



ztt theory_uncer
wjtt theory_uncer
t scale
t hdamp
t PS
t PDF
t ISR
t 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
fakeSF_1p_pt1_b_fake
fakeSF_1p_pt0_w_jet_fake_ss
fakeSF_1p_pt0_b_fake
eTrigger
diboson theory_uncer
btag_Light_8
btag_Light_7
btag_Light_4
btag_Light_3
btag_Light_19
btag_Light_18
btag_Light_17
btag_Light_16
btag_Light_15
btag_Light_14
btag_Light_13
btag_Light_12
btag_Light_11
btag_Light_1
btag_Light_0
btag_C_9
btag_C_8
btag_C_7
btag_C_5
btag_C_3
btag_C_19
btag_C_18
btag_C_17
btag_C_15
btag_C_14
btag_C_13
btag_C_11
btag_C_10
btag_C_1
btag_C_0
btag_B_9
btag_B_8
btag_B_7
btag_B_6
btag_B_5
btag_B_43
btag_B_42
btag_B_41
btag_B_40
btag_B_4
btag_B_39
btag_B_37
btag_B_36
btag_B_35
btag_B_33
btag_B_31
btag_B_30
btag_B_3
btag_B_29
btag_B_28
btag_B_27
btag_B_26
btag_B_25
btag_B_23
btag_B_22
btag_B_21
btag_B_20
btag_B_2
btag_B_19
btag_B_18
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btag_B_16
btag_B_15
btag_B_14
btag_B_13
btag_B_12
btag_B_11
btag_B_10
btag_B_1
btag_B_0
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
MEDIUM_tauID_3P2530
MEDIUM_tauID_1PGE40
MEDIUM_tauID_1P3040
MEDIUM_tauID_1P2530
LumiUncertainty
JET_Pileup_RhoTopology
JET_Pileup_PtTerm
JET_Pileup_OffsetNPV
JET_Pileup_OffsetMu
JET_JER_DataVsMC_MC16
JET_Flavor_Response
JET_Flavor_Composition $t_{\text{had}}^{\tau} t_{\text{had}}^{\tau}$
JET_Flavor_Composition $t_{\text{had}}^{\tau} 2j$
JET_Flavor_Composition $t_{\text{had}}^{\tau} 1j$
JET_Flavor_Composition $t_{\text{had}}^{\tau} t_{\text{lep}}^{\tau} 3j$
JET_Flavor_Composition $t_{\text{had}}^{\tau} t_{\text{lep}}^{\tau} 2j$
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
JER_4
JER_3
JER_2
JER_1
HttBR
EI_Reco
EI_Iso_FCLoose
EI_ID_TightLH
EI_ChargeMisID_SYST
EI_ChargeMisID_STAT
EG_RESOLUTION_ALL
ABCD muon
ABCD electron