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CoDEx: Matching BSMs to SMEFT

Wednesday, 14 September 2022 11:45 (45 minutes)

I will present the Mathematica package - CoDEx that integrates out heavy fields of spin-0, 1/2, 1 and computes SMEFT effective operators up to mass dimension-6 and associated Wilson coefficients upto 1-loop-level in terms of the model parameters. The computation of Wilson coefficients is based on the evaluation of effective action formulae. I will discuss model implementation in CoDEx, technical details and future directions.

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