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SMEFT, a theory for SM deviations (15' + 5')

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After the LHC Run 1, the standard model (SM) of particle physics has been completed. Yet, despite its successes,
the SM has shortcomings vis-à-vis cosmological and other observations. At the same time, while the LHC restarts
for Run 2 at 13 TeV, there is presently a lack of direct evidence for new physics phenomena at the accelerator energy
frontier. From this state of affairs arises the need for a consistent theoretical framework in which deviations from
the SM predictions can be calculated and compared to precision measurements. Such a framework should be able to
comprehensively make use of all measurements in all sectors of particle physics, including LHC Higgs measurements,
past electroweak precision data, electric dipole moment,
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