	EG_SCALE_ALL	JET_EffectiveNP_Modelling1	JET_Flavor_Composition	JET_Pileup_OffsetNPV	JET_Pileup_RhoTopology	Photon_ID	efakeSF_	hfakeSF_	ttbar Norm	ttbar_pt_hard	tty_dec_Herwig7	tty_dec_fsr	tty_prod_Herwig7	tty_prod_muR	tty_prod_var3c	highpt_uncalib_bjet	highpt_uncalib_cjet	highpt_uncalib_ljet	Wγ Norm	Zγ Norm	Norm factor for tty dec	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	0.1	0.5	0.1	0.2	0.5	-1.0	0.8	-0.4	2.1	7.8	-0.3	1.5	-1.3	0.7	-0.7	-1.1	-4.5	-1.7	-0.6	-1.3	4.3	4.7	1.9	-1.7	-7.8	-17.3
JET_EffectiveNP_Modelling1	0.1	100.0	-1.8	-0.7	-1.5	-0.3	-1.6	-2.6	0.0	-1.0	-1.4	-0.1	-3.2	0.4	0.2	-0.3	-0.5	-2.9	-3.9	-2.5	-4.2	-16.1	-16.1	-15.3	-14.2	-11.1	-7.6
JET_Flavor_Composition	0.5	-1.8	100.0	-1.8	-3.9	-0.9	-1.9	-5.0	-0.7	-3.9	-6.8	-1.1	-0.5	1.9	0.5	1.2	0.2	2.0	-9.3	-7.6	-20.8	-29.3	-31.9	-32.7	-32.5	-30.2	-22.7
JET_Pileup_OffsetNPV	0.1	-0.7	-1.8	100.0	-0.7	0.1	-2.8	-0.4	0.1	-1.0	-0.3	-0.3	-3.5	0.8	0.9	-0.0	0.0	-0.3	-0.7	-1.3	-2.1	-17.5	-18.0	-17.8	-16.0	-13.3	-10.9
JET_Pileup_RhoTopology	0.2	-1.5	-3.9	-0.7	100.0	-0.1	0.3	-2.6	-0.5	-1.1	-2.7	-0.3	-4.5	-0.7	-0.1	-0.3	-0.7	-2.3	-7.9	-4.5	-25.0	-30.9	-33.4	-34.3	-34.5	-30.8	-23.5
Photon_ID	0.5	-0.3	-0.9	0.1	-0.1	100.0	-1.0	-3.5	-0.4	-0.9	-6.6	0.7	0.6	5.7	-0.7	1.1	0.6	0.1	-1.5	-1.3	-11.9	-19.2	-6.7	-4.0	-3.9	-3.3	-4.7
efakeSF_	-1.0	-1.6	-1.9	-2.8	0.3	-1.0	100.0	-47.4	-2.3	8.6	17.3	2.7	-14.9	6.3	6.3	3.3	2.4	-1.7	-2.2	-7.3	10.4	2.5	-3.9	6.8	2.2	3.0	5.6
hfakeSF_	0.8	-2.6	-5.0	-0.4	-2.6	-3.5	-47.4	100.0	-5.7	10.5	3.2	1.0	-20.8	17.6	4.9	6.4	4.2	-1.5	-2.2	-6.4	-5.0	-14.6	1.5	-15.3	-5.9	-1.2	-5.7
ttbar Norm	-0.4	0.0	-0.7	0.1	-0.5	-0.4	-2.3	-5.7	100.0	5.0	2.8	-0.1	0.8	5.3	-0.5	1.3	0.7	-0.7	1.4	0.0	3.4	-15.6	-0.2	3.6	3.9	2.9	2.4
ttbar_pt_hard	2.1	-1.0	-3.9	-1.0	-1.1	-0.9	8.6	10.5	5.0	100.0	-19.2	1.1	-1.4	-5.2	0.2	0.2	0.7	11.8	-6.2	-2.6	-23.9	18.1	12.4	4.0	-3.1	-5.0	-6.7
tty_dec_Herwig7	7.8	-1.4	-6.8	-0.3	-2.7	-6.6	17.3	3.2	2.8	-19.2	100.0	3.9	-4.6	16.2	-11.7	2.6	3.8	11.9	-1.2	-2.3	50.5	-15.4	5.7	21.0	29.5	13.5	-1.9
tty_dec_fsr	-0.3	-0.1	-1.1	-0.3	-0.3	0.7	2.7	1.0	-0.1	1.1	3.9	100.0	-0.1	-2.6	1.1	0.3	-0.5	1.5	0.4	1.1	-18.8	1.3	-1.6	-2.9	-0.7	-0.2	0.2
tty_prod_Herwig7	1.5	-3.2	-0.5	-3.5	-4.5	0.6	-14.9	-20.8	0.8	-1.4	-4.6	-0.1	100.0	-0.8	0.6	-3.5	-2.9	-24.2	1.3	4.0	12.5	3.0	2.7	4.6	4.9	10.7	17.3
tty_prod_muR	-1.3	0.4	1.9	0.8	-0.7	5.7	6.3	17.6	5.3	-5.2	16.2	-2.6	-0.8	100.0	-1.2	-4.4	-2.6	6.0	-2.7	-0.3	1.2	-23.1	-12.8	-13.4	-11.8	-11.8	-13.4
tty_prod_var3c	0.7	0.2	0.5	0.9	-0.1	-0.7	6.3	4.9	-0.5	0.2	-11.7	1.1	0.6	-1.2	100.0	1.5	1.2	5.9	4.5	-2.6	9.1	-19.0	-20.8	-17.5	-20.0	3.5	-3.9
highpt_uncalib_bjet	-0.7	-0.3	1.2	-0.0	-0.3	1.1	3.3	6.4	0.1	0.2	2.6	0.3	-3.5	-4.4	1.5	100.0	-5.4	-25.1	-5.2	1.0	3.4	-6.2	-3.7	-3.4	-1.1	1.2	-0.8
highpt_uncalib_cjet	-1.1	-0.5	0.2	0.0	-0.7	0.6	2.4	4.2	0.7	0.7	3.8	-0.5	-2.9	-2.6	1.2	-5.4	100.0	-25.4	-7.1	-0.4	5.2	-7.6	-6.3	-5.9	-4.3	-3.5	-8.7
highpt_uncalib_ljet	-4.5	-2.9	2.0	-0.3	-2.3	0.1	-1.7	-1.5	-0.7	11.8	11.9	1.5	-24.2	6.0	5.9	-25.1	-25.4	100.0	-25.6	-0.3	17.1	-2.5	-0.9	2.5	2.4	-2.0	-17.6
Wγ Norm	-1.7	-3.9	-9.3	-0.7	-7.9	-1.5	-2.2	-2.2	1.4	-6.2	-1.2	0.4	1.3	-2.7	4.5	-5.2	-7.1	-25.6	100.0	-16.7	2.0	18.6	16.2	13.2	15.1	15.0	17.0
Zγ Norm	-0.6	-2.5	-7.6	-1.3	-4.5	-1.3	-7.3	-6.4	0.0	-2.6	-2.3	1.1	4.0	-0.3	-2.6	1.0	-0.4	-0.3	-16.7	100.0	4.8	6.5	3.1	11.7	13.6	14.4	12.0
Norm factor for tty dec	-1.3	-4.2	-20.8	-2.1	-25.0	-11.9	10.4	-5.0	3.4	-23.9	50.5	-18.8	12.5	1.2	9.1	3.4	5.2	17.1	2.0	4.8	100.0	10.7	28.5	43.2	58.1	60.9	51.4
tty_pt Unfolded Truth Bin 1	4.3	-16.1	-29.3	-17.5	-30.9	-19.2	2.5	-14.6	-15.6	18.1	-15.4	1.3	3.0	-23.1	-19.0	-6.2	-7.6	-2.5	18.6	6.5	10.7	100.0	84.1	77.1	69.5	57.3	54.2
tty_pt Unfolded Truth Bin 2	4.7	-16.1	-31.9	-18.0	-33.4	-6.7	-3.9	1.5	-0.2	12.4	5.7	-1.6	2.7	-12.8	-20.8	-3.7	-6.3	-0.9	16.2	3.1	28.5	84.1	100.0	82.6	80.7	67.5	61.2
tty_pt Unfolded Truth Bin 3	1.9	-15.3	-32.7	-17.8	-34.3	-4.0	6.8	-15.3	3.6	4.0	21.0	-2.9	4.6	-13.4	-17.5	-3.4	-5.9	2.5	13.2	11.7	43.2	77.1	82.6	100.0	84.9	71.8	63.3
tty_pt Unfolded Truth Bin 4	-1.7	-14.2	-32.5	-16.0	-34.5	-3.9	2.2	-5.9	3.9	-3.1	29.5	-0.7	4.9	-11.8	-20.0	-1.1	-4.3	2.4	15.1	13.6	58.1	69.5	80.7	84.9	100.0	79.5	70.8
tty_pt Unfolded Truth Bin 5	-7.8	-11.1	-30.2	-13.3	-30.8	-3.3	3.0	-1.2	2.9	-5.0	13.5	-0.2	10.7	-11.8	3.5	1.2	-3.5	-2.0	15.0	14.4	60.9	57.3	67.5	71.8	79.5	100.0	75.3
tty_pt Unfolded Truth Bin 6	-17.3	-7.6	-22.7	-10.9	-23.5	-4.7	5.6	-5.7	2.4	-6.7	-1.9	0.2	17.3	-13.4	-3.9	-0.8	-8.7	-17.6	17.0	12.0	51.4	54.2	61.2	63.3	70.8	75.3	100.0