	Electron ID eff.	Electron isol. eff. (syst)	b-tag Eigenvar. 0	c-tag Eigenvar. 0	light-tag Eigenvar. 0	JER DataVsMC MC16	JER EffectiveNP 1	JER EffectiveNP 3	JER EffectiveNP 4	JER EffectiveNP 5	JES flavour composition	JES pileup offset NPV	JES pileup ρ topology	JES effective NP modelling 1	Muon isol. eff. (syst)	Pile-up rew.	Luminosity	Diboson NNPDF30 37	$t\bar{t}$ FSR	$t\bar{t}$ NLO gen.	$t\bar{t}$ PS + had.	$t\bar{t}$ hdamp=3mtop	$k(Z+\text{jets})$	$k(t\bar{t})$	$\mu(tHq)$
Electron ID eff.	100.0	-0.1	-0.0	-0.0	0.0	0.6	-1.1	0.3	-0.4	0.1	-0.6	0.0	0.1	-0.3	-0.1	0.3	-0.1	-0.1	0.7	-0.8	0.8	-0.0	-7.2	-28.0	-0.9
Electron isol. eff. (syst)	-0.1	100.0	-0.0	0.0	0.0	0.2	-0.2	0.0	-0.3	0.2	-0.0	0.1	0.3	-0.1	-0.1	0.1	-0.0	-0.1	0.4	-0.3	0.4	-0.1	-6.9	-23.9	-0.1
b-tag Eigenvar. 0	-0.0	-0.0	100.0	-0.0	-0.0	-0.2	0.1	-0.1	-0.5	0.9	-0.4	-0.1	-0.1	0.0	-0.0	-0.1	-0.0	0.1	0.0	0.1	0.2	0.1	17.1	31.2	-0.5
c-tag Eigenvar. 0	-0.0	0.0	-0.0	100.0	-0.1	0.2	-1.5	0.8	0.1	0.5	-0.6	-0.2	-0.5	0.0	-0.0	-0.1	0.0	0.3	0.0	0.1	-0.2	0.3	26.6	-0.3	-0.2
light-tag Eigenvar. 0	0.0	0.0	-0.0	-0.1	100.0	0.2	-1.1	0.6	0.4	0.1	-0.6	-0.3	-0.7	-0.2	0.0	-0.1	0.0	0.3	-0.3	0.2	-0.2	0.3	29.5	26.6	0.1
JER DataVsMC MC16	0.6	0.2	-0.2	0.2	0.2	100.0	15.1	-6.1	-4.4	6.6	3.4	0.1	2.2	1.7	0.4	-2.4	0.1	-0.5	-1.4	5.8	-2.8	-1.0	-1.7	3.2	-1.9
JER EffectiveNP 1	-1.1	-0.2	0.1	-1.5	-1.1	15.1	100.0	23.4	9.4	-4.5	-9.6	-0.6	-7.6	-2.0	-0.6	2.4	0.2	3.0	5.6	-7.8	1.0	4.4	-12.3	-1.7	-18.2
JER EffectiveNP 3	0.3	0.0	-0.1	0.8	0.6	-6.1	23.4	100.0	-5.5	2.0	-0.5	-1.3	0.6	0.3	0.2	0.2	-0.1	-1.6	-2.4	3.1	-2.0	-2.3	6.4	5.9	-1.5
JER EffectiveNP 4	-0.4	-0.3	-0.5	0.1	0.4	-4.4	9.4	-5.5	100.0	17.5	-5.2	-0.6	1.0	0.7	-0.3	-1.3	-0.3	-0.4	4.6	3.8	-3.5	-1.8	6.3	11.0	-10.0
JER EffectiveNP 5	0.1	0.2	0.9	0.5	0.1	6.6	-4.5	2.0	17.5	100.0	6.3	0.4	-0.8	-2.1	0.2	4.0	0.1	-0.9	-6.5	-7.9	5.9	0.7	7.2	-0.2	1.8
JES flavour composition	-0.6	-0.0	-0.4	-0.6	-0.6	3.4	-9.6	-0.5	-5.2	6.3	100.0	-6.6	-12.9	-2.1	-0.3	2.9	0.2	0.8	0.6	-2.0	0.7	2.5	-29.0	-1.3	-6.9
JES pileup offset NPV	0.0	0.1	-0.1	-0.2	-0.3	0.1	-0.6	-1.3	-0.6	0.4	-6.6	100.0	-5.3	-0.8	0.1	0.8	0.2	0.5	-2.2	-1.1	4.6	2.1	-16.9	0.7	-3.1
JES pileup ρ topology	0.1	0.3	-0.1	-0.5	-0.7	2.2	-7.6	0.6	1.0	-0.8	-12.9	-5.3	100.0	-1.0	0.2	1.8	0.4	0.9	-2.8	-0.2	-0.5	2.9	-37.8	-22.5	-5.2
JES effective NP modelling 1	-0.3	-0.1	0.0	0.0	-0.2	1.7	-2.0	0.3	0.7	-2.1	-2.1	-0.8	-1.0	100.0	-0.2	1.0	-0.1	-0.1	-3.0	0.6	6.0	1.1	-15.5	0.3	-2.3
Muon isol. eff. (syst)	-0.1	-0.1	-0.0	-0.0	0.0	0.4	-0.6	0.2	-0.3	0.2	-0.3	0.1	0.2	-0.2	100.0	0.2	-0.0	-0.1	0.5	-0.6	0.5	-0.1	-10.1	-27.0	-0.5
Pile-up rew.	0.3	0.1	-0.1	-0.1	-0.1	-2.4	2.4	0.2	-1.3	4.0	2.9	0.8	1.8	1.0	0.2	100.0	0.1	0.3	-0.0	2.5	-0.5	0.2	-19.6	-31.3	-1.4
Luminosity	-0.1	-0.0	-0.0	0.0	0.0	0.1	0.2	-0.1	-0.3	0.1	0.2	0.2	0.4	-0.1	-0.0	0.1	100.0	-0.1	0.4	-0.3	-0.1	-0.1	-8.7	-24.2	0.1
Diboson NNPDF30 37	-0.1	-0.1	0.1	0.3	0.3	-0.5	3.0	-1.6	-0.4	-0.9	0.8	0.5	0.9	-0.1	-0.1	0.3	-0.1	100.0	0.2	-0.2	-0.4	-0.8	-29.6	0.5	-0.3
$t\bar{t}$ FSR	0.7	0.4	0.0	0.0	-0.3	-1.4	5.6	-2.4	4.6	-6.5	0.6	-2.2	-2.8	-3.0	0.5	-0.0	0.4	0.2	100.0	-1.1	6.8	2.1	7.7	1.8	-52.8
$t\bar{t}$ NLO gen.	-0.8	-0.3	0.1	0.1	0.2	5.8	-7.8	3.1	3.8	-7.9	-2.0	-1.1	-0.2	0.6	-0.6	2.5	-0.3	-0.2	-1.1	100.0	19.3	2.8	0.7	32.2	-44.9
$t\bar{t}$ PS + had.	0.8	0.4	0.2	-0.2	-0.2	-2.8	1.0	-2.0	-3.5	5.9	0.7	4.6	-0.5	6.0	0.5	-0.5	-0.1	-0.4	6.8	19.3	100.0	-12.8	-9.0	4.5	-3.1
$t\bar{t}$ hdamp=3mtop	-0.0	-0.1	0.1	0.3	0.3	-1.0	4.4	-2.3	-1.8	0.7	2.5	2.1	2.9	1.1	-0.1	0.2	-0.1	-0.8	2.1	2.8	-12.8	100.0	-6.2	3.3	-23.7
$k(Z+\text{jets})$	-7.2	-6.9	17.1	26.6	29.5	-1.7	-12.3	6.4	6.3	7.2	-29.0	-16.9	-37.8	-15.5	-10.1	-19.6	-8.7	-29.6	7.7	0.7	-9.0	-6.2	100.0	35.4	13.9
$k(t\bar{t})$	-28.0	-23.9	31.2	-0.3	26.6	3.2	-1.7	5.9	11.0	-0.2	-1.3	0.7	-22.5	0.3	-27.0	-31.3	-24.2	0.5	1.8	32.2	4.5	3.3	35.4	100.0	-21.1
$\mu(tHq)$	-0.9	-0.1	-0.5	-0.2	0.1	-1.9	-18.2	-1.5	-10.0	1.8	-6.9	-3.1	-5.2	-2.3	-0.5	-1.4	0.1	-0.3	-52.8	-44.9	-3.1	-23.7	13.9	-21.1	100.0