

The Nucleus

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|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Element | An element is a substance all of whose atoms have the same number of protons in their nuclei. |
| Atomic Number | This number is the atomic number of the element and equals the number of electrons that surround each nucleus of the element's atoms. |
| Isotopes | The isotopes of an element have different numbers of neutrons in their nuclei. |
| Nucleon | A nucleon is a neutron or proton. |
| Mass Number | The mass number of a nucleus is the number of nucleons it contains. |
| Nuclide | Is an atom whose nucleus has particular atomic and mass numbers. |
| Radioactive Decay | Certain atomic nuclei spontaneously emit alpha particles (helium nuclei), beta particles (electrons), , or gamma rays (high-frequency electromagnetic waves). |
| Positron | Is a positively charged electron emitted in some beta decays. |
| Half-Life | Of a radionuclide is the time needed for half of an original sample to decay. |
| Binding Energy | Of a nucleus is the energy equivalent of the missing mass and must be supplied to the nucleus to break it up. The mass of every nucleus is slightly less than the total mass of the same number of free neutrons and protons |
| Binding Energies per nucleon | Nuclei of intermediate size have the highest binding energies per nucleon. The fusion of light nuclei to form heavier ones and the fission of heavy nuclei into lighter ones are both processes that liberate energy. |
| Elementary Particle | Cannot be separated into other particles. |
| Antiparticle | Of an elementary particle has the same mass and general behavior, but it has a charge of opposite sign and differs in certain other respects. Some unchanged elementary particles also have antiparticles in which other properties differ in the particle and antiparticle. |
| Annihilate | A particle and its antiparticle can annihilate each other, with their masses turning entirely into energy. |
| Pair Production | In the opposite process of pair production, a particle-antiparticle pair materializes from energy. |
| Four Fundamental Interactions | In order of decreasing strength, are strong, electromagnetic, weak, and gravitational. |
| Lepton | Is an elementary particle that is not affected by the strong interaction and has no internal structure; the electron is a lepton. |
| Neutrino | Is a lepton with no charge and little mass that is emitted during beta decay. |
| Hadron | Is an elementary particle that is affected by the strong interaction and is composed of quarks. |
| Quarks | Particles with electric charges of $\pm \frac{1}{3}e$ or $\pm \frac{2}{3}e$ that have not been found outside hadrons as yet. Protons and neutrons are hadrons. |

Atomic And Nuclear Physics Study Guide

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