

$10^0 \text{ m} = 1 \text{ m}$

$10^{-3} \text{ m} = 1 \text{ mm}$

$10^{-6} \text{ m} = 1 \mu\text{m}$

$10^{-9} \text{ m} = 1 \text{ nm}$

$10^{-12} \text{ m} = 1 \text{ pm}$

$10^{-15} \text{ m} = 1 \text{ fm}$

10^{-18} m

10^{-21} m

10^{-24} m

10^{-27} m

10^{-30} m

10^{-33} m

$10^{-9} \text{ GeV} = 1 \text{ eV}$

$10^{-6} \text{ GeV} = 1 \text{ keV}$

$10^{-3} \text{ GeV} = 1 \text{ MeV}$

$10^0 \text{ GeV} = 1 \text{ GeV}$

$10^3 \text{ GeV} = 1 \text{ TeV}$

10^6 GeV

10^9 GeV

10^{12} GeV

10^{15} GeV

10^{18} GeV

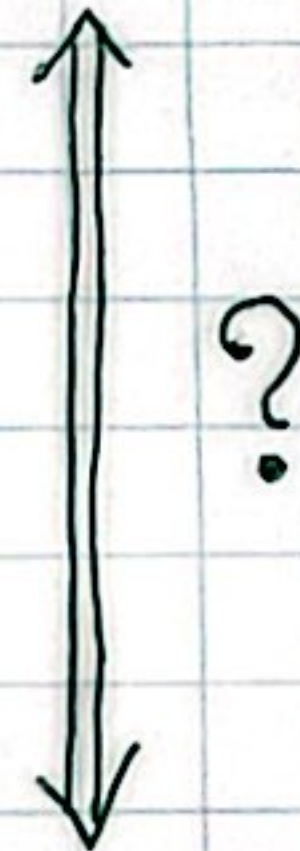
$1 \text{ eV} \sim m_e \alpha^2$ (ionization)

$1 \text{ \AA} = 10^{-10} \text{ m} \sim 2 \text{ keV} \sim m_e \alpha$ (atom size)

$1 \text{ fm} = 10^{-15} \text{ m} \sim 0.2 \text{ GeV} \sim m_\pi$ (size of proton, nuclei) particle physics

Standard Model of Particle Physics

← Collider Physics !



Grand Unification of gauge interactions ?
quantum gravity ?

