	EG_SCALE_ALL	JET_Flavor_Composition	JET_Pileup_RhoTopology	PileupRW	Photon_ID	Photon_effIso	hfakeSF	ttbar Norm	tty_dec_Herwig7	tty_dec_fsr	tty_prod_Herwig7	tty_prod_var3c	uncalib_ljet	Wtγ 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	0.2	-0.1	-0.2	0.4	0.2	0.1	0.0	4.9	0.3	-1.3	-0.8	-0.3	-0.2	0.3	-2.5	-0.7	-1.5	-3.4	-5.9	-6.9	-20.0
JET_Flavor_Composition	0.2	100.0	-0.2	-0.1	-0.7	-0.2	-0.4	-0.1	-1.9	-0.1	-0.3	0.5	-3.1	-0.4	-1.7	-25.8	-6.3	-1.9	-4.5	-4.8	-5.1	-3.9
JET_Pileup_RhoTopology	-0.1	-0.2	100.0	-0.2	-0.1	-0.0	-0.1	-0.0	0.4	0.0	-0.5	-0.1	-0.7	-0.2	-0.4	-19.9	-22.7	-18.6	-20.8	-20.6	-14.6	-12.3
PileupRW	-0.2	-0.1	-0.2	100.0	-0.5	-0.1	-0.2	-0.1	-0.3	0.1	-1.1	0.1	0.5	0.0	0.1	16.6	2.5	3.8	4.3	2.9	4.8	4.8
Photon_ID	0.4	-0.7	-0.1	-0.5	100.0	-0.6	-0.7	-0.3	-9.6	0.3	-0.7	1.6	1.3	0.6	-0.6	-20.1	-23.9	-11.0	-11.5	-14.6	-11.7	-11.7
Photon_effIso	0.2	-0.2	-0.0	-0.1	-0.6	100.0	-0.2	-0.1	-3.6	-0.1	0.3	0.8	0.2	0.2	-0.2	-22.9	-15.1	-12.2	-10.0	-13.5	-7.7	-10.6
hfakeSF	0.1	-0.4	-0.1	-0.2	-0.7	-0.2	100.0	-0.1	-2.7	0.1	-0.4	0.3	-0.4	0.1	-0.7	-3.5	-28.0	-17.1	-24.4	-23.7	-17.1	-13.5
ttbar Norm	0.0	-0.1	-0.0	-0.1	-0.3	-0.1	-0.1	100.0	-0.8	0.1	-0.3	0.1	0.1	0.1	-0.1	-0.8	-21.8	-3.4	-1.5	-0.3	0.0	0.0
tty_dec_Herwig7	4.9	-1.9	0.4	-0.3	-9.6	-3.6	-2.7	-0.8	100.0	-0.8	9.6	10.3	16.0	5.0	-0.9	33.7	-4.9	5.8	16.9	22.8	12.1	0.6
tty_dec_fsr	0.3	-0.1	0.0	0.1	0.3	-0.1	0.1	0.1	-0.8	100.0	1.3	0.6	-1.4	-0.2	-0.4	-19.4	11.9	-0.0	-6.1	-2.2	-1.2	0.9
tty_prod_Herwig7	-1.3	-0.3	-0.5	-1.1	-0.7	0.3	-0.4	-0.3	9.6	1.3	100.0	-1.5	-1.9	-0.5	-0.4	26.3	-36.8	-54.1	-32.7	-32.8	-4.5	-11.8
tty_prod_var3c	-0.8	0.5	-0.1	0.1	1.6	0.8	0.3	0.1	10.3	0.6	-1.5	100.0	-0.7	-0.6	0.2	7.0	6.8	13.1	19.6	27.0	24.0	19.0
uncalib_ljet	-0.3	-3.1	-0.7	0.5	1.3	0.2	-0.4	0.1	16.0	-1.4	-1.9	-0.7	100.0	-4.0	-9.0	0.1	-1.0	-0.8	2.1	-4.9	-5.6	-16.6
Wtγ Norm	-0.2	-0.4	-0.2	0.0	0.6	0.2	0.1	0.1	5.0	-0.2	-0.5	-0.6	-4.0	100.0	-1.3	-34.8	-6.2	-11.9	-15.2	-24.9	-25.6	-24.1
Zγ Norm	0.3	-1.7	-0.4	0.1	-0.6	-0.2	-0.7	-0.1	-0.9	-0.4	-0.4	0.2	-9.0	-1.3	100.0	-36.1	-2.5	4.5	-11.2	-5.8	-16.6	-11.8
Norm factor for tty dec	-2.5	-25.8	-19.9	16.6	-20.1	-22.9	-3.5	-0.8	33.7	-19.4	26.3	7.0	0.1	-34.8	-36.1	100.0	-7.1	-5.5	16.0	25.2	34.3	28.0
tty_pt Unfolded Truth Bin 1	-0.7	-6.3	-22.7	2.5	-23.9	-15.1	-28.0	-21.8	-4.9	11.9	-36.8	6.8	-1.0	-6.2	-2.5	-7.1	100.0	54.7	49.9	47.0	26.2	26.9
tty_pt Unfolded Truth Bin 2	-1.5	-1.9	-18.6	3.8	-11.0	-12.2	-17.1	-3.4	5.8	-0.0	-54.1	13.1	-0.8	-11.9	4.5	-5.5	54.7	100.0	46.5	49.3	24.1	25.6
tty_pt Unfolded Truth Bin 3	-3.4	-4.5	-20.8	4.3	-11.5	-10.0	-24.4	-1.5	16.9	-6.1	-32.7	19.6	2.1	-15.2	-11.2	16.0	49.9	46.5	100.0	48.8	32.2	29.8
tty_pt Unfolded Truth Bin 4	-5.9	-4.8	-20.6	2.9	-14.6	-13.5	-23.7	-0.3	22.8	-2.2	-32.8	27.0	-4.9	-24.9	-5.8	25.2	47.0	49.3	48.8	100.0	36.3	35.6
tty_pt Unfolded Truth Bin 5	-6.9	-5.1	-14.6	4.8	-11.7	-7.7	-17.1	0.0	12.1	-1.2	-4.5	24.0	-5.6	-25.6	-16.6	34.3	26.2	24.1	32.2	36.3	100.0	27.9
tty_pt Unfolded Truth Bin 6	-20.0	-3.9	-12.3	4.8	-11.7	-10.6	-13.5	0.0	0.6	0.9	-11.8	19.0	-16.6	-24.1	-11.8	28.0	26.9	25.6	29.8	35.6	27.9	100.0