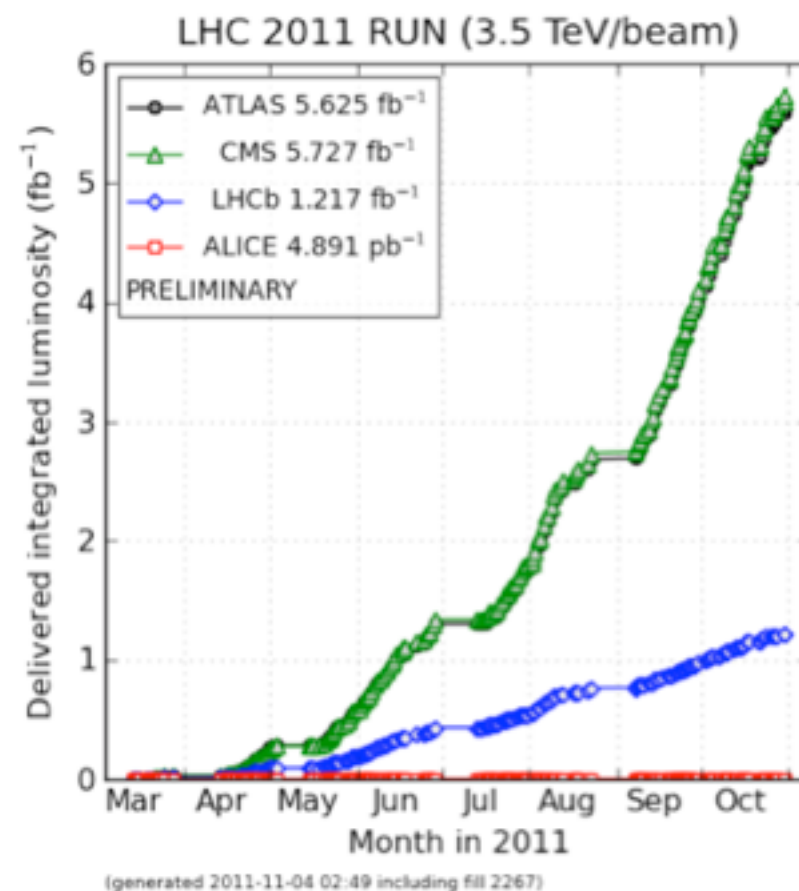


# Higgs searches at LHC

ATLAS and CMS talks at Lepton-Photon,  
22 Aug 2011, Mumbai, India,

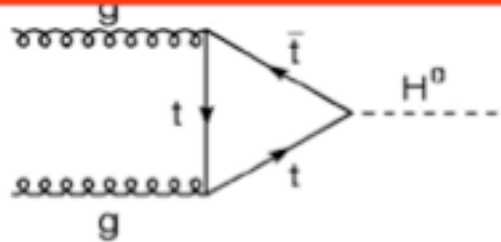


already outdated...

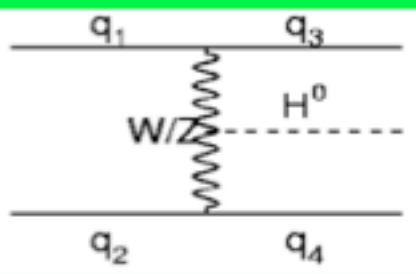
# SM Higgs production at the LHC



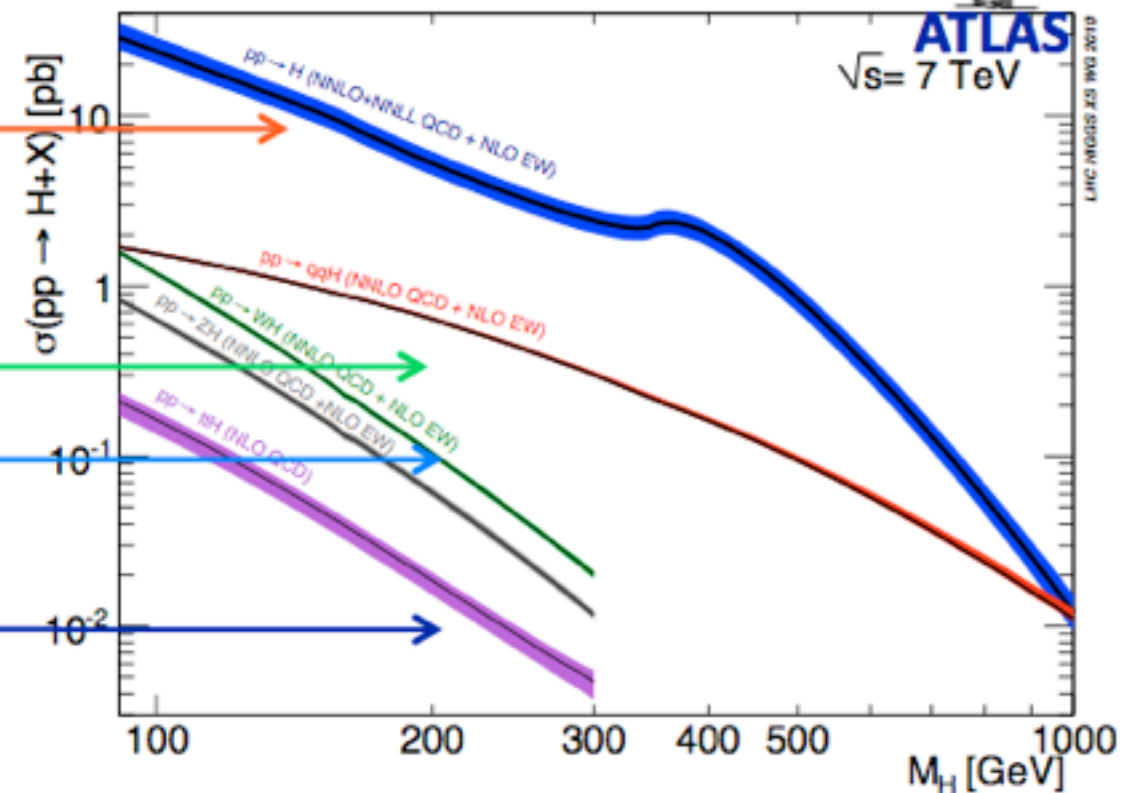
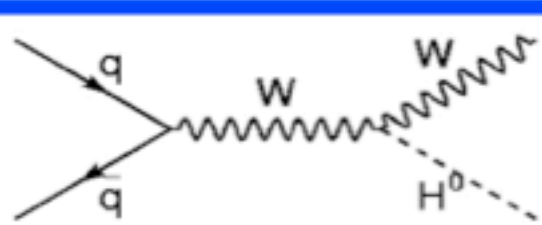
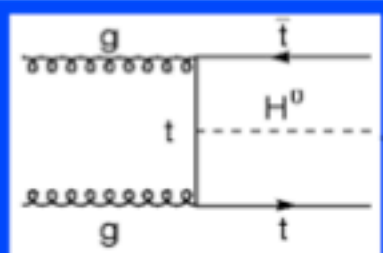
## Gluon Fusion $H \rightarrow WW, ZZ, \gamma\gamma$



## Vector Boson Fusion

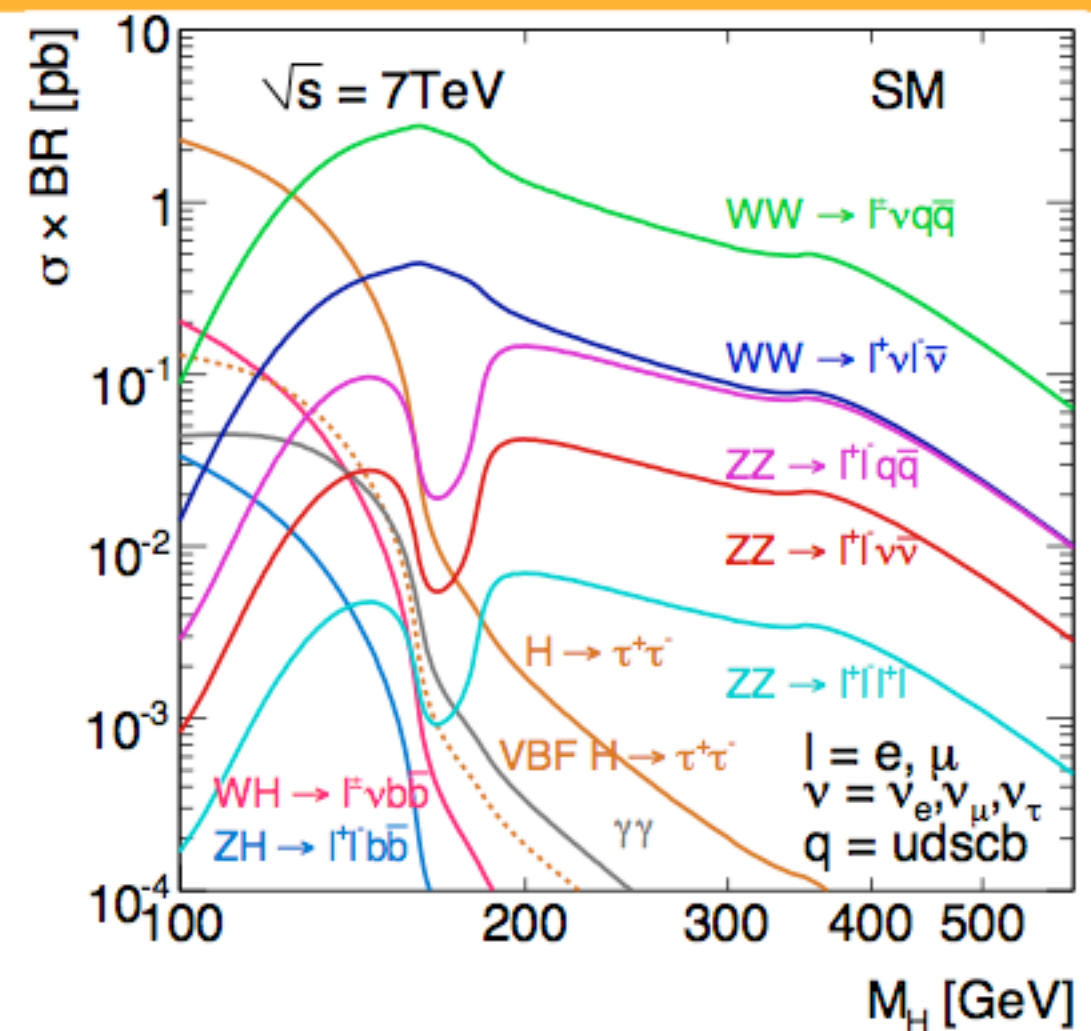
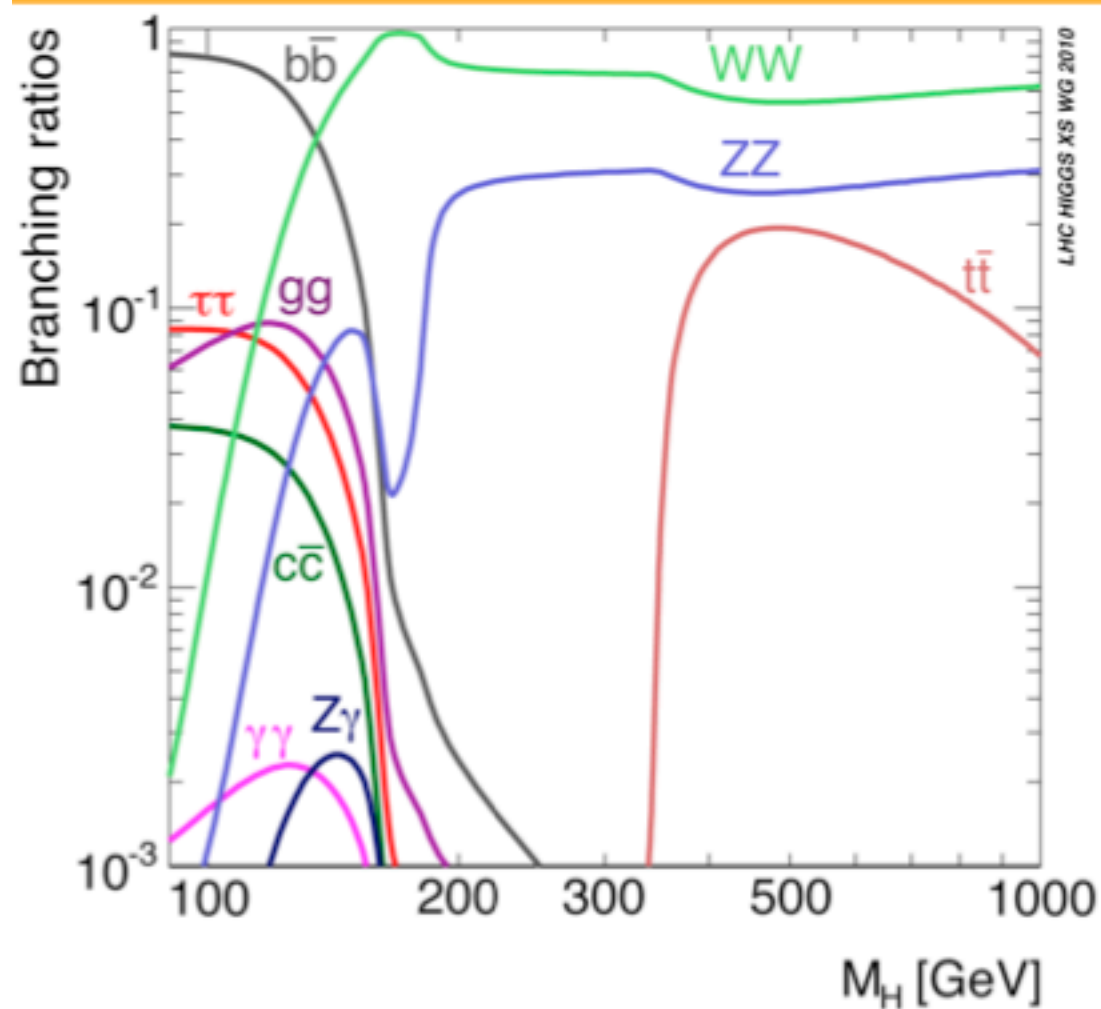


## Associated Production



current integrated luminosity  $\sim 5 \text{ fb}^{-1}$   
 for  $M_H \sim 120 \text{ GeV}$  we have produced  $\sim 100\,000$  Higgses!

# SM Higgs Decay Modes Vs Mass



# Summary Of All Searches : Expected & Observed

Solid line = Observed limit ; Dashed line = Median Expected

