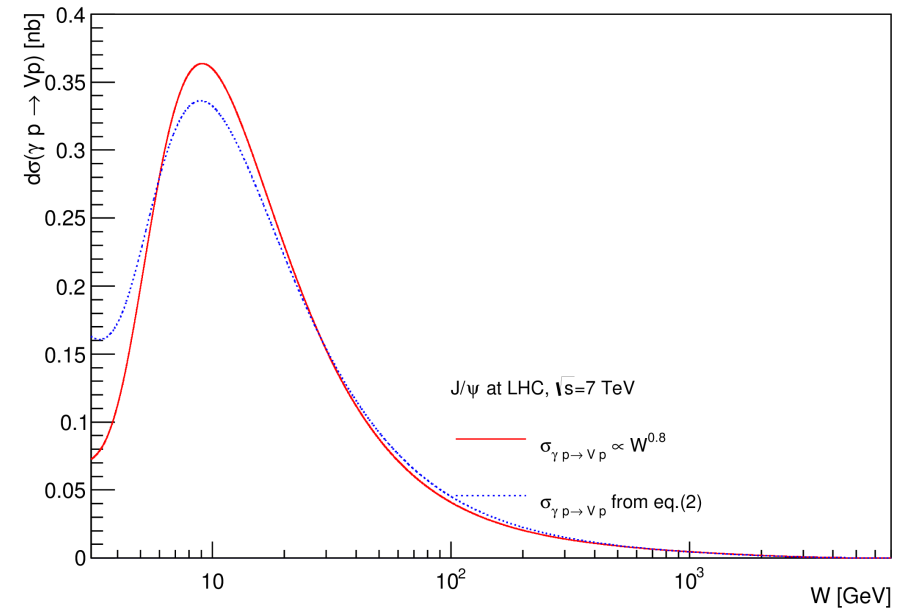
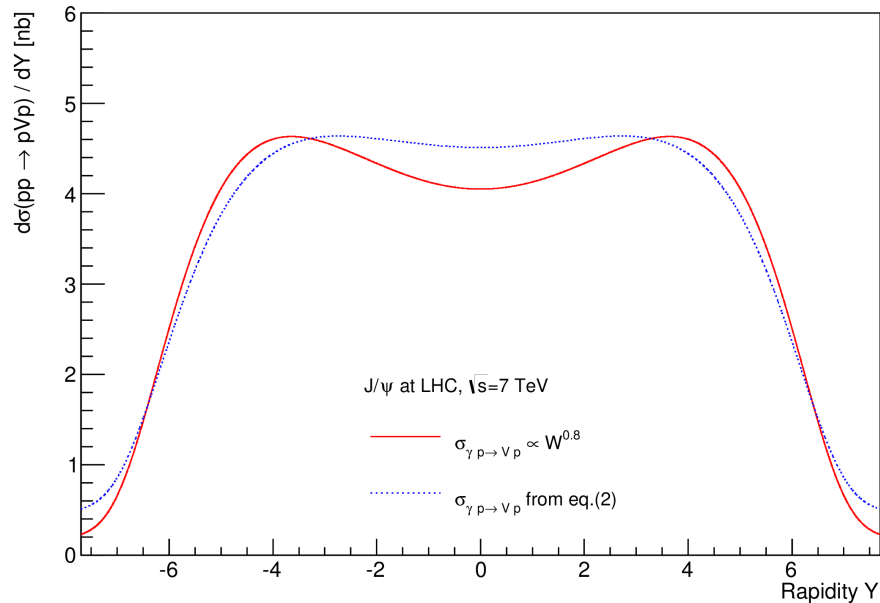


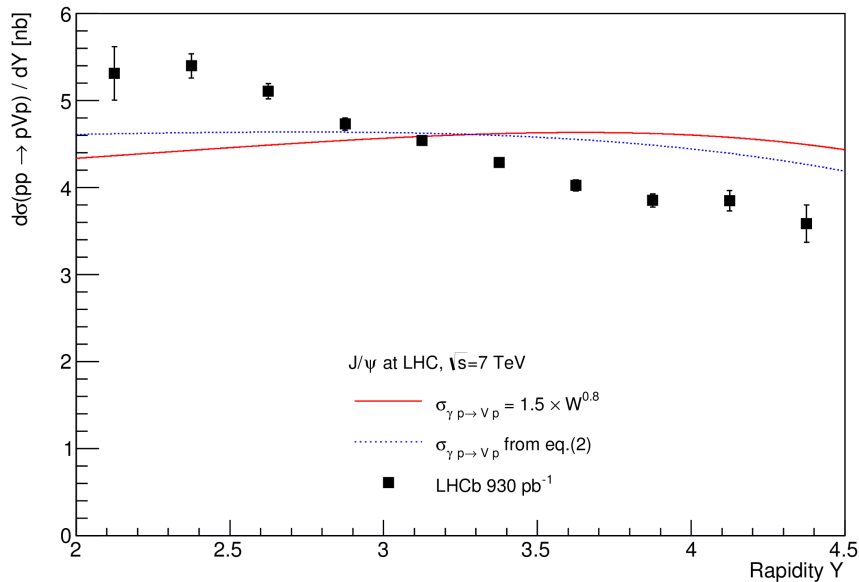
# Power law vs geometric model at LHC



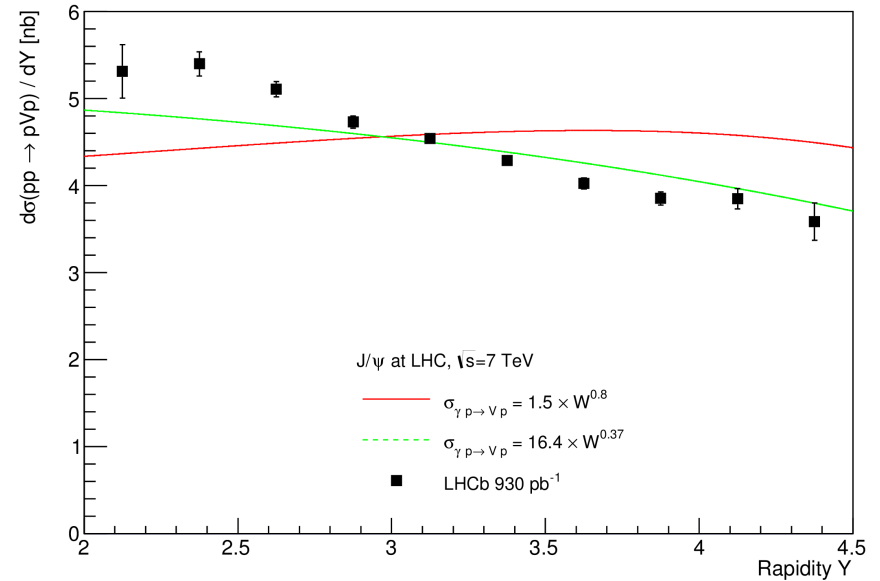
Generally similar behaviour

Power law is somewhat steeper in  $W \rightarrow$  more distinct bell-like structure in  $y$

# Adding LHCb rapidity cross section



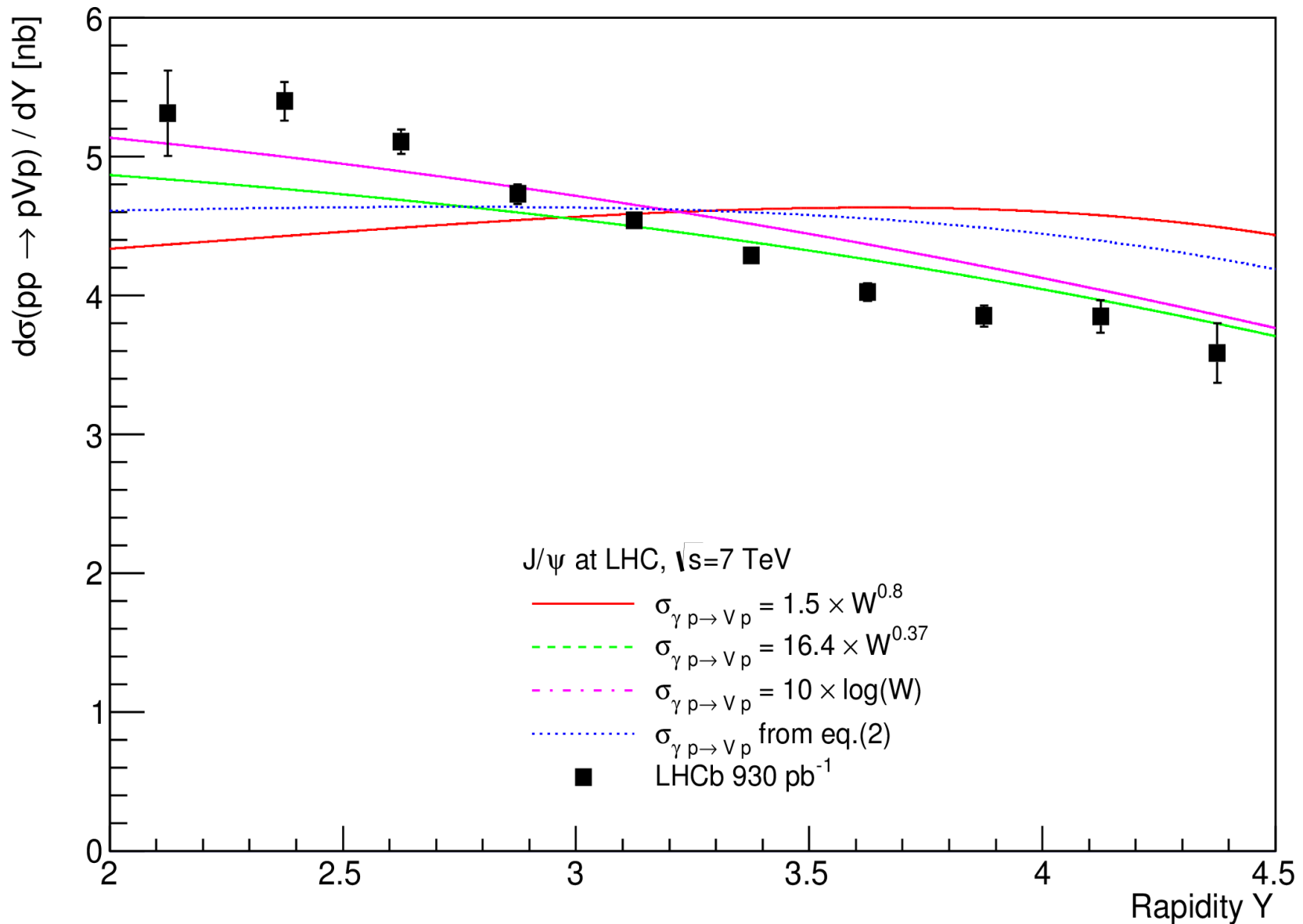
Both power law and geometric model are much flatter than the data



By fitting the power (and normalization) a much better description of data can be obtained (green curve)  
 However, power tends to be very small (0.37)  
 This contradicts **(yes or no?)** HERA

# Grand comparison

Here all available curves are summarized, also a logarithmic growth of the photon-proton cross section is shown



Logarithm describes data best