

Heavy Higgs things

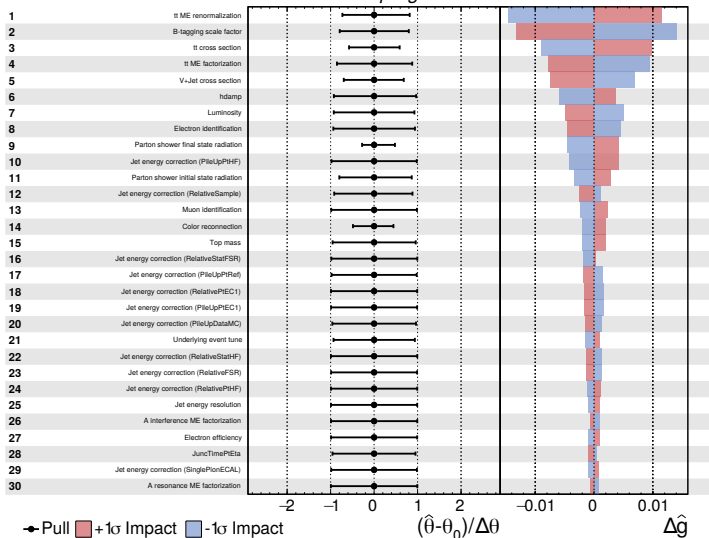
Jonas Rübenach
EXO Meeting
October 2, 2020



Impacts for 2018 Pseudoscalar 400 GeV

Part 1/2, statistical uncertainties not shown

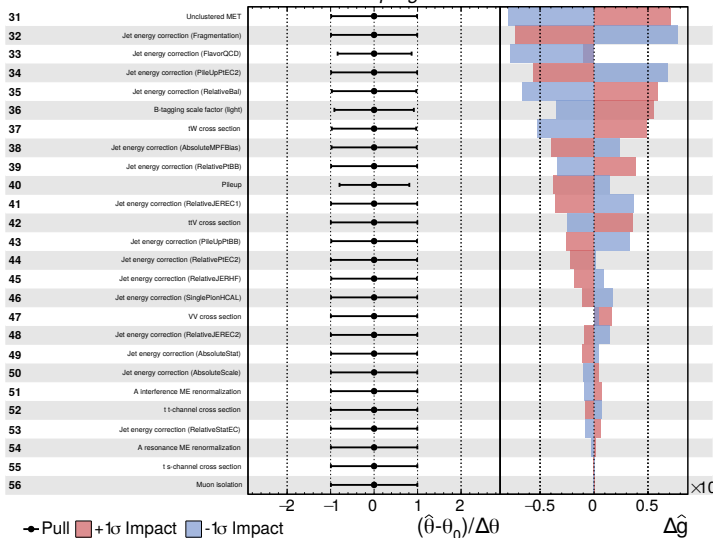
CMS Work in progress



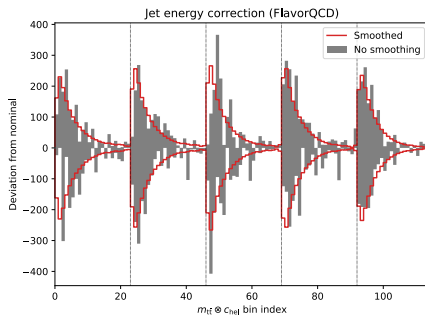
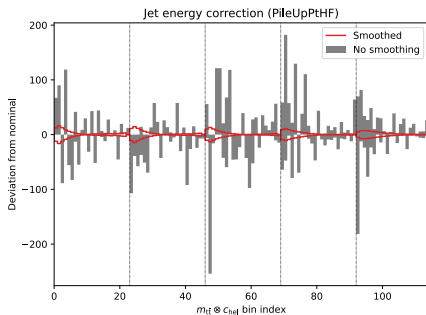
Impacts for 2018 Pseudoscalar 400 GeV

Part 2/2, statistical uncertainties not shown

CMS Work in progress



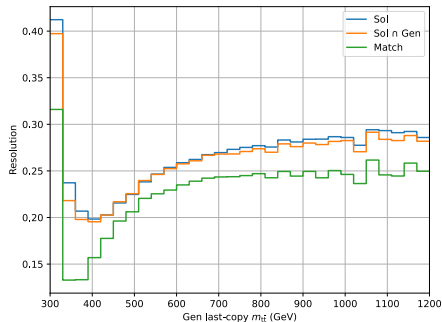
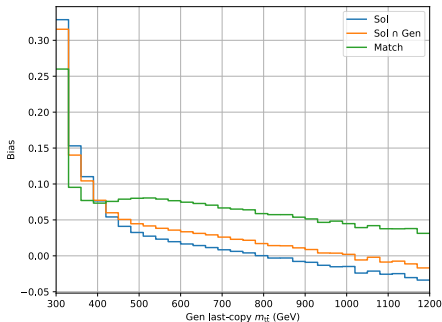
Looking at the smoothing



- PileUpPthF has the largest impact of all JEC uncertainties at the moment
- FlavorQCD had the largest impact of all JEC uncertainties in 2016
- Note: Natural width vs 2016 difference (3% vs 10 %)

Validation of Sonnenschein

Definitions as in Afiq's thesis



- 25% resolution
- Overall looks very similar to Afiq's plots

Thank you