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## **Baryogenesis in the Standard Model EFT with dim 6 terms**

*Friday 25 September 2020 09:00 (20 minutes)*

In this talk I present the study of Higgs boson observables at the LHC and their impact on electroweak baryogenesis in the context of Standard Model effective field theory with the inclusion of dimension 6 operators of Higgs and fermion fields. I will also discuss how these new terms can generate an electric dipole moment of leptons and thus add further constraints to produce the baryon asymmetry. I present the main results when considering a single fermion flavor term or for combinations of two flavors. For each case, the results of the identification of which observables constrain more severely the new terms and the interplay of the complementary constraints to identify viable regions of parameter space is also presented.

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