

Weekly Meeting

Qi Li

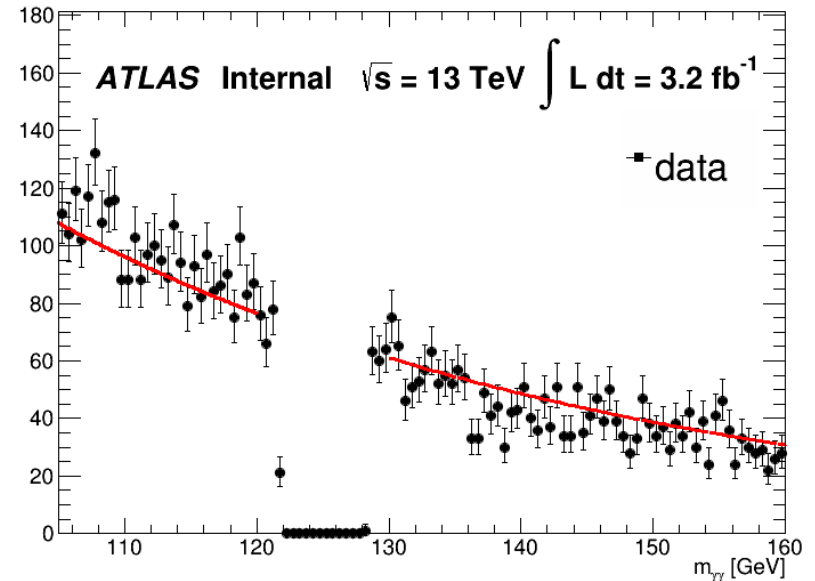
6/6/2016

Status of Samples

- All the resonant production: submitted today
- SM Higgs samples: finished for MC15c
- Other samples: reprocessing to MC15c

Continuum background

- Release, 20.7
- 2016 data, 4 sideband
- 2015 data, 14 sideband
- $\epsilon_{m_{\gamma\gamma}}^{sb} = 13.74\%$
- $N_{sb}^{continuum} = 2.8$

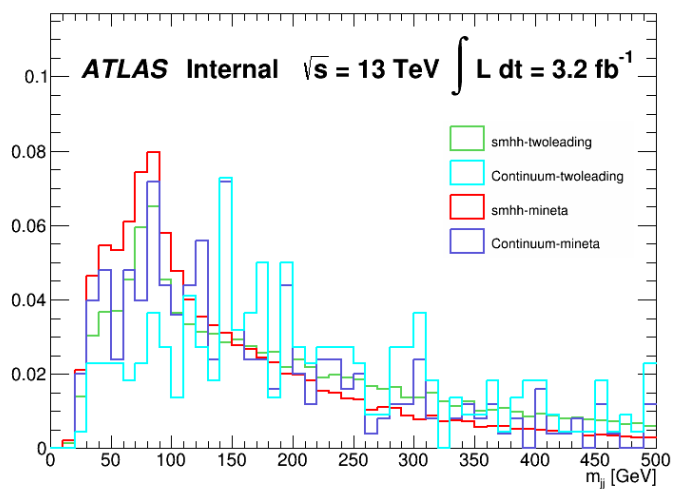


SM Higgs Background

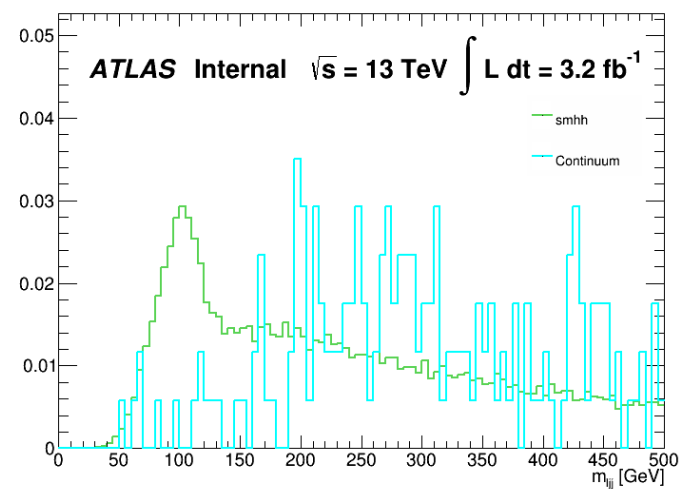
Mode	ggh	VBF	Wh	Zh	tth
Yields-MC15c	0.0033	0.0025	0.068	0.024	0.071
Yields-MC15a	Negligible	Negligible	0.078	0.018	0.054

m_{jj} & m_{ljj}

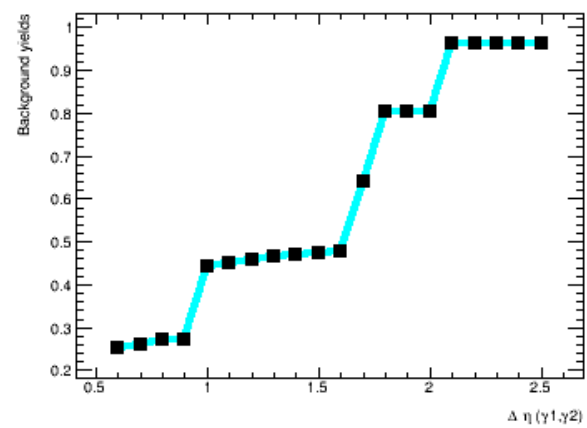
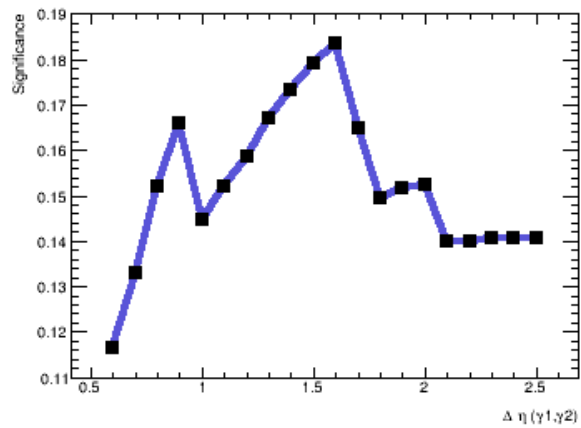
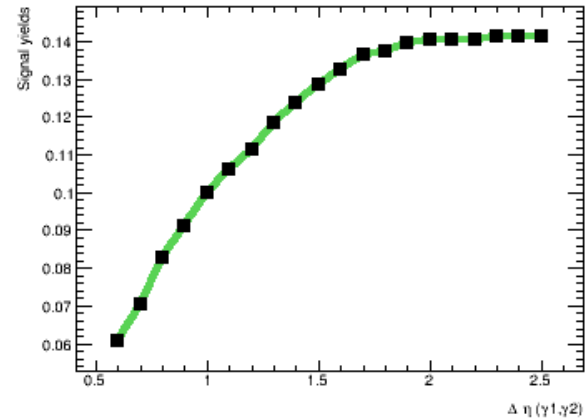
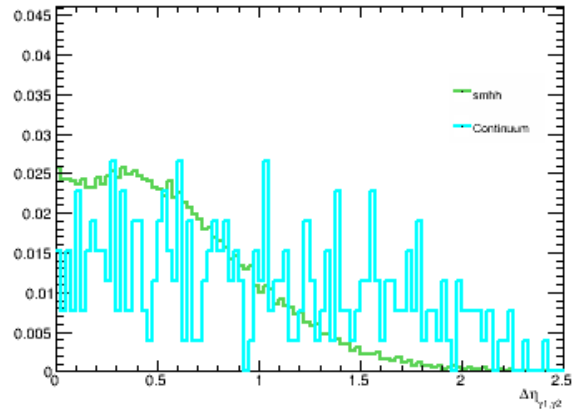
m_{jj}



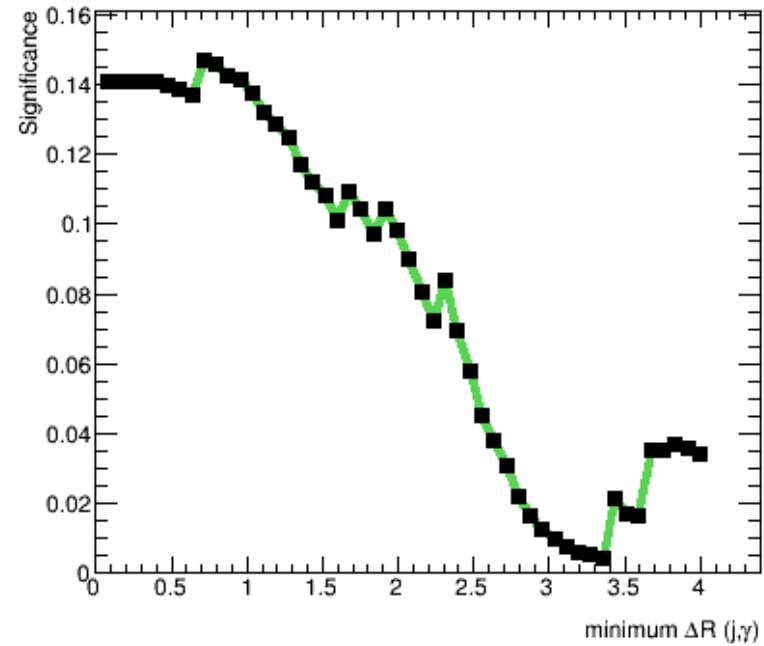
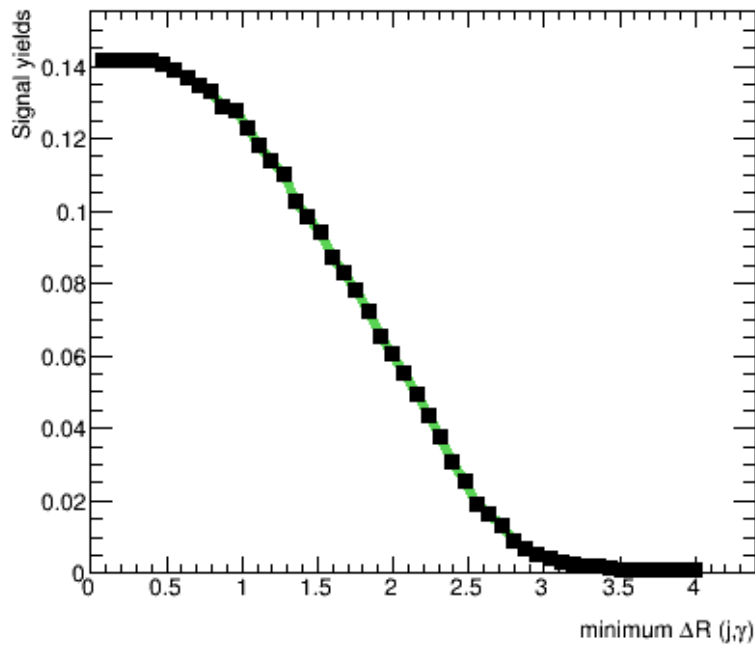
m_{ljj}



$$\Delta\eta(\gamma 1, \gamma 2)$$



minimum $\Delta R(j, \gamma)$



MET Significance

