	ABCD electron	ABCD muon	FSR	ISR	JET_Flavor_Composition	JET_Pileup_RhoTopology	ME	PRW	PS $t_h\tau_{lep}\tau_{had}$ 2j $t\bar{t}$	PS $t_h\tau_{lep}\tau_{had}$ 2j τ_W	PS $t_h\tau_{lep}\tau_{had}$ 3j b Fake	PS $t_h\tau_{lep}\tau_{had}$ 3j $t\bar{t}$	PS $t_h\tau_{lep}\tau_{had}$ 3j τ_W	PS $t_l\tau_{had}$ 1j b Fake	PS $t_l\tau_{had}$ 1j τ_W	PS $t_l\tau_{had}$ 2j b Fake	PS $t_l\tau_{had}$ 2j τ_W	btag_B_0	btag_B_3	scale
ABCD electron	100.0	-61.0	17.3	-6.9	-0.8	8.2	-2.0	5.5	-4.3	-4.0	-0.3	-1.1	3.5	-9.3	-9.3	-7.9	-6.7	11.8	1.4	-9.7
ABCD muon	-61.0	100.0	7.6	-3.0	-0.4	3.6	-0.9	2.4	-1.9	-1.8	-0.1	-0.5	1.5	-4.1	-4.1	-3.5	-2.9	5.2	0.6	-4.2
FSR	17.3	7.6	100.0	-1.3	-2.4	-8.1	-1.5	0.7	4.0	-22.5	1.3	21.5	-20.8	-1.4	0.4	-22.8	13.6	13.8	4.7	17.0
ISR	-6.9	-3.0	-1.3	100.0	-8.0	-1.6	1.9	-0.2	10.1	-13.8	2.8	-26.0	-12.7	-3.7	-3.3	-7.1	-7.0	2.3	0.9	1.5
JET_Flavor_Composition	-0.8	-0.4	-2.4	-8.0	100.0	-25.5	10.7	8.4	-5.8	-7.1	0.1	-23.5	0.8	9.8	5.8	-2.5	-5.8	2.5	8.2	2.5
JET_Pileup_RhoTopology	8.2	3.6	-8.1	-1.6	-25.5	100.0	10.1	9.9	-3.5	-5.2	-1.1	-6.5	-0.4	1.6	2.5	0.4	-2.2	4.4	10.6	-3.6
ME	-2.0	-0.9	-1.5	1.9	10.7	10.1	100.0	6.1	-46.4	41.6	2.8	15.0	-23.8	-19.9	-7.9	-24.3	-15.3	-5.0	5.1	-7.1
PRW	5.5	2.4	0.7	-0.2	8.4	9.9	6.1	100.0	23.7	-6.1	-0.5	6.6	5.8	0.4	0.9	-3.3	-2.6	-1.3	-7.3	-1.4
PS $t_h\tau_{lep}\tau_{had}$ 2j $t\bar{t}$	-4.3	-1.9	4.0	10.1	-5.8	-3.5	-46.4	23.7	100.0	3.1	-3.6	15.7	29.4	10.4	4.1	6.8	3.6	-8.5	22.4	13.3
PS $t_h\tau_{lep}\tau_{had}$ 2j τ_W	-4.0	-1.8	-22.5	-13.8	-7.1	-5.2	41.6	-6.1	3.1	100.0	-2.1	17.8	32.7	-15.7	-9.3	-6.2	-7.0	9.8	5.1	26.8
PS $t_h\tau_{lep}\tau_{had}$ 3j b Fake	-0.3	-0.1	1.3	2.8	0.1	-1.1	2.8	-0.5	-3.6	-2.1	100.0	9.2	21.9	-0.5	-0.1	-0.9	-0.2	-0.7	-1.5	-1.2
PS $t_h\tau_{lep}\tau_{had}$ 3j $t\bar{t}$	-1.1	-0.5	21.5	-26.0	-23.5	-6.5	15.0	6.6	15.7	17.8	9.2	100.0	37.1	-9.5	-6.0	0.2	15.0	-31.6	8.1	-11.3
PS $t_h\tau_{lep}\tau_{had}$ 3j τ_W	3.5	1.5	-20.8	-12.7	0.8	-0.4	-23.8	5.8	29.4	32.7	21.9	37.1	100.0	5.4	1.2	12.4	1.0	25.9	15.5	-5.8
PS $t_l\tau_{had}$ 1j b Fake	-9.3	-4.1	-1.4	-3.7	9.8	1.6	-19.9	0.4	10.4	-15.7	-0.5	-9.5	5.4	100.0	-27.4	12.4	7.4	3.6	2.4	-1.8
PS $t_l\tau_{had}$ 1j τ_W	-9.3	-4.1	0.4	-3.3	5.8	2.5	-7.9	0.9	4.1	-9.3	-0.1	-6.0	1.2	-27.4	100.0	7.2	6.7	2.9	0.9	-1.3
PS $t_l\tau_{had}$ 2j b Fake	-7.9	-3.5	-22.8	-7.1	-2.5	0.4	-24.3	-3.3	6.8	-6.2	-0.9	0.2	12.4	12.4	7.2	100.0	-29.8	-5.2	-2.7	-14.7
PS $t_l\tau_{had}$ 2j τ_W	-6.7	-2.9	13.6	-7.0	-5.8	-2.2	-15.3	-2.6	3.6	-7.0	-0.2	15.0	1.0	7.4	6.7	-29.8	100.0	-3.0	-1.8	-5.5
btag_B_0	11.8	5.2	13.8	2.3	2.5	4.4	-5.0	-1.3	-8.5	9.8	-0.7	-31.6	25.9	3.6	2.9	-5.2	-3.0	100.0	-2.0	-5.3
btag_B_3	1.4	0.6	4.7	0.9	8.2	10.6	5.1	-7.3	22.4	5.1	-1.5	8.1	15.5	2.4	0.9	-2.7	-1.8	-2.0	100.0	0.1
scale	-9.7	-4.2	17.0	1.5	2.5	-3.6	-7.1	-1.4	13.3	26.8	-1.2	-11.3	-5.8	-1.8	-1.3	-14.7	-5.5	-5.3	0.1	100.0