Length scales in Nature

1 mm



Grain of sugar, small insects, etc

1 km



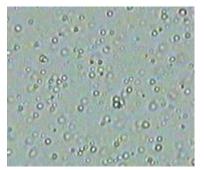
Brooklyn bridge

10⁻³ m 1 m 10³ m

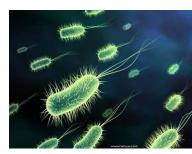
1 micron (1μm)

Particles in smoke, milk, etc

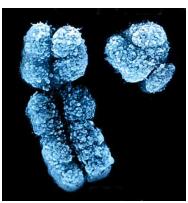
 $(1-20 \mu m)$



Bacteria (1-10 μm)



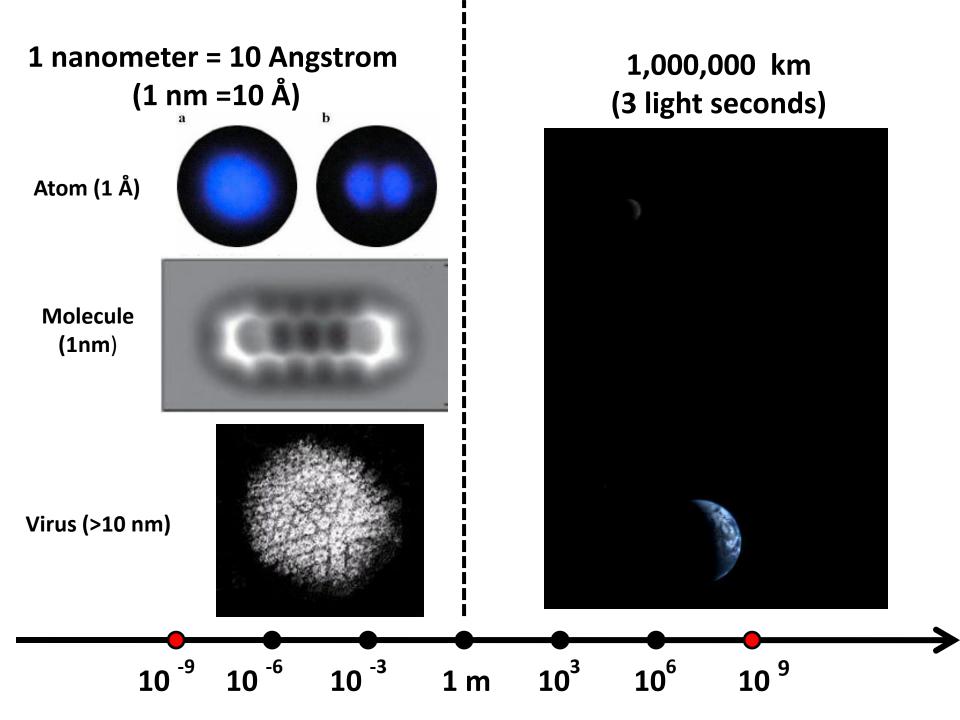
Human Chromosome (2 -10 μm)

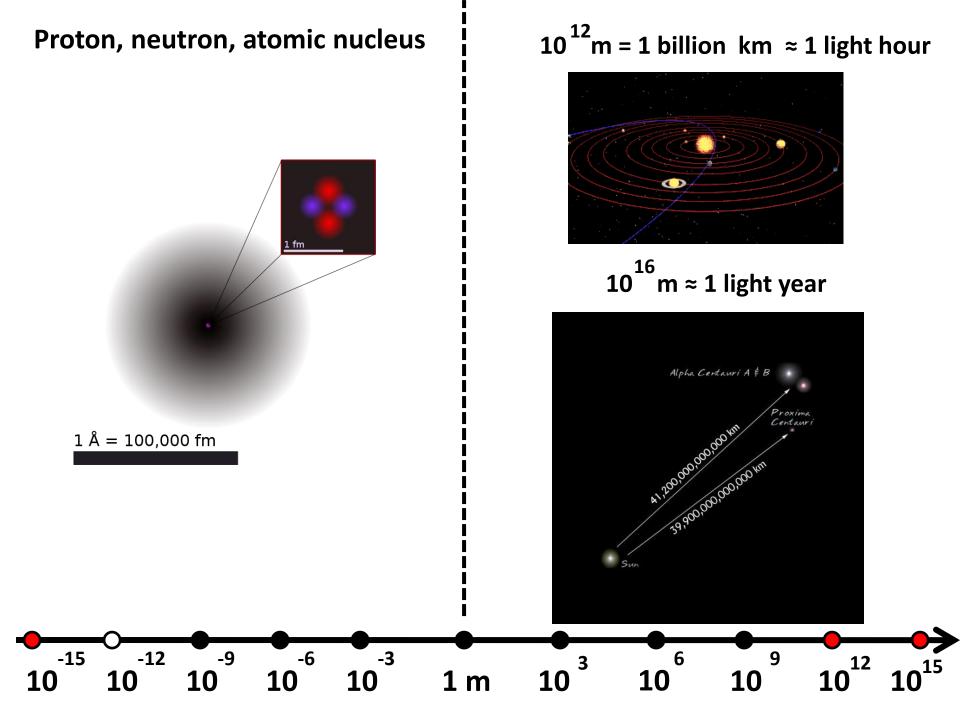


1000 km

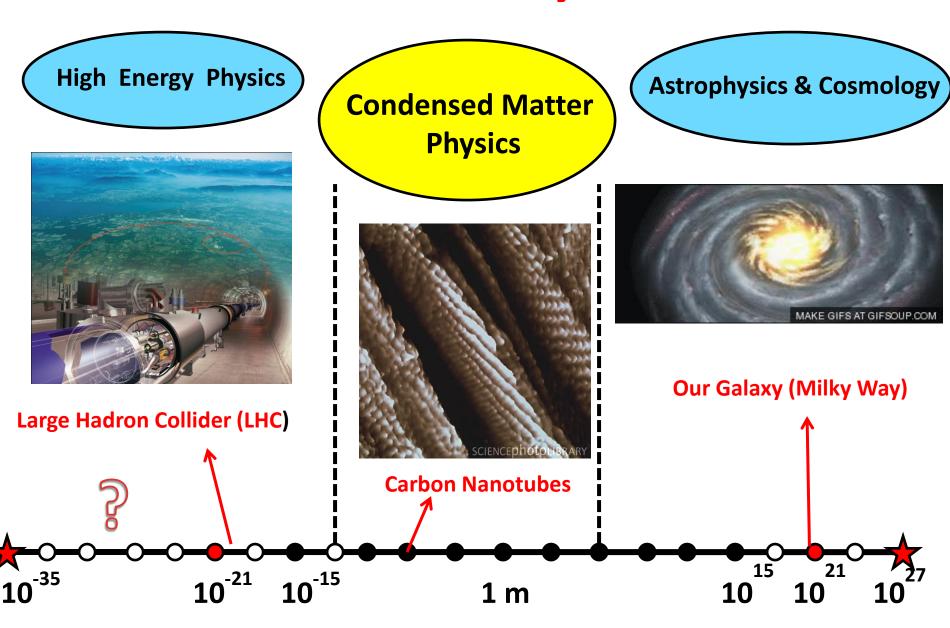


10⁻⁶ 10⁻³ 1 m 10³ 10⁶





Modern Physics



Homework

Water molecule can be approximated as a sphere of radius 2 Å (1Å=10⁻¹⁰m, is called Angstrom). Estimate how many molecules is there in one glass (200 cm³)of water.