ATLAS Internal																															
BTag_B_0	100.0	-0.5	0.1	-0.0	-0.4	-0.2	1.0	0.1	0.1	0.3	0.1	0.4	0.2	0.2	1.0	0.2	4.7	0.7	-0.7	-1.7	0.0	0.2	0.4	0.4	1.3	5.8	17.7	6.6	3.8	6.2	2.7
BTag_Light_0	-0.5	100.0	0.1	-0.1	-0.4	-0.3	0.9	-0.0	0.0	0.3	0.1	0.3	0.2	0.2	0.4	0.2	-1.9	0.8	-0.6	-1.5	0.5	0.9	10.5	0.5	1.3	12.1	6.7	8.0	7.6	8.5	-1.4
Electron_Iso_SF_0	0.1	0.1	100.0	0.0	0.1	0.1	-0.1	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	0.1	-0.2	0.1	0.3	-0.1	-0.1	-1.6	-0.1	-0.2	-13.4	-8.5	-10.9	-8.4	-7.1	-2.4
JET_BJES_Response	-0.0	-0.1	0.0	100.0	0.0	0.0	0.0	-0.2	0.0	-0.0	0.0	-0.1	0.0	0.0	-0.3	-0.1	-5.9	-0.2	0.2	0.0	0.0	0.1	0.6	0.1	0.1	-7.4	-7.2	-10.4	-12.5	-5.8	-2.6
JET_EffectiveNP_Modelling1	-0.4	-0.4	0.1	0.0	100.0	-0.1	0.9	0.1	0.1	0.4	0.1	0.4	0.2	0.2	0.8	0.1	5.8	0.6	-0.6	-1.0	-0.0	0.1	-0.7	0.4	1.2	-7.7	-0.5	-13.7	-17.5	-13.7	-4.6
_EtaIntercalibration_Modelling	-0.2	-0.3	0.1	0.0	-0.1	100.0	0.6	-0.0	0.1	0.3	0.1	0.3	0.1	0.1	0.3	0.1	3.4	0.2	-0.2	-0.3	0.0	0.2	0.7	0.3	0.8	-9.0	-7.6	-10.5	-10.0	-8.3	-6.2
JET_Flavor_Composition	1.0	0.9	-0.1	0.0	0.9	0.6	100.0	-0.3	-0.0	-0.5	-0.2	-0.6	-0.3	-0.3	-1.5	-0.5	-3.8	-1.8	1.5	3.3	-0.4	-0.8	-8.4	-0.8	-2.2	-27.9	-13.0	-8.4	-6.6	-9.5	2.0
JET_Flavor_Response	0.1	-0.0	-0.0	-0.2	0.1	-0.0	-0.3	100.0	-0.0	-0.1	-0.0	-0.3	-0.1	-0.0	-0.9	-0.1	-13.3	-0.3	0.5	-0.0	0.3	0.5	5.9	0.2	-0.1	8.5	4.3	9.4	9.4	10.7	0.9
JET_Pileup_OffsetNPV	0.1	0.0	0.0	0.0	0.1	0.1	-0.0	-0.0	100.0	0.0	0.0	0.0	-0.0	-0.0	-0.1	-0.0	1.0	-0.1	0.1	0.4	-0.1	-0.1	-1.3	-0.0	-0.0	-7.2	-7.4	-10.7	-8.2	-6.7	-1.6
JET_Pileup_RhoTopology	0.3	0.3	-0.0	-0.0	0.4	0.3	-0.5	-0.1	0.0	100.0	-0.1	-0.2	-0.1	-0.1	-0.4	-0.3	-0.9	-0.8	0.6	1.5	-0.3	-0.5	-6.4	-0.4	-0.8	-26.7	-19.7	-24.7	-19.1	-16.1	-2.2
Luminosity	0.1	0.1	-0.0	0.0	0.1	0.1	-0.2	-0.0	0.0	-0.1	100.0	-0.1	-0.0	-0.0	-0.1	-0.0	0.3	-0.2	0.1	0.4	-0.1	-0.1	-1.5	-0.1	-0.3	-14.0	-9.4	-11.3	-9.1	-7.8	-2.7
PileupRW	0.4	0.3	-0.0	-0.1	0.4	0.3	-0.6	-0.3	0.0	-0.2	-0.1	100.0	-0.1	-0.1	-1.0	-0.3	-6.4	-0.9	0.8	1.8	-0.1	-0.3	-1.0	0.7	-0.5	18.9	2.8	4.7	1.9	2.0	2.2
Photon_ID	0.2	0.2	-0.0	0.0	0.2	0.1	-0.3	-0.1	-0.0	-0.1	-0.0	-0.1	100.0	-0.1	-0.3	-0.1	-0.8	-0.4	0.4	0.5	-0.1	-0.2	-2.5	-0.3	-0.5	-29.2	-6.7	-8.1	-7.7	-7.3	-1.7
Photon_efflso	0.2	0.2	-0.0	0.0	0.2	0.1	-0.3	-0.0	-0.0	-0.1	-0.0	-0.1	-0.1	100.0	-0.2	-0.1	0.6	-0.4	0.3	0.6	-0.1	-0.2	-2.5	-0.3	-0.5	-28.0	-11.7	-14.1	-12.1	-10.7	-3.2
Wty_Herwig7	1.0	0.4	-0.1	-0.3	0.8	0.3	-1.5	-0.9	-0.1	-0.4	-0.1	-1.0	-0.3	-0.2	100.0	-0.3	-29.7	-1.6	1.8	2.5	0.4	0.8	8.8	0.4	-1.2	1.3	-3.5	2.9	-1.6	-2.4	-7.2
hfakeSF	0.2	0.2	-0.1	-0.1	0.1	0.1	-0.5	-0.1	-0.0	-0.3	-0.0	-0.3	-0.1	-0.1	-0.3	100.0	-3.3	-0.6	0.4	1.1	-0.1	-0.3	-1.7	-0.2	-0.8	-8.6	-20.8	-24.0	-20.3	-11.6	-5.6
tty_dec_Herwig7	4.7	-1.9	0.1	-5.9	5.8	3.4	-3.8	-13.3	1.0	-0.9	0.3	-6.4	-0.8	0.6	-29.7	-3.3	100.0	-17.6	21.2	2.6	1.2	8.3	23.1	10.9	5.7	6.5	-10.0	-4.3	9.1	23.3	-14.9
tty_dec_muF	0.7	0.8	-0.2	-0.2	0.6	0.2	-1.8	-0.3	-0.1	-0.8	-0.2	-0.9	-0.4	-0.4	-1.6	-0.6	-17.6	100.0	1.5	2.1	-0.2	-0.5	-2.9	-0.8	-2.5	0.4	-3.2	1.9	3.0	-1.6	1.5
tty_dec_var3c	-0.7	-0.6	0.1	0.2	-0.6	-0.2	1.5	0.5	0.1	0.6	0.1	0.8	0.4	0.3	1.8	0.4	21.2	1.5	100.0	-1.7	0.1	0.2	1.3	0.4	1.8	-1.1	0.3	-8.1	-3.7	-0.0	-1.3
tty_prod_Herwig7	-1.7	-1.5	0.3	0.0	-1.0	-0.3	3.3	-0.0	0.4	1.5	0.4	1.8	0.5	0.6	2.5	1.1	2.6	2.1	-1.7	100.0	-0.2	0.7	-3.8	1.5	4.5	-2.1	-33.0	15.8	6.0	-32.4	-8.0
uncalib_bjet	0.0	0.5	-0.1	0.0	-0.0	0.0	-0.4	0.3	-0.1	-0.3	-0.1	-0.1	-0.1	-0.1	0.4	-0.1	1.2	-0.2	0.1	-0.2	100.0	-0.9	-11.6	-0.6	-0.8	1.4	0.4	0.5	0.4	2.7	-9.5
uncalib_cjet	0.2	0.9	-0.1	0.1	0.1	0.2	-0.8	0.5	-0.1	-0.5	-0.1	-0.3	-0.2	-0.2	0.8	-0.3	8.3	-0.5	0.2	0.7	-0.9	100.0	-18.4	-0.8	-1.8	3.0	0.3	1.4	5.0	-7.9	-2.9
uncalib_ljet	0.4	10.5	-1.6	0.6	-0.7	0.7	-8.4	5.9	-1.3	-6.4	-1.5	-1.0	-2.5	-2.5	8.8	-1.7	23.1	-2.9	1.3	-3.8	-11.6	-18.4	100.0	-14.0	-18.4	23.9	8.7	10.9	11.3	32.4	-75.8
	;										; ;																				

-0.8 5.7

-8.6 6.5

-20.8 -10.0 -3.2

-24.0 -4.3

-20.3 9.1

-11.6 23.3

hfakeSF

tty_dec_Merwig7
tty_dec_muF
tty_dec_var3e
tty_dec_var3e
tty_dec_var3e
uncalib_bjet
uncalib_bjet
uncalib_jet

-2.5

0.4

1.9 -8.1 15.8 0.5

3.0 -3.7 6.0 0.4

-1.6

1.8 4.5

-1.1

0.3 -33.0 0.4 0.3

-0.0 -32.4

2.7

-1.3 -8.0 -9.5 -2.9

-2.1

-0.8 -1.8 -18.4 -1.8 <mark>100.0 -36.5 -13.0 -4.3 -3.5 -11.5</mark>

8.7 -24.8 -13.0 26.1 100.0 13.3 24.2 26.0

100.0 26.1 27.0 26.4 29.9

100.0 14.7 22.9

100.0

-3.3

3.0 23.9 -36.4 -36.5

5.0 11.3 -14.1 -3.5

1.4 10.9 -22.9 -4.3 27.0 13.3

-7.9 32.4 -10.0 -11.5 29.9 26.0 22.9

-75.8 5.5 7.2 -3.3 5.9

Norm factor for tty dec tty_pit Unfolded Truth Bin 1 ty_pit Unfolded Truth Bin 2 ty_pit Unfolded Truth Bin 4 ty_pit Unfolded Truth Bin 4

Wty Norm Zy Norm

-0.3 -0.5 -0.5 -0.5 -1.2

-9.4 2.8 -6.7 -11.7 -3.5

-9.1 1.9 -7.7 -12.1 -1.6

Photon_ID

Photon_efflso

Wty_Herwig7

PileupRW

Luminosity

4.7 -8.1 -14.1 2.9

Wty Norm

Zγ Norm

BTag_B_0
BTag_Light_0
Electron_Iso_SF_0

Norm factor for tty dec

tty_ptj1 Unfolded Truth Bin 1

tty_ptj1 Unfolded Truth Bin 2

tty_ptj1 Unfolded Truth Bin 3

tty_ptj1 Unfolded Truth Bin 4

tty_ptj1 Unfolded Truth Bin 5

0.1 1.2 0.8 -2.2 -0.1 -0.0 -0.8

-10.9 -10.4 -13.7 -10.5 -8.4 9.4 -10.7 -24.7 -11.3

-8.4 -12.5 -17.5 -10.0 -6.6 <u>9.4</u> -8.2 -19.1

-7.2 -0.5 -7.6 -13.0 4.3

T_EtaIntercalibration_Modelling

JET_Flavor_Composition
JET_Flavor_Response
JET_Plieup_OffsethPV
JET_Plieup_RhoTopology

JET_BJES_Response

12.1 -13.4 -7.4 -7.7 -9.0 -27.9 8.5 -7.2 -26.7 -14.0 18.9 -29.2 -28.0 1.3

-7.4 -19.7

-7.1 -5.8 -13.7 -8.3 -9.5 10.7 -6.7 -16.1 -7.8 2.0 -7.3 -10.7 -2.4

-1.4 -2.4 -2.6 -4.6 -6.2 2.0 0.9 -1.6 -2.2 -2.7 2.2 -1.7 -3.2 -7.2 -5.6 -14.9 1.5