XXV International Baldin Seminar on High Energy Physics Problems "Relativistic Nuclear Physics and Quantum Chromodynamics"



Contribution ID: 145

Type: not specified

New method of the solution of Bethe-Salpeter equation.

The Bethe-Salpeter equation is the powerfull method to investigate bounds states in QCD. Usually this equation is written in momentum space. In this report we rewrite Bethe-Solpiter in coordinate space. In 4-dimension Eucledian space equation describing bound state for a system of 2 scalar particles interacting via exchange of massive scalar particle has a form of 4-order differential equation. Comparision to another approaches and advantage of proposed method are discussed.

Primary author: DORKIN, Sergey (BLTPH) Presenter: DORKIN, Sergey (BLTPH)

Session Classification: Parallel: Structure functions of hadrons and nuclei