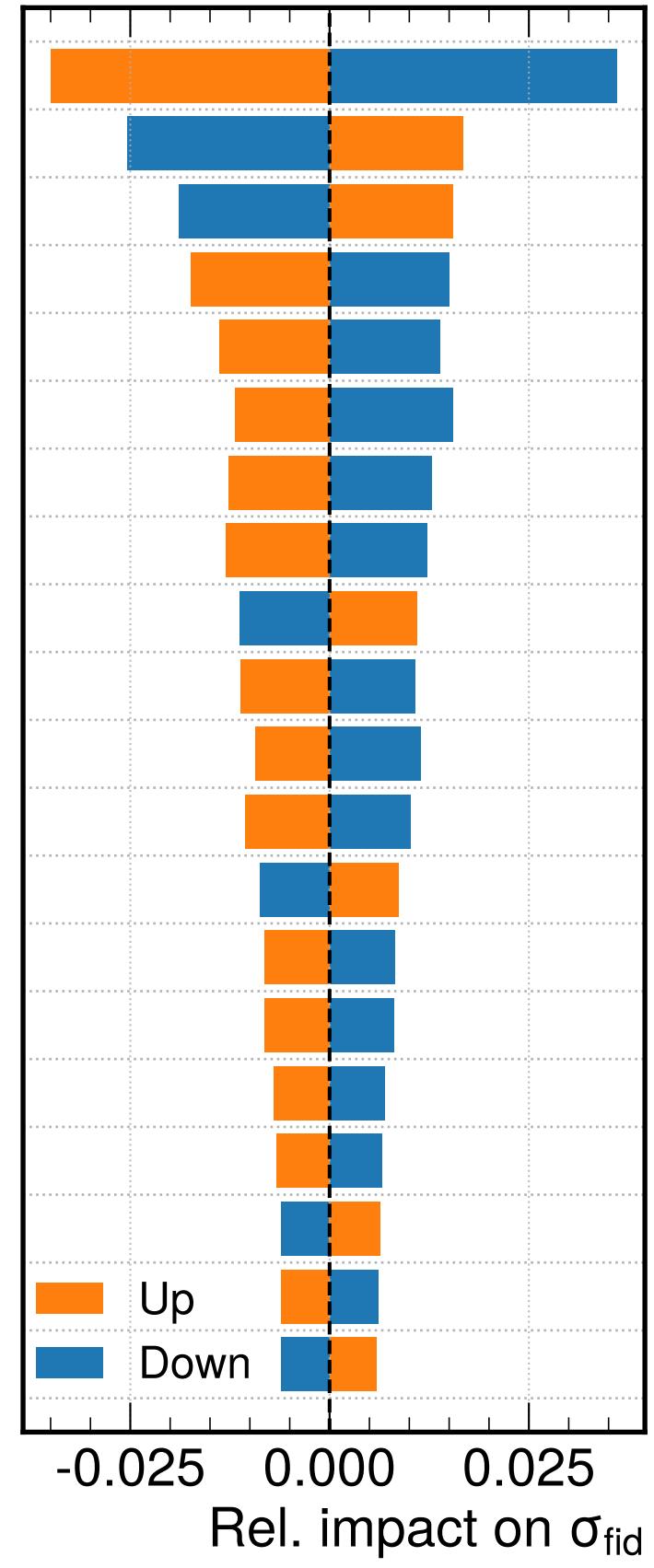


CMS

- 1 - b tagging (b jets, calibration methods)
- 2 - Parton shower FSR ($t\bar{t}$ +light)
- 3 - Renormalization scale norm ($t\bar{t}B$ OOA)
- 4 - Renormalization scale ($t\bar{t}$)
- 5 - Jet energy scale (Absolute)
- 6 - Parton shower ISR ($t\bar{t}B$)
- 7 - Luminosity (2016,2017,2018)
- 8 - b tagging (b jets, tight WP, 2018)
- 9 - b tagging (light jets, medium WP 2017)
- 10 - Colour reconnection (QCD based)
- 11 - Renormalization scale ($t\bar{t}B$)
- 12 - b tagging (b jets, tight WP, 2016postVFP)
- 13 - b tagging (light jets, medium WP 2018)
- 14 - Jet energy scale (BBEC1)
- 15 - b tagging (light jets)
- 16 - Jet energy scale (Relative sample, 2016)
- 17 - Luminosity (2018)
- 18 - Level-1 prefireing
- 19 - Electron trigger (2016ULpreVFP)
- 20 - Jet energy scale (bottom)

-2 0 2
Post-fit nuisance values

138 fb^{-1} (13 TeV)



Phase space: ≥ 5 jets: $\geq 3b$
Observable: $|\eta(b_3)|$