Various Nuclei

Isotopes: Nuclei having the same number of protons (atom number) but different numbers of neutrons

Element	Symbol	Number of protons	Isotopes	
			Stable	Radioactive
Hydrogen	н	1	H-1, H-2*	H-3*
Carbon	С	6	C-12, C-13	C-11, C-14,··
Potassium	К	19	K-39, K-41	K-40, K-42, · ·
Strontium	Sr	38	Sr-84,Sr-86, Sr-87,Sr-88	Sr-89, Sr-90, · ·
lodine	I	53	I-127	I-125, I-131, · ·
Cesium	Cs	55	Cs-133	Cs-134, Cs-137, · ·
Uranium	U	92	None	U-235, U-238, · ·
Plutonium	Pu	94	None	Pu-238, Pu-239, · ·

^{*:} H-2 is called deuterium and H-3 is called tritium.

While most hydrogen atoms are H-1 whose nucleus has only one proton, there are also H-2 (deuterium) that has one proton and one neutron and H-3 (tritium) that has one proton and two neutrons. Only H-3 (tritium) emits radiation among these isotopes.

Like hydrogen, there are elements (collectively referring to the same type of atoms) having only one type of radioactive nucleus, but there are also many elements having multiple types of radioactive nuclei. Some elements with a large atomic number such as uranium and plutonium do not have stable nuclei that do not emit radiation.

While most naturally occurring radionuclides have existed since the birth of the earth, there are some that are still being created by the interaction between cosmic rays and the atmosphere, such as Carbon-14.

Included in this reference material on March 31, 2013 Updated on March 31, 2015

[&]quot;.." means that there are further more radioactive materials. Naturally occurring radioactive materials are shown in blue letters.