Gravity, special relativity, and the strong force : a Bohr-Einstein-de Broglie model for the formation of hadrons

Vayenas, Constantinos G., author

Abstrak

This book shows that the strong interaction forces, which keep hadrons and nuclei together, are relativistic gravitational forces exerted between very small particles in the mass range of neutrinos. This book considers the motion of two or three charged particles under the influence of electrostatic and gravitational forces only, which shows that bound states are formed by following the same semi-classical methodology used by Bohr to describe the H atom. This approach is also coupled with Newton’s gravitational law and with Einstein’s special relativity.