

Phenomenology 2018 Symposium



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Probing baryogenesis with displaced vertices at the LHC

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In a large class of baryogenesis models, where the baryon asymmetry results from the out of equilibrium decay of new weak scale massive meta-stable particle. This is correlated to the proper decay length of the meta-stable particle being larger than 1 mm. We discuss the new search strategies for probing these long lived particles at the LHC with displaced vertices and MET mainly focusing on simplified models with weak scale singlets coupled via Higgs portal.

Summary

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