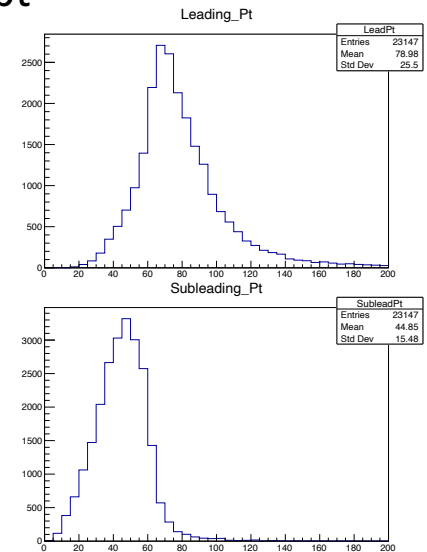


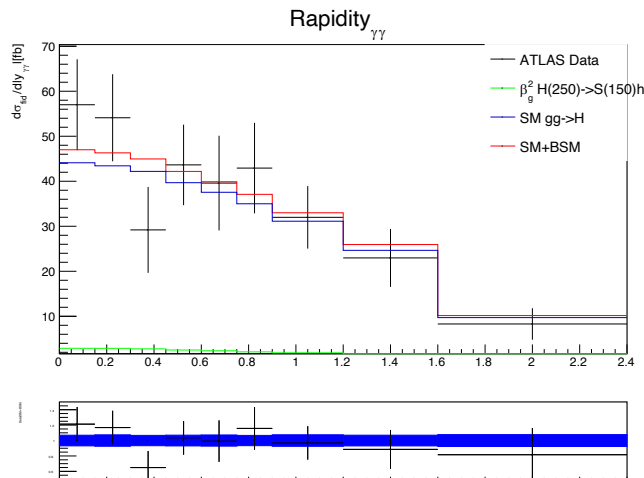
H->Sh Cutflow

cutflow	efficiency
At least 2 photons&&photon refer to 1 particles	0.96658
$105 < m_{\gamma\gamma} < 160$	0.67904
$120 < m_{\gamma\gamma} < 130$	0.6716
$\sum pt/pt^\gamma < 0.05$	0.65026
$ \eta < 2.37$ excluding $1.37 < \eta < 1.52$	0.46294
$pt_{\gamma\gamma}/m_{\gamma\gamma} > 0.35, 0.25$	0.373
Truth photons match to PID=22, Status=1, eta acceptance	0.3699

Diphoton pt



ATLAS 139/fb H->γγ observation

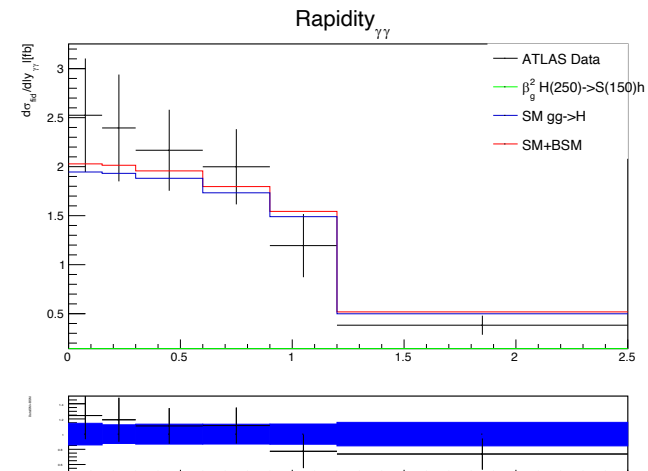


Best fit $\beta_g^2 = 0.357$

BSM xsec is normalized to $\sigma(H \rightarrow Sh) * Br_{Higgs} * \epsilon_{selection} = 10.46\text{fb}$ or 0.573

Summary : fit results seem reasonable, will go to fit to more data

CMS 137/fb H->ZZ*->4l observation



$\beta_g^2 = 0.186$

Summary

fit results seem reasonable, will go to fit to more data

OTP: finished 2; next shift : this Thursday