Last lecture

- Time dependent Schroedinger equation
- Interpretation of $\Psi^*(x,t)\,\Psi(x,t)$
- Time independent Schroedinger equation if potential U(x,t) ONLY U(x)
  $\Psi(x,t)=\psi(x)T(t)$ where $T(t)=e^{-iEt/\hbar}$
- Solve for $\psi(x)$
- Example – 1D infinite potential well
- $\psi_n(x)=A\sin n\pi x/L$ where $A^2=2/L$

This lecture

- Energy levels
- Superposition of states (alive/dead??)
- 1D finite potential well – tunneling!!