

The baryon asymmetry in the framework of the Kaluza-Klein theory

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The possibility of describing the origin of the baryon asymmetry is discussed within the framework of the Kaluza-Klein approach. The approach allows to obtain a mechanism similar to the Affleck–Dine mechanism from the dynamics of extra-space metric. The baryon number arises as a result of U(1)-symmetrization of extra dimensions at low energies. Baryon asymmetry is generated due to perturbations in the extra-space occurring in the early Universe.

Primary author(s) : NIKULIN, Valeriy

Co-author(s) : Prof. RUBIN, Sergey

Presenter(s) : NIKULIN, Valeriy

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