μ	20	2 -29 0.1 0.5 -3.8 1.4 2.1 -2.7 -2.3 -2.4 -0.7 -0.6 -0.9 2.9 1.0 0.4 6.2	-229 -0.8 <sub>-1,4</sub> -2.6 -8.4 -1.0 <mark>0.2 -</mark> 1.0 -1.0 0.0 0.9 0.9 0.9 0.9 0.9 0.1 0.9 -2.9 2.6
FFNP_1prong_ptbin0_etabin0	20 <mark>1008</mark> -0.3 -0.2 0.1 -0.2 2.4 2.5 1.0 -0.0 -0.4 0.1 -0.1 0.3 -0.2 -0.4 -0.1	0 .02 .01 .00 .01 .05 .01 .02 .02 .00 .01 .00 .01 .02 .01 .03 .19	. 09 .01 .05 .03 .04 <mark>.01</mark> .07 .01 .01 .08 .09 .09 .09 .09 .09 .13 .09 .17 .28
FFNP_1prong_ptbin0_etabin1	08 03 1008 02 00 01 15 18 07 01 02 02 01 03 00 03 00	0 0.0 02 0.1 0.0 0.0 0.1 0.1 0.0 0.4 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 4.1	. 05 . 0.1 . 0.4 . 0.2 . 0.1 . 0.0 . 0.4 . 0.0 . 0.0 . 0.4 . 0.4 . 0.4 . 0.4 . 0.4 . 0.5 . 0.4 . 0.9 . 0.2
FFNP_1prong_ptbin1_etabin0 FFNP_1prong_ptbin2_etabin0	03 02 02 02 <mark>1000</mark> 00 01 1.1 21 0.4 00 03 02 01 02 01 02 01 03 0.4	0 • 0.1 • 0.1 • 0.0 • 0.0 • 0.2 • 0.1 • 0.2 • 0.2 • 0.1 • 0.1 • 0.0 • 0.1 • 0.2 • 0.0 • 0.1 • 1.0	- 09 - 01 - 04 - 02 - 04 - <mark>00 - 04 - 01 - 01 - 03 - 03 - 03 - 03 - 03 - 03</mark>
FFNP_3prong_ptbin0_etabin0	-0.0 0.2 -0.1 -0.1 -0.0 1000 1.2 1.2 0.6 -0.0 -0.1 0.2 -0.0 0.1 -0.1 -0.2 -0.0	0 -0.0 0.1 0.0 -0.0 0.1 0.1 -0.1 -0.1 0.1 -0.0 0.0 0.0 0.0 0.1 0.0 -0.1 -0.7	*.04 *.00 *.02 *.0.1 *.0.1 *.0.0 *.0.3 *.0.0 *.0.3 *.0.3 *.0.3 *.0.3 *.0.3 *.0.3 *.0.4 *.0.3 *.0.7 *.1.3
FFNP_SS_CR	15.6 2.4 1.6 1.1 0.1 1.2 1000 -19.8 -6.9 0.0 2.3 0.0 0.6 -2.0 1.0 2.2 -0.	1 0.5 -1.0 -0.4 0.3 -1.8 -0.4 0.1 0.4 -1.1 0.5 0.1 0.5 -0.3 -0.5 1.3 <mark>10.1</mark>	3.7 0.5 2.5 1.6 1.8 0.4 3.4 0.4 0.5 4.2 4.6 4.6 4.6 4.6 4.6 6.1 4.6 8.5 14.0
FFNP_OS_CR	266 25 1.8 2.1 0.2 1.2 19.8 1000 10.9 0.1 4.1 1.0 0.7 2.5 2.2 4.0 0.0	0 08 44 05 05 41 41 12 15 47 04 40 02 48 05 14 117	9.6 1.0 3.3 2.5 4.5 0.3 3.9 0.1 0.3 2.8 3.4 3.4 3.4 3.4 3.4 4.0 3.4 <mark>10.6 6.7</mark>
FSR	154 1.0 0.7 0.4 0.1 0.5 6.9 409 1000 0.2 5.5 7.2 0.6 4.7 3.9 2.5 3.	1 .24 .28 .16 .02 .56 .09 .47 .37 .59 .17 .10 .26 .27 .27 .06 .26	14 15 13 36 34 18 03 20 23 21 14 14 14 14 14 14 63 14 65 143
ISR	<mark>0.7   0.0   0.1   0.0   0.0   0.0   0.0   0.1   0.2   1000   0.8   0.2   0.0   1.0   0.3   0.1   0.5 </mark>	2 • 0.7 • 1.0 • 404 • <mark>0.0 • 1.1</mark> • 0.2 • 0.5 • 4.1 • 2.5 • <mark>0.1 • 0.1 • 0.2 • 0.1 • 0.0 • 0.1 • 0.6</mark>	01 03 04 01 02 04 01 01 02 08 08 08 08 08 08 08 08 08 08 08 08 08
JER_1	4.9 0.4 0.2 0.3 0.0 0.1 2.3 4.1 5.6 0.8 1000 2.9 0.5 2.1 1.0 0.0 0.5	9 1.1 1.8 1.2 -0.0 -1.1 0.5 1.9 1.9 4.3 -0.1 -0.1 -0.1 -0.4 0.0 0.0 -3.1	08 01 01 02 09 27 11 01 01 02 07 07 07 07 07 07 08 07 04 60
JER_2 JER_3	5.1 0.1 0.2 0.2 0.1 0.2 0.0 1.0 7.2 0.2 2.9 100.0 0.5 0.1 0.6 1.7 1.1	1 03 04 05 01 18 04 28 14 12 05 04 10 24 04 05 20	49 05 1.1 05 0.9 0.7 1.0 0.8 0.8 22 4.5 4.5 4.5 4.5 4.5 3.0 4.5 2.4 3.7
JER_3 JER_4	37 03 03 02 00 01 20 25 47 40 21 01 42 400 03 05 6	2	41 01 04 05 07 08 04 05 05 07 08 04 05 05 05 05 05 05 05 05 05 05 05 05 05
JER_5	-0.5 · 0.2 · 0.0 · 0.1 · 0.0 · 0.1 · 1.0 · 2.2 · 3.9 · 0.3 · 1.0 · 0.6 · 0.2 · 0.3 · 1000 · 0.7 · 0.3	3 0.2 0.4 0.1 0.0 0.5 0.1 0.1 0.1 0.6 0.4 0.3 0.7 0.0 0.1 0.1 0.2 0.2	-14 03 04 -03 -08 -01 -01 -05 -06 -11 -09 -09 -09 -09 -09 -21 -09 -02 -59
JER_6		1 0 0 3 0 7 0 0 0 0 1 1 1 2 0 3 0 0 9 0 5 1 3 0 6 0 5 1 1 0 9 0 1 0 0 2 0 0 3	-36   00   -03   -03   -05   02   -08   08   09   17   12   12   12   12   12   29   12   4.7   -48
JER_7restTerm	12 -00 -00 -00 00 -00 -01 00 -31 -02 09 1.1 -02 06 0.3 -0.1	0 05 06 03 00 07 00 08 08 13 02 01 03 05 02 01 02	. 05 ' 02 ' 03 <mark>02 ' 02 ' 03 </mark> 02 ' 02 ' 02 ' 04 ' 03 ' 03 ' 03 ' 03 ' 03 ' 08 ' 03 ' 09 ' 13
JES_Modelling1	.29 .02 '00 '01 '00 '00 '05 '08 '24 '07 '11 '03 '04 '17 '02 '03 '04	5 1000 20 0.7 0.1 32 0.2 0.9 1.8 6.0 0.8 0.5 1.3 0.0 0.1 0.1 1.0	08 03 04 00 00 07 03 40 41 24 49 49 49 49 49 49 49 44 48 44 64
JET_EtaInt_Modelling	0.1 0.1 0.2 0.1 0.0 0.1 1.0 1.4 2.8 1.0 1.8 0.4 0.3 2.3 0.4 0.7 0.4	6 20 <mark>1000 0.9 0.0 3.4 0.3 0.9 2.1 6.2 0.7 0.5 1.3 0.2 0.2 0.1 0.5</mark>	19 01 01 02 05 08 02 40 40 40 23 47 47 47 47 47 47 49 47 43 40 40
JET_EtaInt_NonClosure_2018data	0.5 0.0 0.1 0.0 0.0 0.0 0.4 0.5 1.8 0.4 1.2 0.5 0.1 0.9 0.1 0.0 0.1	3 , 07 , 09 , 000 , 00 , 03 , 0.1 , 0.7 , 1.0 , 2.1 , 0.1 , 0.0 , 0.1 , 0.1 , 0.1 , 0.0 , 0.8	01 00 00 02 04 04 00 01 01 02 01 01 02 01 01 01 01 01 01 01 03 01 03 04 08
JET_Flavor_Composition  JET_Flavor_Response	438 * 441 * 440 * 500 * 500 * 600 * 03 * 05 * 62 * 600 * 601 * 600 * 601 * 600 * 601 * 600 * 601 * 600 * 601	0 • 00 • 00 • 01 • 00 • 00 • 01 • 00 • 00 • 01 • 00 • 00 • 01 • 00	**************************************
JET_JER_DataVsMC_MC16	2.1 0.1 0.1 0.1 0.0 0.1 0.4 1.1 0.9 0.2 0.5 0.4 0.0 0.4 0.1 0.3 0.4	0 -02 -03 -01 00 05 1000 01 -0.1 -0.8 0.0 0.0 0.0 -03 0.0 0.1 0.3	1.0 02 03 02 05 0.1 02 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.1 0.3 1.8
JET_Pileup_OffsetMu	-2.7 0.2 0.1 0.2 0.1 0.1 0.1 1.2 4.7 0.5 1.9 2.8 0.3 1.2 0.1 0.9 0.4	8 0.9 0.9 0.7 0.0 0.9 0.1 000 2.0 2.4 0.1 0.1 0.2 1.2 0.3 0.2 0.7	27 02 05 03 02 08 07 02 02 06 04 04 04 04 06 06 06 7.0
JET_Pileup_OffsetNPV	-2.3 .0.2 <mark>0.0 .0.2 0.0 .0.1 0.4 1.5 .</mark> 3.7 .1.1 1.9 1.4 .0.3 .2.1 .0.1 .0.5 .0.1	8 .1.8 .2.1 .1.0 .0.0 .2.5 .0.1 .2.0 .100.0 .5.2 .0.3 .0.2 .0.4 .0.8 .0.3 .0.1 .0.5	.1,4 .0.1 .0.2 <mark>.0.2 .0.0 .1.0</mark> .0.4 .0.3 .0.3 .0.7 .0.5 .0.5 .0.5 .0.5 .0.5 .1.4 .0.5 .2.2 .13.8
JET_Pileup_RhoTopology	-24 - 0.0 - 0.4 - 0.1 - 0.0 - 0.1 - 0.1 - 0.7 - 0.9 - 0.5 - 4.3 - 0.2 - 0.8 - 0.5 - 0.6 - 1.3 - 0.3	3 · 50 · 62 · ·21 · <mark>·0.1 · 8.5 ·</mark> ·0.8 · ·24 · ·52 <mark>· 100.8</mark> · 1.7 · ·12 · ·29 · ·0.5 · ·0.3 · <b>02 · 0.3</b>	38 01 00 04 10 20 01 22 24 43 39 39 39 39 90 39 47 290
LumiUncertainty	-0.7 -0.1 -0.0 -0.1 0.0 -0.0 0.5 0.4 -1.7 0.1 -0.1 -0.5 -0.2 -0.4 0.4 0.5 -0.2	2 0.8 0.7 <mark>0.1 0.0 1.6 0.0 0.1</mark> 0.3 4.7 1000 0.5 4.3 0.1 0.1 0.1 4.4	12 04 05 01 02 01 02 10 4.1 25 21 21 21 21 42 21 42 21 07 18
MEDIUM_tauID_1PGE40	-0.6 -0.0 -0.0 -0.0 -0.0 -0.0 -0.1 -0.0 -1.0 -0.1 -0.1	1 · 05 · 05 · 00 · 00 · 1.1 · 00 · 0.1 · 02 · 12 · 05 <mark>· 1000 ·</mark> 09 · 0.1 · 0.1 · 0.1 · 0.7	. 09 . 03 . 03 . 01 . 01 . 01 . 01 . 06 . 07 . 15 . 13 . 13 . 13 . 13 . 13 . 27 . 13 . 02 . 14
MEDIUM_tauID_SYST  MET_SoftTrk_ResoPara	0.9 0.1 0.0 0.1 0.0 0.0 0.5 0.2 2.6 0.2 0.1 1.0 0.4 0.7 0.7 1.1 0.3	3 1.3 1.3 1.3 1.1 1.1 27 0.0 0.2 0.4 29 1.3 0.9 1000 0.3 0.2 0.2 2.0	22 07 09 01 03 02 02 16 18 42 34 34 34 34 34 70 34 09 30
MET_SoftTrk_ResoPerp	1.0 0.1 0.1 0.0 0.0 0.0 0.5 0.5 2.7 0.0 0.0 0.4 0.0 0.3 0.1 0.1 0.2	2 -0.1 -0.2 -0.1 0.0 0.3 0.0 -0.3 0.3 -0.3 -0.1 -0.1 -0.2 0.3 1000 0.0 0.4	01 01 00 02 01 01 00 02 01 00 00 01 00 01 00 01 01 01 01 01 01
PDF	0.4 - 0.3 - 0.2 - 0.1 - 0.0 - 0.1 - 1.3 - 1.4 - 0.6 - 0.1 - 0.0 - 0.5 - 0.1 - 0.2 - 0.1 - 0.2 - 0.1	10.1 - 0.1 - 0.00.0 - 0.2 - 0.10.20.1 - 0.20.10.10.2 - 0.2 - 0.0 <mark>- 100.0</mark> -/_1.1	- 0.6 - 0.2 - 0.5 - <mark>0.1 - 0.0 - 0.1</mark> - 0.5 - 0.1 - 0.2 - 0.6 - 0.6 - 0.6 - 0.6 - 0.6 - 0.6 - 0.0 - 0.0 - 0.1 - 0.4 - 0.
PRW	62 4.9 4.1 4.0 0.1 4.7 10.1 11.7 2.6 0.6 3.1 2.0 4.4 1.6 4.2 4.3 0.3	2 -1.0 -0.5 -0.6 -0.3 -3.1 -0.3 -0.7 -0.5 -0.3 -1.4 -0.7 -2.0 -0.3 -0.4 -1.1 -100.0	-08 -10 -24 -12 -19 <mark>-00</mark> -25 -15 -19 -59 -56 -56 -56 -56 -56 -92 -56 -66 -15
TES_DETECTOR	<b>22.9</b>	5 0.8 1.9 0.1 0.2 0.0 1.0 0.7 1.4 3.8 1.2 0.9 2.2 2.9 0.1 0.6 0.8	1000 03 1.3 05 22 02 18 1.7 18 4.1 29 29 29 29 29 64 29 45 47
TES_INSITUEXP	-0.8 -0.1 -0.1 -0.1 0.0 -0.0 0.5 1.0 -1.5 0.3 -0.1 0.6 -0.2 0.1 0.3 0.0 -0.2	2 -0.3 -0.1 0.0 -0.0 0.5 0.2 -0.2 -0.1 -0.1 -0.4 -0.3 -0.7 0.3 -0.1 -0.2 -1.0	03 1008 07 01 03 01 04 05 05 13 44 41 41 41 41 41 41 23 41 09 38
TES_MODEL_CLOSURE	.14 05 04 04 01 02 25 33 13 04 01 11 04 04 04 03 03 03	3 0.4 0.1 0.0 0.1 0.7 0.3 0.5 0.2 0.0 0.5 0.3 0.9 0.5 0.0 0.5 0.2.4	. 13 . 07 . 1000 . 03 . 04 . 02 . 10 . 07 . 08 . 20 . 19 . 19 . 19 . 19 . 19 . 34 . 19 . 24 . 39
TES_PHYSICSLIST	-25 40 40 40 40 40 40 40 40 40 40 40 40 40	2 00 02 02 02 03 04 01 01 05 02 00 10 02 01 03 05 01 00 01	
btag_B_0	4.0 • 0.1 • 0.0 • 0.0 • 0.0 • 0.4 • 0.3 • 1.8 • 0.4 • 4.1 • 0.7 • 0.2 • 0.8 • 0.1 • 0.2 • 0.3	3 * 0.7 * 0.8 * 0.4 * 0.0 * 1.0 * 0.1 * 0.8 * 1.0 * 2.0 * 0.1 * 0.1 * 0.2 * 0.2 * 0.1 * 0.1 * 0.0	0.2 0.1 0.2 0.1 0.4 0000 0.3 0.1 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.7 0.4 1.0 4.8
scale	02 0.7 0.4 0.4 0.1 0.3 3.4 3.9 0.3 0.1 0.1 1.0 0.3 0.4 0.1 0.8 0.1	2 0.3 0.2 0.0 0.1 0.6 0.2 0.7 0.4 0.1 0.2 0.1 0.2 0.5 0.0 0.5 2.5	18 04 10 03 04 <mark>03 1000</mark> 02 02 11 12 12 12 12 18 12 32 25
tauEveto_TOTAL	-1.0 -0.1 <mark>-0.0 -0.1 0.0 0.0 0.4 0.1 -2.0 0.1 -0.1 0.8 -0.3 -0.5 0.5 0.8 -</mark> 0.2	2 -1.0 -1.0 <mark>-0.1 -0.0 2.1 0.0 0.2</mark> -0.3 -2.2 -1.0 -0.5 -1.6 -0.2 -0.1 -0.1 -1.5	1.7 0.5 0.7 0.1 0.3 0.1 0.2 1000 1.4 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
tauRecon_TOTAL	-1.0 -0.1 <mark>-0.0 -0.1 0.0 0.0 0.5 0.3 -2.3 0.2 0.2 -0.8 -0.3 0.5 0.6 0.9 0</mark> .2	2 4.1 4.0 <mark>-0.1 -0.1 2.3 0.0 0.2</mark> -0.3 -2.4 4.1 -0.7 4.8 -0.2 -0.2 -0.2 4.9	18 05 08 01 03 <mark>02 02 14 0005</mark> 35 29 29 29 29 60 29 08 28
tauTrigger_STATDATA161718	0.0 0.8 0.4 0.3 0.0 0.3 42 28 21 03 07 22 0.7 0.9 1.1 1.7 0.	4 24 23 02 02 54 01 05 07 53 25 15 42 07 02 06 59	41 13 20 06 09 <mark>04 11 32 38 1000</mark> 80 80 80 80 80 152 80 31 18
tauTrigger_STATDATA2018 tauTrigger_STATMC161718	09 09 04 03 01 03 45 34 14 03 07 15 06 05 09 12 0	3 19 17 10 10 10 10 10 10 10 10 10 10 10 10 10	29 111 119 05 08 04 12 25 29 80 000 69 69 69 128 69 34 11
tauTrigger_STATMC161718 tauTrigger_STATMC2018	09 09 04 03 01 03 46 34 14 03 07 15 06 05 09 17 00	3 19 17 01 02 44 01 04 05 39 21 13 34 04 01 06 65	29 11 19 06 08 04 12 25 29 80 69 69 69 128 69 34 11
tauTrigger_SYST161718	09 09 04 03 01 03 45 34 14 03 07 15 06 05 09 12 0	3 49 47 -01 02 43 01 04 05 39 21 43 34 04 01 06 55	29 4.1 4.9 05 08 04 4.2 25 29 80 69 89 69 100 69 49 69 1428 69 344 11
tauTrigger_SYST2018	09 .09 .04 .03 .00 .03 .45 .34 .14 .03 .07 .15 .05 .05 .09 .12 .03	3 .19 .1,7 <mark>.01</mark> .02 <mark>43 01 04</mark> .05 .39 .21 .13 .34 .04 .01 .06 .56	29 41 49 06 08 04 42 25 29 80 69 69 69 69 000 428 69 44 11
tauTrigger_SYSTMU161718	-0.1	8 . 4,1 . 39 . 03 . 03 <mark>. 80 . 02 . 05</mark> . 4,4 . 40 . 42 . <sub>27</sub> . 70 . 08 . 04 . 10 . 42	64 - 23 - 34 - 09 - 13 - 07 - 18 - 63 - 60 - 152 - 128 - 128 - 127 - 128
tauTrigger_SYSTMU2018	09 09 04 03 00 03 46 34 14 03 07 15 06 05 09 12 0	3 19 17 <mark>01</mark> 02 <mark>44 01 04</mark> 05 39 21 13 34 04 01 06 65	29 111 119 06 08 04 112 25 29 80 69 69 69 69 69 128 1000 34 11
only $\tau_{sub}$ real modelling	·29 ·1.7 ·0.9 ·1.0 ·0.2 ·0.7 ·85 ·10.6 ·6.5 ·0.4 ·0.4 ·2.4 ·0.5 ·0.1 ·0.2 ·1.7 ·0.1	9 4,4 03 03 02 <mark>32 03</mark> 23 22 4,7 07 02 09 <mark>1.6 0</mark> 04 1.3 6.6	45 09 24 03 11 10 32 06 08 31 34 34 34 34 34 34 52 34 <mark>1000</mark> 133
et PS	26 26 02 10 02 13 140 167 143 96 60 37 00 107 69 48 11	3 84 105 48 03 <mark>139</mark> 18 70 138 <b>290 18 14 30 08 08 04 1</b> 5	64 23 434 05 435 07 48 43 40 40 41 42 25 28 28 40 43 43 43 43 43 43 43 43 43 44 44 71 43 48 48 48 48 48 48 48 48 48 48 48 48 48
if hdamp			
	pano, gedeno patro, cedano patro, cedano patro, gedeno patro, gedeno pat	bodeling1  104444  1054444  1054444  105444  1	S. S. SENIEDO S. S. S. SENIEDO S. S. S. S. SENIEDO S. S. S. S. SENIEDO S. S. S. SENIEDO S. SEN
	pabino, pabino	JET, Louder Designation of the Composition of the C	TES_NETURO E SET NETURO E SET NETURO.
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