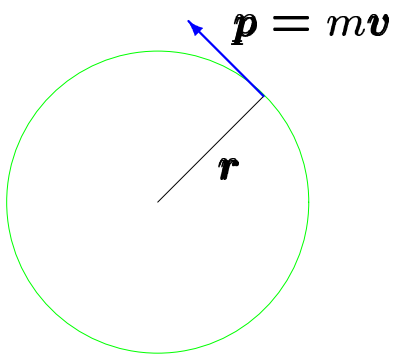
Quando la meccanica quantistica?

$$h = 6.626\ 075\ 5(40) \times 10^{-34}\ \text{J s}$$

$$\begin{aligned}[h] &= [\text{azione}] = [\text{energia} \cdot \text{tempo}] \\ &= [\text{lunghezza} \cdot (\text{quantità di moto})] \\ &= [\text{momento angolare}]\end{aligned}$$



- $\begin{cases} m = 1\ \text{kg} \\ v = 1\ \text{m s}^{-1} \\ r = 1\ \text{m} \end{cases} \rightarrow \quad L = mvr = \boxed{1\ \text{J s}}$

- $\begin{cases} e = 1.6 \times 10^{-19}\ \text{C} \\ \dfrac{mv^2}{r} = \dfrac{1}{4\pi\epsilon_0}\dfrac{e^2}{r^2} \\ r = a = 0.53 \times 10^{-10}\ \text{m} \end{cases} \rightarrow \quad L = \sqrt{\dfrac{e^2}{4\pi\epsilon_0}ma}$

$$= \boxed{1.05 \times 10^{-34}\ \text{J s}}$$