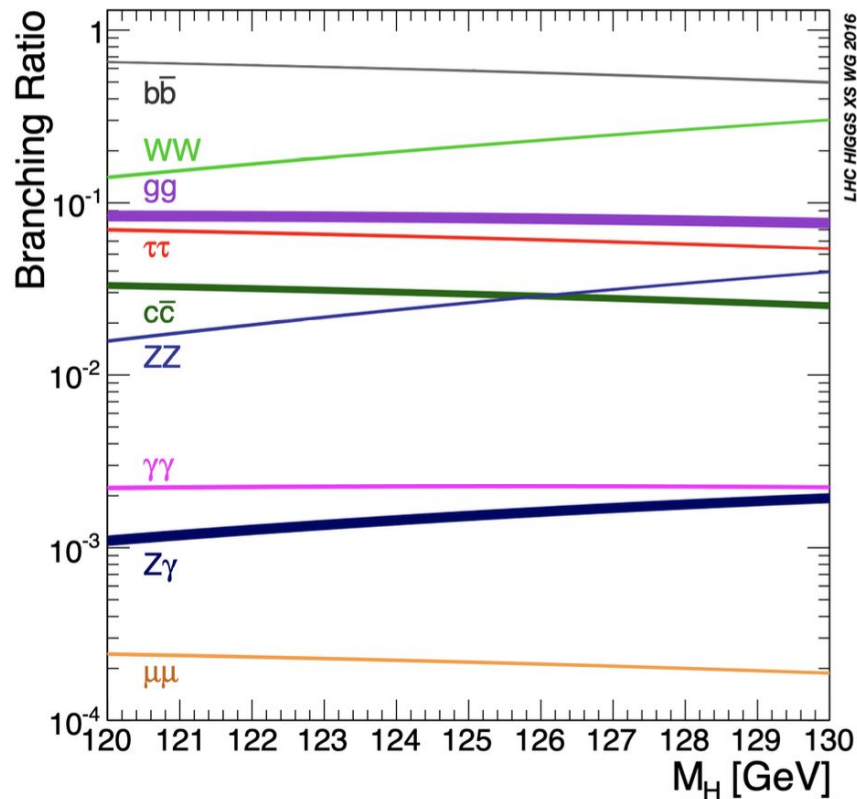
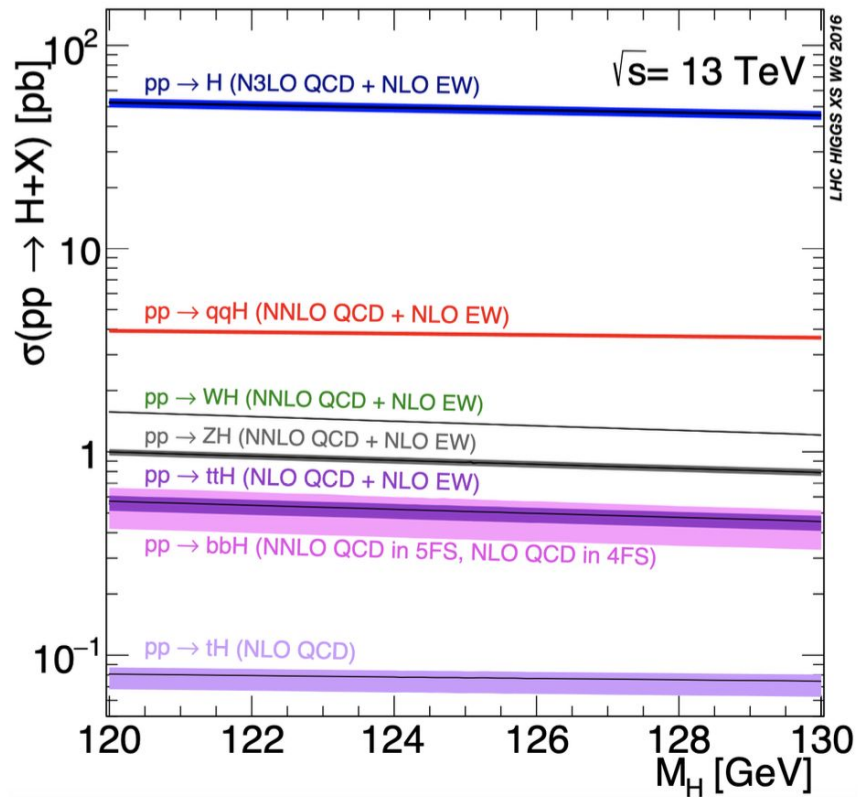
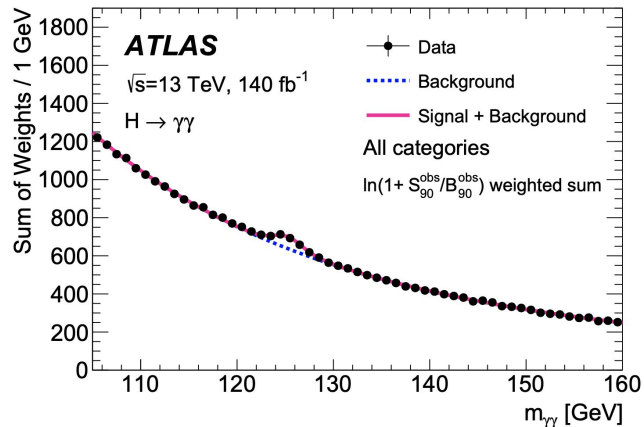
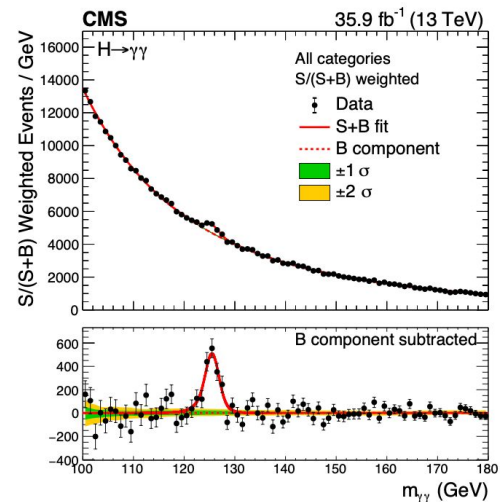
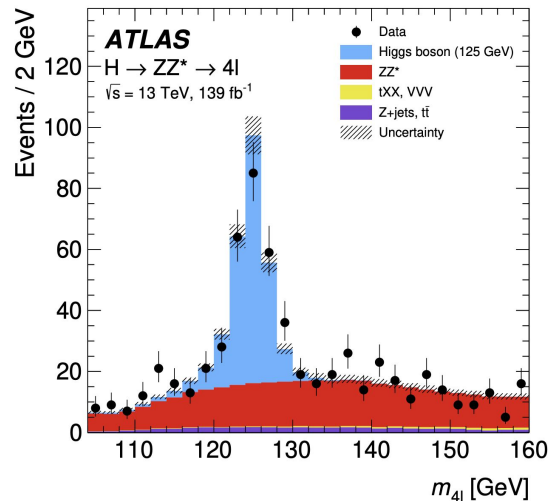
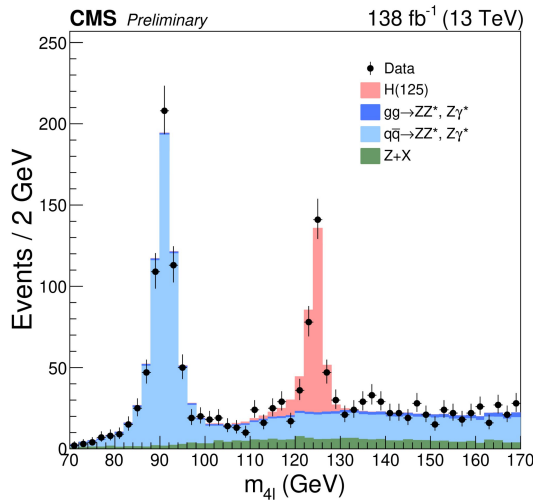

Higgs boson mass measurements in ATLAS and CMS

Haider Abidi (ATLAS, BNL)
Filippo Errico (CMS, INFN Roma)



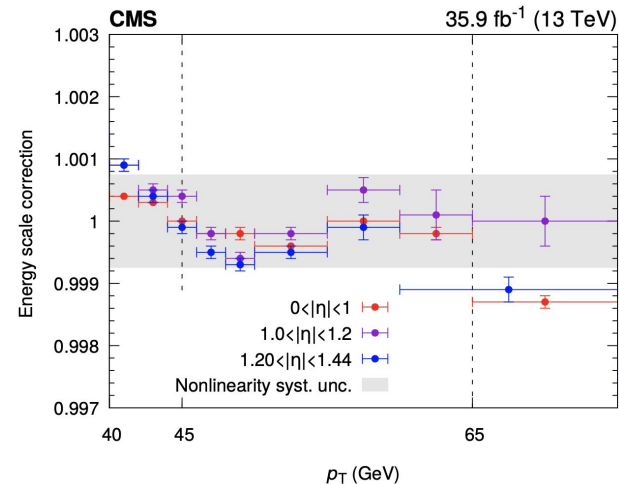
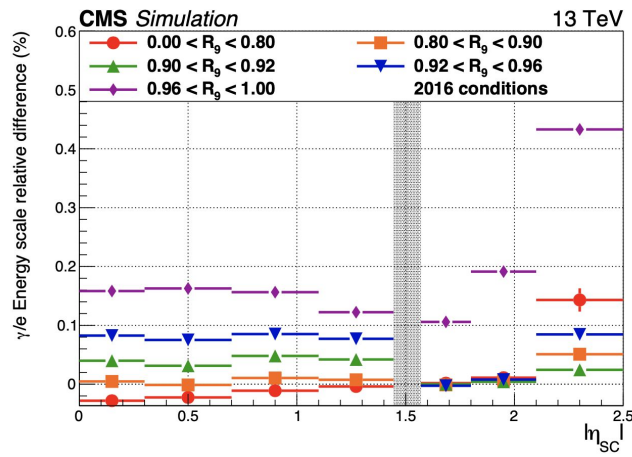


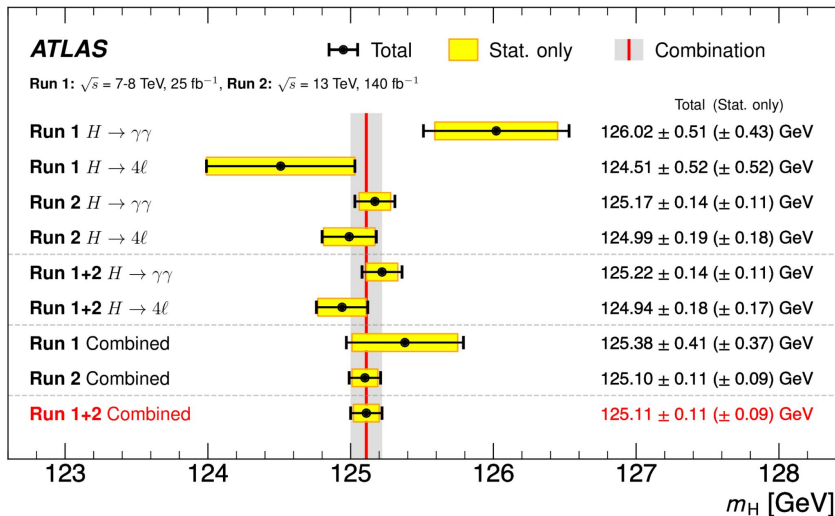
ATLAS H_{γγ}

Source	Impact [MeV]
Photon energy scale	83
$Z \rightarrow e^+e^-$ calibration	59
E_T -dependent electron energy scale	44
$e^\pm \rightarrow \gamma$ extrapolation	30
Conversion modelling	24
Signal-background interference	26
Resolution	15
Background model	14
Selection of the diphoton production vertex	5
Signal model	1
Total	90

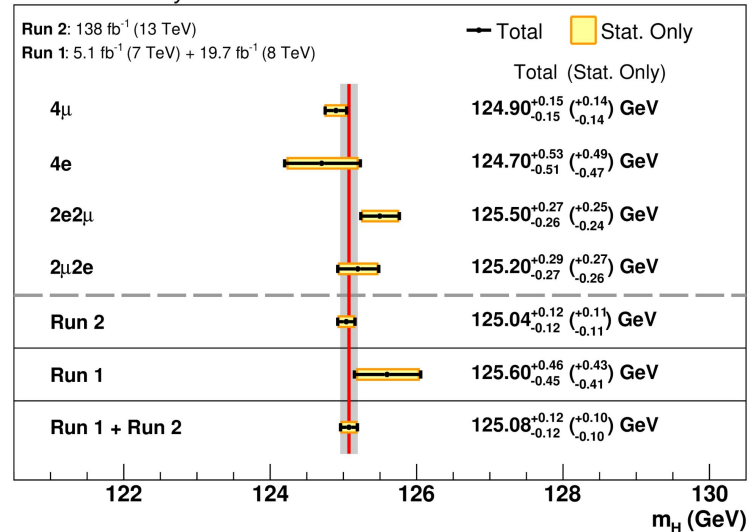
CMS H_{γγ}

Source	Contribution (GeV)
Electron energy scale and resolution corrections	0.10
Residual p_T dependence of the photon energy scale	0.11
Modelling of the material budget	0.03
Nonuniformity of the light collection	0.11
Total systematic uncertainty	0.18
Statistical uncertainty	0.18
Total uncertainty	0.26

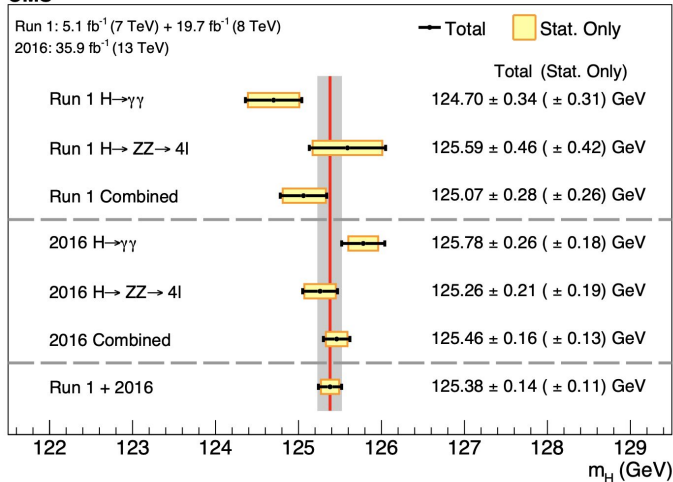




CMS Preliminary



CMS



Partial Dataset - 2016