



# Talismans And Charms

**Zhe Xu**



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section learning objectives by the end of this section you will be able to do the following describe the structure and forces present within the nucleus explain the three types of radiation write nuclear equations associated with the various types of radioactive decay

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aug 28 2023 radioactivity property exhibited by certain types of matter of emitting energy and subatomic particles spontaneously it is in essence an attribute of individual atomic nuclei radioactive decay is a property of several naturally occurring elements as well as of artificially produced isotopes of the elements

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quantum physics yet even though it has only 10 15 of the volume of the atom the nucleus contains more than 99 9 of the

mass of the atom the nucleus is very small but very massive that was not predicted try to imagine the surprise and disbelief of scientists in 1911 when ernest rutherford discovered this incredible fact

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over 3 000 different kinds of atomic nuclei have been discovered in elements that span the periodic table yet each one has unique properties some may exist forever others transform within a fraction of a second some can power satellites as they travel to the outer reaches of the solar system others have special properties that allow them to treat different forms of cancer

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radioactivity some nuclides have an atomic nucleus that decays spontaneously without any external influence known as radionuclides they transform themselves into other nuclei ionising radiation is emitted during this process this is known as radioactivity

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it some future development of atomic theory perhaps a modification of the thomson model would most likely yield a causal explanation of radioactivity in terms of the internal structure of the atom

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atomic physics deals with the atom as a system consisting of a nucleus and electrons nuclear physics deals with the nucleus as a system consisting of nucleons protons and neutrons the main difference is in the scale while the term atomic deals with 1Å 10 10 m where Å is an ångström according to anders jonas Ångström the term