

Key TERMS

Strong 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.

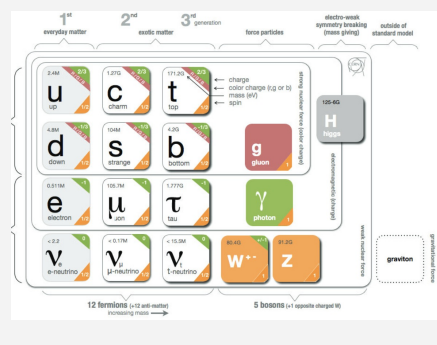
Activity

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

Rate of Decay

Activity (Bq) = -Rate of decay

Fundamental particle



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