

Weekly report

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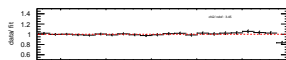
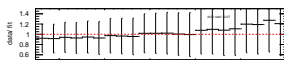
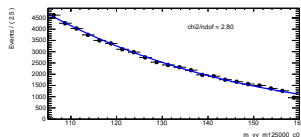
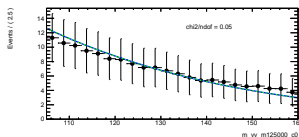
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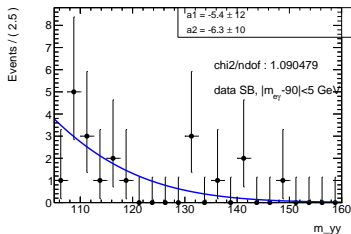
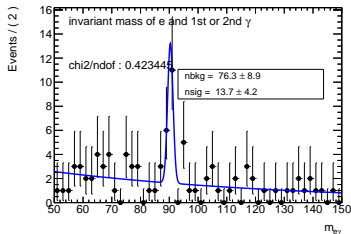
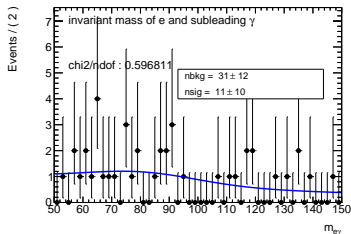
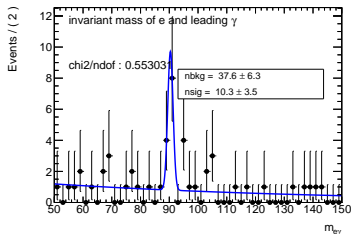
Update the note

- Spurious signal
- The purity in CR is 85% and 88% in SR, so the difference may not be from the purity.

Mass	N_{SS}	$\text{Max}(N_{SS}/\Delta S)$	$\text{Max}(ss/S_{ref})$
$m_H = 260\text{GeV}$	-3.11994	-0.591051	-6.03399
$m_H = 300\text{GeV}$	-3.14899	-0.589932	-5.53628
$m_H = 400\text{GeV}$	-0.398046	-0.169399	-0.516232
$m_H = 500\text{GeV}$	-0.395486	-0.172747	-0.460771
non-resonant	-0.402366	-0.174128	-0.497784



- estimate the yield and shape of $Z\gamma$ events from data sideband.



sampleName	isPassed HGam VBF	isPassed HGam VHhad	isPassed Hbb 0lep	isPassed Hbb 1lep	isPassed Hbb 2lep pT V _l 150	isPassed Hbb 2lep pT V _l 150
270 140 bb	2.08107	0	0	2.08107	20.8107	0
270 150 bb	0	20.8107	0	20.8107	83.2426	0
270 160 bb	0	0	0	0	0	0
WlvH bb	0	0	25.9592	144.699	0	0
ZllH bb	0	0	0.724211	3.53053	53.4106	13.3979
ZvvH bb	0	0	92.0872	0	0	0
270 140 gamgam	3.61824	0.246698	0	0	0.164466	0
270 150 gamgam	3.37154	1.89135	0	0	0.411164	0
270 160 gamgam	3.78271	3.12484	0	0	0.328931	0
WH gamgam	0.501332	3.79097	0	0	0	0
ZH gamgam	0.250226	2.73798	0	0	0	0
ttH gamgam	0.198037	0.479458	0.0166768	0.116738	0.0166768	0
ttH nonhad bb	0	0	0.360062	2.8805	1.28594	0.0514374
VBF bb	0	0	0	0	0	0
VBF gamgam	42.7447	0.590439	0	0	0	0