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Techniques for SMEFT fit

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Given the absence of clear New Physics signals, Effective Field Theories (EFTs) are being exploited to provide model-independent descriptions of phenomena lying at energies above current direct reach. Interpreting measurements under these extended frameworks often requires complex likelihood fits of multidimensional phase spaces. In this talk we highlight some of the techniques currently being explored and/or applied to address challenges arising from the difficulty in constraining the entire phase space, from correlations existing between the coefficients being fitted, and from intractable likelihood functions. We focus on Standard Model EFT, but also cover other EFT types.

Declaration

I certify that I have checked that I am authorised to submit the abstract with the listed co-authors with their current affiliations

Change of Speaker

I understand that change of speaker is allowed provided that no participant gives more than one talk. Otherwise, we will ask the speaker to choose between one or the other abstract to be presented.

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