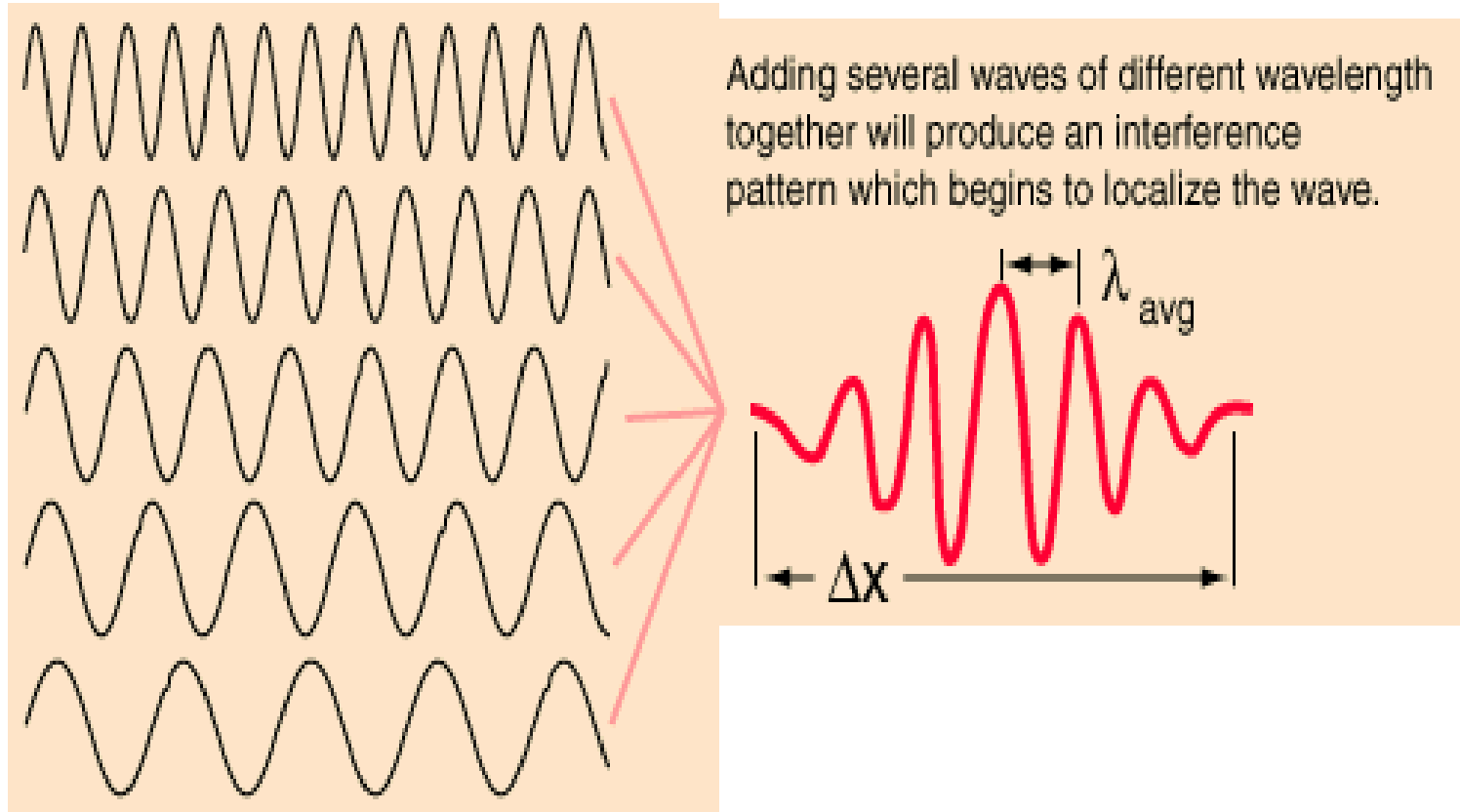




Lecture III-show

Particles and Waves

Poor Person's Fourier Analysis



- Of course this applies to any wave, including our quantum mechanical $\Psi(x,t)$



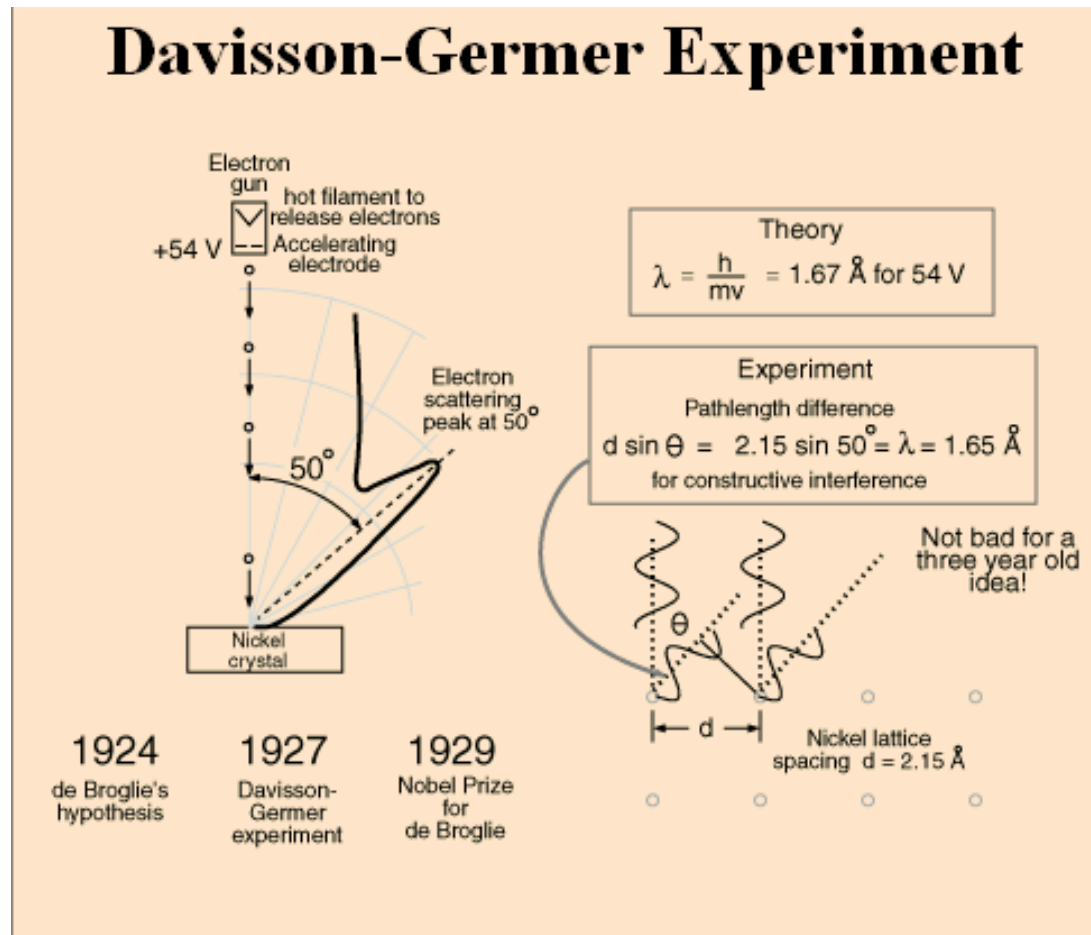
Fourier Series Demo

- <http://www.jhu.edu/~signals/fourier2/index.html>

Why Should We Believe This?

The Davisson-Germer Experiment

- Scatter electrons from a Ni crystal and see a “Bragg” like diffraction pattern
- Shows electrons have wave properties



Bragg Images

