

Source: [KBhPHYS201QuantumWorldBookNotesIndex](#)

0.1 | **How to Deal with Large and Small**

- Scientific notation is required to deal with large and small quantities
 - This is required in much of particle physics since particles tend to be very small and fast
- People also tend to create more fitting units for a specific application

0.1.1 | **Units**

Femtometers are used as a unit of measurement in the atomic world. They're $10^{-15}m$.

For **speed** we use fractions of the speed of light $c \sim 3 * 10^8 m/s$

Volts are used for charge.

Particle Masses can also be expressed in eV units. Particle masses are actually pretty large with the eV unit.