	EG_SCALE_ALL	JET_Flavor_Composition	JET_Pileup_RhoTopology	efakeSF_	hfakeSF_	lepfakeSF_	ttbar_pt_hard	tty_dec_Herwig7	tty(dec) Norm	tty_prod_Herwig7	tty_prod_muF	tty_prod_muR	tty_prod_var3c	highpt_uncalib_bjet	highpt_uncalib_cjet	highpt_uncalib_ljet	Wγ Norm	Zγ Norm	tty_pt Unfolded Truth Bin 1	tty_pt Unfolded Truth Bin 2	tty_pt Unfolded Truth Bin 3	tty_pt Unfolded Truth Bin 4	tty_pt Unfolded Truth Bin 5	tty_pt Unfolded Truth Bin 6
EG_SCALE_ALL	100.0	0.6	0.2	-0.4	0.3	-0.9	1.8	3.7	-3.4	1.3	-0.2	-0.1	0.0	-0.6	-0.9	-4.2	-1.6	-0.6	2.5	1.0	-0.2	-3.1	-9.5	-18.1
JET_Flavor_Composition	0.6	100.0	-5.8	-2.4	-6.0	1.5	-1.5	-6.1	7.3	-1.1	1.5	-1.0	-0.8	0.6	-1.1	0.9	-7.9	-7.6	-27.7	-28.2	-28.8	-29.2	-27.3	-20.1
JET_Pileup_RhoTopology	0.2	-5.8	100.0	-0.2	-3.4	2.3	1.2	-2.1	5.1	-4.2	3.6	-1.8	-0.6	-0.6	-1.5	-3.3	-6.6	-4.5	-30.1	-31.2	-32.1	-33.0	-29.2	-21.2
efakeSF_	-0.4	-2.4	-0.2	100.0	-46.8	-5.3	10.1	9.5	1.4	-15.4	-0.1	6.8	5.9	3.3	2.4	-4.0	-1.2	-8.0	3.6	-1.4	1.5	-2.4	-0.0	5.6
hfakeSF_	0.3	-6.0	-3.4	-46.8	100.0	-7.9	11.7	5.4	4.9	-20.9	-6.9	11.2	4.3	5.7	3.8	-3.4	-1.5	-5.9	-12.5	-5.5	-13.6	-7.5	-0.9	-3.6
lepfakeSF_	-0.9	1.5	2.3	-5.3	-7.9	100.0	-1.0	-3.5	16.0	9.8	-2.5	2.1	-2.7	-0.9	-1.5	-8.3	-10.7	-3.1	-7.2	-5.0	-1.1	-7.0	-5.8	5.6
ttbar_pt_hard	1.8	-1.5	1.2	10.1	11.7	-1.0	100.0	-13.8	-15.0	-0.9	-5.1	-1.4	2.4	1.2	2.0	14.0	-8.7	-2.3	2.5	3.0	1.3	-1.7	-5.4	-10.0
tty_dec_Herwig7	3.7	-6.1	-2.1	9.5	5.4	-3.5	-13.8	100.0	38.6	2.6	-9.0	1.9	-9.5	0.4	3.3	11.7	-3.5	-2.9	-18.1	-19.5	-19.3	-11.7	-7.1	-5.0
tty(dec) Norm	-3.4	7.3	5.1	1.4	4.9	16.0	-15.0	38.6	100.0	13.6	-16.1	-2.6	40.4	2.4	4.4	9.1	-9.0	-5.4	-66.1	-64.1	-59.7	-48.2	-20.3	-11.1
tty_prod_Herwig7	1.3	-1.1	-4.2	-15.4	-20.9	9.8	-0.9	2.6	13.6	100.0	8.8	0.6	-3.4	-2.9	-3.0	-23.9	1.8	4.5	3.9	3.6	4.6	7.8	10.9	18.1
tty_prod_muF	-0.2	1.5	3.6	-0.1	-6.9	-2.5	-5.1	-9.0	-16.1	8.8	100.0	36.7	4.7	7.8	5.7	5.8	-3.8	-0.1	11.5	9.4	8.7	4.9	-0.1	-5.4
tty_prod_muR	-0.1	-1.0	-1.8	6.8	11.2	2.1	-1.4	1.9	-2.6	0.6	36.7	100.0	-1.7	-2.8	-1.7	6.6	-0.6	-0.1	-4.6	-4.8	-7.0	-8.9	-10.1	-11.3
tty_prod_var3c	0.0	-0.8	-0.6	5.9	4.3	-2.7	2.4	-9.5	40.4	-3.4	4.7	-1.7	100.0	1.6	0.1	4.2	6.1	-1.6	-25.2	-24.0	-20.2	-18.1	2.6	-2.6
highpt_uncalib_bjet	-0.6	0.6	-0.6	3.3	5.7	-0.9	1.2	0.4	2.4	-2.9	7.8	-2.8	1.6	100.0	-5.3	-24.7	-5.0	1.2	-1.3	-0.7	-0.9	0.0	1.9	-0.2
highpt_uncalib_cjet	-0.9	-1.1	-1.5	2.4	3.8	-1.5	2.0	3.3	4.4	-3.0	5.7	-1.7	0.1	-5.3	100.0	-25.8	-6.6	-0.7	-2.7	-2.8	-3.1	-3.2	-3.1	-7.9
highpt_uncalib_ljet	-4.2	0.9	-3.3	-4.0	-3.4	-8.3	14.0	11.7	9.1	-23.9	5.8	6.6	4.2	-24.7	-25.8	100.0	-26.0	-1.5	3.2	2.2	2.8	1.6	-2.2	-16.8
Wγ Norm	-1.6	-7.9	-6.6	-1.2	-1.5	-10.7	-8.7	-3.5	-9.0	1.8	-3.8	-0.6	6.1	-5.0	-6.6	-26.0	100.0	-16.2	13.5	12.6	11.6	13.0	13.1	15.2
Zγ Norm	-0.6	-7.6	-4.5	-8.0	-5.9	-3.1	-2.3	-2.9	-5.4	4.5	-0.1	-0.1	-1.6	1.2	-0.7	-1.5	-16.2	100.0	9.7	8.0	12.1	14.4	15.2	12.8
tty_pt Unfolded Truth Bin 1	2.5	-27.7	-30.1	3.6	-12.5	-7.2	2.5	-18.1	-66.1	3.9	11.5	-4.6	-25.2	-1.3	-2.7	3.2	13.5	9.7	100.0	96.8	95.3	92.2	73.3	62.1
tty_pt Unfolded Truth Bin 2	1.0	-28.2	-31.2	-1.4	-5.5	-5.0	3.0	-19.5	-64.1	3.6	9.4	-4.8	-24.0	-0.7	-2.8	2.2	12.6	8.0	96.8	100.0	95.4	93.4	76.1	65.2
tty_pt Unfolded Truth Bin 3	-0.2	-28.8	-32.1	1.5	-13.6	-1.1	1.3	-19.3	-59.7	4.6	8.7	-7.0	-20.2	-0.9	-3.1	2.8	11.6	12.1	95.3	95.4	100.0	93.3	77.5	66.7
tty_pt Unfolded Truth Bin 4	-3.1	-29.2	-33.0	-2.4	-7.5	-7.0	-1.7	-11.7	-48.2	7.8	4.9	-8.9	-18.1	0.0	-3.2	1.6	13.0	14.4	92.2	93.4	93.3	100.0	83.1	73.6
tty_pt Unfolded Truth Bin 5	-9.5	-27.3	-29.2	-0.0	-0.9	-5.8	-5.4	-7.1	-20.3	10.9	-0.1	-10.1	2.6	1.9	-3.1	-2.2	13.1	15.2	73.3	76.1	77.5	83.1	100.0	77.0
tty_pt Unfolded Truth Bin 6	-18.1	-20.1	-21.2	5.6	-3.6	5.6	-10.0	-5.0	-11.1	18.1	-5.4	-11.3	-2.6	-0.2	-7.9	-16.8	15.2	12.8	62.1	65.2	66.7	73.6	77.0	100.0