	BTag_Light_0	Electron_Iso_SF_0	JET_BJES_Response	JET_EffectiveNP_Modelling1	JET_EtaIntercalibration_Modelling	JET_Flavor_Composition	JET_Flavor_Response	JET_Pileup_RhoTopology	Luminosity	PileupRW	Photon_ID	Photon_effIso	hfakeSF	tty_dec_Herwig7	tty_prod_Herwig7	tty_prod_var3c	uncalib_ljet	Wtγ Norm	Zγ Norm	tty_dPhill Unfolded Truth Bin 1	tty_dPhill Unfolded Truth Bin 2	tty_dPhill Unfolded Truth Bin 3	tty_dPhill Unfolded Truth Bin 4	tty_dPhill Unfolded Truth Bin 5	tty_dPhill Unfolded Truth Bin 6	tty_dPhill Unfolded Truth Bin 7	tty_dPhill Unfolded Truth Bin 8	Norm factor for tty dec
BTag_Light_0	100.0	0.1	-0.2	0.1	0.1	-0.1	0.0	-0.8	0.2	-0.7	0.5	0.4	0.7	-1.4	0.7	-2.1	1.5	0.0	2.8	9.2	7.8	10.7	9.0	9.8	6.1	4.4	4.0	11.7
Electron_Iso_SF_0	0.1	100.0	0.0	0.0	0.0	-0.1	0.0	0.1	-0.0	0.1	-0.1	-0.1	-0.1	0.2	-0.4	0.4	-0.1	-0.1	-0.4	-8.3	-7.4	-8.2	-9.1	-8.8	-9.9	-9.4	-9.0	-11.4
JET_BJES_Response	-0.2	0.0	100.0	0.0	0.1	-0.1	0.0	-0.1	0.1	-0.1	0.1	0.1	0.3	-0.1	-0.1	-0.1	0.6	0.4	0.9	-7.2	-7.3	-8.6	-6.6	-9.2	-9.4	-10.0	-10.3	-5.6
JET_EffectiveNP_Modelling1	0.1	0.0	0.0	100.0	0.0	0.4	-0.1	0.4	0.0	0.1	-0.1	-0.0	0.0	0.5	-0.6	1.1	-0.2	0.9	0.0	-9.9	-10.2	-11.6	-9.9	-12.0	-12.8	-12.4	-12.1	-5.5
JET_EtaIntercalibration_Modelling	0.1	0.0	0.1	0.0	100.0	0.7	-0.2	0.6	-0.0	0.4	-0.1	-0.1	-0.1	0.6	-0.6	1.8	-0.6	0.9	-0.4	-9.1	-8.6	-9.2	-7.2	-9.2	-10.5	-9.7	-10.7	-7.6
JET_Flavor_Composition	-0.1	-0.1	-0.1	0.4	0.7	100.0	0.7	-0.8	-0.1	-1.5	-0.4	-0.2	-0.4	1.3	0.2	0.1	1.6	-2.7	0.4	-7.0	-7.9	-8.9	-9.3	-8.7	-7.6	-5.8	-7.8	-29.5
JET_Flavor_Response	0.0	0.0	0.0	-0.1	-0.2	0.7	100.0	0.4	0.0	0.4	0.2	0.1	0.4	-0.5	0.0	-1.0	-0.5	0.7	-0.2	8.0	8.1	9.8	8.7	10.3	9.6	8.1	8.9	9.6
JET_Pileup_RhoTopology	-0.8	0.1	-0.1	0.4	0.6	-0.8	0.4	100.0	0.1	-1.4	0.1	0.2	0.4	0.3	0.2	1.2	2.3	-0.7	3.4	-18.8	-17.6	-20.9	-19.6	-22.2	-22.2	-21.6	-22.2	-28.4
Luminosity	0.2	-0.0	0.1	0.0	-0.0	-0.1	0.0	0.1	100.0	0.1	-0.2	0.2	0.6	-0.3	-0.2	0.6	-0.3	-0.2	-0.7	-8.8	-8.7	-8.7	-9.1	-9.4	-10.2	-9.9	-9.8	-11.9
PileupRW	-0.7	0.1	-0.1	0.1	0.4	-1.5	0.4	-1.4	0.1	100.0	0.4	0.2	0.8	-0.6	1.8	-2.5	3.0	-1.8	2.8	6.9	2.8	-5.8	-3.0	5.3	5.9	11.0	0.7	14.7
Photon_ID	0.5	-0.1	0.1	-0.1	-0.1	-0.4	0.2	0.1	-0.2	0.4	100.0	0.0	-0.4	0.6	-0.2	0.6	-1.1	-0.9	-2.4	-6.5	-5.8	-6.1	-7.1	-6.5	-7.2	-7.0	-6.8	-23.4
Photon_effIso	0.4	-0.1	0.1	-0.0	-0.1	-0.2	0.1	0.2	0.2	0.2	0.0	100.0	-0.4	-0.2	-0.2	0.8	-0.8	-0.5	-1.7	-11.1	-10.6	-10.6	-12.3	-11.5	-12.8	-12.5	-12.7	-23.3
hfakeSF	0.7	-0.1	0.3	-0.1	-0.1	-0.4	0.4	-0.0	0.8	-0.5	-0.4	-0.4	100.0	0.6	-0.5	1.9	-1.4	-0.7	-2.7	-14.7	-17.1	-18.2	-21.0	-16.0	-19.3	-18.0	-17.8	-5.3
tty_dec_Herwig7	-1.4	0.2	-0.1	0.5	0.6	1.3	-0.5	0.3	-0.3	-0.6	0.6	-0.2	0.6	100.0	1.0	-0.5	1.7	2.0	5.1	15.6	14.0	10.2	8.9	8.0	12.4	15.0	17.9	27.4
tty_prod_Herwig7	0.7	-0.4	-0.1	-0.6	-0.6	0.2	0.0	0.2	-0.2	1.8	-0.2	-0.2	-0.5	1.0	100.0	-1.2	-1.1	-2.7	-3.6	-8.9	-23.6	-4.8	4.8	-12.0	-7.1	-22.7	-22.7	12.7
tty_prod_var3c	-2.1	0.4	-0.1	1.1	1.8	0.1	-1.0	1.2	0.6	-2.5	0.6	0.8	1.9	-0.5	-1.2	100.0	5.0	3.9	9.2	-19.3	-7.2	-0.7	-8.1	-7.0	-11.1	-1.7	-5.9	-3.9
uncalib_ljet	1.5	-0.1	0.6	-0.2	-0.6	1.6	-0.5	2.3	-0.3	3.0	-1.1	-0.8	-1.4	1.7	-1.1	5.0	100.0	0.3	-6.5	-25.3	-15.5	-14.7	-11.4	-10.7	-10.6	-2.3	-1.2	-8.0
Wtγ Norm	0.0	-0.1	0.4	0.9	0.9	-2.7	0.7	-0.7	-0.2	-1.8	-0.9	-0.5	-0.7	2.0	-2.7	3.9	0.3	100.0	-1.0	-13.7	-13.3	-14.6	-16.9	-17.4	-23.5	-26.4	-27.0	-39.0
Zγ Norm	2.8	-0.4	0.9	0.0	-0.4	0.4	-0.2	3.4	-0.7	2.8	-2.4	-1.7	-2.7	5.1	-3.6	9.2	-6.5	-1.0	100.0	-15.4	-15.0	-14.4	-8.4	-6.5	-3.0	-1.6	1.0	-36.6
tty_dPhill Unfolded Truth Bin 1	9.2	-8.3	-7.2	-9.9	-9.1	-7.0	8.0	-18.8	-8.8	6.9	-6.5	-11.1	-14.7	15.6	-8.9	-19.3	-25.3	-13.7	-15.4	100.0	34.7	32.3	29.5	31.4	32.7	31.3	31.1	35.4
tty_dPhill Unfolded Truth Bin 2	7.8	-7.4	-7.3	-10.2	-8.6	-7.9	8.1	-17.6	-8.7	2.8	-5.8	-10.6	-17.1	14.0	-23.6	-7.2	-15.5	-13.3	-15.0	34.7	100.0	31.9	27.4	32.1	31.9	34.7	34.2	30.3
tty_dPhill Unfolded Truth Bin 3	10.7	-8.2	-8.6	-11.6	-9.2	-8.9	9.8	-20.9	-8.7	-5.8	-6.1	-10.6	-18.2	10.2	-4.8	-0.7	-14.7	-14.6	-14.4	32.3	31.9	100.0	29.8	31.0	31.6	31.2	31.5	31.3
tty_dPhill Unfolded Truth Bin 4	9.0	-9.1	-6.6	-9.9	-7.2	-9.3	8.7	-19.6	-9.8	-3.0	-7.1	-12.3	-21.0	8.9	4.8	-8.1	-11.4	-16.9	-8.4	29.5	27.4	29.8	100.0	29.5	31.6	29.5	30.0	30.1
tty_dPhill Unfolded Truth Bin 5	9.8	-8.8	-9.2	-12.0	-9.2	-8.7	10.3	-22.2	-9.4	5.3	-6.5	-11.5	-16.0	8.0	-12.0	-7.0	-10.7	-17.4	-6.5	31.4	32.1	31.0	29.5	100.0	35.3	36.7	36.3	27.0
tty_dPhill Unfolded Truth Bin 6	6.1	-9.9	-9.4	-12.8	-10.5	-7.6	9.6	-22.2	-10.2	5.9	-7.2	-12.8	-19.3	12.4	-7.1	-11.1	-10.6	-23.5	-3.0	32.7	31.9	31.6	31.6	35.3	100.0	38.8	38.9	30.6
tty_dPhill Unfolded Truth Bin 7	4.4	-9.4	-10.0	-12.4	-9.7	-5.8	8.1	-21.6	-9.9	11.0	-7.0	-12.5	-18.0	15.0	-22.7	-1.7	-2.3	-26.4	-1.6	31.3	34.7	31.2	29.5	36.7	38.8	100.0	43.4	28.2
tty_dPhill Unfolded Truth Bin 8	4.0	-9.0	-10.3	-12.1	-10.7	-7.8	8.9	-22.2	-9.8	0.7	-6.8	-12.7	-17.8	17.9	-22.7	-5.9	-1.2	-27.0	1.0	31.1	34.2	31.5	30.0	36.3	38.9	43.4	100.0	26.9
Norm factor for tty dec	11.7	-11.4	-5.6	-5.5	-7.6	-29.5	9.6	-28.4	-11.9	14.7	-23.4	-23.3	-5.3	27.4	12.7	-3.9	-8.0	-39.0	-36.6	35.4	30.3	31.3	30.1	27.0	30.6	28.2	26.9	100.0