μ	27 11 43 44 138 267 10 45 35 17 31 43 48 41 47 01 04 25 12	13 -3.1 -0.9 -0.4 -0.5 -0.2 -2.8 -4.7 -2.0 -7.5 -19.2	2 -11 -18 -23 -72 -18 -01 -41 -65 -66 -13 -17 -17 -17 -17 -17 -18 -17 -60 -75 <mark>-116 -</mark> 07 -61 -62	0.2 -0.1 -0.4 -0.5 0.8 0.1 0.1 1.1 -3.5
FFNP_1prong_ptbin0_etabin0 FFNP_1prong_ptbin0_etabin1	22 (305) 42 42 81 21 22 40 44 80 41 81 80 43 43 43 51 11 81 80 80 80 83 11 42 80 80 80 80 80 80 80 80 80 80 80 80 80	0.1	0 40 40 40 40 40 40 40 40 40 40 40 40 40	0 -05 1.3 0.2 -0.4 -0.1 -0.1 0.1 -0.6 0.5 0 -0.3 0.9 0.0 -0.3 -0.0 -0.0 0.2 -0.5 0.4
FFNP_1prong_ptbin1_etabin0	-0.5 -0.2 -0.1 1000 00 1.0 1.7 0.0 -0.5 0.2 -0.0 0.1 -0.2 -0.5 -0.0 0.1 0.1 0.0 -0.1 0.1	0.1 -0.2 -0.2 0.1 -0.0 0.0 -0.0 0.2 0.0 -1.0 -0.9	a1 a3 a1 a3 00 00 00 a0 a0 a0 a4 a5 a5 a5 a5 a5 a5 a5 a0 a9 04 00 a1 a7	7 -03 07 0.1 -02 -00 -00 -00 -03 02
FFNP_1prong_ptbin2_etabin0	24 • 01 • 00 • 00 • 100 • 02 • 02 • 00 • 01 • -01 • 00 • 00 • 01 • 01 • 0	0.0 • 0.1 • 0.0 • -0.0 • 0.0 • 0.0 • 0.1 • -0.1 • -0.0 • 0.0 • 0.1	00 * 01 * 00 * 01 * -00 * 00 * 00 * 00 *	. 01 - 03 - 01 - 00 - 00 - 00 - 00 - 00 -
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JER_2	35 00 01 02 01 05 06 00 32 1000 01 01 09 12 08 06 05 06 02 23	04 25 11 -15 -08 -05 -11 -22 05 -18 42	. 05 07 07 01 07 00 00 03 09 09 18 18 18 18 18 18 18 18 00 00 32 79 04 05 45	5 1.1 3.2 -0.8 2.1 2.0 1.9 0.1 3.1 4.7
JER_3 JER_4	17 -0.1 -0.1 -0.0 0.0 0.9 0.6 -0.0 0.1 0.1 0.000 -0.6 -0.1 -0.5 -0.6 -0.6 -0.3 -0.1 0.1 0.6	0.1 -0.5 -0.5 -0.8 -0.3 -0.2 -0.5 <mark>0.3 0.1</mark> -0.8 -0.4	1 - 44 - 47 - 01 - 01 - 02 - 00 - 03 - 44 - 44 - 10 - 09 - 09 - 09 - 09 - 09 - 17 - 49 - 00 - 17 - 43 - 00 - 21 - 07	-0.2 0.4 0.1 0.4 -0.1 -0.1 0.1 0.4 -0.0
JER_5	03 - 03 - 03 - 01 - 02 00 - 13 - 25 - 00 - 13 - 09 - 01 - 01 - 00 - 00 - 01 - 00 - 02 - 01 - 00 - 03	01 -00 -03 03 04 02 08 00 01 -05 -18	03 02 04 -10 -01 00 -02 05 05 09 07 07 07 07 07 07 07 11 07 11 13 44 -04 01 42	2 02 -13 -01 -10 -0.1 -0.1 -0.2 -1.2 08
JER_6	-18 -45 -43 -43 -01 -23 -41 -00 -46 -12 -05 -01 -49 <mark>1000</mark> -45 -40 -05 -40 -41 -09	02 -1.0 -0.8 0.9 0.5 0.3 0.8 0.9 0.1 -0.8 -4.1	1 41 47 45 49 01 01 42 08 07 11 07 07 07 07 19 07 07 01 11 01 29 41 42 32	2 -0.4 0.5 0.2 -1.8 -0.7 -0.7 0.1 -2.5 2.8
JER_7restTerm	-01 0.1 -0.0 0.0 0.1 -0.0 -0.2 -0.0 0.5 0.8 -0.8 -1.0 0.1 -0.5 1000 0.8 -0.8 -0.8 -0.3 0.0 1.0	0.1 -1.0 -1.0 -1.5 -0.2 -0.2 -0.4 <mark>0.6</mark> -0.2 -0.1 -0.8	* 44 * 48 <mark>01 01 04 * 40 * 40 * 43 * 43 * 45 * 45 * 45 * 45 * 45 * 45</mark>	4 -02 <mark>0.3 0.4 0.5</mark> -0.4 -0.3 -0.2 <mark>0.5 0.2</mark>
JES_Modelling1 JET_EtaInt_Modelling	-21 = 0.1 = 0.0 = 0.1 = 0.0 = 0.8 = 0.8 = 0.8 = 0.8 = 0.8 = 0.8 = 0.8 = 0.8 = 0.8 = 0.0 = 0.0 = 0.1 = 0.1 = 0.8 = 0.0 = 0.1 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0.8 = 0.1 = 0	02 . 12 . 21 . 52 . 08 . 08 . 14 . 01 . 01 . 10 . 00	1 - 04 + 07 + 01 + 02 + 07 + 01 + 01 + 11 + 12 + 23 + 18 + 18 + 18 + 18 + 18 + 18 + 40 + 18 + 01 + 22 + 22 + 08 + 01 + 73	0 -03 -01 -09 -22 -03 -02 -02 -29 -15
JET_EtaInt_NonClosure_2018data	04 00 01 00 00 43 44 00 13 06 01 1.0 0.1 0.0 43 26 49 1000 00 09	0.1 -0.7 -1.0 -2.2 -0.1 -0.1 -0.1 -0.1 -0.1 0.8 0.3	, 441 au 42 au 69 42 au 70 71 71 41 41 41 41 41 41 41 41 41 41 41 41 40 41 40 41 40 41 40 41 40 41 40 41 40 41	5 -0.1 -0.4 0.7 0.3 -0.7 -0.6 0.0 0.4 0.7
JET_Flavor_Composition	25 00 00 01 01 00 04 09 00 02 02 01 01 00 01 00 01 00 00 100 02	01 -02 -0.1 -0.0 -0.1 -0.0 -0.1 0.2 0.1 -0.1 -0.7	41 01 01 01 00 00 00 02 01 41 01 01 01 01 01 01 00 00 12 01 01 01	-02 08 00 -00 00 00 -00 -00 -01
JET_Flavor_Response	12 03 -00 01 -01 -19 -03 -00 -05 -23 -08 -29 -03 -09 10 -36 -35 -09 02 -1008	08 12 29 87 18 10 27 05 03 31 -28	3 06 09 00 00 -1.1 02 01 21 23 50 41 41 41 41 41 83 41 01 59 59 13 02 134	4 08 -09 -15 -41 -00 -02 01 -55 34
JET_JER_DataVsMC_MC16 JET_Pileup_OffsetMu	13 01 00 01 00 02 10 00 05 04 01 05 0 01 02 01 02 01 02 01 01 08	000 00 -0.1 -0.8 0.0 -0.0 0.0 -0.3 0.1 0.2 1.1	02 02 02 08 01 40 00 00 00 01 01 01 01 01 01 01 01 01 10 11 0 1 1 10 1	4 02 -09 04 02 -0.1 -0.1 03 03 02
JET_Pileup_OffsetMu JET_Pileup_OffsetNPV	42 42 41 40 11 40 15 45 45 45 45 11 40 10 10 12 11 47 62 12 40 42 40 40 40 10 11 10 10 15 11 45 45 45 45 45 45 45 45 45 45 45 45 45	0.1 -22 1000 -58 -0.3 -0.2 -0.5 0.9 -0.3 0.3 -1.8	2 - 0.4 0.1 0.5 0.5 0.6 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	5 -0.4 -0.8 -1.4 -1.0 -1.4 -1.3 -0.8 -1.4 -1.0
JET_Pileup_RhoTopology	04 01 04 01 00 02 06 00 40 15 08 57 03 09 15 52 42 22 00 87	08 -27 -58 1000 -1.6 -1.1 -28 -0.4 -0.3 0.1 33	01 00 03 09 20 05 01 21 23 46 34 34 34 34 35 35 36 05 47 57 27 02 38	8 -00 -34 28 53 -1.8 -1.8 -0.8 7.2 -22
LumiUncertainty	45 01 40 40 00 05 01 40 04 48 03 44 04 05 02 48 07 41 01 18	0.0 0.0 -0.3 -1.8 <mark>100.0</mark> -0.5 -1.3 -0.1 -0.1 -1.4 1.0	0 45 47 41 43 <mark>62 40 60</mark> 48 41 42 20 20 20 20 20 40 40 40 41 42 48 <mark>61 62 12</mark>	0.4 1.4 -0.1 1.7 0.5 0.5 -0.2 2.3 -2.2
MEDIUM_tauID_1PGE40 MEDIUM_tauID_SYST	42 40 80 00 00 00 02 42 40 42 45 02 43 02 03 42 45 65 41 00 10	00 00 02 -1.1 -0.5 6000 -0.9 -0.1 -0.1 -0.8 0.8	43 44 41 42 01 40 01 40 00 47 47 15 12 12 12 12 12 12 12 14 43 14 43 10 01 41 01	02 06 01 12 03 04 02 16 -15
MET_SoftTrk_ResoPara	47 02 01 02 -0.1 -0.1 -1.2 -0.0 -0.1 -2.2 0.3 0.1 0.0 0.9 0.6 0.1 -0.2 0.1 0.2 0.5	03 12 09 -04 -0.1 -0.1 -0.2 1000 04 -0.2 3.0	04 07 00 05 03 00 00 01 01 01 05 03 00 00 12 31 01 02 13	3 05 -1.3 -0.1 0.8 0.5 0.5 0.5 0.8 -1.1
MET_SoftTrik_ResoPerp	20 01 01 00 00 00 05 04 00 01 05 01 03 01 01 02 01 02 01 02 01	01 -04 -03 -03 -01 -0.1 -0.2 0.4 <mark>1000</mark> 0.4 -0.1	1 41 41 02 41 01 00 00 42 42 40 40 40 40 40 40 40 40 40 41 45 29 00 41 09	-0.2 0.5 0.1 0.3 -0.0 -0.0 -0.4 0.5 -0.3
PRW	75 * -1.8 * -1.0 * -1.0 * 0.0 * 24 * 11.5 * 0.0 * -2.2 * -1.8 * 0.8 * 1.1 * -0.5 * -0.6 * -0.1 * -1.0 * 0.4 * 0.8 * -0.1 * 3.1	02 05 03 0.1 1.4 0.8 2.1 0.2 0.4 1000 -1.0	* 10 * 28 * 13 * 19 * <mark>00 * 61 *</mark> 42 * 18 * 19 * 49 * 48 * 48 * 48 * 48 * 48 * 48 * 61 * 48 * 63 * 73 * <mark>32 * 05</mark> * 11 * 12	2 -27 - 81 - 05 - 08 - 13 - 13 - 1.2 - 05 -17
TES_DETECTOR TES_INSITUEXP	192, 49 45 49 01 39 101 00 23 42 04 14 48 41 48 00 18 03 07 28	11 -29 -18 33 10 08 18 30 -01 -10 100	5 - 07 - 17 - 10 - 32 - 02 - 01 - 00 - 14 - 15 - 33 - 24 - 24 - 24 - 24 - 24 - 20 - 45 - 29 - 01 - 08 - 35	5 -15 34 01 -40 -11 -10 -04 -55 48
TES_INSITUFIT	-18 -04 -03 -03 01 23 25 00 -08 07 -07 03 02 -07 -06 -07 00 01 -01 09	02 -08 -04 00 -07 -04 -1.1 07 -01 -28 -1.7	7 - 03 - 1000 - 04 - 08 - 02 - 0.1 - 00 - 08 - 1.0 - 23 - 22 - 22 - 22 - 22 - 22 - 22 - 2	12 37 -01 08 03 04 02 05 -08
TES_MODEL_CLOSURE	-23 = 43 = -0.1 = -0.1 = 0.0 = 1.6 = 2.3 = 0.0 = -1.1 = -0.7 = -0.1 = 0.5 = -0.4 = -0.5 = 0.1 = -0.1 = 0.2 = 0.2 = -0.1 = -0.0	02 02 01 03 -0.1 -0.1 -0.2 -0.0 02 -1.3 -1.0	- 02 - 04 - 000 - 00 - 01 - 00 - 01 - 02 - 02 - 0	0 -02 -05 -05 -00 -03 -03 -02 -00 -08
TES_PHYSICSLIST	.7.2 .04 .0.1 .03 .0.1 .19 .43 .00 .33 .1.1 .01 .07 .10 .49 .01 .42 .05 .05 .03 .00	08 01 03 09 03 02 04 05 01 19 32	2 -04 -08 -09 <mark>-008 -</mark> 03 <mark>-00 -01</mark> -03 -04 -08 -08 -08 -08 -08 -08 -14 -08 -02 -14 <mark>-44 -02</mark> -02 -1 <u>2</u>	2 -03 09 -1.1 0.1 09 1.0 -1.3 08 -22
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ttH theory_uncer	-81 - 40 - 40 - 40 - 00 - 05 - 66 - 00 - 43 - 43 - 42 - 42 - 42 - 42 - 40 - 01 - 40 - 40 - 40 - 40 - 40 - 40	00 -00 -00 -01 00 00 01 -00 00 -02 00	00 00 01 00 00 00 00 00 00 00 00 00 00 0	5 -01 01 -00 -01 -00 -01 -00 -02 02
tauEveto_TOTAL	05 40 40 40 00 00 04 43 40 44 49 44 46 05 06 43 11 10 41 41 21	00 00 -0.4 -2.1 -1.0 -0.7 -1.7 -0.1 -0.2 -1.6 1.4	06 08 02 03 02 00 01 000 14 29 24 24 24 24 49 24 01 10 19 01 02 15	-0.4 1.4 -0.1 2.2 0.8 0.7 -0.3 3.0 -2.9
tauRecon_TOTAL	-0.6 0.1 -0.0 0.0 0.1 0.6 0.2 0.0 0.5 0.9 0.4 0.6 0.5 0.7 0.3 1.2 1.1 0.1 0.1 23	00 00 -0.4 -2.3 -1.1 -0.7 -1.9 -0.1 -0.2 -1.9 1.5	47 10 42 44 <mark>02 40 11 14 1000</mark> 33 28 28 28 28 28 58 28 62 13 22 <mark>02 02 20</mark>	-05 1.8 -0.1 25 07 07 -0.3 33 -32
tauTrigger_STATDATA161718	13 - 10 - 45 - 44 - 40 - 48 - 46 - 40 - 45 - 16 - 10 - 49 - 49 - 49 - 11 - 48 - 23 - 20 - 41 - 41 - 50	01 04 07 48 24 15 39 05 00 49 33	- 1.4 + 2.3 + 0.8 + 0.8 + 0.5 + 0.0 + 0.0 + 0.0 + 0.2 + 0.3 + 0.00 + 0.0	-17 - 52 - 00 - 45 - 14 - 14 - 0.1 - 59 - 55
tauTrigger_STATMC161718	17 -1.1 0.5 -0.5 -0.0 5.1 5.2 0.0 0.4 -1.0 0.0 -0.5 0.7 0.7 -0.5 -1.8 -1.4 -0.1 0.1 4.1	01 03 05 34 20 12 32 03 00 46 24	1. 12 22 07 48 04 40 01 24 28 59 49 000 49 49 49 40 102 49 43 44 41 03 08 05	-18 54 0.1 3.4 1.1 1.1 0.2 4.3 4.0
tauTrigger_STATMC2018	17 -11 -05 -05 -00 51 52 -00 -04 -10 -09 -04 07 07 -05 -18 -14 -01 -01 -01 -41	01 03 05 34 20 12 32 03 00 46 24	-12 - 22 -07 -08 <mark>-04 -00 -01</mark> -24 -28 -59 -49 -49 <mark>1000 -</mark> 49 -49 -102 -49 -03 -44 -01 <mark>-03 -</mark> 05 -05	-18 54 0.1 34 1.1 1.1 0.2 43 40
tauTrigger_SYST161718	17 -1.1 -05 -05 -00 51 52 -00 -04 -10 -09 -05 -07 -07 -05 -18 -14 -01 -01 -41	01 03 05 34 20 12 32 03 00 48 24	.12 22 47 48 04 40 41 24 28 59 49 49 49 49 100 49 102 49 83 44 41 03 48 05	18 54 01 34 11 11 02 43 40
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top FSR	49 40 40 40 40 60 62 62 62 60 42 60 60 60 60 60 61 61 61 61 62 61 60 61	01 01 03 05 -01 -01 -02 00 -01 -03 -00	0 41 42 41 42 <mark>41 40 40 40 41 42 43 43 43 43 43 43 43 43 48 43 100 00 01 02 40 17</mark>	-0.1 0.5 -0.2 0.1 0.2 0.2 0.0 0.1 -0.3
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d PDF	01 42 01 01 00 13 12 00 42 05 01 02 01 02 01 01 01 01 00 01 02	0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 1.1 0.8	s 42 45 41 42 01 00 40 42 42 47 48 48 48 48 48 48 40 47 47 47 61 100 05	08 1.9 02 02 00 00 03 04
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211 $\alpha_{_{\rm S}}$	45 44 43 42 00 21 36 00 41 21 04 16 40 18 22 24 03 00 41	02 02 1.0 53 1.7 1.2 2.9 0.6 0.3 0.6 4.0	08 08 00 01 02 02 01 22 25 45 34 34 34 34 34 78 34 01 08 39 01 02 13	3 -03 07 0.4 1000 -1.1 -1.2 1.2 -6.8 6.4
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ztt qsf	35 05 04 02 48 38 49 00 38 47 00 01 08 28 02 45 41 07 41 34	02 22 1.0 -22 -22 -1.5 -3.7 -1.1 -0.3 -1.7 4.8		1 1.1 -13 -27 64 35 36 -25 92 1000
	manhino eabhri mananno eabhri manann	MC16 Teeffu set/PV pdcgy ritahty PdE40 SYST seP ara seP ara	SETULE PO- SECULAR SEC	E hdamp att scale att og, att
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