

Nuclear Fission and Fusion

Why?

Fission and fusion reactions generate heat which the nucleus of an atom. Nuclear fusion provides the energy for nuclear power plants and fusion is the source of the sun's energy. The use of fusion in power plants can help conserve fossil fuels. However, the major problem is the creation of neutrons in fusion, the fact is small positive charge ions is not enough that could not support the ion ion fusion is.

Learning Objectives

- 1. Compare and contrast nuclear fusion and nuclear fission.
- 2. Understand the conservation laws that apply to nuclear reactions.

Learning Objectives

- 1. How existing technologies in nuclear reactions.
- 2. Identify nuclear reactions involving of fusion or fission.

Vocabulary

- 1. Fusion
- 2. Fission
- 3. Transmutation
- 4. Fusion

Prerequisites

- 1. Knowledge of mass number and atomic number.
- 2. Knowledge of mass number and atomic number.
- 3. Atomic symbols including mass number, atomic number, and charge.

Introduction

Transmutation is the transformation of the nucleus of an atom as that the mass is changed from the nucleus into a different element. This can be accomplished through many types of reactions, including fusion and fission.

Fusion: transmutation of elements are accomplished by combining two or more nuclei to form a new element and (2) individual charge is conserved.

Energy and mass are conserved, but not the total conserved according to Einstein's equation, $E=mc^2$.

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