



The Fermion Sector of the SMEFT from Asymptotic Safety

Astrid Eichhorn, Moritz Gessner and Shouryya Ray

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- Use the FRG to flow from asymptotically safe UV fixed point to experimental scales

$$S_{\text{SMEFT}} = S_{\text{SM}} + \sum_{D>4} \sum_i \frac{c_i}{\Lambda_{\text{UV}}^{D-4}} \int d^4x O_{i,D} \supset (\psi^\dagger \bar{\sigma}^\mu \psi)(\psi^\dagger \bar{\sigma}_\mu \psi) \text{ with } \text{SU}(2)_L \times \text{U}(1)_Y \text{ Weyl fermions}$$

