

### 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.

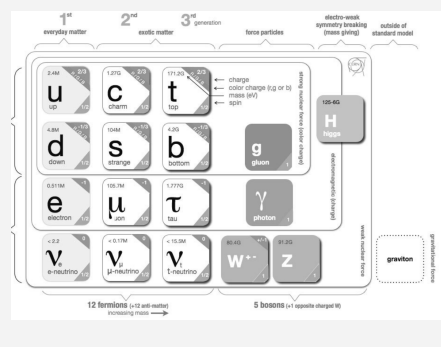
### Activity

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

### Rate of Decay

Activity (Bq) = -Rate of decay

### Fundamental particle



By **HarryHug**  
[cheatography.com/harryhug/](https://cheatography.com/harryhug/)

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