	JET_Flavor_Composition	JET_Pileup_RhoTopology	efakeSF_	hfakeSF_	lepfakeSF_	ttbar_pt_hard	tty_dec_Herwig7	tty_dec_fsr	tty(dec) Norm	tty_dec_var3c	tty_prod_Herwig7	tty_prod_muR	tty_prod_var3c	highpt_uncalib_bjet	highpt_uncalib_cjet	highpt_uncalib_ljet	Wtγ Norm	Wγ Norm	Zγ Norm	tty_ptj1 Unfolded Truth Bin 1	tty_ptj1 Unfolded Truth Bin 2	tty_ptj1 Unfolded Truth Bin 3	tty_ptj1 Unfolded Truth Bin 4	tty_ptj1 Unfolded Truth Bin 5
JET_Flavor_Composition	100.0	-5.4	-2.8	-5.7	-3.3	0.9	-0.3	0.5	1.1	-2.5	1.0	-0.6	-0.8	-1.5	-3.1	-0.7	-4.3	-15.0	-8.7	-23.0	-30.7	-26.3	-14.7	-2.0
JET_Pileup_RhoTopology	-5.4	100.0	-4.9	-6.5	-2.2	1.5	0.9	0.2	-0.7	-2.3	1.8	-0.0	-0.1	0.5	0.6	7.8	-2.4	-9.4	-6.5	-28.1	-33.1	-29.1	-15.7	-13.0
efakeSF_	-2.8	-4.9	100.0	-49.5	-1.7	15.3	8.0	-1.2	9.1	-2.8	-17.9	9.2	2.1	0.0	5.0	1.7	1.4	-0.5	-3.0	-1.5	2.2	2.5	-0.1	-4.9
hfakeSF_	-5.7	-6.5	-49.5	100.0	-0.1	15.0	6.6	0.9	9.5	-4.3	-27.7	9.0	1.9	-0.1	2.9	8.6	-1.5	-3.3	-8.1	-15.9	-13.6	-9.8	-0.1	-11.9
lepfakeSF_	-3.3	-2.2	-1.7	-0.1	100.0	1.2	3.0	0.7	22.9	1.1	-11.7	0.7	4.2	2.1	2.3	-8.6	-6.3	-13.0	-2.3	-4.2	-4.7	-0.3	-4.7	6.1
ttbar_pt_hard	0.9	1.5	15.3	15.0	1.2	100.0	-15.6	-0.1	-20.6	0.0	1.6	-1.7	2.4	0.8	-1.9	0.5	-3.9	-4.5	-1.3	-0.8	0.4	2.6	4.8	2.9
tty_dec_Herwig7	-0.3	0.9	8.0	6.6	3.0	-15.6	100.0	-13.5	42.7	16.5	-44.6	5.9	-11.0	-18.9	5.0	38.4	6.0	-8.9	-2.4	-28.3	-24.8	-23.6	-2.3	-45.3
tty_dec_fsr	0.5	0.2	-1.2	0.9	0.7	-0.1	-13.5	100.0	-29.7	0.2	7.7	4.0	4.7	-6.7	0.1	2.3	2.0	-1.6	0.5	15.6	11.7	5.7	4.5	2.5
tty(dec) Norm	1.1	-0.7	9.1	9.5	22.9	-20.6	42.7	-29.7	100.0	-12.2	-34.6	15.2	40.9	-5.0	1.4	8.8	4.0	1.3	-7.4	-48.6	-48.7	-42.0	-24.4	-21.4
tty_dec_var3c	-2.5	-2.3	-2.8	-4.3	1.1	0.0	16.5	0.2	-12.2	100.0	1.6	0.2	0.5	1.3	1.2	4.3	-1.7	-1.9	-3.5	12.5	12.4	12.1	11.1	-1.5
tty_prod_Herwig7	1.0	1.8	-17.9	-27.7	-11.7	1.6	-44.6	7.7	-34.6	1.6	100.0	1.7	7.7	7.2	-4.4	-16.3	-2.7	1.4	1.2	29.1	25.7	24.1	8.0	25.4
tty_prod_muR	-0.6	-0.0	9.2	9.0	0.7	-1.7	5.9	4.0	15.2	0.2	1.7	100.0	-4.3	1.6	-0.0	2.1	-1.0	1.6	-0.3	-13.4	-16.6	-16.1	-14.6	-9.1
tty_prod_var3c	-0.8	-0.1	2.1	1.9	4.2	2.4	-11.0	4.7	40.9	0.5	7.7	-4.3	100.0	-0.8	0.5	-1.1	1.2	3.1	0.4	-19.5	-19.7	-17.4	-11.9	-4.4
highpt_uncalib_bjet	-1.5	0.5	0.0	-0.1	2.1	0.8	-18.9	-6.7	-5.0	1.3	7.2	1.6	-0.8	100.0	-4.5	-19.0	1.7	-6.2	-0.1	7.5	6.4	6.5	6.4	2.8
highpt_uncalib_cjet	-3.1	0.6	5.0	2.9	2.3	-1.9	5.0	0.1	1.4	1.2	-4.4	-0.0	0.5	-4.5	100.0	-22.3	-2.3	-14.0	-3.9	6.2	5.0	11.7	-28.5	-24.5
highpt_uncalib_ljet	-0.7	7.8	1.7	8.6	-8.6	0.5	38.4	2.3	8.8	4.3	-16.3	2.1	-1.1	-19.0	-22.3	100.0	-2.3	-20.0	1.8	6.8	5.7	4.5	48.5	-78.1
Wtγ Norm	-4.3	-2.4	1.4	-1.5	-6.3	-3.9	6.0	2.0	4.0	-1.7	-2.7	-1.0	1.2	1.7	-2.3	-2.3	100.0	-10.5	-7.4	-14.6	-15.7	-18.3	-15.1	-2.2
Wγ Norm	-15.0	-9.4	-0.5	-3.3	-13.0	-4.5	-8.9	-1.6	1.3	-1.9	1.4	1.6	3.1	-6.2	-14.0	-20.0	-10.5	100.0	-17.4	12.3	20.5	19.7	10.5	30.4
Zγ Norm	-8.7	-6.5	-3.0	-8.1	-2.3	-1.3	-2.4	0.5	-7.4	-3.5	1.2	-0.3	0.4	-0.1	-3.9	1.8	-7.4	-17.4	100.0	6.5	14.3	14.0	9.5	6.4
tty_ptj1 Unfolded Truth Bin 1	-23.0	-28.1	-1.5	-15.9	-4.2	-0.8	-28.3	15.6	-48.6	12.5	29.1	-13.4	-19.5	7.5	6.2	6.8	-14.6	12.3	6.5	100.0	89.9	85.3	67.1	19.5
tty_ptj1 Unfolded Truth Bin 2	-30.7	-33.1	2.2	-13.6	-4.7	0.4	-24.8	11.7	-48.7	12.4	25.7	-16.6	-19.7	6.4	5.0	5.7	-15.7	20.5	14.3	89.9	100.0	92.0	74.1	23.5
tty_ptj1 Unfolded Truth Bin 3	-26.3	-29.1	2.5	-9.8	-0.3	2.6	-23.6	5.7	-42.0	12.1	24.1	-16.1	-17.4	6.5	11.7	4.5	-18.3	19.7	14.0	85.3	92.0	100.0	70.3	22.0
tty_ptj1 Unfolded Truth Bin 4	-14.7	-15.7	-0.1	-0.1	-4.7	4.8	-2.3	4.5	-24.4	11.1	8.0	-14.6	-11.9	6.4	-28.5	48.5	-15.1	10.5	9.5	67.1	74.1	70.3	100.0	-5.0
tty_ptj1 Unfolded Truth Bin 5	-2.0	-13.0	-4.9	-11.9	6.1	2.9	-45.3	2.5	-21.4	-1.5	25.4	-9.1	-4.4	2.8	-24.5	-78.1	-2.2	30.4	6.4	19.5	23.5	22.0	-5.0	100.0