



tt theory\_uncer  
wjet theory\_uncer  
tt scale  
tt hdamp  
tt PS  
tt PDF  
tt ISR  
tt FSR  
ttV theory\_uncer  
top theory\_uncer  
tauRecon\_TOTAL  
tauEveto\_TOTAL  
ttH theory\_uncer  
signal scale  
signal PS  
signal PDF  
signal FSR  
muTrigger\_Syst  
muTrigger\_Stat  
jvt  
fakeSF\_3p\_pt2\_w\_jet\_fake\_ss  
fakeSF\_3p\_pt2\_w\_jet\_fake\_os  
fakeSF\_3p\_pt2\_b\_fake  
fakeSF\_3p\_pt1\_w\_jet\_fake\_ss  
fakeSF\_3p\_pt1\_b\_fake  
fakeSF\_3p\_pt0\_w\_jet\_fake\_ss  
fakeSF\_3p\_pt0\_b\_fake  
fakeSF\_1p\_pt2\_w\_jet\_fake\_ss  
fakeSF\_1p\_pt2\_w\_jet\_fake\_os  
fakeSF\_1p\_pt2\_other\_fake  
fakeSF\_1p\_pt2\_b\_fake  
fakeSF\_1p\_pt1\_w\_jet\_fake\_ss  
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fakeSF\_1p\_pt0\_b\_fake  
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diboson theory\_uncer  
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TAU\_PLIV  
TES\_PHYSICSLIST  
TES\_MODEL\_CLOSURE  
TES\_INSITUFIT  
TES\_INSITUEXP  
TES\_DETECTOR  
PRW  
Mu\_TTVA\_SYST  
Mu\_TTVA\_STAT  
Mu\_Iso\_SYST  
Mu\_Iso\_STAT  
Mu\_ID\_SYST  
Mu\_ID\_STAT  
MUON\_MS  
MET\_SoftTrk\_Scale  
MET\_SoftTrk\_ResoPerp  
MET\_SoftTrk\_ResoPara  
MEDIUM\_tauID\_SYST  
MEDIUM\_tauID\_HIGHPT  
MEDIUM\_tauID\_3PGE40  
MEDIUM\_tauID\_3P3040  
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LumiUncertainty  
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JET\_Pileup\_PtTerm  
JET\_Pileup\_OffsetNPV  
JET\_Pileup\_OffsetMu  
JET\_JER\_DataVsMC\_MC16  
JET\_Flavor\_Response  
JET\_Flavor\_Composition  
JET\_EtaInt\_TotalStat  
JET\_EtaInt\_NonClosure\_posEta  
JET\_EtaInt\_NonClosure\_2018data  
JET\_EtaInt\_Modelling  
JET\_BJES\_Response  
JES\_Statistical6  
JES\_Statistical2  
JES\_Modelling3  
JES\_Modelling2  
JES\_Modelling1  
JES\_Mixed3  
JES\_Mixed2  
JES\_Mixed1  
JES\_Detector1  
JER\_6  
JER\_5  
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JER\_2  
JER\_1  
HttBR  
El\_Reco  
El\_Iso\_FCLoose  
El\_ID\_TightLH  
El\_ChargeMisID\_SYST  
El\_ChargeMisID\_STAT  
EG\_RESOLUTION\_ALL  
ABCD muon  
ABCD electron

-2 -1 0 1 2  
 $(\theta - \theta_0) / \Delta\theta$