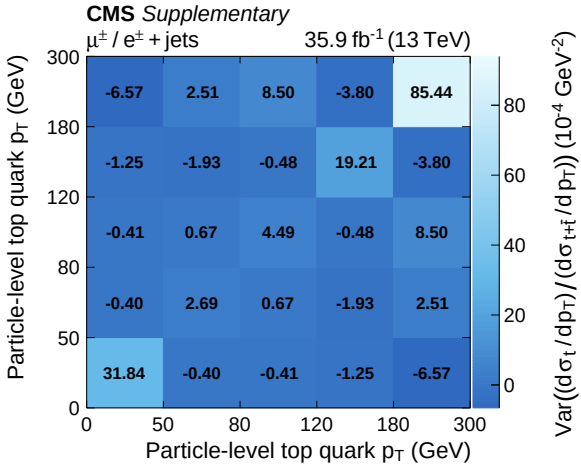
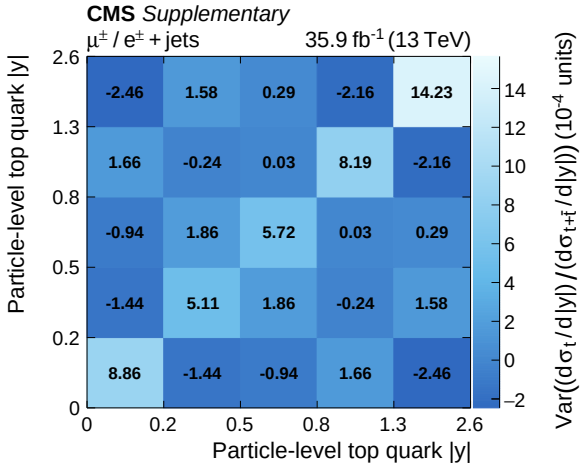
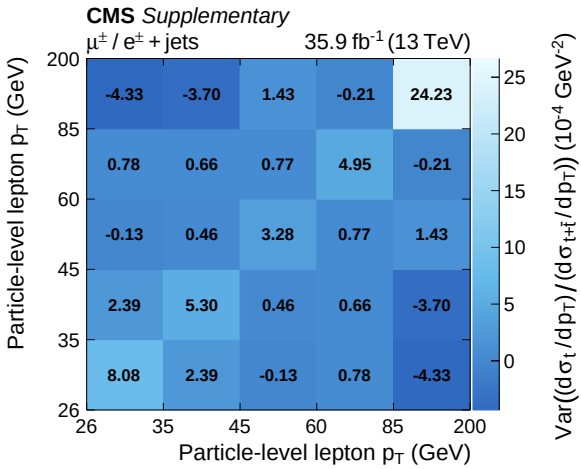
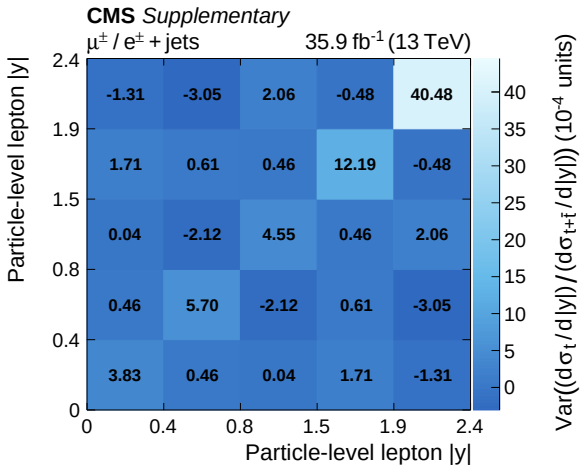
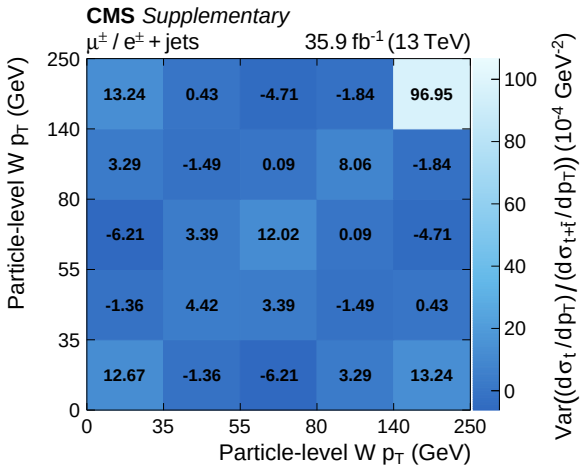

CMS Supplementary
μ± / e± + jets
35.9 fb-1 (13 TeV)
Particle-level top quark pT (GeV)
Particle-level top quark pT (GeV)
Var((dσt / dpT) / (dσt+t̄ / dpT)) (10-4 GeV-2)
-6.57 2.51 8.50 -3.80 85.44
-1.25 -1.93 -0.48 19.21 -3.80
-0.41 0.67 4.49 -0.48 8.50
-0.40 2.69 0.67 -1.93 2.51
31.84 -0.40 -0.41 -1.25 -6.57


CMS Supplementary
μ± / e± + jets
35.9 fb-1 (13 TeV)
Particle-level top quark |y|
Particle-level top quark |y|
Var((dσt / d|y|) / (dσt+t̄ / d|y|)) (10-4 units)
-2.46 1.58 0.29 -2.16 14.23
1.66 -0.24 0.03 8.19 -2.16
-0.94 1.86 5.72 0.03 0.29
-1.44 5.11 1.86 -0.24 1.58
8.86 -1.44 -0.94 1.66 -2.46


CMS Supplementary
μ± / e± + jets
35.9 fb-1 (13 TeV)
Particle-level lepton pT (GeV)
Particle-level lepton pT (GeV)
Var((dσt / dpT) / (dσt+t̄ / dpT)) (10-4 GeV-2)
-4.33 -3.70 1.43 -0.21 24.23
0.78 0.66 0.77 4.95 -0.21
-0.13 0.46 3.28 0.77 1.43
2.39 5.30 0.46 0.66 -3.70
8.08 2.39 -0.13 0.78 -4.33


CMS Supplementary
μ± / e± + jets
35.9 fb-1 (13 TeV)
Particle-level lepton |y|
Particle-level lepton |y|
Var((dσt / d|y|) / (dσt+t̄ / d|y|)) (10-4 units)
-1.31 -3.05 2.06 -0.48 40.48
1.71 0.61 0.46 12.19 -0.48
0.04 -2.12 4.55 0.46 2.06
0.46 5.70 -2.12 0.61 -3.05
3.83 0.46 0.04 1.71 -1.31


CMS Supplementary
μ± / e± + jets
35.9 fb-1 (13 TeV)
Particle-level W pT (GeV)
Particle-level W pT (GeV)
Var((dσt / dpT) / (dσt+t̄ / dpT)) (10-4 GeV-2)
13.24 0.43 -4.71 -1.84 96.95
3.29 -1.49 0.09 8.06 -1.84
-6.21 3.39 12.02 0.09 -4.71
-1.36 4.42 3.39 -1.49 0.43
12.67 -1.36 -6.21 3.29 13.24