Summary

- Nuclear Reactions
 - Nucleon number conserved
 - Charge conserved
 - Energy/Momentum conserved
 - α particles $= \frac{4}{2}$ He nuclei
 - β^- particles = electrons
 - $-\gamma$ particles = high-energy photons

urvival:
$$N(t) = N_0 e^{-\lambda t}$$
 $T_{1/2} = \frac{0.693}{\lambda}$

• Decays

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– Half-Life is time for $\frac{1}{2}$ of atoms to decay