



tt hdamp  
tt PS  
tauRecon\_TOTAL  
tauEveto\_TOTAL  
signal PS  
scale  
muTrigger\_Syst  
muTrigger\_Stat  
jvt  
fakeSF\_3p\_pt2\_w\_jet\_fake\_ss  
fakeSF\_3p\_pt2\_w\_jet\_fake\_os  
fakeSF\_3p\_pt2\_other\_fake  
fakeSF\_3p\_pt2\_b\_fake  
fakeSF\_3p\_pt1\_w\_jet\_fake\_ss  
fakeSF\_3p\_pt1\_w\_jet\_fake\_os  
fakeSF\_3p\_pt1\_other\_fake  
fakeSF\_3p\_pt1\_b\_fake  
fakeSF\_3p\_pt0\_w\_jet\_fake\_ss  
fakeSF\_3p\_pt0\_w\_jet\_fake\_os  
fakeSF\_3p\_pt0\_other\_fake  
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  
fakeSF\_1p\_pt1\_w\_jet\_fake\_os  
fakeSF\_1p\_pt1\_other\_fake  
fakeSF\_1p\_pt1\_b\_fake  
fakeSF\_1p\_pt0\_w\_jet\_fake\_ss  
fakeSF\_1p\_pt0\_w\_jet\_fake\_os  
fakeSF\_1p\_pt0\_other\_fake  
fakeSF\_1p\_pt0\_b\_fake  
eTrigger  
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TES\_PHYSICSLIST  
TES\_MODEL\_CLOSURE  
TES\_INSITUFIT  
TES\_INSITUEXP  
TES\_DETECTOR  
PRW  
PDF  
Mu\_TTVA\_SYST  
Mu\_Iso\_SYST  
Mu\_Iso\_STAT  
Mu\_ID\_SYST  
Mu\_ID\_STAT  
MUON\_SCALE  
MUON\_MS  
MUON\_ID  
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MET\_SoftTrk\_ResoPerp  
MET\_SoftTrk\_ResoPara  
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LumiUncertainty  
JET\_SingleParticle\_HighPt  
JET\_PunchThrough\_MC16  
JET\_Pileup\_RhoTopology  
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\_negEta  
JET\_EtaInt\_NonClosure\_2018data  
JET\_EtaInt\_Modelling  
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JER\_5  
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JER\_1  
ISR  
HttBR  
FSR  
EI\_Reco  
EI\_ID\_TightLH  
EI\_ChargeMisID\_SYST  
EI\_ChargeMisID\_STAT  
EG\_SCALE\_ALL  
EG\_SCALE\_AF2  
EG\_RESOLUTION\_ALL  
 $\alpha_s$   
ABCD muon  
ABCD electron

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