



- Z $\gamma$  Norm
- W $\gamma$  Norm
- Wt $\gamma$  Norm
- Wt Norm
- uncalib\_ljet
- uncalib\_cjet
- uncalib\_bjet
- tty\_prod\_var3c
- tty\_prod\_muR
- tty\_prod\_muF
- tty\_prod\_PDF4LHC\_5
- tty\_prod\_PDF4LHC\_4
- tty\_prod\_PDF4LHC\_28
- tty\_prod\_PDF4LHC\_22
- tty\_prod\_PDF4LHC\_2
- tty\_prod\_PDF4LHC\_19
- tty\_prod\_PDF4LHC\_17
- tty\_prod\_PDF4LHC\_16
- tty\_prod\_PDF4LHC\_12
- tty\_prod\_PDF4LHC\_11
- tty\_prod\_Herwig7
- tty\_dec\_var3c
- tty\_dec\_muR
- tty\_dec\_muF
- tty\_dec\_fsr
- tty\_dec\_PDF4LHC\_8
- tty\_dec\_PDF4LHC\_6
- tty\_dec\_PDF4LHC\_5
- tty\_dec\_PDF4LHC\_4
- tty\_dec\_PDF4LHC\_28
- tty\_dec\_PDF4LHC\_22
- tty\_dec\_PDF4LHC\_2
- tty\_dec\_PDF4LHC\_19
- tty\_dec\_PDF4LHC\_17
- tty\_dec\_PDF4LHC\_11
- tty\_dec\_PDF4LHC\_1
- tty\_dec\_Herwig7
- ttbar\_var3c
- ttbar\_pt\_hard
- ttbar Norm
- ttbar\_muR
- ttbar\_muF
- ttbar\_hdamp\_var
- ttbar\_Herwig7
- ty(t channel) Norm
- hfakeSF
- efakeSF
- diboson Norm
- Wty\_muR
- Wty\_muF
- Wty\_Herwig7
- Wt\_muR
- Wt\_Herwig7
- Photon\_effIso
- Photon\_ID
- PileupRW
- Muon\_SF\_Trigger\_SYST
- Muon\_SF\_Isol\_STAT
- Muon\_SF\_Isol\_SHERPA\_POWHEG
- Muon\_SF\_Isol\_MLLWINDOW
- Muon\_SF\_ID\_TRUTH
- Muon\_SF\_ID\_PT\_DEPENDENCY
- MUON\_SCALE
- MUON\_MS
- MUON\_ID
- MET\_SoftTrk\_Scale
- MET\_SoftTrk\_ResoPerp
- MET\_SoftTrk\_ResoPara
- Luminosity
- JVTscalefactor
- JET\_Pileup\_RhoTopology
- JET\_Pileup\_PtTerm
- JET\_Pileup\_OffsetNPV
- JET\_Pileup\_OffsetMu
- JET\_JER\_EffectiveNP\_9
- JET\_JER\_EffectiveNP\_8
- JET\_JER\_EffectiveNP\_7
- JET\_JER\_EffectiveNP\_6
- JET\_JER\_EffectiveNP\_5
- JET\_JER\_EffectiveNP\_4
- JET\_JER\_EffectiveNP\_3
- JET\_JER\_EffectiveNP\_2
- JET\_JER\_EffectiveNP\_12restTerm
- JET\_JER\_EffectiveNP\_11
- JET\_JER\_EffectiveNP\_10
- JET\_JER\_EffectiveNP\_1
- JET\_JER\_DataVsMC\_MC16
- JET\_Flavor\_Response
- JET\_Flavor\_Composition
- JET\_EtaIntercalibration\_TotalStat
- JET\_EtaIntercalibration\_NonClosure\_posEta
- JET\_EtaIntercalibration\_NonClosure\_negEta
- JET\_EtaIntercalibration\_NonClosure\_2018data
- JET\_EtaIntercalibration\_Modelling
- JET\_EffectiveNP\_Statistical4
- JET\_EffectiveNP\_Statistical2
- JET\_EffectiveNP\_Modelling4
- JET\_EffectiveNP\_Modelling3
- JET\_EffectiveNP\_Modelling2
- JET\_EffectiveNP\_Modelling1
- JET\_EffectiveNP\_Mixed3
- JET\_EffectiveNP\_Mixed2
- JET\_EffectiveNP\_Mixed1
- JET\_EffectiveNP\_Detector1
- JET\_BJES\_Response
- Electron\_Iso\_SF\_0
- Electron\_ID\_SF\_29
- EG\_SCALE\_ALL
- EG\_RESOLUTION\_ALL
- BTag\_Light\_9
- BTag\_Light\_8
- BTag\_Light\_7
- BTag\_Light\_5
- BTag\_Light\_4
- BTag\_Light\_3
- BTag\_Light\_16
- BTag\_Light\_14
- BTag\_Light\_12
- BTag\_Light\_1
- BTag\_Light\_0
- BTag\_C\_9
- BTag\_C\_8
- BTag\_C\_7
- BTag\_C\_5
- BTag\_C\_4
- BTag\_C\_3
- BTag\_C\_2
- BTag\_C\_19
- BTag\_C\_17
- BTag\_C\_15
- BTag\_C\_14
- BTag\_C\_13
- BTag\_C\_12
- BTag\_C\_11
- BTag\_C\_10
- BTag\_C\_1
- BTag\_C\_0
- BTag\_B\_7
- BTag\_B\_36
- BTag\_B\_35
- BTag\_B\_3
- BTag\_B\_28
- BTag\_B\_22
- BTag\_B\_21
- BTag\_B\_2
- BTag\_B\_1
- BTag\_B\_0