

# Electromagnetic nature of nuclear forces and the toroid structure of the helion and the alpha particle

Kiril Kolikov

Plovdiv University "P. Hilendarski", Plovdiv, Bulgaria; [kolikov@uni-plovdiv.bg](mailto:kolikov@uni-plovdiv.bg)

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## ABSTRACT

In the present paper, we consider the nucleons in the helium-3 and helium-4 nuclei as tori. These tori rotate with constant angular velocity around an axis, which is perpendicular to the rotation plane and passes through the centre of mass of the nuclei. Based on exact analytical expressions for the electrostatic interaction between two spheres with arbitrary radii and charges derived by us recently, we find that the well-known potential binding energy for the helion and for the alpha particle is of electromagnetic character. Using the above mentioned formulae, we find the interaction force in the nuclei under consideration. Our toroid model recovers the basic experimental results not only for the binding energy, but also for the stability, radii, spins and the magnetic moments of the helion and the alpha particle.

**Keywords:** Helion; Alpha Particle; Strong Interaction; Potential Binding Energy; Electrostatic Interaction

## 1. INTRODUCTION

There are two basic models in the theory of elementary particles: *the standard model* [1-3] and *the helicon model* [4-7].

In [8] and [9] the *toroid model* of nucleons has been proposed, which is in certain contradiction with the standard model, however in perfect agreement with the helicon model.

Every nucleon is modelled with an imaginary torus, which rotates with constant angular velocity around an axis  $z$  passing through its mass centre (the geometric centre)  $O$  and perpendicular to the rotation plane of its central circle. From quantum mechanical point of view, the nucleon is not a localized object in configuration space. Therefore, our model is valid in a formal heuristic sense à la Niels Bohr similar to his model for the electron

in the hydrogen atom, with which he obtained good results for its spectrum within the framework of the old quantum mechanics.

Additional reasoning to consider the nucleons as spatially extended objects is the fact that they are located close to each other in the atomic nuclei. Thus, we assume that they are tori and their electric charge can be redistributed. Essentially, this idea does not contradict to the quark substructure model of nucleons, and it enables us to determine the electrostatic interaction between them. Based on the exact analytical expressions for the electrostatic interaction between two charged conducting spheres with arbitrary radii and charges derived for the first time in [10], we conclude in [8] that *strong interactions are electromagnetic in nature*.

In [9], we ascertain that the experimentally determined potential binding energy between nucleons in the deuteron and triton can be obtained taking into account the electrostatic interaction only. To do that, the values of the experimentally known radii, and masses of the nucleons and the corresponding nuclei have been utilized. In [9], the volume and the mass density of nucleons, as well as their interaction force in the deuteron and the triton have been calculated—important results in nuclear physics presented for the first time.

Applying the method developed in [8,9], we calculate in the present paper the *potential energy and the interaction force* between the nucleons in the helium-3 and helium-4 nuclei. Basic experimentally measured characteristics such as *stability, spin, radius and magnetic moment* of the helion and the alpha particle are also explained.

According to R. Feynman's conjecture at distances less than  $10^{-15}$  m either Coulomb's law is not valid, or electrons and protons cannot be considered as point-like particles [11]. In accordance with this conjecture, we assume that the distance within the corresponding proton-neutron pairs is less  $10^{-15}$  m.

## 2. TOROID MODEL OF NUCLEONS

In [8,9] the nucleons are modeled as tori. Moreover, we assume that they rotate with constant angular velocity

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