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Radioactivity is a fundamental phenomenon in nuclear physics, involving the spontaneous transformation of unstable atomic nuclei into more stable configurations. Among the various types of radioactive decay, alpha decay stands out due to its distinctive process and implications. In alpha decay, an alpha particle is emitted from the nucleus, leading to a decrease in the atomic number and mass number of the atom. Interestingly, during certain decay processes, electrons are involved, either as emitted particles or as part of the nuclear transformation process. This article explores in detail the primary processes that occur during the alpha type of radioactivity decay, especially focusing on scenarios where an electron is given or emitted, and sheds light on the underlying physics, mechanisms, and consequences.
