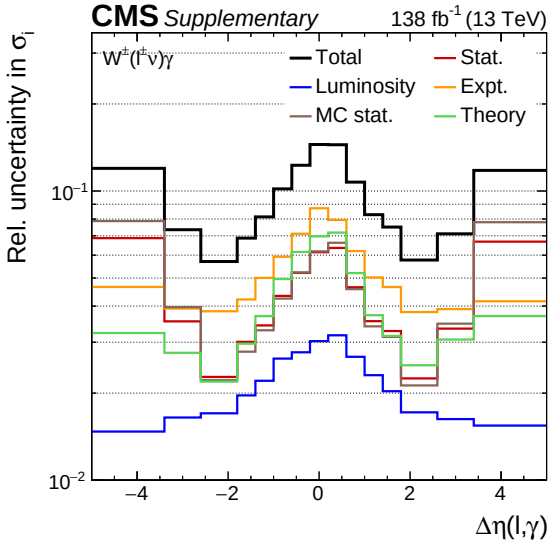
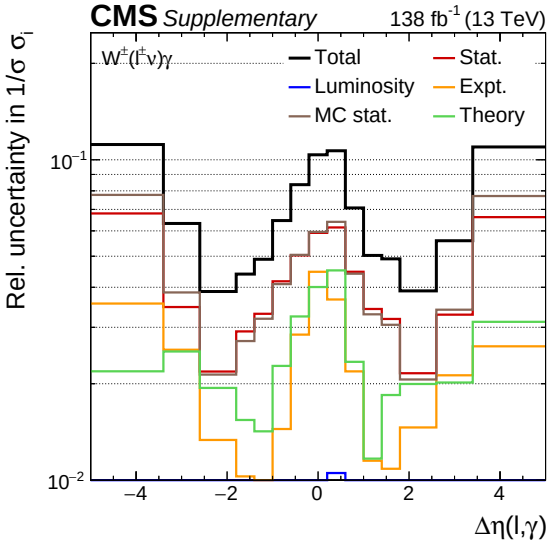
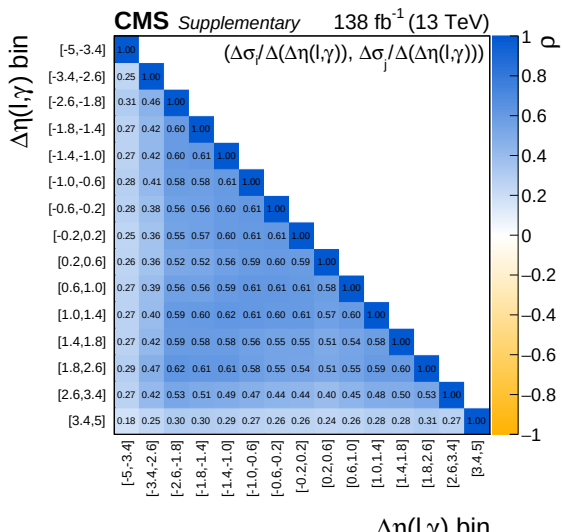
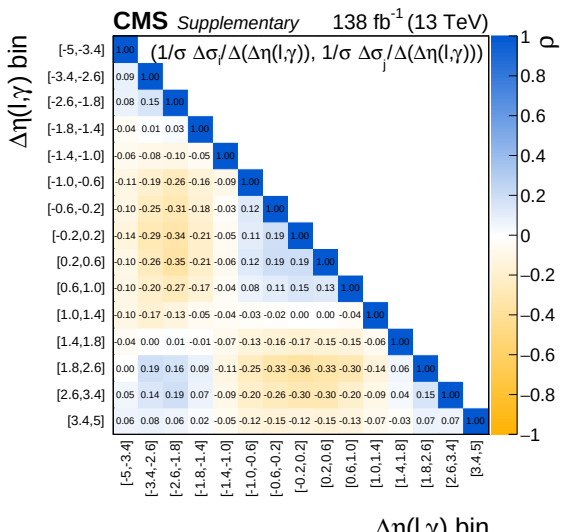

CMS Supplementary
138 fb^{-1} (13 TeV)
$W^{\pm}(l^{\pm}\nu)\gamma$
Total
Stat.
Luminosity
Expt.
MC stat.
Theory
Rel. uncertainty in σ_i
10^{-1}
10^{-2}
−4
−2
0
2
4
$\Delta\eta(l,\gamma)$


CMS Supplementary
138 fb^{-1} (13 TeV)
$W^{\pm}(l^{\pm}\nu)\gamma$
Total
Stat.
Luminosity
Expt.
MC stat.
Theory
Rel. uncertainty in $1/\sigma\ \sigma_i$
10^{-1}
10^{-2}
−4
−2
0
2
4
$\Delta\eta(l,\gamma)$


CMS Supplementary
138 fb^{-1} (13 TeV)
$(\Delta\sigma_i/\Delta(\Delta\eta(l,\gamma)),\ \Delta\sigma_j/\Delta(\Delta\eta(l,\gamma)))$
$\Delta\eta(l,\gamma)$ bin
[-5,-3.4] 1.00
[-3.4,-2.6] 0.25 1.00
[-2.6,-1.8] 0.31 0.46 1.00
[-1.8,-1.4] 0.27 0.42 0.60 1.00
[-1.4,-1.0] 0.27 0.42 0.60 0.61 1.00
[-1.0,-0.6] 0.28 0.41 0.58 0.58 0.61 1.00
[-0.6,-0.2] 0.28 0.38 0.56 0.56 0.60 0.61 1.00
[-0.2,0.2] 0.25 0.36 0.55 0.57 0.60 0.61 0.61 1.00
[0.2,0.6] 0.26 0.36 0.52 0.52 0.56 0.59 0.60 0.59 1.00
[0.6,1.0] 0.27 0.39 0.56 0.56 0.59 0.61 0.61 0.61 0.58 1.00
[1.0,1.4] 0.27 0.40 0.59 0.60 0.62 0.61 0.60 0.61 0.57 0.60 1.00
[1.4,1.8] 0.27 0.42 0.59 0.58 0.58 0.56 0.55 0.55 0.51 0.54 0.58 1.00
[1.8,2.6] 0.29 0.47 0.62 0.61 0.61 0.58 0.55 0.54 0.51 0.55 0.59 0.60 1.00
[2.6,3.4] 0.27 0.42 0.53 0.51 0.49 0.47 0.44 0.44 0.40 0.45 0.48 0.50 0.53 1.00
[3.4,5] 0.18 0.25 0.30 0.30 0.29 0.27 0.26 0.26 0.24 0.26 0.28 0.28 0.31 0.27 1.00
[-5,-3.4] [-3.4,-2.6] [-2.6,-1.8] [-1.8,-1.4] [-1.4,-1.0] [-1.0,-0.6] [-0.6,-0.2] [-0.2,0.2] [0.2,0.6] [0.6,1.0] [1.0,1.4] [1.4,1.8] [1.8,2.6] [2.6,3.4] [3.4,5]
$\Delta\eta(l,\gamma)$ bin
ρ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1


CMS Supplementary
138 fb^{-1} (13 TeV)
$(1/\sigma\ \Delta\sigma_i/\Delta(\Delta\eta(l,\gamma)),\ 1/\sigma\ \Delta\sigma_j/\Delta(\Delta\eta(l,\gamma)))$
$\Delta\eta(l,\gamma)$ bin
[-5,-3.4] 1.00
[-3.4,-2.6] 0.09 1.00
[-2.6,-1.8] 0.08 0.15 1.00
[-1.8,-1.4] -0.04 0.01 0.03 1.00
[-1.4,-1.0] -0.06 -0.08 -0.10 -0.05 1.00
[-1.0,-0.6] -0.11 -0.19 -0.26 -0.16 -0.09 1.00
[-0.6,-0.2] -0.10 -0.25 -0.31 -0.18 -0.03 0.12 1.00
[-0.2,0.2] -0.14 -0.29 -0.34 -0.21 -0.05 0.11 0.19 1.00
[0.2,0.6] -0.10 -0.26 -0.35 -0.21 -0.06 0.12 0.19 0.19 1.00
[0.6,1.0] -0.10 -0.20 -0.27 -0.17 -0.04 0.08 0.11 0.15 0.13 1.00
[1.0,1.4] -0.10 -0.17 -0.13 -0.05 -0.04 -0.03 -0.02 0.00 0.00 -0.04 1.00
[1.4,1.8] -0.04 0.00 0.01 -0.01 -0.07 -0.13 -0.16 -0.17 -0.15 -0.15 -0.06 1.00
[1.8,2.6] 0.00 0.19 0.16 0.09 -0.11 -0.25 -0.33 -0.36 -0.33 -0.30 -0.14 0.06 1.00
[2.6,3.4] 0.05 0.14 0.19 0.07 -0.09 -0.20 -0.26 -0.30 -0.30 -0.20 -0.09 0.04 0.15 1.00
[3.4,5] 0.06 0.08 0.06 0.02 -0.05 -0.12 -0.15 -0.12 -0.15 -0.13 -0.07 -0.03 0.07 0.07 1.00
[-5,-3.4] [-3.4,-2.6] [-2.6,-1.8] [-1.8,-1.4] [-1.4,-1.0] [-1.0,-0.6] [-0.6,-0.2] [-0.2,0.2] [0.2,0.6] [0.6,1.0] [1.0,1.4] [1.4,1.8] [1.8,2.6] [2.6,3.4] [3.4,5]
$\Delta\eta(l,\gamma)$ bin
ρ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1