

Preparation of a PO writeup

Outline of envisioned content:

- **Definition of what POs are**
 - clarifications how they are different from fiducial measurements, "old style" μ/κ measurements, and EFT operator measurements
- **POs obtained from "Simplified Cross Section" (the proposal from LesHouches 1+2)**
 - main use is for Higgs production modes, factorizing for each signal process theory uncertainties and regions with high BSM potential
 - Could also serve to separate regions where EFTs might not be valid
 - Need to clearly specify objects: jets, leptons, ...
- **POs giving continuous deformations**
 - main use is $H \rightarrow VV$ and $H \rightarrow ff$ decays
 - So far a concrete proposal is missing for continuous deformations (e.g. CP-odd admixtures or similar) of production mode kinematics that are based on observable quantities (not EFT operators). This is mostly needed for VH and VBF , but also for $ggH+2j$ or $t\bar{t}H$.