

WG6 future directions

1. Flavor assumptions for the Top/Higgs/EW sectors

The SMEFT parameter space is vast, primarily due to flavor. Flavor symmetries and symmetry-breaking patterns can reduce the number of operators relevant to the Top/Higgs/EW sector. The goal of this discussion line is to come up with the optimal set of assumptions working closely with Area 1 and 3, but also considering the input from flavor physics.

2. EFT in flavor physics

The most considerable portion of the SMEFT parameter space, i.e., flavor-violating operators, is efficiently probed by low-energy precision physics. This discussion line focuses on the EFT methods/developments in flavor physics that can be applied to, e.g., the LHCb experiment.

3. Complementarity of low- p_T and high- p_T measurements

There is a significant parameter space in the SMEFT where both low-energy and high-energy phenomenology come into play. The examples include b physics versus top physics and high-mass Drell-Yan. This discussion line will focus on the interplay and complementary between flavor and high-energy sectors.