natural transmutation - Uranium spontaneously decays.

$$^{238}_{92}U \rightarrow ^{234}_{90}Th + ^{4}_{2}He$$

<u>artificial transmutation</u> - bombardment of a stable isotope to force it to decay.

$$^{14}_{7}N + ^{4}_{2}He \rightarrow ^{1}_{1}p + ^{17}_{6}D$$

When the bullets are + charged, they are repelled by the nucleus they are bombarding. To overcome the repulsions, they must be outstand to very high speeds by Posticia

nuclear fission - Heavy nuclei are bombarded with neutrons and split.  $^{1}$  1  $^{235}II$   $> ^{142}D$  = 1  $^{91}V$  = 1 = 2  $^{1}$  = 1

$$_{0}^{1}n + _{92}^{235}U \rightarrow _{56}^{142}Ba + _{36}^{91}Kr + 3(_{0}^{1}n) + E$$

Mass of particles produced is slightly <u>more</u> than the mass of the reactants.

This mass is converted into <u>energy</u>. (E = m c<sup>2</sup>)

required for a Chain sealtion

nuclear reactors: control fission <u>Chain</u> reactions to produce energy dangers:

nuclear fusion - combination of 2 nuclei into 1 with release of

$${}_{1}^{2}H + {}_{1}^{3}H \rightarrow {}_{2}^{4}He + {}_{0}^{1}n + E$$

Mass of particles produced is much MOTE than the mass of the TEXTENS.

This MOSS is converted into energy. (E = MC)

On back, list advantages of and problems with using fusion as an energy source.

CHEMISTRY: A Study of Matter

The issues with using fusion as energy generally just come from concern for the public and their safety due to storage of nuclear material for a long time causing concerns well as radioactivity being a big issue.

# **Answers To Note Taking Guide Physics 301**

Y Pai

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