

7th General Meeting of the LHC EFT Working Group

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CERN

Book of Abstracts

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Two-loop RGEs from geometry

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RGE calculations in EFTs can be carried out efficiently in a geometric picture, where field redefinitions are just coordinate changes. Building on an old method introduced by 't Hooft in 1973, we extend the geometric formulation for scalar theories to the two-loop order and derive the counterterms which renormalize the theory at two loops. As applications of our results, we derive the two-loop counterterms and RGE for the $O(n)$ EFT to dimension six, the scalar sector of the SMEFT to dimension six, and chiral perturbation theory to order p^6 .

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MFV Hilbert Series (Remote)

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Going beyond EFT

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HEFT matching / matching 2HDM

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New developments in automated and functional matching

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ML-informed STXS

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Recent LHCb results in $b \rightarrow c l \bar{\nu}$ and $b \rightarrow s l l$

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CMS Flavour Measurements of interest for EFT fits

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B-Physics EFT in ATLAS

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Towards a truly global SMEFT analysis without flavor assumptions

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Model interpretation of triple gauge neutral couplings

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