	BTag_B_0	JET_BJES_Response	JET_EffectiveNP_Modelling1	JET_Flavor_Composition	JET_Flavor_Response	JET_Pileup_OffsetNPV	JET_Pileup_RhoTopology	Photon_effIso	efakeSF_	hfakeSF_	lepfakeSF_	lepfakeSF_var1	lepfakeSF_var2	ttbar_Herwig7	ttbar_pt_hard	tty_dec_Herwig7	tty(dec) Norm	tty_dec_var3c	tty_prod_Herwig7	tty_prod_muF	tty_prod_var3c	highpt_uncalib_ljet	Wtγ Norm	Wγ Norm	Zγ Norm	tty_drphl Unfolded Truth Bin 1	tty_drphl Unfolded Truth Bin 2	tty_drphl Unfolded Truth Bin 3	tty_drphl Unfolded Truth Bin 4	tty_drphl Unfolded Truth Bin 5	tty_drphl Unfolded Truth Bin 6	tty_drphl Unfolded Truth Bin 7
BTag_B_0	100.0	0.8	-1.5	-3.7	3.9	-0.3	-1.9	2.1	0.7	3.5	-2.2	0.1	1.6	0.4	-1.4	-1.0	2.8	-1.4	0.9	1.4	-1.0	-1.9	-2.0	-7.9	-2.9	15.5	16.7	16.2	16.3	15.2	13.8	10.1
JET_BJES_Response	0.8	100.0	0.3	1.5	-1.4	-0.2	0.4	-0.7	-1.6	-0.4	0.5	-0.2	0.1	-0.1	-0.6	1.9	2.0	0.1	-0.2	-0.4	0.3	-0.5	0.9	1.6	1.8	-14.3	-15.1	-13.9	-13.2	-12.3	-11.9	-10.3
JET_EffectiveNP_Modelling1	-1.5	0.3	100.0	-2.6	2.7	-0.6	-1.8	0.1	-1.3	-5.5	-2.6	1.1	1.0	0.9	-0.4	1.0	5.6	-1.3	-1.1	0.9	0.7	-2.4	-2.0	-8.0	-4.1	-16.3	-16.0	-14.4	-13.7	-14.6	-13.9	-12.5
JET_Flavor_Composition	-3.7	1.5	-2.6	100.0	7.0	-0.2	-5.2	3.1	-0.9	-10.5	-4.3	3.1	1.2	-1.7	-3.0	-1.4	-3.1	-4.0	2.5	0.3	2.3	-0.5	-2.7	-15.5	-9.2	-31.9	-34.4	-33.9	-33.8	-36.1	-34.2	-27.9
JET_Flavor_Response	3.9	-1.4	2.7	7.0	100.0	0.8	5.2	-1.8	0.2	5.7	3.4	-0.2	-1.9	0.1	-2.2	2.5	-1.5	2.6	-0.4	-1.5	-2.4	3.2	4.9	16.0	8.2	12.4	11.5	9.6	9.0	10.0	9.4	8.7
JET_Pileup_OffsetNPV	-0.3	-0.2	-0.6	-0.2	0.8	100.0	-1.0	-1.1	-2.6	-0.8	-0.6	-0.2	0.8	0.4	0.3	2.0	3.6	-0.4	-0.3	0.1	1.0	-5.9	-1.7	-4.8	-2.7	-12.0	-13.9	-14.9	-14.6	-16.0	-15.6	-14.2
JET_Pileup_RhoTopology	-1.9	0.4	-1.8	-5.2	5.2	-1.0	100.0	0.3	-2.4	-6.6	-1.8	1.3	0.2	-2.1	-0.4	-1.8	-3.4	-3.2	2.7	-0.8	4.1	-2.3	-3.8	-13.2	-8.5	-36.5	-39.8	-38.6	-37.2	-39.2	-36.8	-29.8
Photon_effIso	2.1	-0.7	0.1	3.1	-1.8	-1.1	0.3	100.0	-2.3	-0.9	1.6	-1.1	-1.3	0.6	3.6	1.5	-6.1	0.7	0.6	-1.1	4.7	-2.9	-0.8	0.5	-2.3	-17.7	-19.1	-18.2	-17.3	-16.9	-15.9	-11.6
efakeSF_	0.7	-1.6	-1.3	-0.9	0.2	-2.6	-2.4	-2.3	100.0	-38.4	-0.4	0.0	-3.8	4.1	6.0	18.4	0.7	-3.4	-18.2	0.7	3.0	-12.0	0.2	1.0	-0.8	5.0	0.7	-4.2	-5.1	-5.2	-3.0	2.5
hfakeSF_	3.5	-0.4	-5.5	-10.5	5.7	-0.8	-6.6	-0.9	-38.4	100.0	-7.6	11.5	-9.6	2.8	10.1	20.5	-3.4	-10.8	-33.5	-2.0	15.9	2.1	6.5	-0.3	-5.8	10.6	-1.3	-15.9	-24.7	-23.6	-32.1	-38.1
lepfakeSF_	-2.2	0.5	-2.6	-4.3	3.4	-0.6	-1.8	1.6	-0.4	-7.6	100.0	16.0	-0.7	1.9	-0.6	1.1	16.8	-1.4	-0.5	1.2	-0.1	1.3	0.2	-6.9	-2.6	-5.1	-1.3	0.3	0.6	1.2	0.1	-3.7
lepfakeSF_var1	0.1	-0.2	1.1	3.1	-0.2	-0.2	1.3	-1.1	0.0	11.5	16.0	100.0	-2.0	0.3	3.8	-0.7	-22.4	1.9	-6.0	1.2	-1.4	-4.8	-1.8	1.8	1.3	10.0	0.6	-0.3	-2.8	-2.5	-9.0	-7.1
lepfakeSF_var2	1.6	0.1	1.0	1.2	-1.9	0.8	0.2	-1.3	-3.8	-9.6	-0.7	-2.0	100.0	-2.1	0.2	-0.1	-14.7	-0.3	-1.9	-1.9	0.1	-0.5	-0.5	2.1	-0.5	10.0	10.8	12.3	13.7	12.2	16.8	18.3
ttbar_Herwig7	0.4	-0.1	0.9	-1.7	0.1	0.4	-2.1	0.6	4.1	2.8	1.9	0.3	-2.1	100.0	-2.6	-6.5	-15.7	-1.1	5.6	-2.7	1.0	1.0	-2.6	-2.2	-0.7	14.7	9.0	4.5	2.4	2.2	2.5	7.0
ttbar_pt_hard	-1.4	-0.6	-0.4	-3.0	-2.2	0.3	-0.4	3.6	6.0	10.1	-0.6	3.8	0.2	-2.6	100.0	-2.3	-16.0	-2.4	13.3	-1.9	-2.5	4.4	-1.0	-2.2	0.5	5.0	1.1	0.5	1.3	2.4	2.8	6.9
tty_dec_Herwig7	-1.0	1.9	1.0	-1.4	2.5	2.0	-1.8	1.5	18.4	20.5	1.1	-0.7	-0.1	-6.5	-2.3	100.0	26.1	1.1	1.5	-1.7	-2.9	-1.8	-4.5	-10.0	-6.3	-1.6	-12.5	-23.7	-27.3	-29.4	-28.8	-33.7
tty(dec) Norm	2.8	2.0	5.6	-3.1	-1.5	3.6	-3.4	-6.1	0.7	-3.4	16.8	-22.4	-14.7	-15.7	-16.0	26.1	100.0	-8.7	-8.2	-20.0	38.5	23.7	-6.0	-8.9	-4.0	-54.9	-42.0	-35.5	-30.4	-28.4	-27.1	-51.7
tty_dec_var3c	-1.4	0.1	-1.3	-4.0	2.6	-0.4	-3.2	0.7	-3.4	-10.8	-1.4	1.9	-0.3	-1.1	-2.4	1.1	-8.7	100.0	5.6	-1.0	2.9	0.5	-0.6	-5.6	-3.7	12.6	15.0	16.8	18.2	19.1	19.1	20.2
tty_prod_Herwig7	0.9	-0.2	-1.1	2.5	-0.4	-0.3	2.7	0.6	-18.2	-33.5	-0.5	-6.0	-1.9	5.6	13.3	1.5	-8.2	5.6	100.0	2.8	-21.4	-18.4	-2.8	0.9	5.7	11.0	11.6	19.2	25.4	22.8	24.5	28.5
tty_prod_muF	1.4	-0.4	0.9	0.3	-1.5	0.3	-0.8	-1.1	0.7	-2.0	1.2	1.2	-1.9	-2.7	-1.9	-1.7	-20.0	-1.0	2.8	100.0	1.0	2.8	0.2	0.8	-0.8	12.5	8.4	7.5	4.9	6.8	5.0	11.5
tty_prod_var3c	-1.0	0.3	0.7	2.3	-2.4	1.0	4.1	4.7	3.0	15.9	-0.1	-1.4	0.1	1.0	-2.5	-2.9	38.5	2.9	-21.4	1.0	100.0	-11.9	0.2	1.0	4.5	-32.5	-27.6	-28.3	-28.2	-20.9	-23.6	-34.7
highpt_uncalib_ljet	-1.9	-0.5	-2.4	-0.5	3.2	-5.9	-2.3	-2.9	-12.0	2.1	1.3	-4.8	-0.5	4.4	-1.8	23.7	0.5	-18.4	2.8	-11.9	100.0	-13.7	-28.9	-9.6	-12.9	-8.1	-4.5	-2.5	-2.7	-0.0	-8.2
Wtγ Norm	-2.0	0.9	-2.0	-2.7	4.9	-1.7	-3.8	-0.8	0.2	6.5	0.2	-1.8	-0.5	-2.6	0.5	-4.5	-6.0	-0.6	0.9	0.2	0.2	-13.7	100.0	-17.9	-10.6	22.8	25.0	23.4	22.8	24.5	23.3	23.5
Wγ Norm	-7.9	1.6	-8.0	-15.5	16.0	-4.8	-13.2	0.5	1.0	-0.3	-6.9	1.8	2.1	-2.2	-2.2	-10.0	-8.9	-5.6	0.9	0.8	1.0	-28.9	-17.9	100.0	-26.6	22.8	25.0	23.4	22.8	24.5	23.3	23.5
Zγ Norm	-2.9	1.8	-4.1	-9.2	8.2	-2.7	-8.5	-2.3	-0.8	-5.8	-2.6	1.3	-0.5	-0.7	0.5	-6.3	-4.0	-3.7	5.7	-0.8	4.5	-9.6	-10.6	-26.6	100.0	14.6	14.2	18.0	16.1	17.7	18.3	17.3
tty_drphl Unfolded Truth Bin 1	15.5	-14.3	-16.3	-31.9	12.4	-12.0	-36.5	-17.7	5.0	10.6	-5.1	10.0	10.0	14.7	5.0	-1.6	-54.9	12.6	11.0	12.5	-32.5	-12.9	-12.4	22.8	14.6	100.0	89.2	81.7	75.9	75.0	71.7	76.2
tty_drphl Unfolded Truth Bin 2	16.7	-15.1	-16.0	-34.4	11.5	-13.9	-39.8	-19.1	0.7	-1.3	-1.3	0.6	10.8	9.0	1.1	-12.5	-42.0	15.0	11.6	8.4	-27.6	-8.1	-13.1	25.0	14.2	89.2	100.0	86.6	83.4	83.2	81.0	81.8
tty_drphl Unfolded Truth Bin 3	16.2	-13.9	-14.4	-33.9	9.6	-14.9	-38.6	-18.2	-4.2	-15.9	0.3	-0.3	12.3	4.5	0.5	-23.7	-35.5	16.8	19.2	7.5	-28.3	-4.5	-12.4	23.4	18.0	81.7	86.6	100.0	87.8	88.1	87.1	86.4
tty_drphl Unfolded Truth Bin 4	16.3	-13.2	-13.7	-33.8	9.0	-14.6	-37.2	-17.3	-5.1	-24.7	0.6	-2.8	13.7	2.4	1.3	-27.3	-30.4	18.2	25.4	4.9	-28.2	-2.5	-11.2	22.8	16.1	75.9	83.4	87.8	100.0	88.9	88.9	87.5
tty_drphl Unfolded Truth Bin 5	15.2	-12.3	-14.6	-36.1	10.0	-16.0	-39.2	-16.9	-5.2	-23.6	1.2	-2.5	12.2	2.2	2.4	-29.4	-28.4	19.1	22.8	6.8	-20.9	-2.7	-9.1	24.5	17.7	75.0	83.2	88.1	88.9	100.0	89.6	87.5
tty_drphl Unfolded Truth Bin 6	13.8	-11.9	-13.9	-34.2	9.4	-15.6	-36.8	-15.9	-3.0	-32.1	0.1	-9.0	16.8	2.5	2.8	-28.8	-27.1	19.1	24.5	5.0	-23.6	-0.0	-10.9	23.3	18.3	71.7	81.0	87.1	88.9	89.6	100.0	89.2
tty_drphl Unfolded Truth Bin 7	10.1	-10.3	-12.5	-27.9	8.7	-14.2	-29.8	-11.6	2.5	-38.1	-3.7	-7.1	18.3	7.0	6.9	-33.7	-51.7	20.2	28.5	11.5	-34.7	-8.2	-6.6	23.5	17.3	76.2	81.8	86.4	87.5	87.5	89.2	100.0