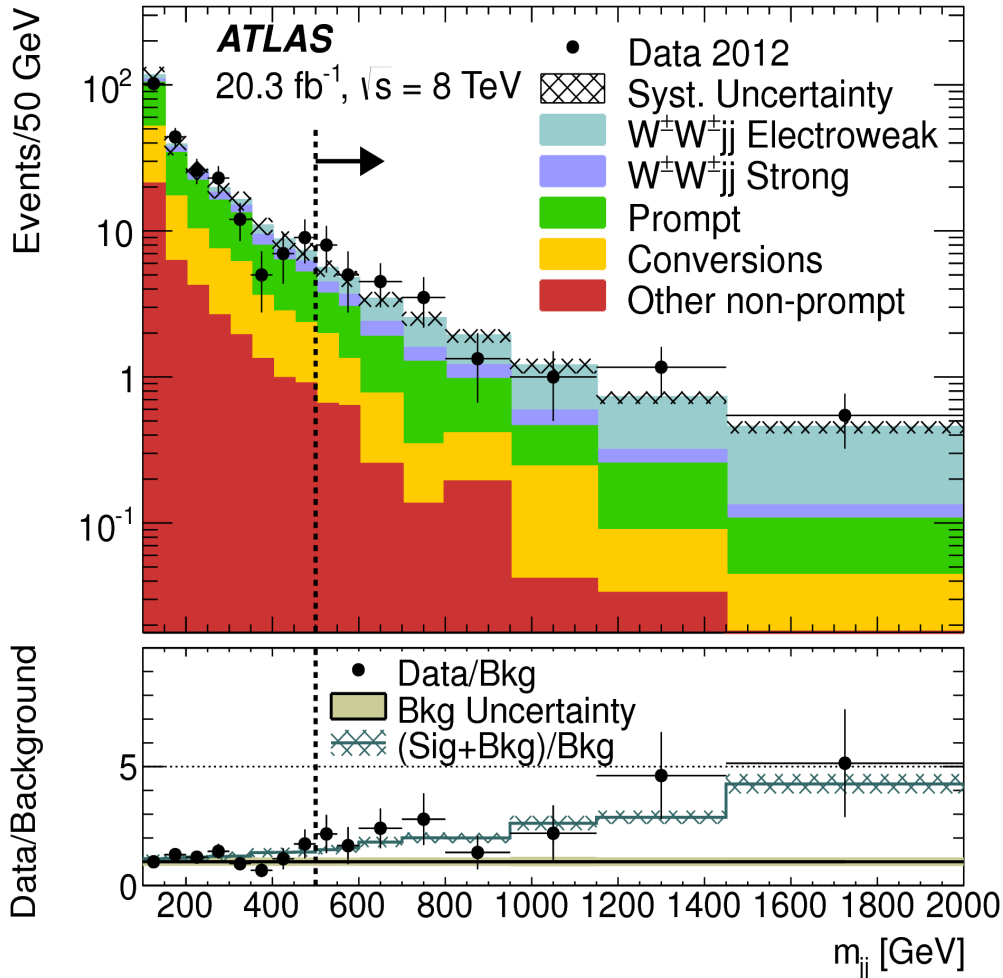


W[±]W[±]jj production – ATLAS

EW+QCD measurement (inclusive signal region)

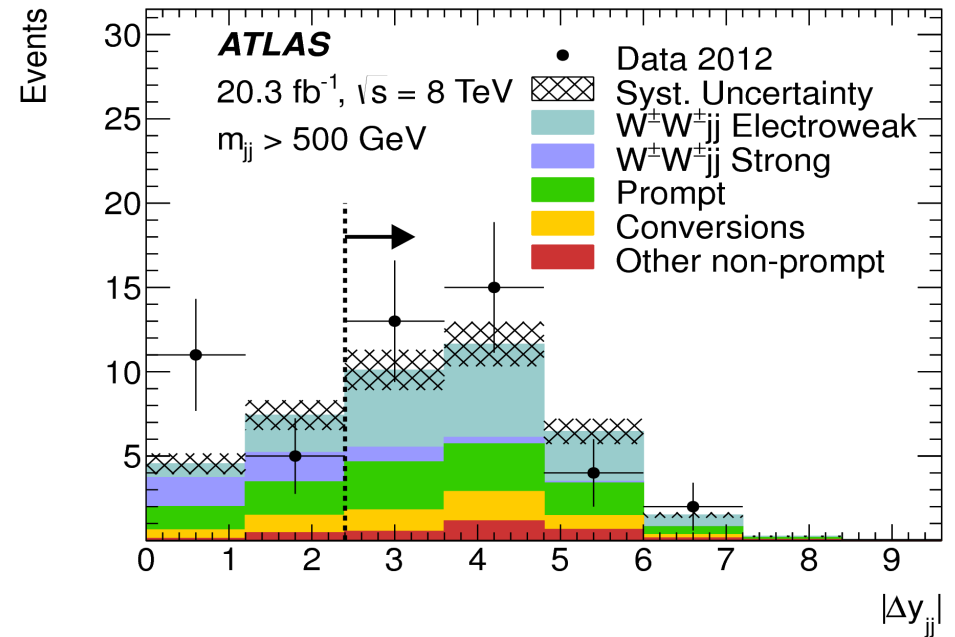
Invariant mass of the 2 “tagging” jets:



Measured fiducial cross section:
 $\sigma = 1.3 \pm 0.4(\text{stat}) \pm 0.2(\text{syst}) \text{ fb}$

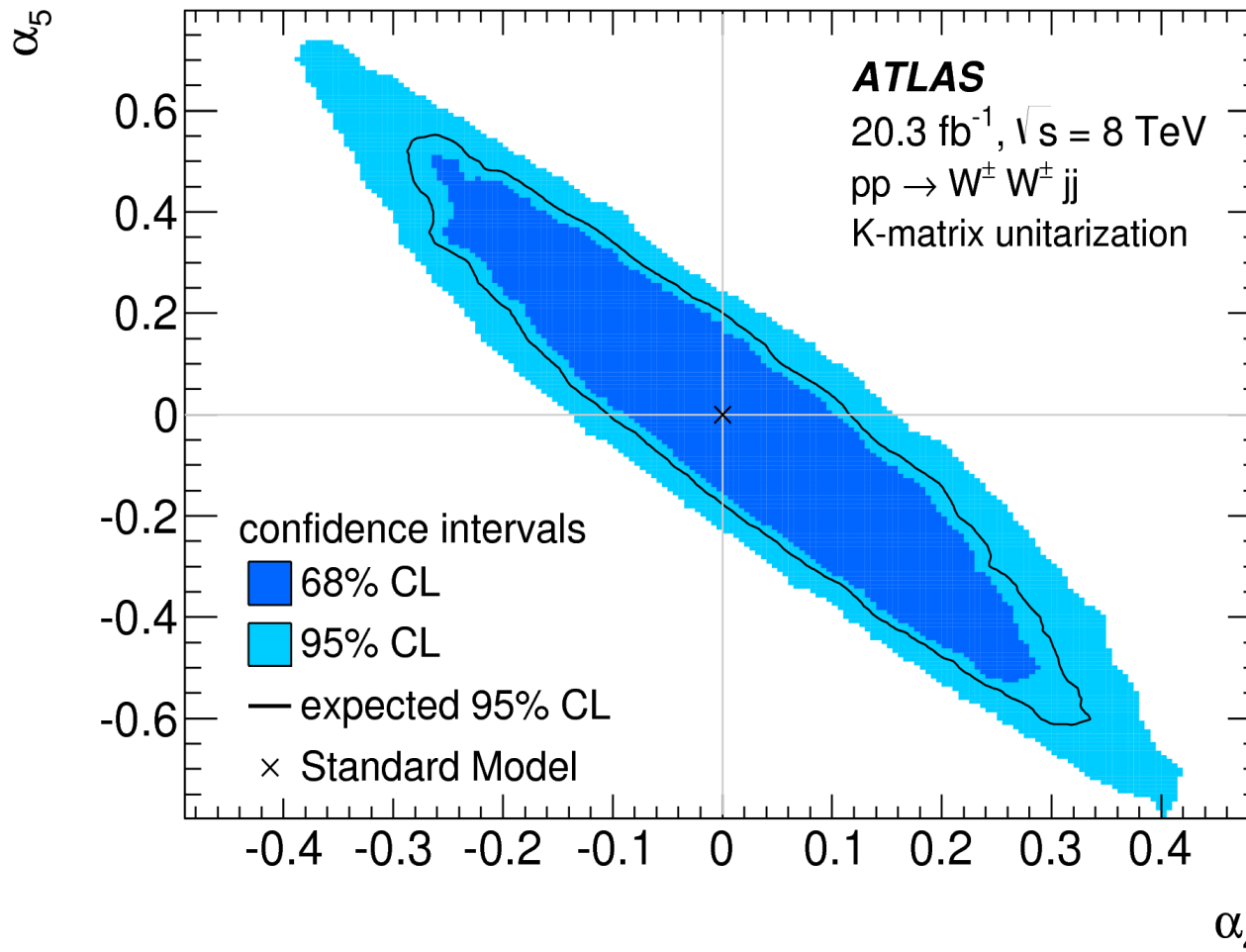
EW measurement (VBS signal region)

$|\Delta y_{jj}|$ between the 2 “tagging” jets:



Measured fiducial cross section:
 $\sigma = 2.1 \pm 0.5(\text{stat}) \pm 0.3(\text{syst}) \text{ fb}$

aQGC samples from Whizard+Pythia8 with K-matrix unitarization



1D 95% confidence intervals

observed:

$$-0.14 < \alpha_4 < 0.16$$

$$-0.23 < \alpha_5 < 0.24$$

expected:

$$-0.10 < \alpha_4 < 0.12$$

$$-0.18 < \alpha_5 < 0.20$$

$\hat{=}$ scale of new physics: $\Lambda > 500 - 650$ GeV (rule of thumb: $\Lambda = v/\sqrt{\alpha_i}$ [arXiv:1307.8170](#))