Wave-Particle Duality
Waves can exhibit particle-like characteristics, and particles can exhibit wave-like characteristics.

De Broglie Wavelength of a particle

\[ \lambda = \frac{h}{p} \]

Bohr’s Orbits = Standing Wave

\[ 2 \pi r_n = n \lambda \]

With \( \lambda = \frac{h}{p} \), \( p = mv \) we get

\[ mvr_n = n \frac{h}{(2\pi)} \] (Bohr’s condition)