

Key TERMS

Strong Nuclear Force an attractive force between protons and neutrons that keep the nucleus together

Weak Nuclear Force responsible for the radioactive decay of certain nuclei

Electrostatic the force that exists between charged particle. (opposites attract)

Half-life The half-life of a radioactive isotope is the time taken for activity to halve.

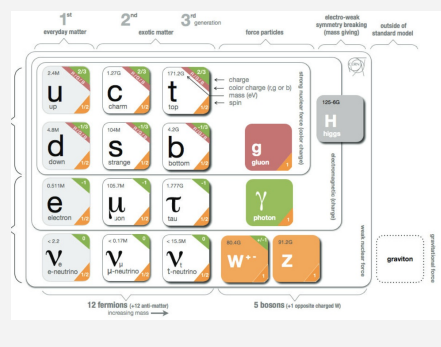
Activity

1 Bequerel (Bq) = 1 ionizing particle detected per second.
 $Bq = \text{Particles detected/time (s)}$

Rate of Decay

Activity (Bq) = -Rate of decay

Fundamental particle



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