

Phenomenology 2017 Symposium



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Unification and Local Baryon Number

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We investigate the possibility to find an ultraviolet completion of extensions of the Standard Model where baryon number is a local symmetry. A simple theory based on $SU(4)C \otimes SU(3)L \otimes SU(3)R$ where baryon number is embedded in a non-Abelian gauge symmetry is introduced. We discuss the main features of the theory and the possible implications for experiments.

Summary

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