Correlation matrix (values in %).

	BTag_B_0	EG_SCALE_ALL	JET_EffectiveNP_Modelling1	JET_Flavor_Composition	JET_Flavor_Response	JET_Pileup_OffsetNPV	JET_Pileup_RhoTopology	PileupRW	Photon_ID	Photon_effIso	efakeSF_	hfakeSF_	lepfakeSF_	lepfakeSF_var1	lepfakeSF_var2	tγ(t channel) Norm	ttbar_pt_hard	tty_dec_Herwig7	tty_prod_Herwig7	tty_prod_muR	tty_prod_var3c	highpt_uncalib_bjet	highpt_uncalib_cjet	highpt_uncalib_ljet	Wtγ Norm	Wγ Norm	Zγ Norm	Norm factor for tty dec	tty_pt Unfolded Truth Bin 1	Bin 2	Bin 3	Bin 4	Bin 5	Bin 6	Bin 7	Bin 8	Bin 9	Bin 10
BTag_B_0	100.0	-0.7	-0.5	-2.2	2.1	0.4	-1.0	-2.7	-0.4	4.1	1.3	0.6	-1.3	0.0	0.6	-0.8	-3.7	0.5	3.6	-1.7	1.5	-0.1	-0.6	-1.4	-3.7	-7.2	-4.1	18.2	2.4	5.9	7.2	7.9	9.5	7.3	10.9	11.8	11.6	12.2
EG_SCALE_ALL	-0.7	100.0	0.3	0.1	0.0	0.5	0.1	-0.7	0.2	1.1	-2.2	-1.2	-0.6	-0.0	-0.2	-0.5	1.7	5.2	1.8	-0.2	-0.2	0.1	-0.8	-0.8	-0.8	-5.3	-1.1	-1.4	2.3	1.7	0.1	0.2	-3.8	-5.8	-5.1	-12.5	-16.0	-27.8
JET_EffectiveNP_Modelling1	-0.5	0.3	100.0	-2.1	1.3	-1.4	-2.1	-0.1	0.2	1.3	0.1	-0.4	-0.2	0.4	-0.0	-0.2	-2.0	-0.5	-6.6	2.6	-1.3	-0.1	-0.6	-1.7	-2.6	-5.6	-2.3	-3.8	-17.8	-17.6	-17.2	-16.0	-14.8	-13.7	-13.9	-11.7	-10.9	-9.3
JET_Flavor_Composition	-2.2	0.1	-2.1	100.0	4.4	-0.6	-3.9	-1.5	-0.3	5.0	2.9	-0.1	-1.3	2.1	-1.2	0.5	-3.8	-7.0	-2.8	8.2	-4.8	-0.3	-1.5	-4.4	-3.4	-15.8	-7.2	-28.7	-34.3	-37.1	-38.5	-36.6	-35.6	-34.5	-35.8	-31.0	-28.7	-21.8
JET_Flavor_Response	2.1	0.0	1.3	4.4	100.0	-0.4	2.4	2.3	0.5	-5.8	0.8	3.2	2.0	-1.6	0.7	0.2	3.1	4.2	-0.6	-5.6	1.6	-0.7	0.4	0.6	4.0	13.0	7.3	4.2	21.5	22.0	21.5	19.6	17.6	15.5	15.0	11.4	11.3	9.4
JET_Pileup_OffsetNPV	0.4	0.5	-1.4	-0.6	-0.4	100.0	-1.3	0.8	0.9	-0.5	-0.2	0.5	0.2	-0.1	-0.5	1.4	-5.7	1.4	-5.7	0.0	-0.0	-0.3	-0.4	-0.1	-2.0	-2.5	-3.4	-2.7	-16.3	-18.3	-17.5	-16.2	-15.9	-14.0	-13.8	-13.7	-12.3	-10.0
JET_Pileup_RhoTopology	-1.0	0.1	-2.1	-3.9	2.4	-1.3	100.0	-0.9	0.8	3.4	3.3	1.9	-0.3	0.6	0.3	0.9	-3.2	-2.2	-9.6	2.0	-3.7	-0.1	-0.9	-2.9	-4.1	-11.7	-3.9	-30.8	-36.4	-37.4	-38.4	-37.8	-35.4	-33.7	-36.1	-32.2	-29.7	-25.5
PileupRW	-2.7	-0.7	-0.1	-1.5	2.3	0.8	-0.9	100.0	-0.6	6.2	-4.1	-6.4	-2.3	-0.7	0.8	-1.5	-5.5	1.1	0.4	-0.3	2.6	1.5	1.3	3.6	-4.9	-5.2	-5.2	18.1	4.4	3.3	3.4	7.7	3.6	4.7	4.2	11.9	8.3	4.5
Photon_ID	-0.4	0.2	0.2	-0.3	0.5	0.9	0.8	-0.6	100.0	1.0	-0.9	-2.1	-0.5	-0.6	0.3	-0.3	-3.5	-5.3	-2.4	8.3	-1.3	0.7	0.5	-0.2	-0.2	-2.4	-0.6	-15.7	-21.0	-10.3	-6.6	-7.8	-6.6	-5.4	-5.9	-6.6	-7.2	-7.9
Photon_effIso	4.1	1.1	1.3	5.0	-5.8	-0.5	3.4	6.2	1.0	100.0	-0.0	1.3	2.8	-0.8	-0.7	2.4	3.4	-1.0	-9.1	6.5	-2.5	-1.4	-0.1	-4.8	5.6	12.0	9.1	-22.8	-20.3	-16.3	-16.7	-16.1	-16.8	-15.6	-16.4	-15.4	-15.7	-23.1
efakeSF_	1.3	-2.2	0.1	2.9	0.8	-0.2	3.3	-4.1	-0.9	-0.0	100.0	-37.0	-2.6	3.1	-8.9	-5.4	7.9	11.6	-22.5	11.7	12.1	3.2	2.5	-0.4	0.2	-3.4	-5.4	2.6	-6.9	-10.1	-8.8	-11.7	-11.1	-11.2	-9.4	-6.0	-2.2	-1.0
hfakeSF_	0.6	-1.2	-0.4	-0.1	3.2	0.5	1.9	-6.4	-2.1	1.3	-37.0	100.0	-3.1	1.9	-4.7	-7.4	5.3	4.1	-21.1	20.2	5.6	3.1	2.3	-1.7	-0.6	-1.6	-6.8	-8.2	-27.5	-17.2	-19.8	-15.1	-10.2	-9.1	-10.9	-8.4	-11.6	-14.3
lepfakeSF_	-1.3	-0.6	-0.2	-1.3	2.0	0.2	-0.3	-2.3	-0.5	2.8	-2.6	-3.1	100.0	15.1	-6.3	-0.2	-1.3	-5.3	1.0	1.6	3.6	-0.7	-0.4	-4.1	-1.7	-5.9	-4.5	15.5	-9.5	-10.7	-4.4	-7.7	-8.9	-8.7	1.8	-12.3	-4.1	1.0
lepfakeSF_var1	0.0	-0.0	0.4	2.1	-1.6	-0.1	0.6	-0.7	-0.6	-0.8	3.1	1.9	15.1	100.0	-2.4	-0.1	0.2	7.0	-0.3	-0.0	-1.4	-0.2	4.0	2.3	0.7	-4.2	2.3	-3.1	-5.4	-2.7	-3.0	-4.2	-5.0	-5.9	-2.8	-9.0	-5.6	-2.7
lepfakeSF_var2	0.6	-0.0	-0.0	-1.2	0.7	-0.5	0.3	0.8	0.3	-0.7	-8.9	-4.7	-6.3	-2.4	100.0	-1.1	2.1	0.4	-2.7	1.1	-0.6	0.2	0.1	-2.6	0.8	5.0	-1.0	-8.1	16.3	16.9	11.7	15.9	15.3	16.6	4.7	27.0	15.3	5.3
tγ(t channel) Norm	-0.8	-0.5	-0.2	0.5	0.2	1.4	0.9	-1.5	-0.3	2.4	-5.4	-7.4	-0.2	-0.1	-1.1	100.0	-2.5	4.4	-4.3	11.7	-0.3	1.4	0.7	-1.2	-1.7	-4.6	-1.0	-0.6	-15.9	-11.3	-7.5	-6.5	-6.2	-5.4	-3.7	-4.3	-3.6	-2.9
ttbar_pt_hard	-3.7	1.7	-2.0	-3.8	3.1	-5.7	-3.2	-5.5	-3.5	3.4	7.9	5.3	-1.3	0.2	2.1	-2.5	100.0	-20.7	1.3	-9.1	-0.7	0.1	0.6	9.9	-1.7	-4.6	-1.3	-24.9	19.4	13.2	7.2	3.7	2.8	1.8	1.8	1.8	1.2	-1.3
tty_dec_Herwig7	0.5	5.2	-0.5	-7.0	4.2	1.4	-2.2	1.1	-5.3	-1.0	11.6	4.1	-5.3	7.0	0.4	4.4	-20.7	100.0	0.0	10.7	-8.6	0.8	3.1	12.4	4.8	-6.3	-2.0	57.2	-6.6	13.3	21.5	25.5	24.7	19.8	13.7	8.8	4.9	-3.4
tty_prod_Herwig7	3.6	1.8	-6.6	-2.8	-0.6	-5.7	-9.6	0.4	-2.4	-9.1	-22.5	-21.1	1.0	-0.3	-2.7	-4.3	1.3	0.0	100.0	-2.2	-4.3	-3.3	-2.2	-19.2	3.1	1.9	2.8	22.0	13.7	10.8	16.0	14.0	9.1	8.9	24.7	13.7	6.7	30.1
tty_prod_muR	-1.7	-0.2	2.6	8.2	-4.5	0.0	2.0	-0.3	8.3	6.5	11.7	20.2	1.6	-0.0	1.1	11.7	-9.1	10.7	-2.2	100.0	-0.1	-3.4	-2.2	5.6	0.8	-4.2	4.0	-4.3	-30.1	-23.0	-21.0	-21.0	-20.0	-17.7	-17.7	-16.5	-19.4	-15.5
tty_prod_var3c	1.5	-0.2	-1.3	-4.8	1.6	-0.0	-3.7	2.6	-1.3	-2.5	12.1	5.6	3.6	1.0	-0.6	-0.3	-0.7	-8.6	-4.3	-0.1	100.0	2.5	4.0	8.7	1.5	5.0	-1.4	17.8	-17.4	-17.8	-10.6	-8.4	-17.8	-20.8	4.4	12.3	-7.0	2.4
highpt_uncalib_bjet	-0.1	0.1	-0.1	-0.3	-0.7	-0.3	-0.1	1.5	0.7	-1.4	3.2	3.1	-0.7	-0.3	0.4	1.4	0.1	0.8	-3.3	-3.4	2.5	100.0	-4.6	-18.9	0.1	-7.1	1.2	2.7	-3.0	-1.9	-1.1	-1.4	-0.1	-0.5	0.2	1.2	0.6	-5.4
highpt_uncalib_cjet	-0.6	-0.8	-0.6	-1.5	0.4	-0.4	-0.9	1.3	0.5	-0.1	2.5	2.3	-0.4	4.0	0.2	0.7	0.6	3.1	-2.2	-2.2	4.0	-4.6	100.0	-20.1	-1.3	-10.1	-0.8	5.7	-5.1	-4.0	-3.0	-2.5	-3.4	-0.5	-1.4	-1.8	-3.9	-7.8
highpt_uncalib_ljet	-1.4	-1.8	-1.7	-4.4	0.6	-0.1	-2.9	3.6	-0.2	-4.8	-0.4	-1.7	-4.1	2.3	-2.6	-1.2	9.9	12.4	-19.2	5.6	8.7	-18.9	-20.1	100.0	-3.2	34.5	-2.9	15.4	-1.3	0.3	2.4	0.0	2.1	-1.5	-4.3	-2.3	-7.2	-25.1
Wtγ Norm	-3.7	-0.8	-2.6	-3.4	4.0	-2.0	-4.1	-4.9	-0.2	5.6	0.2	-0.6	-1.7	0.7	0.8	-1.7	-1.7	4.8	3.1	0.8	1.5	0.1	-1.3	-3.2	100.0	-12.6	-7.2	-10.5	-6.0	-7.3	-7.7	-10.2	-10.8	-12.7	-11.5	-14.3	-15.9	-15.0
Wγ Norm	-7.2	-5.3	-5.6	-15.8	13.0	-2.5	-11.7	-5.2	-2.4	12.0	-3.4	-1.6	-5.9	-4.2	5.0	-4.6	-4.6	-6.3	1.9	-4.2	5.0	-7.1	-10.1	34.5	-12.6	100.0	-20.8	1.7	16.8	15.7	11.2	13.7	11.3	11.3	12.4	8.9	11.3	15.1
Zγ Norm	-4.1	-1.1	-2.3	-7.2	7.3	-3.4	-3.9	-5.2	-0.6	9.1	-5.4	-6.8	-4.5	2.3	-1.0	-1.0	-1.3	-2.0	2.8	4.0	-1.4	1.2	-0.8	-2.9	-7.2	-20.8	100.0	4.1	-2.7	-1.8	8.6	4.6	5.5	10.5	7.4	8.6	6.4	6.4
Norm factor for tty dec	18.2	-1.4	-3.8	-28.7	4.2	-2.7	-30.8	18.1	-15.7	-22.8	2.6	-8.2	15.5	-3.1	-8.1	-0.6	-24.9	57.2	22.0	-4.3	17.8	2.7	5.7	15.4	-10.5	1.7	4.1	100.0	9.9	21.8	35.6	39.2	36.8	35.0	43.1	37.1	30.7	29.9
tty_pt Unfolded Truth Bin 1	2.4	2.3	-17.8	-34.3	21.5	-16.3	-36.4	4.4	-21.0	-20.3	-6.9	-27.5	-9.5	-5.4	16.3	-15.9	19.4	-6.6	13.7	-30.1	-17.4	-3.0	-5.1	-1.3	-6.0	16.8	-2.7	9.9	100.0	89.6	80.1	76.1	70.4	64.0	59.0	55.2	55.7	46.8
tty_pt Unfolded Truth Bin 2	5.9	1.7	-17.6	-37.1	22.0	-18.3	-37.4	3.3	-10.3	-16.3	-10.1	-17.2	-10.7	-2.7	16.9	-11.3	13.2	13.3	10.8	-23.0	-17.8	-1.9	-4.0	0.3	-7.3	15.7	-1.8	21.8	89.6	100.0	83.0	81.3	76.0	68.7	62.7	58.4	57.6	46.2
tty_pt Unfolded Truth Bin 3	7.2	0.1	-17.2	-38.5	21.5	-17.5	-38.4	3.4	-6.6	-16.7	-8.8	-19.8	-4.4	-3.0	11.7	-7.5	7.2	21.5	16.0	-21.0	-10.6	-1.1	-3.0	2.4	-7.7	11.2	8.6	35.6	80.1	83.0	100.0	77.7	73.9	66.9	64.4	58.5	56.3	47.2
tty_pt Unfolded Truth Bin 4	7.9	0.2	-16.0	-36.6	19.6	-16.2	-37.8	7.7	-7.8	-16.1	-11.7	-15.1	-7.7	-4.2	15.9	-6.5	3.7	25.5	14.0	-21.0	-8.4	-1.4	-2.5	0.0	-10.2	13.7	4.6	39.2	76.1	81.3	77.7	100.0	71.1	66.7	63.3	59.7	56.3	47.0
tty_pt Unfolded Truth Bin 5	9.5	-3.8	-14.8	-35.6	17.6	-15.9	-35.4	3.6	-6.6	-16.8	-11.1	-10.2	-8.9	-5.0	15.3	-6.2	2.8	24.7	9.1	-20.0	-17.8	-0.1	-3.4	2.1	-10.8	11.3	5.5	36.8	70.4	76.0	73.9	71.1	100.0	62.1	58.9	55.5	54.5	44.0
tty_pt Unfolded Truth Bin 6	7.3	-5.8	-13.7	-34.5	15.5	-14.0	-33.7	4.7	-5.4	-15.6	-11.2	-9.1	-8.7	-5.9	16.6	-5.4	1.8	19.8	8.9	-17.7	-20.8	-0.5	-0.5	-1.5	-12.7	11.3	10.5	35.0	64.0	68.7	66.9	66.7	62.1	100.0	51.1	52.7	52.2	42.6
tty_pt Unfolded Truth Bin 7	10.9	-5.1	-13.9	-35.8	15.0	-13.8	-36.1	4.2	-5.9	-16.4	-9.4	-10.9	1.8	-2.8	4.7	-3.7	1.8	13.7	24.7	-17.7	4.4	0.2	-1.4	-4.3	-11.5	12.4	7.4	43.1	59.0	62.7	64.4	63.3	58.9	51.1	100.0	50.9	49.9	48.6
tty_pt Unfolded Truth Bin 8	11.8	-12.5	-11.7	-31.0	11.4	-13.7	-32.2	11.9	-6.6	-15.4	-6.0	-8.4	-12.3	-9.0	27.0	-4.3	1.8	8.8	13.7	-16.5	12.3	1.2	-1.8	-2.3	-14.3	8.9	8.6	37.1	55.2	58.4	58.5	59.7	55.5	52.7	50.9	100.0	48.9	48.0
tty_pt Unfolded Truth Bin 9	11.6	-16.0	-10.9	-28.7	11.3	-12.3	-29.7	8.3	-7.2	-15.7	-2.2	-11.6	-4.1	-5.6	15.3	-3.6	1.2	4.9	6.7	-19.4	-7.0	0.6	-3.9	-7.2	-15.9	11.3	6.4	30.7	55.7	57.6	56.3	56.3	54.5	52.2	49.9	48.9	100.0	45.6
tty_pt Unfolded Truth Bin 10	12.2	-27.8	-9.3	-21.8	9.4	-10.0	-25.5	4.5	-7.9	-23.1	-1.0	-14.3	1.0	-2.7	5.3	-2.9	-1.3	-3.4	30.1	-15.5	2.4	-5.4	-7.8	-25.1	-15.0	15.1	6.4	29.9	46.8	46.2	47.2	47.0	44.0	42.6	48.6	48.0	45.6	100.0