

BTag_B_0	100.0	0.3	-0.0	0.1	0.0	-0.1	-0.3	0.2	0.0	-0.2	-0.0	0.0	-0.1	-0.0	0.1	0.0	-0.1	-0.2	-0.1	7.0	6.0	7.5	7.5	8.1	7.3	8.7	12.2	
	0.3	100.0	0.0	0.2	0.1	-0.2	-1.8	0.9	0.0	-0.8	-0.1	-0.1	-0.1	-0.1	-0.4	-1.9	-0.5	-0.0	-0.2	-0.4	14.1	4.3	8.9	10.5	8.0	6.7	6.9	10.6
Electron_Iso_SF_0	-0.0	0.0	100.0	-0.1	0.0	0.1	0.2	-0.1	-0.0	0.1	0.0	0.1	0.0	0.0	-0.0	-0.1	0.3	0.1	-0.0	-0.0	-12.7	-3.1	-6.6	-7.4	-9.4	-9.5	-10.2	-12.2
JET_BJES_Response	0.1	0.2	-0.1	100.0	-0.1	0.0	0.2	-0.1	-0.2	-0.1	-0.0	0.0	0.0	-0.0	0.0	-1.1	-0.5	0.1	-0.7	-0.5	-5.5	-3.5	-4.3	-6.3	-8.7	-8.3	-9.4	-12.3
JET_EffectiveNP_Modelling1	0.0	0.1	0.0	-0.1	100.0	-0.0	0.8	-0.3	-0.1	0.3	0.0	-0.3	0.2	0.1	0.1	1.3	0.0	0.0	0.0	0.4	-5.3	-5.9	-8.9	-10.2	-12.0	-11.5	-13.1	-13.8
JET_EtaIntercalibration_Modelling	-0.1	-0.2	0.1	0.0	-0.0	100.0	0.5	-0.1	0.1	0.3	0.1	-0.3	0.2	0.2	0.1	3.2	2.1	-0.3	0.8	1.1	-7.1	-4.8	-7.8	-9.8	-10.7	-9.1	-10.7	-11.0
JET_Flavor_Composition	-0.3	-1.8	0.2	0.2	0.8	0.5	100.0	1.3	0.8	-0.6	0.0	0.0	-0.3	0.1	-1.7	0.4	7.7	0.2	2.5	1.5	-27.5	6.2	-7.6	-13.0	-13.8	-14.0	-12.0	-11.7
JET_Flavor_Response	0.2	0.9	-0.1	-0.1	-0.3	-0.1	1.3	100.0	-0.5	0.2	-0.1	0.2	0.1	-0.1	0.8	-1.2	-4.7	0.0	-1.4	-1.3	9.1	-0.2	8.8	12.6	11.6	11.4	11.2	10.0
JET_Pileup_OffsetNPV	0.0	0.0	-0.0	-0.2	-0.1	0.1	0.8	-0.5	100.0	0.3	0.0	0.3	0.1	0.1	0.2	0.5	0.7	0.1	0.1	0.2	-7.0	-2.6	-5.8	-8.6	-9.7	-8.1	-9.3	-11.0
JET_Pileup_RhoTopology	-0.2	-0.8	0.1	-0.1	0.3	0.3	-0.6	0.2	0.3	100.0	0.1	0.0	-0.0	0.1	-0.7	1.1	5.1	0.2	1.5	1.2	-25.2	-5.4	-15.7	-20.4	-23.3	-23.2	-23.3	-26.2
Luminosity	-0.0	-0.1	0.0	-0.0	0.0	0.1	0.0	-0.1	0.0	0.1	100.0	0.0	0.0	0.0	-0.0	0.1	0.5	0.1	0.1	0.1	-13.3	-3.3	-6.7	-7.8	-10.1	-10.1	-11.0	-13.1
PileupRW	0.0	-0.1	0.1	0.0	-0.3	-0.3	0.0	0.2	0.3	0.0	0.0	100.0	0.2	0.2	-0.4	1.6	-1.9	0.0	0.4	0.8	17.6	-2.0	5.2	1.6	3.2	9.5	2.6	5.8
Photon_ID	-0.1	-0.1	0.0	0.0	0.2	0.2	-0.3	0.1	0.1	-0.0	0.0	0.2	100.0	-0.0	-0.2	0.2	1.0	0.0	0.1	0.0	-27.4	1.2	-4.8	-6.3	-9.6	-8.9	-8.2	-9.7
Photon_effIso	-0.0	-0.1	0.0	-0.0	0.1	0.2	0.1	-0.1	0.1	0.1	0.0	0.2	-0.0	100.0	-0.1	0.4	0.7	0.1	0.1	0.1	-26.5	-2.3	-8.4	-10.4	-13.9	-13.4	-13.9	-16.5
hfakeSF	0.0	-0.4	-0.0	0.0	0.1	0.1	-1.7	0.8	0.2	-0.7	-0.0	-0.4	-0.2	-0.1	100.0	-1.8	2.7	0.1	-0.1	-0.3	-9.1	4.0	-4.1	-10.3	-15.5	-17.5	-22.9	-39.6
tty_dec_Herwig7	0.1	-1.9	-0.1	-1.1	1.3	3.2	0.4	-1.2	0.5	1.1	0.1	1.6	0.2	0.4	-1.8	100.0	-7.3	4.4	4.5	3.4	22.8	33.2	26.7	19.7	14.9	11.1	8.8	7.3
tty_prod_Herwig7	0.0	-0.5	0.3	-0.5	0.0	2.1	7.7	-4.7	0.7	5.1	0.5	-1.9	1.0	0.7	2.7	-7.3	100.0	2.9	4.7	4.5	-4.8	9.9	-33.5	-15.2	-26.3	-28.3	-20.3	-24.3
uncalib_ljet	-0.1	-0.0	0.1	0.1	0.0	-0.3	0.2	0.0	0.1	0.2	0.1	0.0	0.0	0.1	0.1	4.4	2.9	100.0	0.4	0.4	-9.9	-8.3	-14.0	-13.4	-13.3	-9.0	-9.4	-11.4
Wty Norm	-0.2	-0.2	-0.0	-0.7	0.0	0.8	2.5	-1.4	0.1	1.5	0.1	0.4	0.1	0.1	-0.1	4.5	4.7	0.4	100.0	1.1	-35.9	-20.2	-27.2	-24.6	-23.0	-21.6	-20.0	-15.7
Zty Norm	-0.1	-0.4	-0.0	-0.5	0.4	1.1	1.5	-1.3	0.2	1.2	0.1	0.8	0.0	0.1	-0.3	3.4	4.5	0.4	1.1	100.0	-40.6	-0.6	-7.5	-13.5	-8.6	-12.7	-7.9	-10.3
Norm factor for tty dec	7.0	14.1	-12.7	-5.5	-5.3	-7.1	-27.5	9.1	-7.0	-25.2	-13.3	17.6	-27.4	-26.5	-9.1	22.8	-4.8	-9.9	-35.9	-40.6	100.0	2.7	25.5	33.6	35.1	34.6	30.8	33.5
tty_drph11 Unfolded Truth Bin 1	6.0	4.3	-3.1	-3.5	-5.9	-4.8	6.2	-0.2	-2.6	-5.4	-3.3	-2.0	1.2	-2.3	4.0	33.2	9.9	-8.3	-20.2	-0.6	2.7	100.0	25.9	25.4	20.0	17.3	17.6	17.5
tty_drph11 Unfolded Truth Bin 2	7.5	8.9	-6.6	-4.3	-8.9	-7.8	-7.6	8.8	-5.8	-15.7	-6.7	5.2	-4.8	-8.4	-4.1	26.7	-33.5	-14.0	-27.2	-7.5	25.5	25.9	100.0	35.9	38.6	36.9	34.0	36.9
tty_drph11 Unfolded Truth Bin 3	7.5	10.5	-7.4	-6.3	-10.2	-9.8	-13.0	12.6	-8.6	-20.4	-7.8	1.6	-6.3	-10.4	-10.3	19.7	-15.2	-13.4	-24.6	-13.5	33.6	25.4	35.9	100.0	36.6	36.4	34.4	38.8
tty_drph11 Unfolded Truth Bin 4	8.1	8.0	-9.4	-8.7	-12.0	-10.7	-13.8	11.6	-9.7	-23.3	-10.1	3.2	-9.6	-13.9	-15.5	14.9	-26.3	-13.3	-23.0	-8.6	35.1	20.0	38.6	36.6	100.0	39.1	38.2	43.4
tty_drph11 Unfolded Truth Bin 5	7.3	6.7	-9.5	-8.3	-11.5	-9.1	-14.0	11.4	-8.1	-23.2	-10.1	9.5	-8.9	-13.4	-17.5	11.1	-28.3	-9.0	-21.6	-12.7	34.6	17.3	36.9	36.4	39.1	100.0	36.6	44.1
tty_drph11 Unfolded Truth Bin 6	8.7	6.9	-10.2	-9.4	-13.1	-10.7	-12.0	11.2	-9.3	-23.3	-11.0	2.6	-8.2	-13.9	-22.9	8.8	-20.3	-9.4	-20.0	-7.9	30.8	17.6	34.0	34.4	38.2	36.6	100.0	44.5
tty_drph11 Unfolded Truth Bin 7	12.2	10.6	-12.2	-12.3	-13.8	-11.0	-11.7	10.0	-11.0	-26.2	-13.1	5.8	-9.7	-16.5	-39.6	7.3	-24.3	-11.4	-15.7	-10.3	33.5	17.5	36.9	38.8	43.4	44.1	44.5	100.0
BTag_B_0	100.0	0.3	-0.0	0.1	0.0	-0.1	-0.3	0.2	0.0	-0.2	-0.0	0.0	-0.1	-0.0	0.1	0.0	-0.1	-0.2	-0.1	7.0	6.0	7.5	7.5	8.1	7.3	8.7	12.2	
BTag_Light_0	0.3	100.0	0.0	0.2	0.1	-0.2	-1.8	0.9	0.0	-0.8	-0.1	-0.1	-0.1	-0.1	-0.4	-1.9	-0.5	-0.0	-0.2	-0.4	14.1	4.3	8.9	10.5	8.0	6.7	6.9	10.6
Electron_Iso_SF_0	-0.0	0.0	100.0	-0.1	0.0	0.1	0.2	-0.1	-0.0	0.1	0.0	0.1	0.0	0.0	-0.0	-0.1	0.3	0.1	-0.0	-0.0	-12.7	-3.1	-6.6	-7.4	-9.4	-9.5	-10.2	-12.2
JET_BJES_Response	0.1	0.2	-0.1	100.0	-0.1	0.0	0.2	-0.1	-0.2	-0.1	-0.0	0.0	0.0	-0.0	0.0	-1.1	-0.5	0.1	-0.7	-0.5	-5.5	-3.5	-4.3	-6.3	-8.7	-8.3	-9.4	-12.3
JET_EffectiveNP_Modelling1	0.0	0.1	0.0	-0.1	100.0	-0.0	0.8	-0.3	-0.1	0.3	0.0	-0.3	0.2	0.1	0.1	1.3	0.0	0.0	0.0	0.4	-5.3	-5.9	-8.9	-10.2	-12.0	-11.5	-13.1	-13.8
JET_EtaIntercalibration_Modelling	-0.1	-0.2	0.1	0.0	-0.0	100.0	0.5	-0.1	0.1	0.3	0.1	-0.3	0.2	0.2	0.1	3.2	2.1	-0.3	0.8	1.1	-7.1	-4.8	-7.8	-9.8	-10.7	-9.1	-10.7	-11.0
JET_Flavor_Composition	-0.3	-1.8	0.2	0.2	0.8	0.5	100.0	1.3	0.8	-0.6	0.0	0.0	-0.3	0.1	-1.7	0.4	7.7	0.2	2.5	1.5	-27.5	6.2	-7.6	-13.0	-13.8	-14.0	-12.0	-11.7
JET_Flavor_Response	0.2	0.9	-0.1	-0.1	-0.3	-0.1	1.3	100.0	-0.5	0.2	-0.1	0.2	0.1	-0.1	0.8	-1.2	-4.7	0.0	-1.4	-1.3	9.1	-0.2	8.8	12.6	11.6	11.4	11.2	10.0
JET_Pileup_OffsetNPV	0.0	0.0	-0.0	-0.2	-0.1	0.1	0.8	-0.5	100.0	0.3	0.0	0.3	0.1	0.1	0.2	0.5	0.7	0.1	0.1	0.2	-7.0	-2.6	-5.8	-8.6	-9.7	-8.1	-9.3	-11.0
JET_Pileup_RhoTopology	-0.2	-0.8	0.1	-0.1	0.3	0.3	-0.6	0.2	0.3	100.0	0.1	0.0	-0.0	0.1	-0.7	1.1	5.1	0.2	1.5	1.2	-25.2	-5.4	-15.7	-20.4	-23.3	-23.2	-23.3	-26.2
Luminosity	-0.0	-0.1	0.0	-0.0	0.0	0.1	0.0	-0.1	0.0	0.1	100.0	0.0	0.0	0.0	-0.0	0.1	0.5	0.1	0.1	0.1	-13.3	-3.3	-6.7	-7.8	-10.1	-10.1	-11.0	-13.1
PileupRW	0.0	-0.1	0.1	0.0	-0.3	-0.3	0.0	0.2	0.3	0.0	0.0	100.0	0.2	0.2	-0.4	1.6	-1.9	0.0	0.4	0.8	17.6	-2.0	5.2	1.6	3.2	9.5	2.6	5.8
Photon_ID	-0.1	-0.1	0.0	0.0	0.2	0.2	-0.3	0.1	0.1	-0.0	0.0	0.2	100.0	-0.0	-0.2	0.2	1.0	0.0	0.1	0.0	-27.4	1.2	-4.8	-6.3	-9.6	-8.9	-8.2	-9.7
Photon_effIso	-0.0	-0.1	0.0	-0.0	0.1	0.2	0.1	-0.1	0.1	0.1	0.0	0.2	-0.0	100.0	-0.1	0.4	0.7	0.1	0.1	0.1	-26.5	-2.3	-8.4	-10.4	-13.9	-13.4	-13.9	-16.5
hfakeSF	0.0	-0.4	-0.0	0.0	0.1	0.1	-1.7	0.8	0.2	-0.7	-0.0	-0.4	-0.2	-0.1	100.0	-1.8	2.7	0.1	-0.1	-0.3	-9.1	4.0	-4.1	-10.3	-15.5	-17.5	-22.9	-39.6
tty_dec_Herwig7	0.1	-1.9	-0.1	-1.1	1.3	3.2	0.4	-1.2	0.5	1.1	0.1	1.6	0.2	0.4	-1.8	100.0	-7.3	4.4	4.5	3.4	22.8	33.2	26.7	19.7	14.9	11.1	8.8	7.3
tty_prod_Herwig7	0.0	-0.5	0.3	-0.5	0.0	2.1	7.7	-4.7	0.7	5.1	0.5	-1.9	1.0	0.7	2.7	-7.3	100.0	2.9	4.7	4.5	-4.8	9.9	-33.5	-15.2	-26.3	-28.3	-20.3	-24.3
uncalib_ljet	-0.1	-0.0	0.1	0.1	0.0	-0.3	0.2	0.0	0.1	0.2	0.1	0.0	0.0	0.1	0.1	4.4	2.9	100.0	0.4	0.4	-9.9	-8.3	-14.0	-13.4	-13.3	-9.0	-9.4	-11.4
Wty Norm	-0.2	-0.2	-0.0	-0.7	0.0	0.8	2.5	-1.4	0.1	1.5	0.1	0.4	0.1	0.1	-0.1	4.5	4.7	0.4	100.0	1.1	-35.9	-20.2	-27.2	-24.6	-23.0	-21.6	-20.0	-15.7
Zty Norm	-0.1	-0.4	-0.0	-0.5	0.4	1.1	1.5	-1.3	0.2	1.2	0.1	0.8	0.0	0.1	-0.3	3.4	4.5	0.4	1.1	100.0	-40.6	-0.6	-7.5	-13.5	-8.6	-12.7	-7.9	-10.3
Norm factor for tty dec	7.0	14.1	-12.7	-5.5	-5.3	-7.1	-27.5	9.1	-7.0	-25.2	-13.3	17.6	-27.4	-26.5	-9.1	22.8	-4.8	-9.9	-35.9	-40.6	100.0	2.7	25.5	33.6	35.1	34.6	30.8	33.5
tty_drph11 Unfolded Truth Bin 1	6.0	4.3	-3.1	-3.5	-5.9	-4.8	6.2	-0.2	-2.6	-5.4	-3.3	-2.0	1.2	-2.3	4.0	33.2	9.9	-8.3	-20.2	-0.6	2.7	100.0	25.9	25.				