

POGIL – Nuclear Fission & Fusion

Background

Fission and fusion are two processes that alter the nucleus of an atom. Nuclear fission provides the energy in modern day nuclear power plants and fusion is the source of the sun's energy. The use of fission in power plants can help conserve or one day possibly eliminate the need for fossil fuels. Without the energy produced by fusion of hydrogen in the sun, the Earth would quickly change into a cold planet that could not support life as we know it.

Transmutation can be accomplished through many types of reactions, including fission. Nuclear transmutations always obey two fundamental conservation laws:

- (1) Mass number is conserved
- (2) Electrical charge is conserved

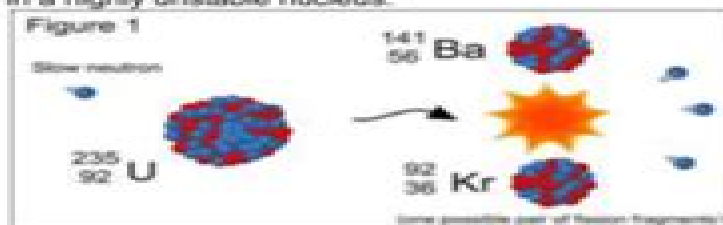
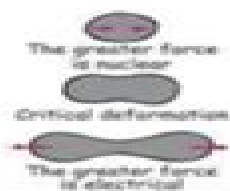
Energy and mass are **not** conserved, but can be interconverted according to Einstein's equation:

$$E = mc^2$$

Where E = energy, m = mass, and c = the speed of light

Nuclear Fission

The process of fission occurs when a nucleus splits into smaller pieces. Fission can be induced by a nucleus capturing slow moving neutrons, which result in a highly unstable nucleus.



<http://www.epa.gov.au/images/basics/fission.jpg>

Watch the following clip for a brief explanation (double-click on Fission.mov) :

Fission.mov

For an animation of this process, view the PhET model linked below and click on the "Fission – One Nucleus" tab.

<http://phet-web.colorado.edu/sims/nuclear-physics/nuclear-physics.jsp>

Nuclear Fusion

Fusion occurs when 2 nuclei join together to form a larger nucleus. For a fusion reaction to occur, the atoms of hydrogen must be heated to millions of degrees and subjected to high pressure. When done properly, the positively charged nuclei of the hydrogen isotopes, which naturally repel each other, combine.



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Cyriel Wagemans



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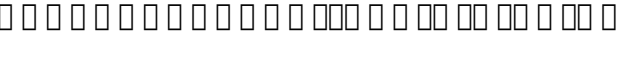
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