

**ATLAS** Internal

	BTag_B_0	100.0	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.0	0.1	0.1	-0.0	0.0	-0.2	0.0	0.0	0.2	0.6	-3.0	0.4	-0.7	-0.1	-0.3	0.2	9.5	10.1	10.1	9.4	10.3	10.3	11.1
	BTag_Light_0	-0.1	100.0	0.0	0.2	0.0	0.1	0.2	1.4	-0.5	0.2	0.9	0.2	-0.5	0.4	0.3	-0.4	0.9	1.6	0.9	-1.2	-0.0	1.7	2.5	7.4	6.4	8.6	6.0	7.9	9.9	11.3
	EG_SCALE_ALL	-0.1	0.0	100.0	0.0	-0.1	-0.0	0.1	0.1	0.0	0.0	-0.0	0.1	-0.5	0.3	0.2	0.3	0.8	7.8	0.3	-1.0	0.1	0.1	0.6	-10.7	-10.2	-9.3	-8.8	-8.5	-10.8	-10.8
	Electron_Iso_SF_0	-0.0	0.2	0.0	100.0	0.1	0.1	0.1	-0.2	0.1	0.0	-0.1	-0.0	0.0	-0.1	-0.0	0.0	0.1	-1.3	0.3	0.1	0.1	0.0	-0.1	-8.8	-10.0	-10.7	-11.2	-11.3	-11.5	-12.6
	JET_BJES_Response	0.0	0.0	-0.1	0.1	100.0	-0.0	-0.0	0.5	-0.2	0.0	0.3	0.1	-0.0	0.2	0.2	0.1	-0.4	4.9	0.2	0.3	0.1	0.7	0.8	-11.9	-11.2	-11.5	-11.1	-11.4	-11.6	-11.8
	JET_EffectiveNP_Modelling1	0.1	0.1	-0.0	0.1	-0.0	100.0	-0.1	0.2	-0.0	-0.0	0.1	0.1	-0.0	0.3	0.2	-0.0	-0.6	8.2	-0.1	0.5	0.2	0.9	0.8	-14.9	-14.7	-14.4	-14.5	-15.0	-13.9	-15.1
	EtaIntercalibration_Modelling	0.1	0.2	0.1	0.1	-0.0	-0.1	100.0	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.1	-0.2	-1.2	3.6	-0.3	0.7	0.1	0.8	0.5	-11.3	-11.4	-12.0	-12.1	-12.0	-11.0	-11.8
	JET_Flavor_Composition	0.0	1.4	0.1	-0.2	0.5	0.2	0.1	100.0	1.5	0.1	-1.5	-0.2	-0.3	-0.7	-0.5	0.0	1.4	-13.8	2.5	-0.8	0.0	-1.1	-2.7	-3.6	-7.3	-11.1	-12.7	-9.9	-12.0	-13.9
	JET_Flavor_Response	0.1	-0.5	0.0	0.1	-0.2	-0.0	0.0	1.5	100.0	0.0	1.0	0.1	0.5	0.1	0.1	-0.2	-0.9	-0.5	0.6	1.4	0.0	1.0	1.1	5.3	7.3	8.1	8.8	9.4	11.2	12.9
	JET_Pileup_OffsetNPV	0.1	0.2	0.0	0.0	0.0	-0.0	0.0	0.1	0.0	100.0	0.0	0.0	-0.0	0.1	0.1	-0.1	-0.3	4.1	0.2	0.4	0.2	0.6	0.4	-10.6	-10.8	-11.6	-11.3	-10.6	-10.4	-10.7
	JET_Pileup_RhoTopology	-0.0	0.9	-0.0	-0.1	0.3	0.1	0.1	-1.5	1.0	0.0	100.0	-0.1	-0.4	-0.2	-0.1	0.2	0.9	-0.1	0.5	-0.7	0.2	-0.2	-0.9	-19.4	-21.7	-23.3	-24.9	-24.5	-26.3	-29.0
	Luminosity	0.0	0.2	0.1	-0.0	0.1	0.1	0.0	-0.2	0.1	0.0	-0.1	100.0	0.0	-0.1	-0.0	0.2	0.0	-1.2	0.4	0.2	0.1	0.1	-0.1	-9.4	-10.8	-11.4	-12.0	-12.4	-12.4	-13.6
	PileupRW	-0.2	-0.5	-0.5	0.0	-0.0	-0.0	0.1	-0.3	0.5	-0.0	-0.4	0.0	100.0	0.4	0.3	0.1	3.0	11.7	3.0	-3.4	-0.1	-1.0	0.4	5.3	5.2	3.7	4.4	9.8	1.6	4.7
	Photon_ID	0.0	0.4	0.3	-0.1	0.2	0.3	0.1	-0.7	0.1	0.1	-0.2	-0.1	0.4	100.0	-0.4	0.0	0.0	-15.7	2.1	0.8	0.1	-0.1	-1.2	-4.0	-6.6	-9.7	-10.9	-10.6	-10.9	-11.8
	Photon_effIso	0.0	0.3	0.2	-0.0	0.2	0.2	0.1	-0.5	0.1	0.1	-0.1	-0.0	0.3	-0.4	100.0	-0.0	-0.3	-9.5	1.0	0.7	0.1	0.0	-0.7	-10.9	-13.3	-15.3	-16.3	-16.4	-16.3	-17.8
	hfakeSF_	0.2	-0.4	0.3	0.0	0.1	-0.0	-0.2	0.0	-0.2	-0.1	0.2	0.2	0.1	0.0	-0.0	100.0	-1.0	7.0	0.4	1.9	-0.3	0.4	-0.0	-8.3	-12.2	-12.5	-16.8	-21.4	-25.4	-36.0
	tty_dec_Herwig7	0.6	0.9	0.8	0.1	-0.4	-0.6	-1.2	1.4	-0.9	-0.3	0.9	0.0	3.0	0.0	-0.3	-1.0	100.0	4.3	-10.4	6.5	-0.4	1.4	0.2	6.6	-1.1	2.6	-2.7	-5.0	-0.8	-1.8
	tty(dec) Norm	-3.0	1.6	7.8	-1.3	4.9	8.2	3.6	-13.8	-0.5	4.1	-0.1	-1.2	11.7	-15.7	-9.5	7.0	4.3	100.0	44.4	8.7	1.8	-7.0	-23.9	-67.9	-48.6	-40.2	-35.8	-36.8	-36.1	-35.9
	tty_prod_Herwig7	0.4	0.9	0.3	0.3	0.2	-0.1	-0.3	2.5	0.6	0.2	0.5	0.4	3.0	2.1	1.0	0.4	-10.4	44.4	100.0	-4.8	-0.1	3.8	6.4	-43.7	-33.9	-39.9	-41.0	-32.1	-31.3	-23.3
	tty_prod_var3c	-0.7	-1.2	-1.0	0.1	0.3	0.5	0.7	-0.8	1.4	0.4	-0.7	0.2	-3.4	0.8	0.7	1.9	6.5	8.7	-4.8	100.0	0.5	-0.1	2.7	-16.3	8.9	-7.1	-7.2	-4.1	1.1	-12.7
	uncalib_ljet	-0.1	-0.0	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.2	0.2	0.1	-0.1	0.1	0.1	-0.3	-0.4	1.8	-0.1	0.5	100.0	1.3	1.1	-13.3	-14.6	-14.1	-13.2	-13.2	-14.9	-15.0
	Wty Norm	-0.3	1.7	0.1	0.0	0.7	0.9	0.8	-1.1	1.0	0.6	-0.2	0.1	-1.0	-0.1	0.0	0.4	1.4	-7.0	3.8	-0.1	1.3	100.0	1.1	-24.4	-29.4	-26.6	-27.7	-27.8	-27.1	-24.0
	Zy Norm	0.2	2.5	0.6	-0.1	0.8	0.8	0.5	-2.7	1.1	0.4	-0.9	-0.1	0.4	-1.2	-0.7	-0.0	0.2	-23.9	6.4	2.7	1.1	1.1	100.0	-2.8	-7.3	-16.0	-15.9	-13.1	-11.9	-13.7
	r2_all_syst Unfolded Truth Bin 1	9.5	7.4	-10.7	-8.8	-11.9	-14.9	-11.3	-3.6	5.3	-10.6	-19.4	-9.4	5.3	-4.0	-10.9	-8.3	6.6	-67.9	-43.7	-16.3	-13.3	-24.4	-2.8	100.0	70.4	69.7	66.4	66.0	65.0	67.1
	r2_all_syst Unfolded Truth Bin 2	10.1	6.4	-10.2	-10.0	-11.2	-14.7	-11.4	-7.3	7.3	-10.8	-21.7	-10.8	5.2	-6.6	-13.3	-12.2	-1.1	-48.6	-33.9	8.9	-14.6	-29.4	-7.3	70.4	100.0	63.3	62.3	63.2	63.6	63.5
	r2_all_syst Unfolded Truth Bin 3	10.1	8.6	-9.3	-10.7	-11.5	-14.4	-12.0	-11.1	8.1	-11.6	-23.3	-11.4	3.7	-9.7	-15.3	-12.5	2.6	-40.2	-39.9	-7.1	-14.1	-26.6	-16.0	69.7	63.3	100.0	63.9	63.3	63.3	65.0
	r2_all_syst Unfolded Truth Bin 4	9.4	6.0	-8.8	-11.2	-11.1	-14.5	-12.1	-12.7	8.8	-11.3	-24.9	-12.0	4.4	-10.9	-16.3	-16.8	-2.7	-35.8	-41.0	-7.2	-13.2	-27.7	-15.9	66.4	62.3	63.9	100.0	62.8	63.3	65.5
	r2_all_syst Unfolded Truth Bin 5	10.3	7.9	-8.5	-11.3	-11.4	-15.0	-12.0	-9.9	9.4	-10.6	-24.5	-12.4	9.8	-10.6	-16.4	-21.4	-5.0	-36.8	-32.1	-4.1	-13.2	-27.8	-13.1	66.0	63.2	63.3	62.8	100.0	63.4	67.5
	r2_all_syst Unfolded Truth Bin 6	10.3	9.9	-10.8	-11.5	-11.6	-13.9	-11.0	-12.0	11.2	-10.4	-26.3	-12.4	1.6	-10.9	-16.3	-25.4	-0.8	-36.1	-31.3	1.1	-14.9	-27.1	-11.9	65.0	63.6	63.3	63.3	63.4	100.0	68.4
	r2_all_syst Unfolded Truth Bin 7	11.1	11.3	-10.8	-12.6	-11.8	-15.1	-11.8	-13.9	12.9	-10.7	-29.0	-13.6	4.7	-11.8	-17.8	-36.0	-1.8	-35.9	-23.3	-12.7	-15.0	-24.0	-13.7	67.1	63.5	65.0	65.5	67.5	68.4	100.0
	BTag_B_0																														
	BTag_Light_0																														
	EG_SCALE_ALL																														
	Electron_Iso_SF_0																														
	JET_BJES_Response																														
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	JET_Pileup_OffsetNPV																														
	JET_Pileup_RhoTopology																														
	Luminosity																														
	PileupRW																														
	Photon_ID																														
	Photon_effIso																														
	hfakeSF_																														
	tty_dec_Herwig7																														
	tty(dec) Norm																														