

The modified atomic nucleus model

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Abstract

The atomic nucleus should be made by neutrons and protons in one line alignment. They will be arranged as N-P-N-P-N-P or N-P-N-P-N to reduce the energy as low as it can. Neutrons and protons arrange in opposite magnetic field. Thus, protons can generate opposite magnetic field compared to neutrons. Thus, the two directions of the magnetic fields generated by protons and neutrons can let electrons to orbit the nucleus by forming two opposite directional standing waves.

Main text

The atom nucleus model is still a puzzle. Here, I propose a new model to explain the relation between protons and neutrons. If N stands for neutron and P stands for proton, then they will align in one line as:

N-P-N-P-N-P or N-P-N-P-N-P-N

Because the magnetic moments of proton and neutron are opposite, neutrons and protons will generate opposite magnetic fields for the outer orbital electrons to rotate around the atom nucleus. That means if neutron's alignment is n-s, then proton's alignment is s-n.

Thus, the outer orbital nucleus can form two opposite directional standing wave to form a stable atomic structure.