ATLAS Internal																											
BTag_B_0	100.0	-0.1	0.3	-0.1	-0.1	0.2	0.2	-1.5	-0.0	0.1	-0.5	-0.1	-0.0	-0.4	-0.3	0.4	-2.3	-2.7	0.5	0.0	5.2	-0.1	17.5	13.5	17.8	10.1	-8.5
BTag_B_1	-0.1	100.0	0.1	-0.0	-0.1	0.1	0.0	-0.6	-0.0	0.0	-0.4	-0.0	0.1	-0.2	-0.2	0.2	-2.5	-7.1	0.1	-0.0	2.9	-0.1	11.4	9.1	10.3	5.9	-2.1
BTag_Light_0	0.3	0.1	100.0	0.1	-0.1	-0.0	0.0	0.8	-0.2	0.0	0.3	0.1	-0.1	0.2	0.2	-0.5	3.0	2.7	0.6	-0.0	-4.1	0.1	7.2	8.0	10.6	13.2	7.5
Electron_Iso_SF_0	-0.1	-0.0	0.1	100.0	0.0	0.0	0.0	-0.2	0.0	-0.0	-0.1	-0.0	0.0	-0.1	-0.0	0.1	-0.8	-1.4	0.0	0.0	0.9	-0.0	-9.1	-9.6	-11.8	-13.1	-9.6
JET_BJES_Response	-0.1	-0.1	-0.1	0.0	100.0	-0.1	0.0	-0.3	-0.1	-0.0	-0.4	0.0	-0.1	0.1	0.1	-0.1	-2.2	5.9	-0.5	-0.2	1.5	-0.2	-13.5	-12.3	-14.3	-10.4	-2.1
JET_EffectiveNP_Modelling1	0.2	0.1	-0.0	0.0	-0.1	100.0	-0.1	0.3	0.1	-0.1	-0.0	0.0	-0.1	0.2	0.1	-0.2	-0.3	7.1	-0.7	-0.1	-1.1	-0.0	-12.9	-11.0	-14.1	-15.3	-12.2
T_EtaIntercalibration_Modelling	0.2	0.0	0.0	0.0	0.0	-0.1	100.0	0.2	0.1	-0.1	0.1	0.0	-0.0	0.1	0.0	-0.1	-0.2	2.5	-0.5	-0.0	-0.8	-0.0	-9.0	-7.8	-11.4	-13.2	-11.0
JET_Flavor_Composition	-1.5	-0.6	0.8	-0.2	-0.3	0.3	0.2	100.0	-0.0	0.1	-1.6	-0.2	0.2	-0.9	-0.6	1.3	-11.0	-11.0	-0.6	-0.1	17.2	-0.5	-2.4	-11.4	-12.1	-12.9	-19.4
JET_Flavor_Response	-0.0	-0.0	-0.2	0.0	-0.1	0.1	0.1	-0.0	100.0	0.1	-0.1	0.0	-0.0	0.0	0.0	-0.1	0.0	-0.1	0.3	-0.0	-0.1	-0.0	6.1	5.7	8.7	13.6	16.7
JET_Pileup_OffsetNPV	0.1	0.0	0.0	-0.0	-0.0	-0.1	-0.1	0.1	0.1	100.0	-0.0	-0.0	-0.0	0.1	0.0	-0.1	-0.6	3.0	-0.4	-0.1	-0.4	-0.0	-9.1	-7.9	-10.0	-11.4	-10.2
JET_Pileup_RhoTopology	-0.5	-0.4	0.3	-0.1	-0.4	-0.0	0.1	-1.6	-0.1	-0.0	100.0	-0.1	-0.0	-0.2	-0.2	0.4	-7.2	1.8	-1.5	-0.3	9.5	-0.4	-21.0	-24.4	-29.4	-26.5	-18.8
Luminosity	-0.1	-0.0	0.1	-0.0	0.0	0.0	0.0	-0.2	0.0	-0.0	-0.1	100.0	0.0	-0.1	-0.0	0.1	-0.7	-1.3	0.0	0.0	1.0	-0.0	-9.6	-10.2	-12.6	-13.6	-11.0
PileupRW	-0.0	0.1	-0.1	0.0	-0.1	-0.1	-0.0	0.2	-0.0	-0.0	-0.0	0.0	100.0	0.2	0.2	-0.1	-0.1	11.2	-1.2	-0.2	1.2	-0.0	5.9	5.2	6.2	5.1	6.1
Photon_ID	-0.4	-0.2	0.2	-0.1	0.1	0.2	0.1	-0.9	0.0	0.1	-0.2	-0.1	0.2	100.0	-0.3	0.4	-1.9	-15.1	1.1	0.2	3.7	-0.0	-6.0	-9.5	-11.9	-12.2	-9.0
Photon_efflso	-0.3	-0.2	0.2	-0.0	0.1	0.1	0.0	-0.6	0.0	0.0	-0.2	-0.0	0.2	-0.3	100.0	0.3	-1.4	-9.2	0.6	0.1	2.9	-0.0	-12.1	-14.3	-17.5	-18.3	-14.2
hfakeSF_	0.4	0.2	-0.5	0.1	-0.1	-0.2	-0.1	1.3	-0.1	-0.1	0.4	0.1	-0.1	0.4	0.3	100.0	2.0	10.6	0.1	-0.1	-5.9	0.1	-14.2	-14.3	-18.5	-28.4	-39.2
tty_dec_Herwig7	-2.3	-2.5	3.0	-0.8	-2.2	-0.3	-0.2	-11.0	0.0	-0.6	-7.2	-0.7	-0.1	-1.9	-1.4	2.0	100.0	0.8	-3.3	-1.2	13.6	-3.5	44.6	4.0	5.4	0.6	3.0
tty(dec) Norm	-2.7	-7.1	2.7	-1.4	5.9	7.1	2.5	-11.0	-0.1	3.0	1.8	-1.3	11.2	-15.1	-9.2	10.6	0.8	100.0	61.6	10.0	21.7	2.9	-51.3	-63.8	-60.7	-48.9	-18.0
tty_prod_Herwig7	0.5	0.1	0.6	0.0	-0.5	-0.7	-0.5	-0.6	0.3	-0.4	-1.5	0.0	-1.2	1.1	0.6	0.1	-3.3	61.6	100.0	-1.8	32.9	-0.9	-25.4	-51.7	-47.9	-35.7	-8.8
tty_prod_muR	0.0	-0.0	-0.0	0.0	-0.2	-0.1	-0.0	-0.1	-0.0	-0.1	-0.3	0.0	-0.2	0.2	0.1	-0.1	-1.2	10.0	-1.8	100.0	4.2	-0.2	-5.9	-7.5	-6.7	-7.6	-0.8
tty_prod_var3c	5.2	2.9	-4.1	0.9	1.5	-1.1	-0.8	17.2	-0.1	-0.4	9.5	1.0	1.2	3.7	2.9	-5.9	ļļ	ļ		4.2	100.0	3.0	13.4	-58.6	-32.9	-8.5	23.2
uncalib_ljet	-0.1	-0.1	0.1	-0.0	-0.2	-0.0	-0.0	-0.5	-0.0	-0.0	-0.4	-0.0	-0.0	-0.0	-0.0	0.1	-3.5	2.9	-0.9	-0.2	3.0	100.0	·	-14.1	ļ	ļļ	ļ
nb_all_syst Unfolded Truth Bin 1	17.5	11.4	7.2			-12.9		-2.4	6.1		-21.0	-9.6	5.9						-25.4			-15.6			ļ .		36.2
nb all syst Unfolded Truth Bin 2	13.5	9.1	8.0	·}·····	ļ	-11.0	ļ	-11.4	j	,	}}	} <u>}</u>	i	į	-14.3	<u>.</u>	ļ	ļ				, · · · · ·	47.5	ļi	77.0	į	
J_all_syst officialss	13.5	3.1	0.0	-9.0	-12.0	-11.0	-7.5		J.,	-1.5	-24.4	-10.2	3.2	-9.5	-14.5	-14.0	4.0	-00.0	-51	-7.5	-30.0	-14.1	47.5	100.0		56.5	20.1

17.8 | 10.3 | 10.6 | -11.8 | -14.3 | -14.1 | -11.4 | -12.1 | 8.7 | -10.0 | -29.4 | -12.6 | 6.2 | -11.9 | -17.5 | -18.5 | 5.4 | -60.7 | -47.9 | -6.7 | -32.9 | -14.4 | 58.4 | 77.0 | 100.0 | 66.2 | 35.7

10.1 5.9 13.2 -13.1 -10.4 -15.3 -13.2 -12.9 13.6 -11.4 -26.5 -13.6 5.1 -12.2 -18.3 -28.4 0.6 -48.9 -35.7 -7.6 -8.5 -11.6 54.0 58.9 66.2 100.0 46.1

-8.5 -2.1 **7.5** -9.6 -2.1 -12.2 -11.0 -19.4 **16.7** -10.2 -18.8 -11.0 **6.1** -9.0 -14.2 -39.2 3.0 -18.0 -8.8 -0.8 **23.2** -10.8 **36.2 20.7 35.7 46.1 100.0**

Photon_efflso hfakeSF_ tty(dec) Norm

tty_dec_Herwig7

tty_prod_Herwig7

tty_prod_muR tty_prod_var3c uncalib_ljet nb_all_syst Unfolded Truth Bin 3
nb_all_syst Unfolded Truth Bin 3
nb_all_syst Unfolded Truth Bin 4
nb_all_syst Unfolded Truth Bin 5

hb_all_syst Unfolded Truth Bin 1

PileupRW Photon_ID

Luminosity

JET_Pileup_OffsetNPV JET_Pileup_RhoTopology

JET_Flavor_Response

hb_all_syst Unfolded Truth Bin 3

hb_all_syst Unfolded Truth Bin 4

hb_all_syst Unfolded Truth Bin 5

BTag_B_1

BTag_B_0

BTag_Light_0 Electron_Iso_SF_0

JET_BJES_Response
JET_EffectiveNP_Modelling1

T_EtaIntercalibration_Modelling
JET_Flavor_Composition