

PHYSICAL SCIENCE chapter 1: THE ORIGIN OF ELEMENTS



The Origin of Elements

1.1 The Composition of the Universe

Element ► substance made from one type of atom

✧ The universe is composed of 92 elements, beginning from the lightest hydrogen to the heaviest uranium.

✧ 73% of the mass of the universe is hydrogen, helium makes up about 25%, and the others 2%- a small portion of the universe make up most of the atoms present in our body and Earth

low-mass elements ► hydrogen & helium- formed in the hot, dense conditions of the birth of the universe itself

Nuclear reactions can describe the birth, life, and death of the stars.

1.2 The Nucleosynthesis Epoch

Nucleosynthesis

► Nucleo meaning nucleus; synthesis meaning putting together

► defined as the formation of elements by combining the simple nuclei or atomic particles by nuclear reaction with the help of extremely hot temperature and pressure

1.2.1 The First 3 Minutes of the Big Bang

About 100 seconds after the Big Bang started, nuclear reactions began to form elements through the collision of protons and neutrons. Protons and neutrons can fuse to form isotopes of hydrogen, such as deuterium, through this nuclear reaction:

Physical Science Chapter 1

Philippos Afxentiou



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