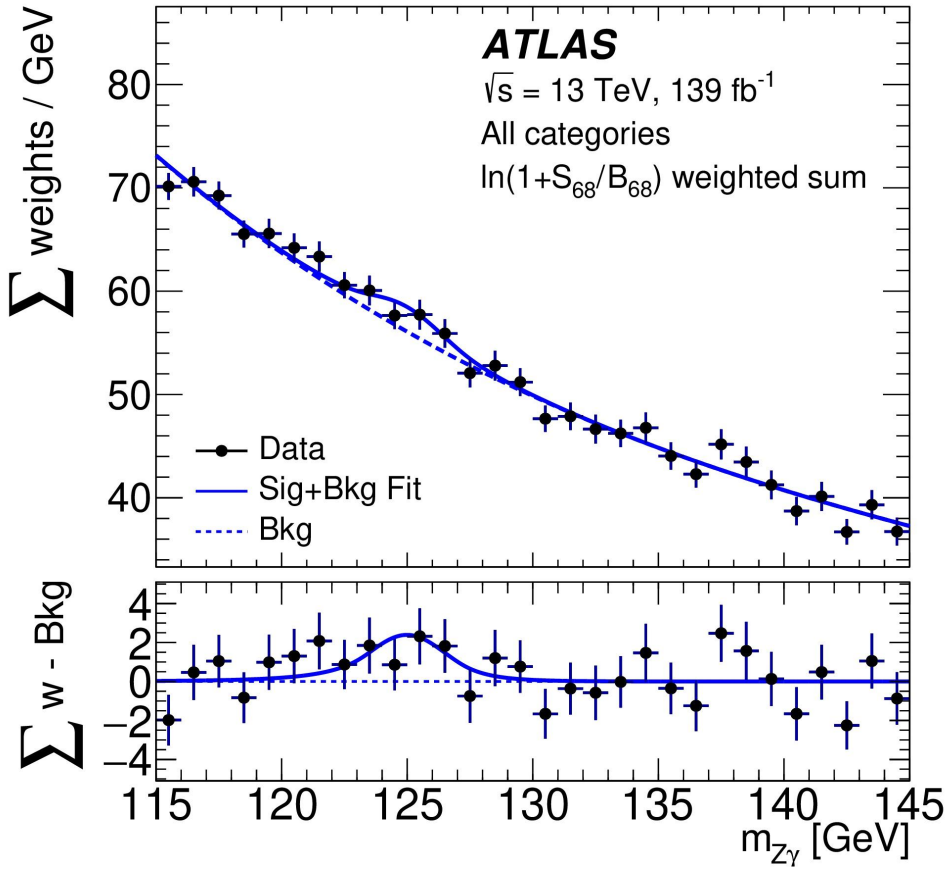

115.527579560367	70.129166666667	130.517962598425	47.656250000000
116.512036581365	70.608333333333	131.521981627297	47.847916666667
117.515399442257	69.266666666667	132.505720964567	46.650000000000
118.517737040682	65.529166666667	133.509473425197	46.218750000000
119.521694553806	65.577083333333	134.513656496063	46.793750000000
120.525036909449	64.187500000000	135.496739665354	44.062500000000
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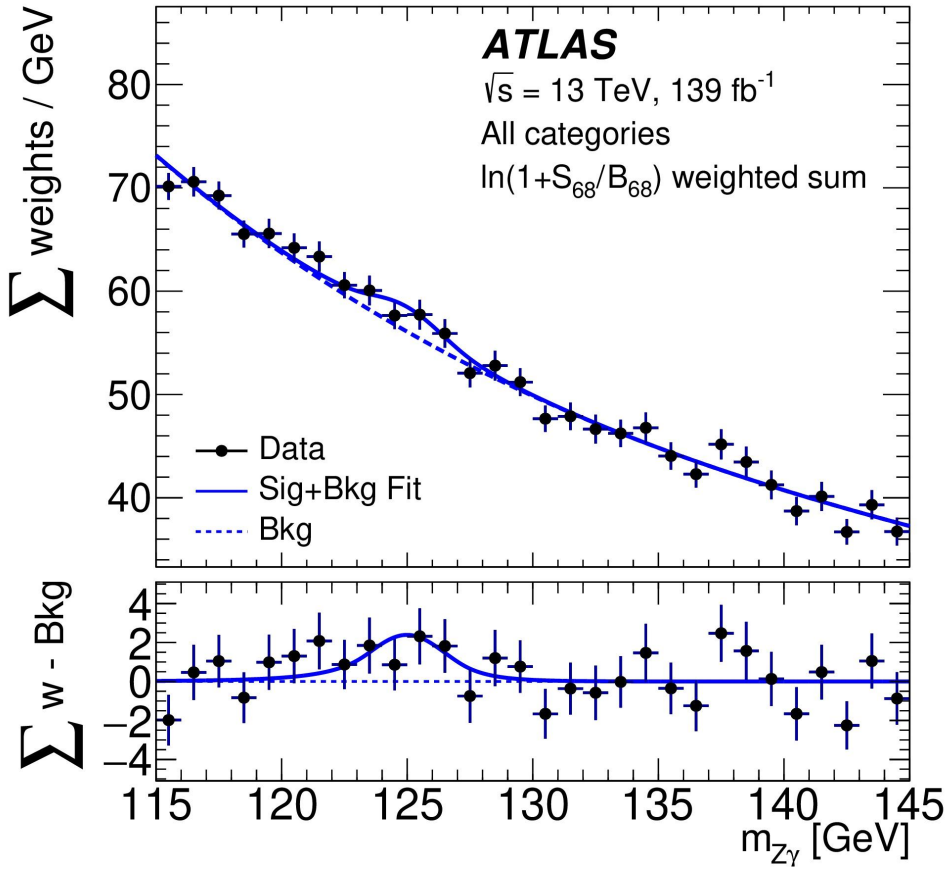
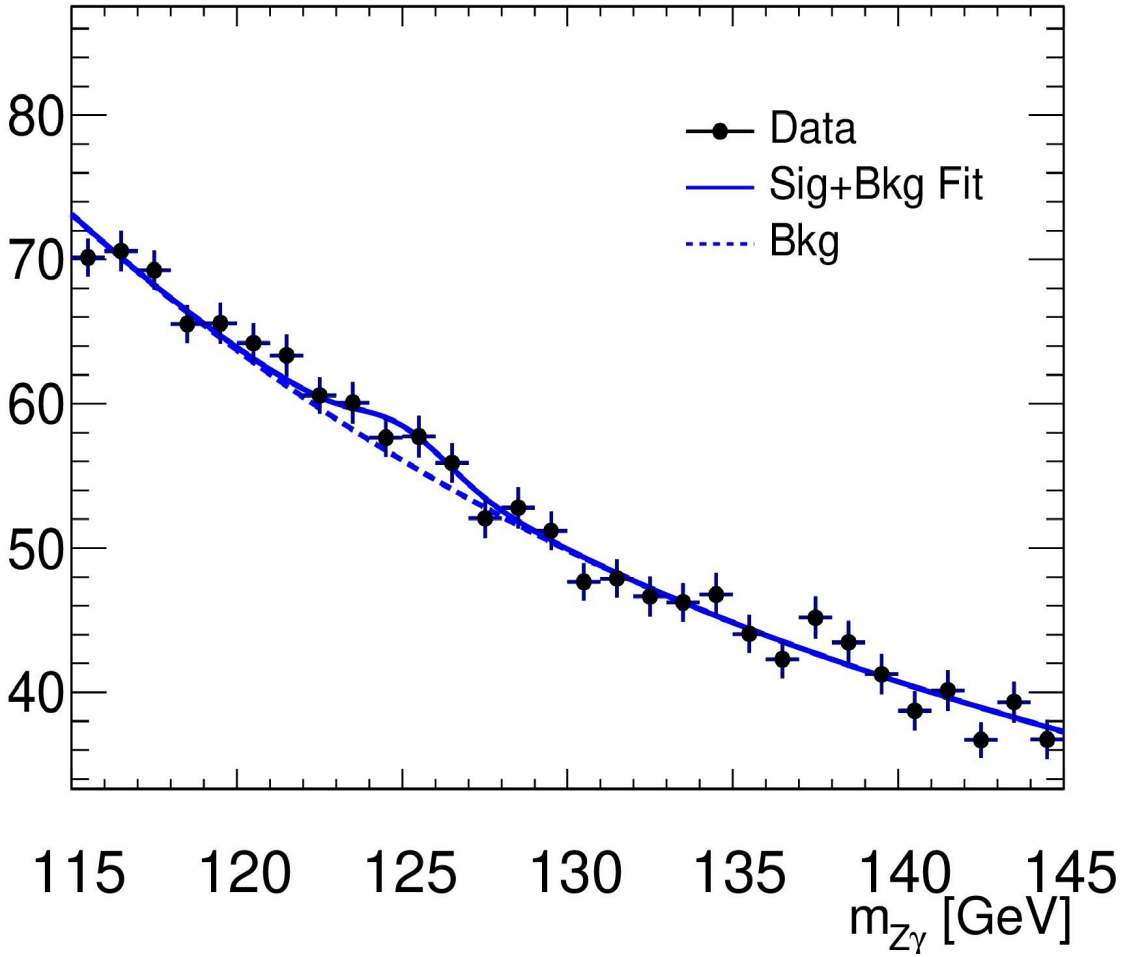
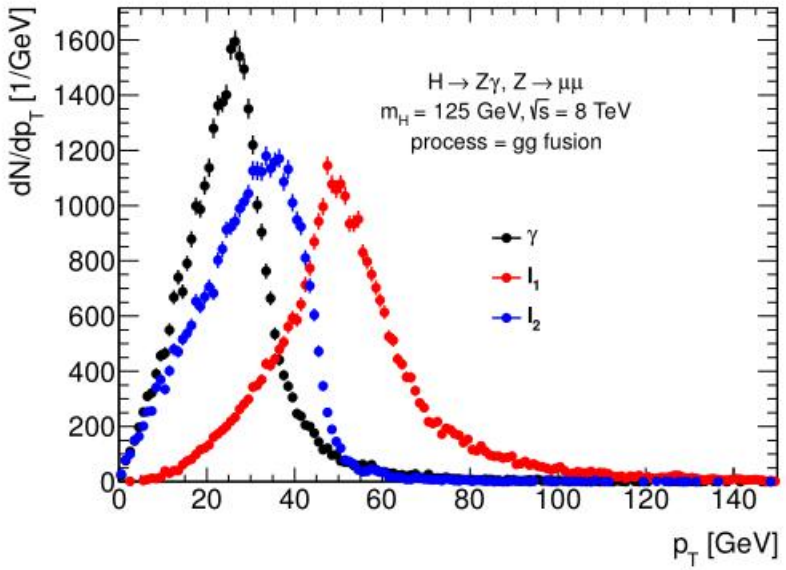
122.511667486877	60.545833333333	137.505085301837	45.164583333333
123.515399442257	60.066666666667	138.508284120735	43.439583333333
124.518311187664	57.670833333333	139.511277887139	41.235416666667
125.522268700787	57.718750000000	140.514128116798	38.695833333333
126.505720964567	55.850000000000	141.518680282152	40.133333333333
127.508038057743	52.064583333333	142.501455872703	36.683333333333
128.512303149606	52.831250000000	143.506520669291	39.318750000000
129.515542979003	51.202083333333	144.509350393701	36.731250000000

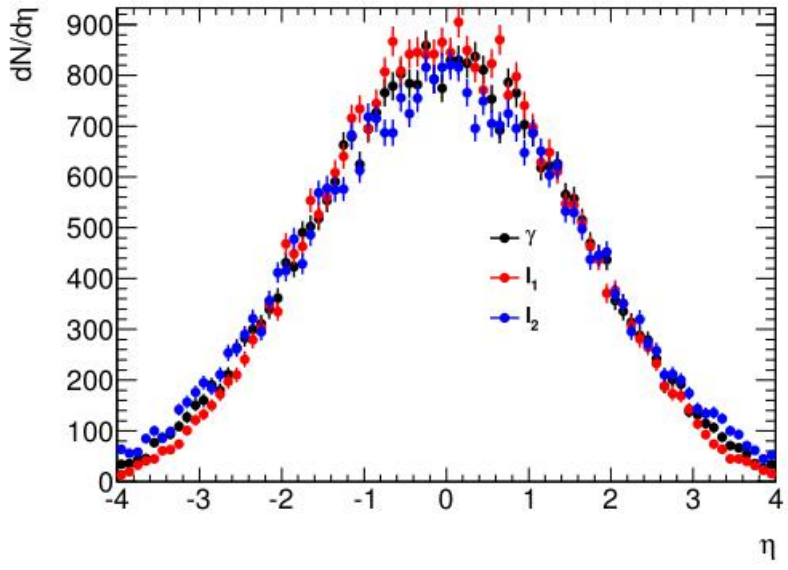

ATLAS
√s = 13 TeV, 139 fb-1
All categories
ln(1+S68/B68) weighted sum
Data
Sig+Bkg Fit
Bkg
∑ weights / GeV
∑ w - Bkg
mZγ [GeV]


Data
Sig+Bkg Fit
Bkg
mZγ [GeV]

Thesis

The decay of the Higgs boson to a Z boson and a photon, H → Zγ, is a rare process in the Standard Model, with a production cross section times branching ratio of σ × BR = 26.72 (34.08) fb at √ s = 7 TeV (8 TeV) for m_H = 125 GeV.





Based on the simulation of the SM Higgs boson signal events at √ s =8 TeV, a few kinematic distributions of the l l γ final states.

Next

Change the integral photometric L and get σ corresponding to different integrated luminosity

$139fb^{-1} \rightarrow 200fb^{-1}$ /$300fb^{-1}$ ...

2.2σ ?σ