

# Quantum field theory meets gravity

DESY THEORY WORKSHOP

HELMHOLTZ  
RESEARCH FOR GRAND CHALLENGES

## Quantum field theory meets gravity



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## New physics searches at the LHC: the SMEFT approach

*Wednesday 25 September 2019 18:00 (30 minutes)*

I will give a brief introduction to the Standard Model Effective Field Theory (SMEFT) and discuss how its parameters can be constrained with global analyses of LHC data, allowing to extract information on physics beyond the SM with a minimum bias. As a case study, I will present the preliminary results of a fit to top quark measurements and illustrate some interesting features of this analysis.

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