μ	100.0 4.7 1.6	7.5 1:	2.2 -4.6	-0.6	7.6 -3	3.0 1.4	-4.0	2.5	0.4	1.0 -0.	1 -8.8	3.8	-10.7	2.1	2.0 0.1	6.5	-3.9	1.4	7.7	-8.6	-4.1 -10.	7 1.7	3.1	3.1 3.	1 3.1	3.1	-1.1 3	3.1 -1.	0 3.8	0.6	-3.5	3.2 1.1	-13.3	1.1 -0.2
ABCD electron	4.7 100.0 -55.8	-1.1 -5	2.0 2.8	-9.6	5.3 0	0.1 2.8	13.2	-1.1	-1.4	1.5 0.	1 -11.6	-1.2	-7.1	-14.4	15.2 11	1 1.3	1.1	3.8	3.3	-3.2	-1.0 0.2	-0.3	-0.3	-0.3 -0.	3 -0.3	-0.3	-0.4 -0	0.3 0.	4 11.6	4.0	-8.1 -	6.4 -6.7	-1.2	19.9 0.3
ABCD muon	1.6 -55.8 100.0	-0.4 -	0.7 1.0	-3.3	1.8 0	0.0 1.0	4.6	-0.4	-0.5	1.6 0.0	0 -4.0	-0.4	-2.5	-5.0	5.3 3.1	0.5	0.4	1.3	1.1	-1.1	-0.3 0.1	-0.1	-0.1	-0.1 -0	1 -0.1	-0.1	-0.1 -0	0.1 0.	2 4.0	1.4	-2.8	2.2 -2.3	-0.4	6.9 0.1
FFNP_SS_CR	7.5 -1.1 -0.4	100.0 -2	6.8 2.2	0.5	-0.6 0	0.4 -1.8	1.2	-1.1	1.1 (	0.8 3.1	2 -2.0	7.9	4.8	-1.3	-2.8 -0.	1 0.6	-0.4	-0.4	2.4	-2.6	0.1 0.4	6.1	6.3	6.3 6.	6.3	6.3	7.9 6	.3 10	.2 -6.7	-1.9	-0.2	3.5 -10.6	-0.5	0.9 3.7
FFNP_OS_CR	12.2 -2.0 -0.7	-26.8 10	0.0 4.4	-1.0	-1.7 0	).2 -2.7	1.5	1.7	2.9	2.1 4.3	2 -4.4	8.5	13.1	-2.4	-3.5 -0.	3 0.5	-0.3	-0.5	3.0	-3.3	-0.2 0.9	5.6	6.2	6.2 6.	6.2	6.2	5.2 6	.2 11	.0 -11.5	-2.7	-1.5	3.2 -9.6	-1.2	1.5 6.2
JER_1	-4.6 2.8 1.0	2.2 4	1.4 100.0	-9.3	12.8 -0	0.1 6.0	1.1	-0.7	0.2	0.2 -4.	3 3.2	-0.9	5.0	3.4	0.6 1.	1.4	-0.0	3.0	-2.1	2.3	-3.1 -0.3	3 -0.1	-0.3	-0.3 -0.	3 -0.3	-0.3	-0.6 -0	0.3 1.	6 -1.2	3.4	2.6	3.3 -1.4	-2.1	2.8 -1.1
JER_2	-0.6 -9.6 -3.3	0.5	1.0 -9.3	100.0	8.2 -2	2.6 0.1	0.4	4.3	0.1	0.3 -15	4 0.6	1.3	5.7	0.5	4.8 3.0	3.5	-1.9	2.8	0.0	-0.2	1.3 0.3	-1.4	-1.2	-1.2 -1.	2 -1.2	-1.2	-1.3 -1	1.2 4.	2 2.8	4.0	2.0	0.4 -2.4	-3.9	0.4 1.8
JER_4	7.6 5.3 1.8	-0.6	1.7 12.8	8.2	100.0 0	12 -2.8	2.7	0.5	0.1	0.3 4.6	6 -2.7	1.8	-0.8	-2.0	-2.6 -3.	6 -1.2	-0.3	-3.0	0.6	-0.4	2.3 -0.0	-1.8	4.1	4.1 4	1 -1.1	-1.1	-3.1 -1	1.1 -1.	8 2.7	-3.6	-0.1	0.5 2.6	2.4	0.6 4.1
JES_Modelling1	-3.0 0.1 0.0	0.4 (	0.2 -0.1	-2.6	0.2 10	0.0 -13.	1 -4.3	19.2	-3.8	9.6 -5.	9 -0.2	1.9	-4.7	-0.5	-0.3 -0.	2 2.2	-2.3	0.2	0.4	-0.8	2.0 -0.	1 -1.6	-1.4	-1.4 -1.	4 -1.4	-1.4	-2.7 -1	1.4 0.	6 -1.0	-1.6	0.5 1	0.8 -3.6	3.3	1.5 1.2
JET_EtaInt_Modelling	1.4 2.8 1.0	-1.8 -3	2.7 6.0	0.1	-2.8 -1	3.1 100.	0 2.4	20.8	-3.4 -	9.8 -2.	1 0.5	1.4	-6.1	1.0	3.7 0.	4 0.8	-1.5	-3.9	0.4	-0.9	3.6 0.0	-1.0	-0.8	0.8 -0.	8 -0.8	-0.8	-1.5 -0	0.8 3.	0 -2.8	-6.6	0.4 -1	1.3 0.1	3.3	2.6 1.5
JET_Flavor_Composition	-4.0 <b>13.2</b> 4.6	1.2 1	.5 1.1	0.4	2.7 -4	4.3 2.4	100.0	0.1	5.7	1.6 -28	2 3.3	7.4	-2.5	9.4	12.4 -4.	2 1.0	-0.9	-2.5	9.5	10.9	2.2 -0.7	7 0.4	-0.0	-0.0 -0	1 -0.1	-0.1	0.9 -0	0.0 1.	4 -15.7	-9.7	-17.5	1.9 -26.2	17.5	3.0 -3.1
JET_Flavor_Response	2.5 -1.1 -0.4	-1,1 1	.7 -0.7	4.3	0.5 19	9.2 20.8	0.1	100.0	3.9 1	3.2 2.4	4 0.4	1.4	5.4	-1.0	1.2 0.	1 -2.5	3.0	1.5	1.3	2.0	-5.6 0.4	5.0	4.3	4.3 4.3	3 4.3	4.3	7.4 4	.3 4.	0 1.5	4.9	-0.0 2	0.2 2.5	-5.7	3.7 -3.5
JET_Pileup_OffsetMu	0.4 -14 -0.5	11 2	.9 0.2	0.1	0.1 -3	3.8 -3.4	5.7	3.9	100.0	5.1 -7.	5 -0.8	2.9	-7.0	-1.6	5.8 1	7 1.5	-0.4	-0.2	-0.0	-0.2	-1.6 -0.3	2 0.8	0.7	0.7 0.	7 0.7	0.7	0.6 0	.7 -3.	.3 -10.1	0.6	-0.7	22 1.9	-6.5	0.5 -0.8
JET_Pileup_OffsetNPV	-10 45 16	0.8	1 02	-0.3	-0.3 -9	96 -98	-16	13.2	-5.1 10	00 -3	9 -13	3.5	-5.7	-28	08 -1	1 21	-16	-23	12	11	-0.5 0.1	-0.0	0.1	01 0	1 01	0.1	-0.6 0	11 -4	2 -70	-32	0.3 -1	83 -37	-0.9	37 04
JET_Pileup_RhoTopology	-0.1 0.1 0.0	32	2 42	-15.4	46	59 24	-28.2	24	-7.5	3.9 400	0 98	65	69	14.0	33.6 14	9 142	-88	4.0	3.4	-43	-0.9	2 -10	.12	.12	2 10	.12	40	2 .0	7 -28 6	-0.1	10.0	04 .15	89	77 32
LumiUncertainty	-88 -118 -40	-20	14 32	0.6	-27	12 05	3.3	0.4	-0.8	13 0	8 100.0	6.3	-5.3	-19.7	.72 .2	8 77	-5.8	-29	0.7	11	-5.4	1 -32	-28	-28 -2	8 -28	-28	-46	28 0	9 100	-3.0	-15	10.4	-10.6	20 32
PRW	38 42 -04	79	0.2	13	18 4	9 4.4	7.4	14	29	35 64	5 52	100.0	17	12.2	-18 0	1.14.0	11.8	-11	1.0	-13	-10 -04	3 45	-4.0	-40 4	0 -40	-40	87 4	10 -5	0 33	.4.4	-8.7	70 40	-0.8	20 20
TES_DETECTOR	10.7 .71 .05	48	31 52	5.7	-0.8	1.4	-7.4	5.4	-7.0	5.7 6.1	0.3	1.7	100.0	7.6	96 0	3 00	0.0	-3.4	0.8	0.6	0	4.0	4.0	4.8	4.0	4.0	5.6	5.	1 22	-1:1	.60	4.9	-6.0	43 44
	0.4 4 - 2.5	4.6 1	o.1 b.0	0.7	-0.6 -4	•.7 -6.1	-2.5	5.4	-7.0	0.7 6.5	-5.3	1.7	100.0	-7.4	5.0 3.i	-0.2	0.8	-3.4	4.3	5.3	-0.0 -1.	5.3	4.6	4.0 4.	4.8	4.8	0.0 4	4	3.3	-0.5	-0.9 2	1.8	-0.9	4.3 -4.4
TAU_PLIV	2.1 -14.4 -5.0	-1.3 -	2.4 3.4	0.5	-2.0 -0	2.0 1.0	9.4	-1.0	-1.6	2.6 14.	-19.7	12.2	-7.4	3.5	-7.5 -3.	0 10.0	-1.7	-2.1	4.3	0.3	0.3 0.4	-0.7	-0.5	-v.s -0.	-0.5	-0.5	-0.9 -0	1.	9 11.7	-3.8	0.7 -1	2.0 6.6	-0.3	2.3 1.2
btag_B_0 btag_B_1	-2.0 15.2 5.3	-2.8 -	3.5 -0.6	4.8	-2.6 -0	3.7	-12.4	-1.2	5.8 (	J.6 33.	7.2	-1.8	9.6	-7.6	12.2 100	.2 -3.9	1.0	2.0	0.4	0.0	-0.9 -0.	-1.1	-0.8	0.8 -0.	0.8	-0.8	1.7 -0	J.B 2.	9 17.8	3.6	-0.3 -2	2.9	3.6	4.3 2.1
	0.9 11.1 3.8	-0.1 -	0.3 1.5	3.0	-3.6 -0	0.2 0.4	-4.2	0.1	1.7	1.1 14.	.9 -2.8	0.4	3.3	-3.6	12.2 100	.0 -1.6	0.2	-0.6	-0.7	1.0	-0.0 -0.0	-0.7	-0.4	-0.4 -0.	4 -0.4	-0.4	-1.3 -0	0.4 -0.	.9 5.2	1.3	0.3	5.4 3.8	0.5	4.0 1.2
btag_B_3	6.5 1.3 0.5	0.6	1.5 1.4	3.5	-1.2 2	2.2 0.8	1.0	-2.5	1.5	2.1 14.	3 7.7	-14.6	-0.2	10.0	-3.9 -1.	6 100.0	11.1	1.6	1.8	-2.0	2.5 -0.1	2 -1.5	-1.1	4.1 4.	1 -1.1	-1.1	-2.7 -1	1.1 -2	.1 -2.9	4.4	-6.3	6.3 -10.7	-1.6	0.3 1.2
btag_B_37	-3.9 1.1 0.4	-0.4 -	0.0	-1.9	-0.3 -2	2.3 -1.5	-0.9	3.0	-0.4	1.6 -8.	8 -5.8	11.8	0.8	-7.7	1.0 0.	2 11.1	100.0	-0.9	1.4	1.7	-0.6 0.2	1.2	0.9	0.9 0.	0.9	0.9	2.0 0	1.9 1.	4 4.9	-3.5	5.7 6	5.3 9.9	4.6	0.4 -0.8
btag_C_0	1.4 3.8 1.3	-0.4 -	0.5 3.0	2.8	-3.0 0	0.2 -3.9	-2.5	1.5	-0.2 -	2.3 4.0	0 -2.9	-1.1	-3.4	-2.1	2.0 -0.	6 1.6	-0.9	100.0	0.6	-0.7	-1.3 0.0	0.7	0.6	0.6 0.	3 0.6	0.6	1.3 0	1.6 1.	9 -4.5	-7.7	-0.7	0.0 2.2	-3.0	3.5 -0.5
btag_C_5	7.7 3.3 1.1	2.4 3	1.0 -2.1	-0.0	0.6 0	0.4	9.5	-1.3	-0.0	1.2 3.4	4 -0.7	1.0	-0.8	-4.3	0.4 -0.	7 1.8	-1.4	0.6	00.0	1.4	2.0 0.2	-0.6	-0.4	-0.4 -0.	4 -0.4	-0.4	-1.4 -0	0.4 -2.	.6 -8.8	0.6	1.2 2	2.2 -10.4	2.4	0.1 -0.2
btag_C_8	-8.6 -3.2 -1.1	-2.6 -	3.3 2.3	-0.2	-0.4 -0	0.8 -0.9	-10.9	2.0	-0.2	1.1 -4.	3 1.1	-1.3	0.6	5.3	0.0 1.1	-2.0	1.7	-0.7	1.4	00.0	-2.1 -0.1	3 0.7	0.5	0.5 0.	5 0.5	0.5	1.6 0	.5 2	8 9.0	-0.4	-1.6	1.6 11.2	-3.3	0.0 0.1
fakeSF_1p_pt2_b_fake	-4.1 -1.0 -0.3	0.1	0.2 -3.1	-1.3	2.3 2	2.0 3.6	2.2	-5.6	-1.6 -	0.5 -0.	9 -5.4	-1.0	-0.5	-6.3	-0.9 -0.	0 2.5	-0.6	-1.3	2.0	-2.1	00.0 -0.	1 -0.4	-0.5	-0.5 -0.	5 -0.5	-0.5	-0.5 -0	0.5 0.	4 -9.3	0.4	-1.5 -	6.2 -5.7	-10.9	0.7 -0.2
ttH theory_uncer	-10.7 0.2 0.1	0.4 0	0.9 -0.3	0.3	-0.0 -0	0.1 0.0	-0.7	0.4	-0.2	0.1 -0.	2 -0.1	-0.3	-1.1	0.4	-0.1 -0.	0 -0.2	0.2	0.0	0.2	-0.3	-0.1 100.	0.0	0.1	0.1 0.	1 0.1	0.1	0.2 0	).1 -0.	.3 1.0	0.0	-0.1 -	0.3 0.8	-0.6	0.2 -0.3
tauTrigger_STATDATA161718	1.7 -0.3 -0.1	6.1 5	i.6 -0.1	-1.4	-1.8 -1	1.6 -1.0	0.4	5.0	0.8	0.0 -1.	9 -3.2	-4.5	5.3	-0.7	-1.1 -0.	7 -1.5	1.2	0.7	-0.6	0.7	-0.4 0.0	100.0	-5.6	-5.6 -5.	6 -5.6	-5.6	13.0 -5	5.6 -4.	.3 -0.8	1.1	-1.6	0.0 4.4	-0.9	0.1 7.2
tauTrigger_STATDATA2018	3.1 -0.3 -0.1	6.3 6	.2 -0.3	-1.2	-1.1 -1	1.4 -0.8	-0.0	4.3	0.7	0.1 -1.	2 -2.8	-4.0	4.8	-0.5	-0.8 -0.	4 -1.1	0.9	0.6	0.4	0.5	-0.5 0.1	-5.6	100.0	-4.5 -4.	5 -4.5	-4.5	10.7 -4	4.5 -4.	.3 -0.9	0.7	-1.6	0.4 4.4	-0.8	0.2 5.6
tauTrigger_STATMC161718	3.1 -0.3 -0.1	6.3 6	.2 -0.3	-1.2	-1.1 -1	1.4 -0.8	-0.0	4.3	0.7	0.1 -1.	2 -2.8	-4.0	4.8	-0.5	-0.8 -0.	4 -1.1	0.9	0.6	0.4	0.5	-0.5 0.1	-5.6	-4.5	00.0 -4.	5 -4.5	-4.5	10.7 -4	1.5 -4.	.3 -0.9	0.7	-1.6 -	0.4 4.4	-0.8	0.2 5.6
tauTrigger_STATMC2018	3.1 -0.3 -0.1	6.3 6	.2 -0.3	-1.2	-1.1 -1	1.4 -0.8	-0.1	4.3	0.7	0.1 -1.	2 -2.8	-4.0	4.8	-0.5	-0.8 -0.	4 -1.1	0.9	0.6	-0.4	0.5	-0.5 0.1	-5.6	-4.5	-4.5 100	0 -4.5	-4.5	10.7 -4	1.5 -4.	.3 -0.9	0.7	-1.6 -	0.4 4.4	-0.8	0.2 5.6
tauTrigger_SYST161718	3.1 -0.3 -0.1	6.3	.2 -0.3	-1.2	-1.1 -1	1.4 -0.8	-0.1	4.3	0.7	0.1 -1.	2 -2.8	-4.0	4.8	-0.5	-0.8 -0.	4 -1.1	0.9	0.6	-0.4	0.5	-0.5 0.1	-5.6	-4.5	-4.5 -4.	5 100.0	-4.5	10.7 -4	4.5 -4.	.3 -0.9	0.7	-1.6 -	0.4 4.4	-0.8	0.2 5.6
tauTrigger_SYST2018	3.1 -0.3 -0.1	6.3 6	.2 -0.3	-1.2	-1.1 -1	1.4 -0.8	-0.1	4.3	0.7	0.1 -1.	2 -2.8	-4.0	4.8	-0.5	-0.8 -0.	4 -1.1	0.9	0.6	-0.4	0.5	-0.5 0.1	-5.6	-4.5	-4.5 -4.	5 -4.5	100.0	10.7 -4	1.5 -4.	.3 -0.9	0.7	-1.6 -	0.4 4.4	-0.8	0.2 5.6
tauTrigger_SYSTMU161718	-1.1 -0.4 -0.1	7.9 5	.2 -0.6	-1.3	-3.1 -2	2.7 -1.5	0.9	7.4	0.6	0.6 -4.	0 -4.6	-8.7	5.6	-0.9	1.7 1.	3 -2.7	2.0	1.3	1.4	1.6	-0.5 -0.1	2 -13.0	-10.7	10.7 -10	.7 -10.7	-10.7	00.0 -10	0.7 -8.	.2 -0.3	2.3	-2.1	0.1 7.4	-1.0	0.0 11.2
tauTrigger_SYSTMU2018	3.1 -0.3 -0.1	6.3 6	.2 -0.3	-1.2	-1.1 -1	1.4 -0.8	-0.0	4.3	0.7	0.1 -1.	2 -2.8	-4.0	4.8	-0.5	-0.8 -0.	4 -1.1	0.9	0.6	0.4	0.5	-0.5 0.1	-5.6	-4.5	-4.5 -4.	5 -4.5	-4.5	10.7 10	0.0 -4.	.3 -0.9	0.7	-1.6 -	0.4 4.4	-0.8	0.2 5.6
only $\tau_{\text{sub}}$ real modelling	-1.0 0.4 0.2	10.2 1	1.0 1.6	4.2	-1.8 0	0.6 3.0	1.4	4.0	-3.3	1.2 -6.	7 0.9	-5.0	-4.1	1.9	2.9 -0.	9 -2.1	1.4	1.9	2.6	2.8	0.4 -0.0	3 -4.3	-4.3	4.3 -4.	3 -4.3	-4.3	8.2 -4	1.3 100	-2.0	4.1	-1.7 -2	2.5 26.4	-1.7	0.8 -0.6
t FSR	3.8 11.6 4.0	-6.7 -1	1.5 -1.2	2.8	2.7 -1	1.0 -2.8	-15.7	1.5	-10.1	7.0 -28	6 10.9	3.3	3.3	11.7	17.8 5.	2 -2.9	4.9	-4.5	8.8	9.0	-9.3 1.0	-0.8	-0.9	-0.9 -0.	9 -0.9	-0.9	-0.3 -0	0.9 -2.	.0 100.0	-3.8	0.3 1	8.7 1.3	-7.7	6.7 2.4
t ISR	0.6 4.0 1.4	-1.9	2.7 3.4	4.0	-3.6 -1	1.6 -6.6	-9.7	4.9	0.6	3.2 -0.	1 -3.9	-1.1	-5.5	-3.8	3.6 1.3	3 4.4	-3.5	-7.7	0.6	-0.4	0.4 0.0	1.1	0.7	0.7 0.	7 0.7	0.7	2.3 0	.7 4.	1 -3.8	100.0	-0.5 -2	25.1 -10.2	10.0	1.0 -1.3
t PDF	-3.5 -8.1 -2.8	-0.2	1.5 2.6	2.0	-0.1 0	0.5 0.4	-17.5	-0.0	-0.7	).3 10.	.0 -1.5	-8.7	-6.9	0.7	-0.3 0.3	3 -6.3	5.7	-0.7	1.2	-1.6	-1.5 -0.	1 -1.6	-1.6	1.6 -1.	6 -1.6	-1.6	-2.1 -1	1.6 -1.	.7 0.3	-0.5	100.0	4.6 -2.9	-8.6	1.8 0.4
t PS	-3.2 -6.4 -2.2	6.5	.2 -3.3	-0.4	-0.5 -1	0.8 -11.	3 -1.9	20.2	-2.2 -1	8.3 -10	.4 -10.4	-17.0	2.8	-12.5	22.1 -5.	4 -6.3	5.3	0.0	2.2	-1.6	-6.2 -0.3	3 0.0	-0.4	0.4 -0.	4 -0.4	-0.4	-0.1 -0	0.4 -22	2.5 18.7	-25.1	-4.6 10	00.0 -54.1	6.5	2.6 -1.9
t hdamp	-3.2 -6.4 -2.2 1.1 -6.7 -2.3	-10.6 -	9.6 -1.4	-2.4	2.6 -3	3.6 0.1	-26.2	2.5	-1.9	3.7 -1.	5 10.4	4.9	1.8	6.6	2.9 3.1	-10.7	9.9	2.2	10.4	11.2	-5.7 0.8	4.4	4.4	4.4 4.	4.4	4.4	7.4 4	.4 26	.4 1.3	-10.2	-2.9 -5	54.1 100.0	7.8	1.7 1.1
t scale	122 40 04	0.5		20			175	6.7	0.5	00 00	100	0.0		02	20 0	10	4.0	20		22	100 01			00 0		0.0	10 0			10.0	00 0	. 70	100.0	22
wjet theory_uncer	1.1 -19.9 -6.9 -0.2 0.3 0.1	-0.9	1.5 2.8	-0.4	0.6 1	.5 2.6	3.0	-3.7	0.5	3.7 -7.	7 -2.0	-2.0	-4.3	-2.3	4.3 4.1	-0.3	0.4	3.5	0.1	0.0	0.7 0.2	-0.1	-0.2	0.2 -0.	2 -0.2	-0.2	-0.0 -0	0.2 0.	8 6.7	-1.0	-1.8 -	2.6 -1.7	3.3 1	0.1
ztt ckk	-0.2 0.3 0.1	3.7	.2 -1.1	1.8	4.1 1	1.5	-3.1	-3.5	-0.8	0.4 3.3	3 3.2	2.6	-4.4	1.2	2.1 1.2	1.2	-0.8	-0.5	0.2	0.1	-0.2 -0.3	7.2	5.6	5.6 5.	5.6	5.6	11.2 5	.6 -0.	6 2.4	-1.3	0.4	1.9 1.1	1.7	0.1 100.0
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