μ_top_tlhad1j	100.0 -28.2 -13.6 -2.3 -3.8	4.6 10.6 -3.8 -6	5.7 -4.8 -1.7 16.	1 2.2 9.9 4	.9 3.4 -12.6	-6.4 -4.5	6.3 14.1 -1	.8 -1.8 -	-6.0 1.1 0.7	-1.0 -1.	.4 -19.0	7.0 3.1 3.0	0.2 0	1.4 2.5 -4.6	3.5 5.6	3.3 -0.4 -6.0	-5.2 -5.9	-6.8 -1.8	-4.8 1.2	35.4 -9.4 -	6.3 -52.1 -18	7 -5.7
ABCD electron	-28.2 100.0 -21.7 -0.5 -0.8	0.6 -6.7 1.3 0	1.4 3.3 0.6 -4.	7 -0.5 -0.3 -0	2.9 -3.0 29.6	3.2 2.5	0.9 24.4 0.	.5 -0.0	-1.8 -4.1 -0.4	-0.4 -2	.3 -6.3	4.7 3.2 1.2	0.8	0.1 1.2 0.4	0.2 -0.2	0.7 0.1 +2.1	-3.0 0.4	0.4 -1.1	-1.0 0.1	14.7 3.3	0.9 8.0 6.	-0.5
ABCD muon	-13.6 -21.7 100.0 -0.2 -0.4	0.2 -3.3 0.6 0	1.6 0.3 -2.	3 -0.2 -0.2 -1	.4 -1.4 14.2	1.6 1.2	0.4 11.8 0.	3 -0.0	-0.9 -1.9 -0.3	-0.2 -1	1.1 +3.0 2	2.3 1.5 0.6	0.4	0.1 0.6 0.2	0.1 -0.1	0.3 0.0 -1.0	-1.4 0.2	0.2 +0.5	-0.5 0.1	7.1 1.6	0.4 3.9 3.	-0.2
EI_ChargeMisID_SYST EI_ID_TightLH	-3.8 -0.8 -0.4 0.0 100.0	-0.0 -0.3 0.1 0	1.1 0.0 0.0 0.	.1 -0.0 0.1 -0	0.0 -0.0 0.1	-0.1 0.1 -0.2 0.2	0.0 -0.2 0.	.1 0.0	-0.1 -0.1 0.0	0.0 -0.	10 -0.1	0.1 0.1 0.0	0.1	0.1 0.1 0.2	0.2 -0.2	0.1 0.1 -0.1	0.0 0.0	0.0 -0.0	0.0 -0.0	0.0 0.3 1	0.0 0.0 0.	-0.0
JER_1	4.6 0.6 0.2 -0.0 -0.1	100.0 1.2 -0.0 -0	0.2 -0.0 -0.1 -0.	2 0.0 -0.5 0	.0 -0.0 1.5	0.8 +0.5	-0.3 2.4 0.	.0 -0.0	0.4 0.5 0.2	-0.0 0:	.0 0.6 -	0.1 -0.2 0.0	-0.5	1.4 -0.6 -0.8	-0.6 0.8	-0.4 -0.5 0.2	-0.1 -0.2	-0.1 0.1	-0.1 -0.0	-0.9 -1.5	0.1 0.1 -0.	-0.1
JER_2	10.6 -6.7 -3.3 -0.3 -0.5	1.2 100.0 -0.8 -1	1.1 0.4 -0.1 0:	1 0.4 0.3 -0	0.3 -0.4 7.6	0.5 -0.3	0.6 8.2 0.	.1 -0.0	-0.3 -0.2 -0.2	0.3 -0.	.3 -1.7 (0.4 0.3 0.3	-1.0 0	1.8 -0.0 -1.5	4.1 1.7	-0.0 -0.9 -0.7	-1.6 -0.1	-0.1 -0.3	-0.7 0.1	6.4 -0.9 -	0.6 0.6 1.	-0.3
JER_3	-3.8 1.3 0.6 0.1 0.1	-0.0 -0.8 100.0 0	.2 -0.1 0.0 0.3	3 -0.1 0.5 0	1.1 0.1 -2.7	-0.9 0.3	0.2 -3.5 -0	2 0.0	-0.4 -0.4 -0.3	0.0 0.	.1 -0.3 -	0.1 0.0 -0.1	0.5	0.4 0.5 0.8	0.6 +0.8	0.3 0.4 +0.1	0.3 0.1	0.0 -0.1	0.1 -0.0	-0.1 1.2	0.1 -0.5 -0.	0.1
JER_4	-6.7 0.4 0.2 0.1 0.1	-0.2 -1.1 0.2 10	0.0 -0.1 0.1 0.1	0 -0.2 0.3 0	1.1 0.1 -2.2	-0.7 0.4	0.1 -3.3 -0	1.1 -0.0 -	-0.4 -0.4 -0.2	0.1 0.	.0 -0.4 0	0.2 0.2 +0.0	0.7 -0	0.6 0.5 1.1	0.8 -1.2	0.4 0.6 -0.3	0.4 0.1	0.0 -0.2	0.2 -0.0	·0.8 1.2	0.1 -0.4 -0.	-0.0
JER_5 JER_6	4.8 3.3 1.6 0.0 0.0	-0.0 0.4 -0.1 -0	0.1 100.0 -0.1 0.3	3 0.0 0.0 0	2 0.3 -2.3	-0.2 -0.2	-0.3 -2.2 0.	.1 -0.0 (0.4 0.6 0.2	0.0 0.	2 0.5	0.4 -0.2 -0.1	-0.2	0.1 -0.2 -0.2	-0.1 0.2	-0.1 -0.1 0.1	0.2 -0.0	-0.0 0.1	0.1 -0.0	-1.1 -0.5	0.1 -0.8 -0.	0.0
JES_Modelling1	16.1 -4.7 -2.3 -0.1 -0.1	-0.2 0.1 0.3 0	1.0 0.3 0.0 100	0 -0.0 0.1 0	0.0 0.0 0.5	0.2 0.2	0.6 3.6 0.	.1 -0.0	-0.2 -0.5 0.1	-0.1 -0.	2 0.8 (0.5 0.1 0.1	0.1 0	1.0 0.2 -0.0	0.0 0.1	0.1 -0.0 0.2	-0.3 -0.2	-0.1 0.1	-0.1 0.0	1.6 0.3	0.1 -0.0 -0.	-0.1
JET_BJES_Response	2.2 -0.5 -0.2 -0.0 -0.1	0.0 0.4 -0.1 -0	0.2 0.0 -0.0 -0.	0 100.0 -0.1 -0	0.0 -0.0 0.7	0.3 -0.2	-0.0 1.1 -0	1.1 -0.0	0.1 0.1 -0.0	-0.1 -0.	.0 0.1	0.1 -0.1 -0.0	-0.3 0	0.2 -0.2 -0.5	-0.4 0.5	-0.2 -0.3 0.2	-0.2 -0.1	0.0 0.1	-0.1 -0.0	0.5 -0.4 -	0.0 0.2 0.	0.0
JET_EtaInt_Modelling	9.9 -0.3 -0.2 0.1 0.1	-0.5 0.3 0.5 0	1.3 0.0 0.1 0.	1 -0.1 100.0 -0	0.0 0.0 -1.1	0.1 0.1	0.1 0.1 0.	.1 -0.0 (0.2 -0.0 0.2	0.0 -0.	LO 0.3 (0.0 -0.2 -0.0	0.2	0.1 -0.1 0.1	0.1 +0.2	-0.1 0.1 0.6	0.3 -0.2	-0.0 0.3	0.1 0.0	-1.3 0.1	0.1 -0.1 -0.	0.1
JET_EtaInt_NonClosure_2018data	4.9 -2.9 -1.4 -0.0 -0.0	0.0 -0.3 0.1 0	0.1 0.2 0.0 0.	2 -0.0 -0.0 10	0.0 -0.2 2.2	0.2 0.2	0.2 2.2 0.	.0 -0.0	0.2 -0.4 -0.5	-0.0 -0	0.1 +0.5 (0.3 0.2 0.1	0.1 -	0.1 0.1 0.1	0.1 -0.1	0.1 0.1 +0.1	-0.2 0.0	0.0 -0.1	-0.1 0.0	0.9 0.4	0.1 0.6 0.	-0.0
JET_EtaInt_TotalStat	3.4 -3.0 -1.4 -0.0 -0.0	-0.0 -0.4 0.1 0	0.1 0.3 0.0 0.	2 -0.0 0.0 -0	0.2 100.0 2.1	0.1 0.2	0.2 2.1 0.	.0 -0.0	-0.2 -0.4 -0.0	0.0 -0.	.2 -0.5 (0.3 0.2 0.1	0.1	0.1 0.2 0.1	0.1 -0.1	0.1 0.1 -0.0	-0.2 -0.0	0.0 -0.0	-0.1 0.0	1.1 0.4 -	0.0 0.7 0.	-0.0
JET_Flavor_Composition JET Flavor Response	-12.6 29.6 14.2 0.0 0.1	1.5 7.6 -2.7 -0	2.2 -2.3 -0.5 2.5	2 0.7 41.1 2	2 2.1 100.0	0.8 -4.0	-2.9 -25.4 -4	3 00	.2.1 1.5 .4.4	0.1 1.	5 5.6	0.5 0.1 0.0	-3.1 2	.3 -3.2 -4.0	04 07	-2.0 -2.3 -0.0	0.5 -0.3	-0.3 0.1	0.1 -0.1	9.4 -8.6	0.0 -6.3 -3.	-0.1
JET_JER_DataVsMC_MC16	-4.5 2.5 1.2 0.1 0.2	-0.5 -0.3 0.3 0	14 -0.2 0.0 0.1	2 -0.2 0.1 0	2 0.2 -4.0	-0.4 100.0	-0.2 -4.0 -0	L1 -0.0 -	-0.0 0.0 0.0	0.1 0.	.1 0.4	0.1 -0.1 -0.1	0.4	0.4 0.1 0.6	0.5 -0.7	0.1 0.4 0.3	0.6 -0.0	-0.0 0.1	0.2 -0.0	2.3 0.4	0.2 -0.9 -0.	0.1
JET_Pileup_OffsetNPV	6.3 0.9 0.4 0.0 0.0	-0.3 0.6 0.2 0	0.1 -0.3 -0.0 0.6	6 +0.0 0.1 0	2 0.2 -2.9	-0.1 -0.2	100.0 -1.6 0.	.1 -0.0 (0.2 0.4 0.3	0.0 0.	.0 0.3	0.1 -0.2 -0.0	-0.1 0	0.1 -0.2 -0.2	-0.1 0.1	-0.1 -0.1 0.4	0.2 -0.2	-0.2 0.2	0.0 0.0	-1.1 -0.5	0.0 -1.4 -1.	-0.0
JET_Pileup_RhoTopology	14.1 24.4 11.8 0.2 0.4	2.4 8.2 -3.5 -3	3.3 -2.2 -0.5 3.6	6 1.1 0.1 2	2 2.1 25.4	-0.0 -4.0	-1.6 100.0 -6	i.1 -0.0 -	-4.4 -0.1 -6.1	0.2 1.	.3 3.8	3.0 -1.8 -0.5	-3.6 2	2.6 -2.7 -4.7	-3.4 5.0	-1.7 -2.7 -0.2	-0.8 -0.4	-0.4 0.0	-0.5 -0.1	-3.0 -7.9 -	0.5 -7.1 -3.	1 -0.3
LumiUncertainty	-1.8 0.5 0.3 0.0 0.1	0.0 0.1 -0.2 -0	0.1 0.1 0.2 0:	1 -0.1 0.1 0	.0 0.0 -4.5	-0.3 -0.1	0.1 +6.1 10	-0.0	2.8 -2.4 -2.1	0.0 0.	.0 0.0	0.0 -0.0 -0.0	0.2	0.2 0.2 0.3	0.2 +0.4	0.1 0.2 0.1	0.2 0.0	0.0 0.0	0.1 -0.0	-0.4 0.5	0.1 -0.0 -0.	0.0
MEDIUM_tauID_SYST	-1.8 -0.0 -0.0 0.0 0.0	-0.0 -0.0 0.0 -0	0.0 -0.0 -0.0 -0.	0 -0.0 -0.0 -0	0.0 -0.0 -0.0	-0.0 -0.0	-0.0 -0.0 -0	.0 100.0	0.0 -0.0 -0.0	-0.0 -0.	.0 0.0 4	0.0 -0.0 -0.0	-0.0 -0	0.0 -0.0 0.0	0.0 -0.0	-0.0 -0.0 -0.0	0.0 -0.0	-0.0 0.0	0.0 -0.0	-0.0 -0.0 (0.0 0.0 0.0	-0.0
MET_SoftTrk_ResoPara MET_SoftTrk_ResoPerp	-6.0 -1.8 -0.9 -0.1 -0.1	0.4 -0.3 -0.4 -0	0.4 0.4 0.2 ·0.	2 0.1 0.2 0 5 0.1 0.0 0	1.2 -0.2 -2.1	0.2 -0.0	0.2 -4.4 -2	4 -0.0	2.9 100.0 2.7	-0.1 -0	1.1 -0.6 (0.0 -0.0 0.0	-0.0	0.0 0.3 0.0	-0.1 0.1	0.2 0.0 0.1	-0.4 -0.0	-0.0 -0.1	-0.1 0.0	2.2 0.7	0.1 0.8 0.1	-0.0
MET_SoftTrk_Scale	0.7 -0.4 -0.3 0.0 0.0	0.2 -0.2 -0.3 -0	0.2 0.2 0.2 0.	1 -0.0 0.2 -4	0.1 -0.0 -4.4	-0.4 0.0	0.3 +6.1 +2	.7 -0.0	·3.0 ·2.7 100 .	-0.0 -0.	.0 -0.2 -	0.2 -0.1 -0.1	0.1	0.2 0.3 0.2	0.1 -0.2	0.2 0.2 0.2	0.0 0.1	0.0 0.1	0.0 0.0	0.9 0.9	0.1 0.1 0.1	0.1
Mu_lso_STAT	-1.0 -0.4 -0.2 0.0 0.0	-0.0 -0.3 0.0 0	0.1 0.0 0.0 -0.	.1 -0.1 0.0 -0	0.0 -0.0 0.1	-0.1 0.1	0.0 -0.2 0.	.0 -0.0 -	-0.1 -0.1 -0.0	100.0 -0.	.0 -0.1	0.1 0.1 0.0	0.2	0.1 0.1 0.3	0.2 -0.3	0.1 0.1 0.2	0.1 0.1	0.0 -0.1	0.0 -0.0	-0.2 0.2 (0.0 -0.0 0.	-0.0
TES_DETECTOR	-1.4 -2.3 -1.1 <mark>-0.0 -0.0</mark>	0.0 -0.3 0.1 0	1.0 0.2 0.0 • 0.	2 +0.0 +0.0 +1	0.1 -0.2 1.5	0.2 0.1	0.0 1.3 0.	.0 -0.0	-0.1 -0.2 -0.0	-0.0 100	0.0 +0.3	0.2 0.2 0.1	0.0	0.0 0.1 0.0	0.0 -0.0	0.0 0.0 +0.1	-0.2 0.0	0.0 -0.1	-0.1 0.0	0.8 0.2 -	0.0 0.4 0.	-0.0
TAU_PLIV	-19.0 -6.3 -3.0 -0.1 -0.2	0.6 -1.7 -0.3 -0	0.4 0.5 0.0 0.	8 0.1 0.3 -0	0.5 -0.5 5.6	-0.1 0.4	0.3 3.8 0.	0.0	-0.6 -0.9 -0.2	-0.1 -0.	100.0	0.5 0.5 0.2	0.1 -0	0.0 0.6 0.1	0.1 -0.0	0.4 0.0 -0.6	-0.9 0.1	0.1 +0.3	-0.3 0.0	4.5 1.1	0.3 1.5 1.	-0.1
btag_B_0 btag_B_1	7.0 4.7 2.3 0.1 0.2	-0.1 0.4 -0.1 0	12 -0.4 -0.0 0.9	5 -0.1 0.0 0	3 0.3 3.2	-0.5 -0.1	-0.1 -3.0 -0	0.0 -0.0	0.0 0.3 -0.2	0.1 0.	.2 0.5 10	00.0 0.0 -0.1	0.3	0.3 0.1 0.6	0.4 -0.7	0.1 0.3 -0.5	0.6 0.1	-0.1 -0.2	0.2 -0.0	-2.8 -0.1	0.1 -1.1 -0.	-0.1
btag_B_2	3.0 1.2 0.6 0.0 0.0	0.0 0.3 -0.1 -0	0.0 -0.1 -0.0 0.	1 -0.0 -0.0 0	1.1 0.1 0.6	-0.0 -0.1	-0.0 -0.5 -0	.0 -0.0	0.0 0.1 -0.1	0.1 0.	.1 0.2	0.1 -0.0 100.6	-0.0	0.0 -0.1 0.0	0.0 -0.0	-0.0 0.0 -0.1	0.1 0.0	-0.0 -0.0	0.0 -0.0	-0.6 -0.2	0.0 -0.2 -0.	-0.0
btag_B_3	0.2 0.8 0.4 0.1 0.2	-0.5 -1.0 0.5 0	1.7 -0.2 0.1 0.	1 -0.3 0.2 0	1.1 0.1 -3.1	-0.5 0.4	-0.1 -3.6 0.	2 -0.0	-0.0 -0.0 0.1	0.2 0.	.0 0.1 0	0.3 0.3 -0.0	100.0	0.7 0.4 1.3	1.0 -1.4	0.3 0.7 -0.4	0.8 0.1	-0.0 -0.2	0.3 -0.0	-2.7 0.9	0.2 -0.9 -0.	-0.0
btag_B_37	0.4 +0.1 +0.1 +0.1 +0.2	0.4 0.8 -0.4 -0	0.6 0.1 +0.1 0.1	0 0.2 -0.1 -	0.1 -0.1 2.3	0.4 +0.4	0.1 2.6 •0	.2 -0.0 -	-0.0 0.0 -0.2	2 -0.1 -0.	LO -0.0 d	0.3 -0.2 -0.0	-0.7 10	0.0 -0.3 -1.0	-0.7 1.1	-0.2 -0.5 0.2	-0.6 -0.1	0.0 0.1	-0.2 0.0	2.0 -0.7	0.1 0.6 0.1	0.0
btag_C_0	2.5 1.2 0.6 0.1 0.2	-0.6 -0.0 0.5 0	0.5 -0.2 0.1 0.3	2 -0.2 -0.1 0	1.1 0.2 -3.2	-0.1 0.1	-0.2 -2.7 0.	2 -0.0	0.3 0.3 0.3	0.1 0.	.1 0.6 (0.1 -0.0 -0.1	0.4 -0	0.3 100.0 0.5	0.4 -0.6	-0.0 0.3 0.3	0.7 -0.1	-0.0 0.1	0.2 -0.0	-2.7 0.1	0.2 -0.8 -0.	0.1
btag_C_5	-4.6 0.4 0.2 0.2 0.3	-0.8 -1.5 0.8 1	.1 -0.2 0.2 -0.	0 -0.5 0.1 0	1.1 0.1 -4.0	-0.6 0.6	-0.2 -4.7 0.	3 0.0 (0.0 +0.1 0.2	0.3 0	.0 0.1 (0.6 0.5 0.0	1.3	1.0 0.5 100.0	1.4 <2.1	0.4 1.0 -0.5	1.1 0.2	-0.1 -0.2	0.4 -0.0	-4.1 1.2	0.3 -4.4 -4.	-0.1
btag_C_7 btag_C_8	3.5 0.2 0.1 0.2 0.3	0.6 1.1 0.6 0	12 02 02 0	0 -0.4 0.1 0	11 01 42	0.4 0.5	0.1 -3.4 0.	2 0.0 (0.0 -0.1 0.1	0.2 0:	.0 0.1 0	0.4 0.4 0.0	1.0	0.7 0.4 1.4	15 100.0	0.3 0.7 0.4	0.8 0.1	0.0 -0.2	03 -00	43 14	0.2 -0.8 -0.	-0.0
btag_Light_0	3.3 0.7 0.3 0.1 0.1	-0.4 -0.0 0.3 0	1.4 -0.1 0.1 0.	1 -0.2 -0.1 0	1.1 0.1 -2.0	-0.0 0.1	-0.1 -1.7 0.	.1 -0.0 (0.2 0.2 0.2	0.1 0.	.0 0.4 (0.1 0.1 +0.0	0.3	0.2 -0.0 0.4	0.3 -0.5	100.0 0.2 0.0	0.5 0.0	-0.0 0.0	0.2 -0.0	-2.0 0.1	0.1 -0.6 -0.	0.0
eTrigger	-0.4 0.1 0.0 0.1 0.2	-0.5 -0.9 0.4 0	1.6 -0.1 0.1 -0.	0 -0.3 0.1 0	1.1 0.1 -2.3	-0.4 0.4	-0.1 -2.7 0.	2 -0.0	0.0 -0.0 0.2	0.1 0.	.0 0.0 0.	0.3 0.2 0.0	0.7	0.5 0.3 1.0	0.7 -1.1	0.2 100.0 -0.2	0.6 0.1	-0.0 -0.1	0.2 -0.0	-2.0 0.7	0.1 -0.6 -0.	-0.0
fakeSF_1p_pt0_b_fake	-6.0 -2.1 -1.0 <mark>-0.1</mark> -0.2	0.2 -0.7 -0.1 -0	0.3 0.1 -0.0 0.3	2 0.2 0.6 4	0.1 -0.0 -0.0	-0.6 0.3	0.4 -0.2 0.	.1 -0.0	0.1 +0.1 0.2	-0.2 -0	0.1 -0.6 -	0.5 -0.4 -0.1	-0.4 0	0.3 -0.5	-0.4 0.6	0.0 -0.2 100.0	-0.5 0.0	0.1 0.3	-0.2 0.0	3.7 1.2 (0.0 0.2 0.1	0.3
fakeSF_1p_pt0_w_jet_fake_ss	-5.2 -3.0 -1.4 0.0 0.1	-0.1 -1.6 0.3 0	1.4 0.2 0.1 ·0.	3 -0.2 0.3 -0	0.2 -0.2 0.5	-0.5 0.6	0.2 -0.8 0.	2 0.0	-0.4 -0.5 0.0	0.1 -0.	.2 -0.9 (0.6 0.5 0.1	0.8	0.6 0.7 1.1	0.8 -1.2	0.5 0.6 -0.5	100.0 0.2	0.1 -0.3	0.1 0.0	0.5 1.4 (0.0 0.6 0.	-0.1
fakeSF_1p_pt1_b_fake fakeSF_1p_pt1_w_jet_fake_ss	-5.9 0.4 0.2 0.0 0.0	-0.2 -0.1 0.1 0	1.1 -0.0 0.0 -0.	2 -0.1 -0.2 0	0 0.0 0.3	0.1 -0.0	-0.2 -0.4 0	0 -0.0	0.1 -0.0 0.1	0.1 0.	.0 0.1 (0.1 0.0 0.0	0.1	0.1 -0.1 0.2	0.1 -0.2	0.0 0.1 0.0	0.2 100.0	-0.0 0.0	0.1 -0.0	-1.0 -0.3	0.0 -0.0 -0.	0.1
fakeSF_3p_pt0_b_fake	-1.8 -1.1 -0.5 -0.0 -0.1	0.1 -0.3 -0.1 -0	0.2 0.1 -0.0 0.	1 0.1 0.3 4	0.1 -0.0 0.1	-0.3 0.1	0.2 0.0 0.	0 0.0	0.0 -0.1 0.1	-0.1 -0	1.1 -0.3 -	0.2 -0.2 -0.0	-0.2	0.1 0.1 -0.2	0.2 0.3	0.0 -0.1 0.3	-0.3 0.0	0.0 100.0	-0.1 0.0	1.9 0.6	0.0 0.1 0.1	0.1
fakeSF_3p_pt0_w_jet_fake_ss	-4.8 -1.0 -0.5 0.0 0.0	-0.1 -0.7 0.1 0	1.2 0.1 0.0 -0.	.1 -0.1 0.1 -4	0.1 -0.1 0.1	-0.2 0.2	0.0 -0.5 0.	1 0.0	-0.1 -0.2 0.0	0.0 -0	0.1 -0.3 (0.2 0.2 0.0	0.3	0.2 0.2 0.4	0.3 -0.5	0.2 0.2 -0.2	0.1 0.1	0.0 -0.1	100.0 0.0	0.1 0.5	0.0 0.0 0.	-0.0
jvt	1.2 0.1 0.1 -0.0 -0.0	-0.0 0.1 -0.0 -0	0.0 -0.0 -0.0 0.1	0 -0.0 0.0 0	0.0 0.0 +0.1	-0.0 -0.0	0.0 -0.1 -0	.0 -0.0	0.0 0.1 0.0	-0.0 0.	.0 0.0 4	0.0 -0.0 -0.0	-0.0 0	0.0 -0.0 -0.0	-0.0 0.0	-0.0 -0.0 0.0	0.0 -0.0	-0.0 0.0	0.0 100.0	-0.0 -0.0 -	0.0 -0.1 -0.	0.0
h FSR	35.4 14.7 7.1 0.0 0.0 -9.4 3.3 1.5 0.3 0.4	-0.9 6.4 -0.1 -0	0.8 -1.1 -0.4 1.6	6 0.5 -1.3 0	9 1.1 -9.4	1.5 -2.3	-1.1 -3.0 -0	4 -0.0	2.2 2.7 0.9	-0.2 0.	.8 4.5	2.8 -2.7 -0.6	-2.7 2	2.7 -4.1	-3.0 4.3	-2.0 -2.0 3.7	0.5 -1.0	-0.4 1.9	0.1 -0.0	100.0 -5.2	0.4 -3.1 -3. 0.5 -2.0 -2.	0.6
tisr	-9.4 3.3 1.6 0.3 0.4	-1.5 -0.9 1.2 1	2 -0.5 0.1 0.3	3 -0.4 0.1 0	4 0.4 -8.6	-0.6 0.4	-0.5 -7.9 0.	.5 -0.0 (0.7 0.6 0.9	0.2 0.	2 1.1	0.1 -0.4 -0.2	0.9	0.7 0.1 1.2	0.9 -1.4	0.1 0.7 1.2	1.4 -0.3	-0.1 0.6	0.5 -0.0	-5.2 100.0	0.5 -2.0 -2.	0.2
h por	-6.3 -0.9 -0.4 0.0 0.0	-0.1 -0.6 0.1 0	1.1 0.1 0.0 0.	.1 -0.0 0.1 -4	0.1 -0.0 -0.0	-0.2 0.2	0.0 -0.5 0.	1 0.0	0.1 0.1 0.1	0.0 -0.	4 15	0.1 0.1 0.0	0.2	0.1 0.2 0.3	0.2 0.3	0.1 0.1 0.0	0.0 0.0	0.0 0.0	0.0 -0.0	0.4 0.5 1	0.0 0.1 0.1	0.0
lt PS	-18.7 6.3 3.1 0.0 0.1	-0.4 1.4 -0.0 -0	0.2 -0.5 -0.1 -0.	1 0.1 -0.6 0	4 0.4 -3.7	0.6 -0.9	-1.1 -3.1 -0	1 0.0	0.6 1.1 0.3	0.1 0.	.3 1.6	0.6 -0.7 -0.1	-0.7 0	0.5 -0.9 -1.0	-0.7 1.0	-0.6 -0.5 0.9	0.3 -0.5	-0.1 0.5	0.1 -0.0	-3.2 -2.3	0.0 -0.9 100	-0.0
t scale	63	-0.1 -0.3 0.1 -0	0.0 0.0 -0.0 -0.	.1 0.0 0.1 0	0.0 -0.0 -0.1	-0.1 0.1	-0.0 -0.3 0.	.0 -0.0	0.0 -0.0 0.1	-0.0 -0.	.0 -0.1 -	0.1 -0.1 -0.0	-0.0 0	1.0 0.1 -0.1	-0.0 0.1	0.0 -0.0 0.3	-0.1 -0.1	0.0 0.1	-0.0 0.0	0.6 0.2	0.0 0.1 -0.	100.0
																			8 5			
	H_top_thad1) ABCD electron ABCD muon rgeMisID_SYST ELID_TightLH	JER.2 JER.3	JER_6 JER_6 JES_Modeling1	JET_BJES_Response	Norkideure_Xutadase JET_Etain_TotalSar T_Flavor_Composition	JET_Flavor_Response JET_JER_DataVsANC_MC16	JET_Pileup_OffsetNPV JET_Pileup_RhoTopolog)	MEDIUM_taulD_SYST	MET_SoffTik_ResoPare MET_SoffTik_ResoPer MET_SoffTik_Scak	Mu_Bo_STAT	TAU_PLIV	btag_B_0 btag_B_1 btag_B_2	blag_B_3	bag.C.o	blag_C_7	baa_Light_0 eTrigger fakeSF_fp.ptQb_fake	fakeSF_1p_pt0_w_jet_fake_ss fakeSF_1p_pt1_b_fake	"_1p_pt1_w_jet_fake_ss fakeSF_3p_pt0_b_fake	w_jetUake_s	I FSR	I PDF	it acale
			2	JET_BJES_Respor	JET_Etalm_Total JET_Flavor_Compo	JET_Flavor_Respo JER_DataVsAKC_M	Pileup. Rh	DIUM_ta	Soffit,	Mu,						SF_1p_g	.p60_w_i	SF_3b_g	8			
	E Ch			4 4	THE THE	JE IET_JER	JET_P	WE	MET							falce	eSF_1p.	false SF_1p.	ale SF_30			
					4	7											(g)	(a)	(a)			