

ELEMENTARY PARTICLES IN A NEW
QUANTUM SCHEME. 1

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Proceeding from the principles of the non-unitary quantum theory of relativistic bi-Hamiltonian systems [1], a system of Lagrangian fields characterized by a certain dispersion law (particle mass spectrum), interactions between fields, and their coupling constants are derived. The mass spectrum formula for "bare" fundamental hadrons is obtained and the *a priori* normalization of particle fields is found in the realistic model of a bi-Hamiltonian system. Numerical values of some dimensionless parameters of the present theory are determined.