

ABOUT STRONG INTERACTION OF FUNDAMENTAL PARTICLES

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Here, by proceeding from the previous consideration of the problem of interaction [1], we concentrate upon the main properties of strong interaction of hadrons. It is demonstrated that, due to the unusual character of the field propagator in a fiber (at very small distances) where strong interaction is switched on, a new symmetric Green function is used as a field propagator. As a result, the unitary scattering matrix of strong interaction is represented as a T_s -time ordered chronological exponent. It is shown that the particle skeleton algebra plays an important role in finding the full interaction Lagrangian. Coupling constants of strong interactions are determined. They are fixed by the *a priori* standardization of fundamental particle fields. In connection with this, the principle of associative particle creation is formulated. The puzzle of charmed particle existence is guessed. In Appendix, the radiative corrections to the nucleon mass and the masses of η , π , K mesons transferring the strong interactions are calculated.