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Constraining the Higgs-gauge couplings through differential SMEFT analyses

Wednesday 15 April 2020 14:30 (30 minutes)

In this talk, I will focus on the measurements of the Higgs couplings to the electroweak bosons, in the context of an effective field theory. I will also discuss the possibility of strongly constraining the couplings affecting the charged triple gauge boson vertices upon studying the Zh and Wh channels in the boosted Higgs regime. Finally, I will discuss the prospects of disentangling the various tensor structures in the hZZ/hWW vertices upon considering the full analytical structure of the Zh/Wh production and using the full angular information to resurrect the interference terms, using the method of moments technique. The various angular structures will thus be utilised differentially in order to maximise sensitivity to such anomalous couplings.

Presenter: BANERJEE, Shankha (University of Durham (GB))