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Notes to Modernization of the Standard Model

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Probably, physics of particles must consist of two parts. Low energy -standard model. High energy $> 10^5$ GeV - the early Universe. The first step to modernization of Standard model is insertion of quarks with electric charges $q = -\frac{2}{3}$ and $q = \frac{1}{3}$ in its high energy part. During baryon genesis has determined the quark composition of protons and neutrons. Baryon genesis was realized on energies $\sim 10^2 - 10^3$ GeV fixed baryon asymmetry after decay of the competition reaction. Besides, the composite model of elementary particles is more acceptable with cosmological point of view because of its consequences are printed in baryon large scale structure of the Universe.

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