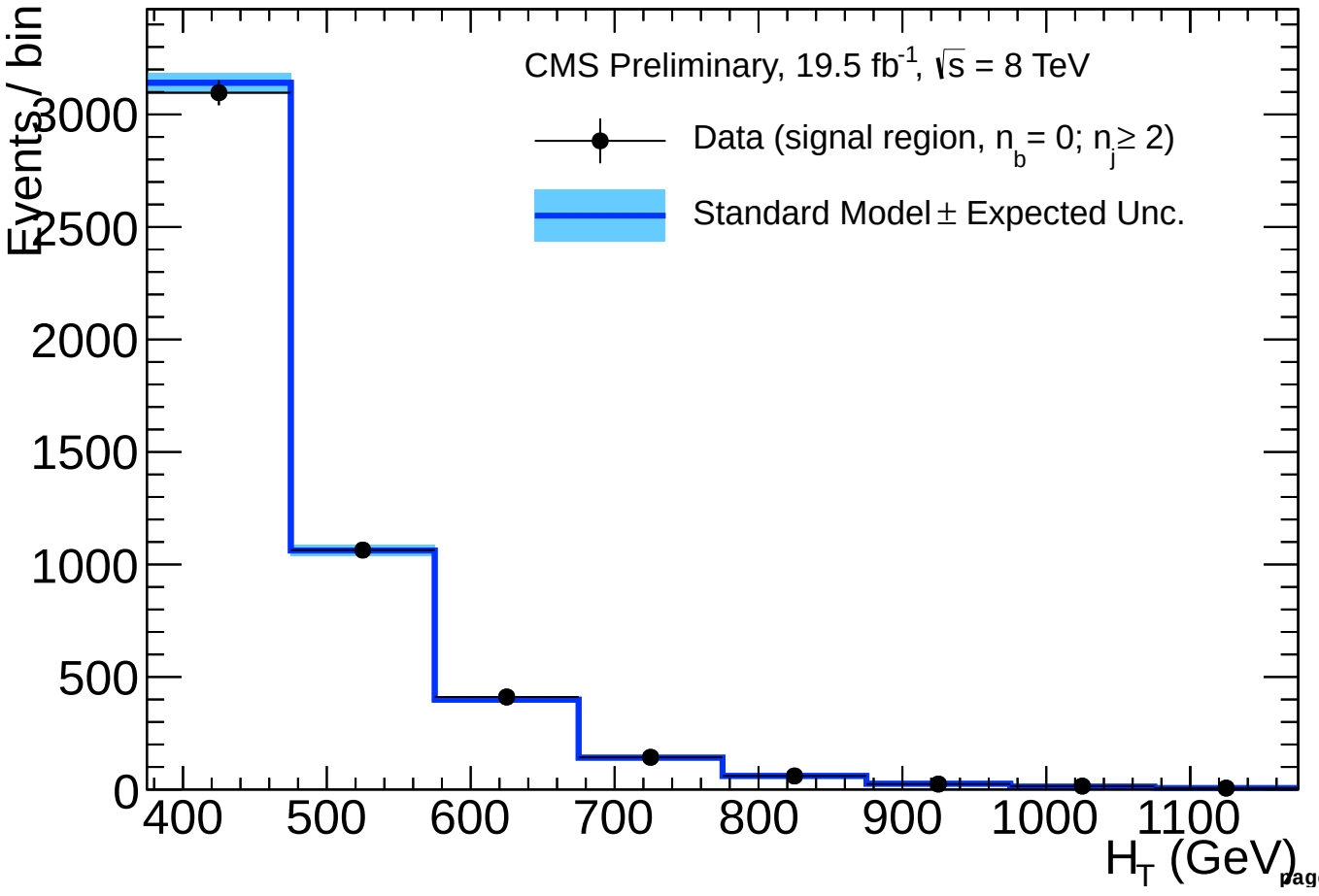
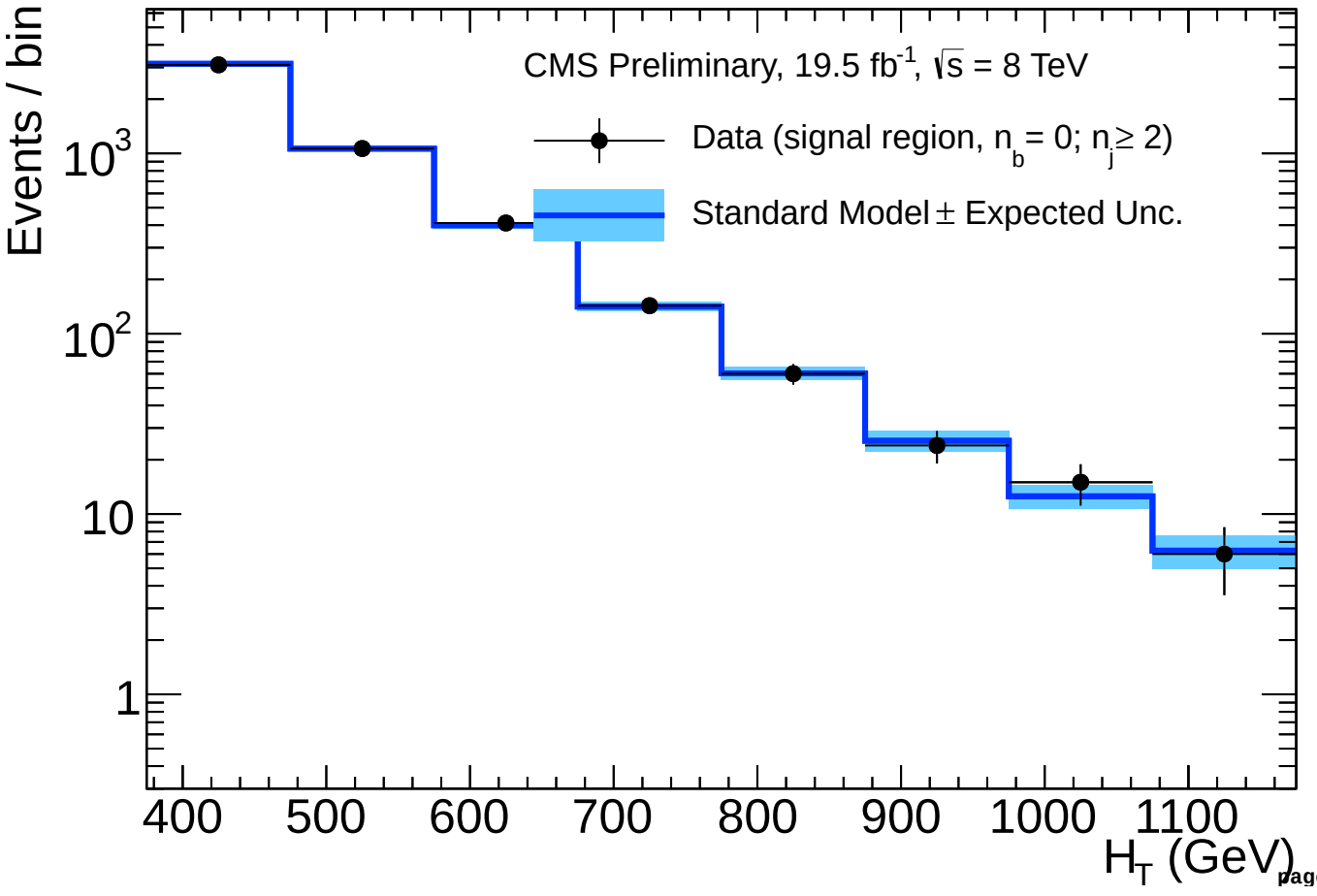
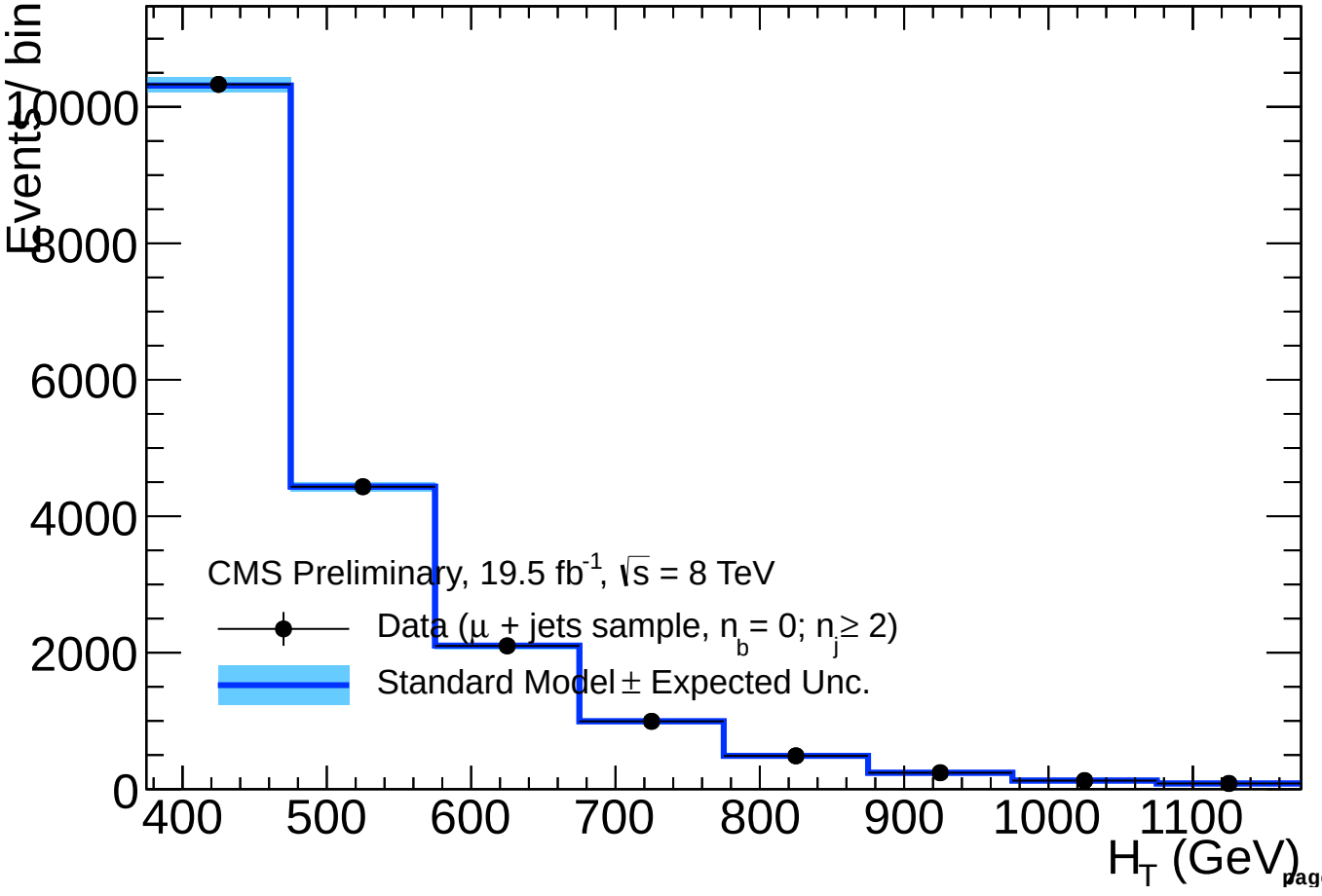
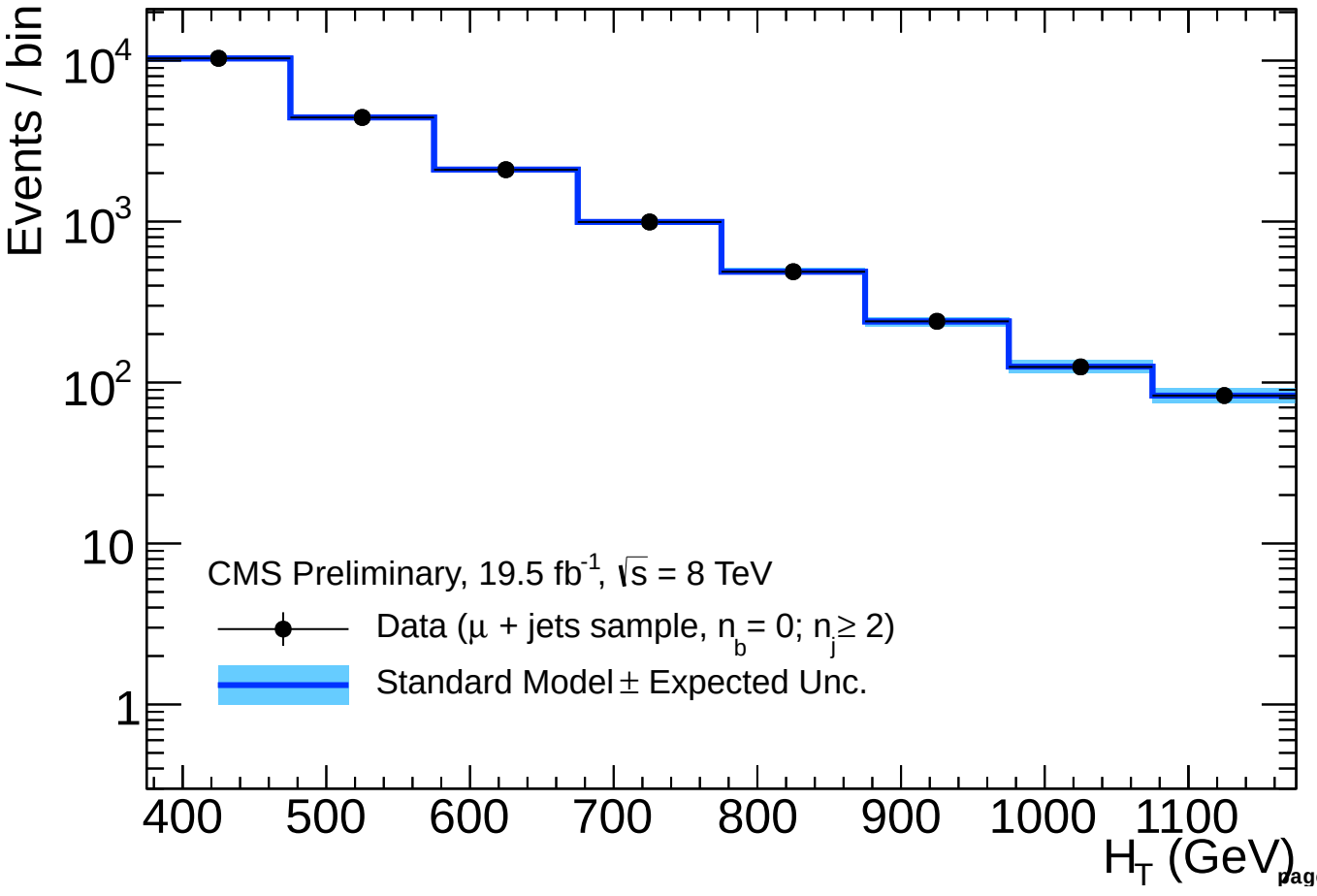
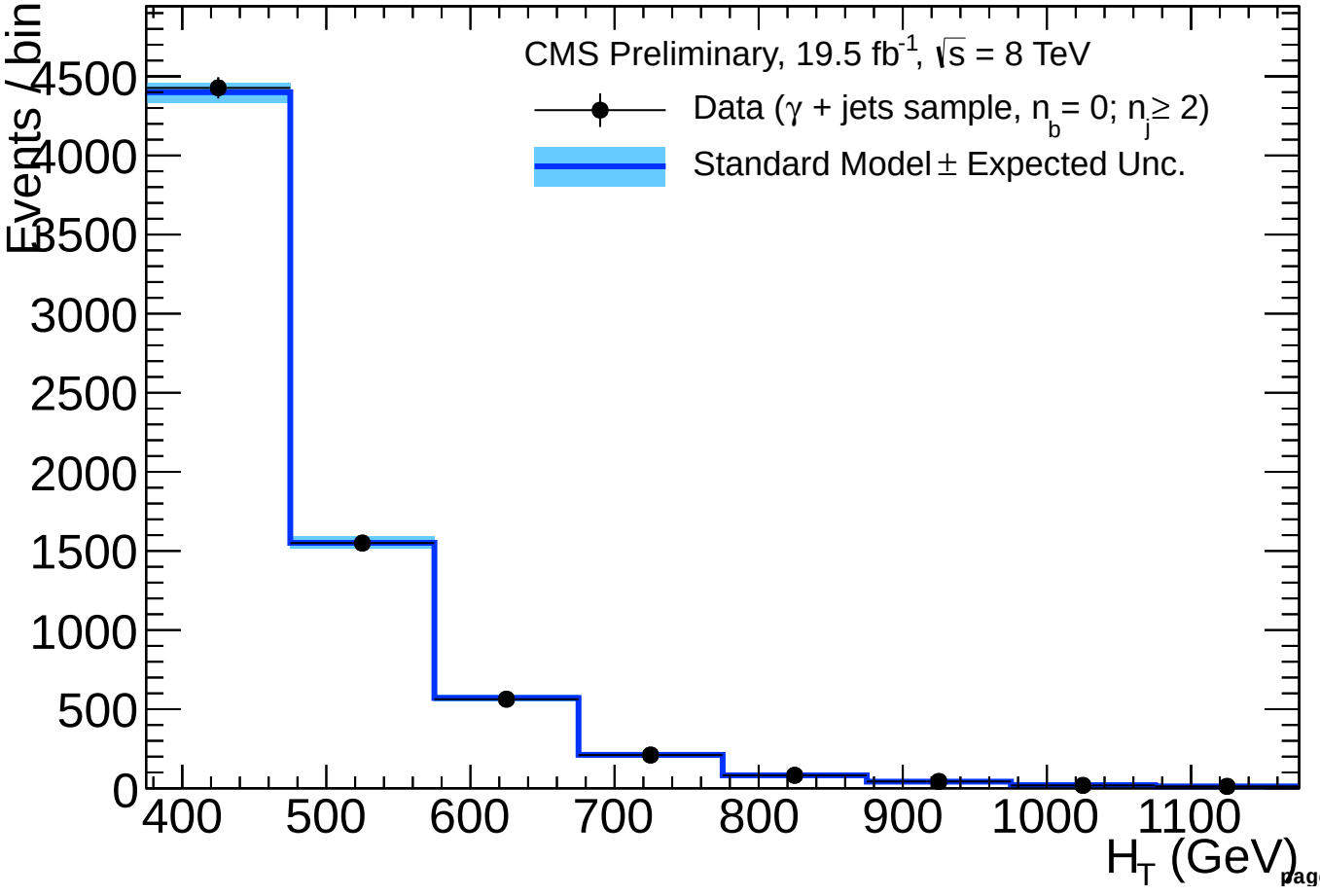
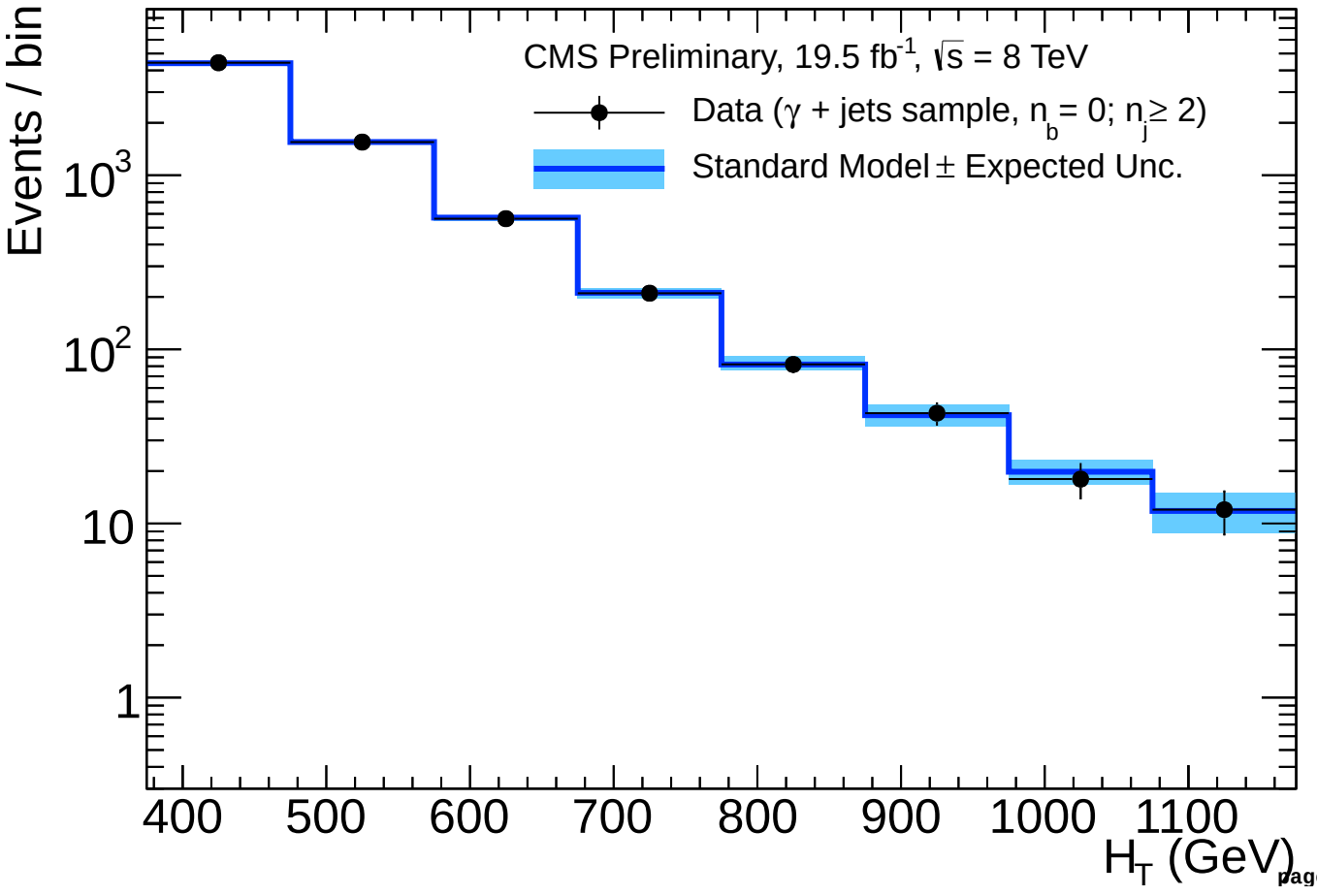

CMS Preliminary, 19.5 fb-1, √s = 8 TeV
Data (signal region, nb = 0; nj ≥ 2)
Standard Model ± Expected Unc.
Events / bin
0
500
1000
1500
2000
2500
3000
400
500
600
700
800
900
1000
1100
HT (GeV)


CMS Preliminary, 19.5 fb-1, √s = 8 TeV
Data (signal region, nb = 0; nj ≥ 2)
Standard Model ± Expected Unc.
Events / bin
10^3
10^2
10
1
400
500
600
700
800
900
1000
1100
HT (GeV)

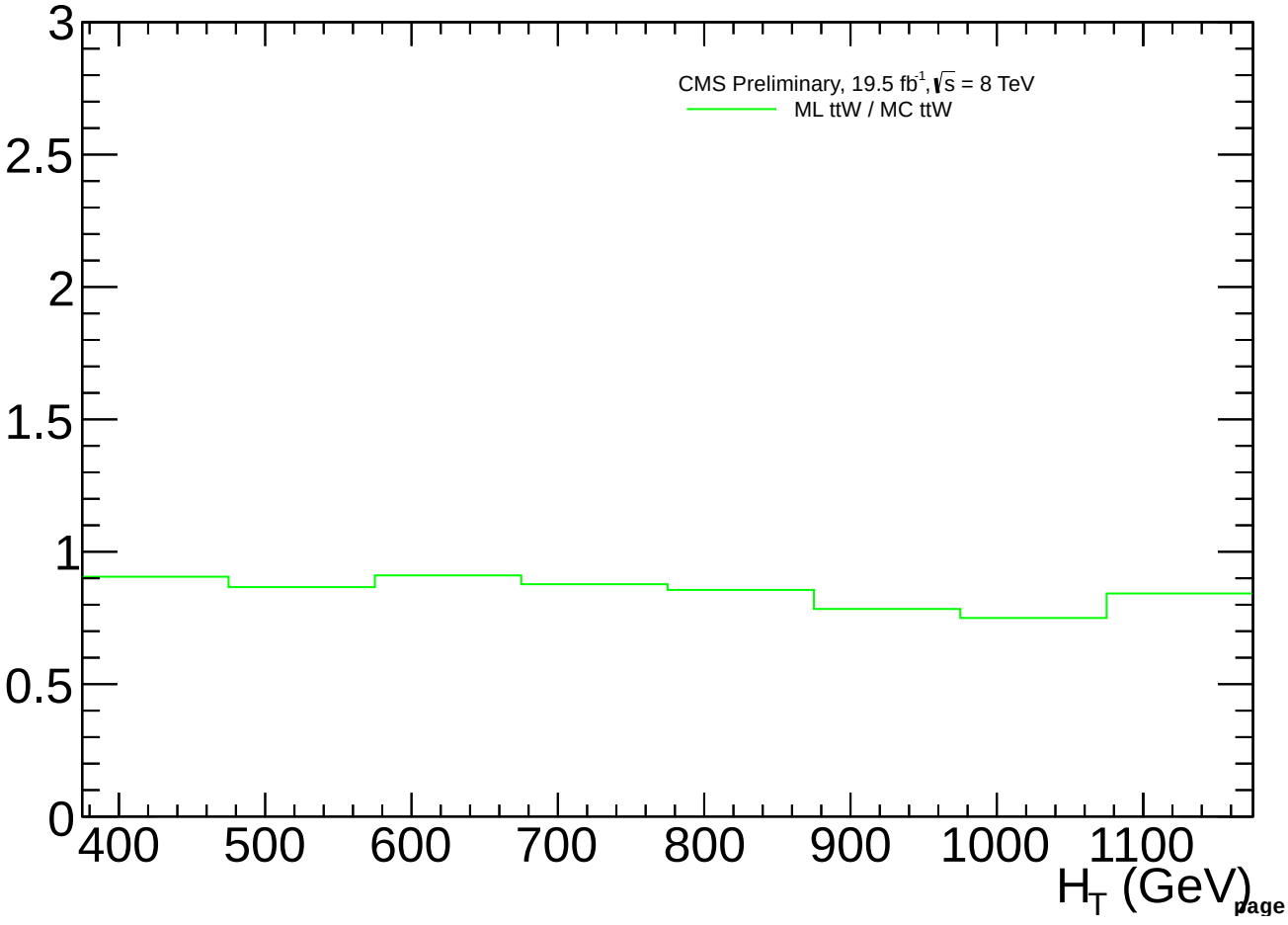

Events / bin
10000
8000
6000
4000
2000
0
400
500
600
700
800
900
1000
1100
H_T (GeV)
CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV
Data (μ + jets sample, n_b = 0; $n_j \geq$ 2)
Standard Model ± Expected Unc.


Events / bin
10^4
10^3
10^2
10
1
CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV
Data (μ + jets sample, n_b = 0; $n_j \geq$ 2)
Standard Model ± Expected Unc.
400
500
600
700
800
900
1000
1100
H_T (GeV)

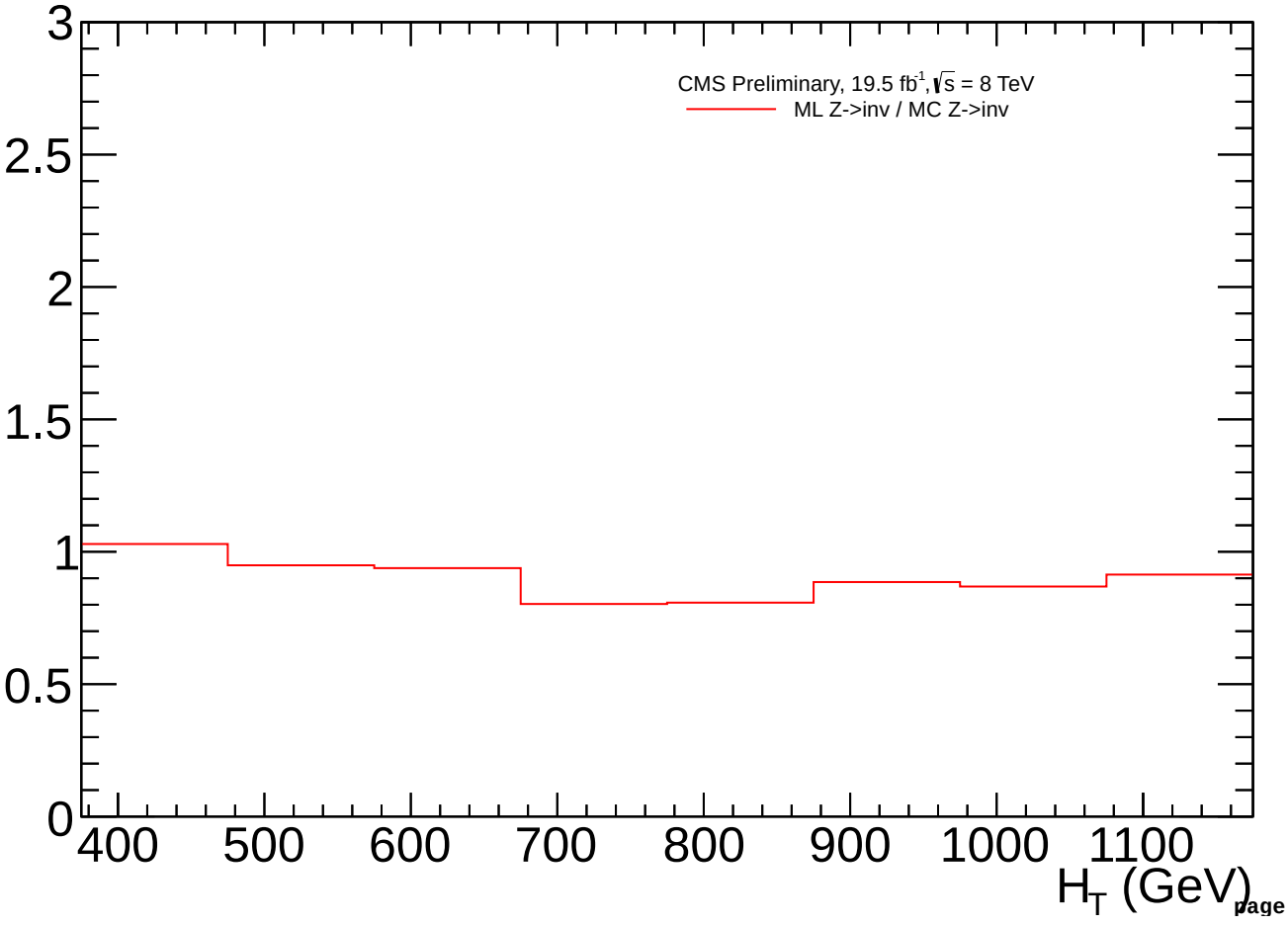

CMS Preliminary, 19.5 fb-1, √s = 8 TeV
Data (γ + jets sample, nb = 0; nj ≥ 2)
Standard Model ± Expected Unc.
Events / bin
HT (GeV)
0
500
1000
1500
2000
2500
3000
3500
4000
4500
400
500
600
700
800
900
1000
1100


CMS Preliminary, 19.5 fb-1, √s = 8 TeV
Data (γ + jets sample, nb = 0; nj ≥ 2)
Standard Model ± Expected Unc.
Events / bin
10^3
10^2
10
1
400
500
600
700
800
900
1000
1100
HT (GeV)

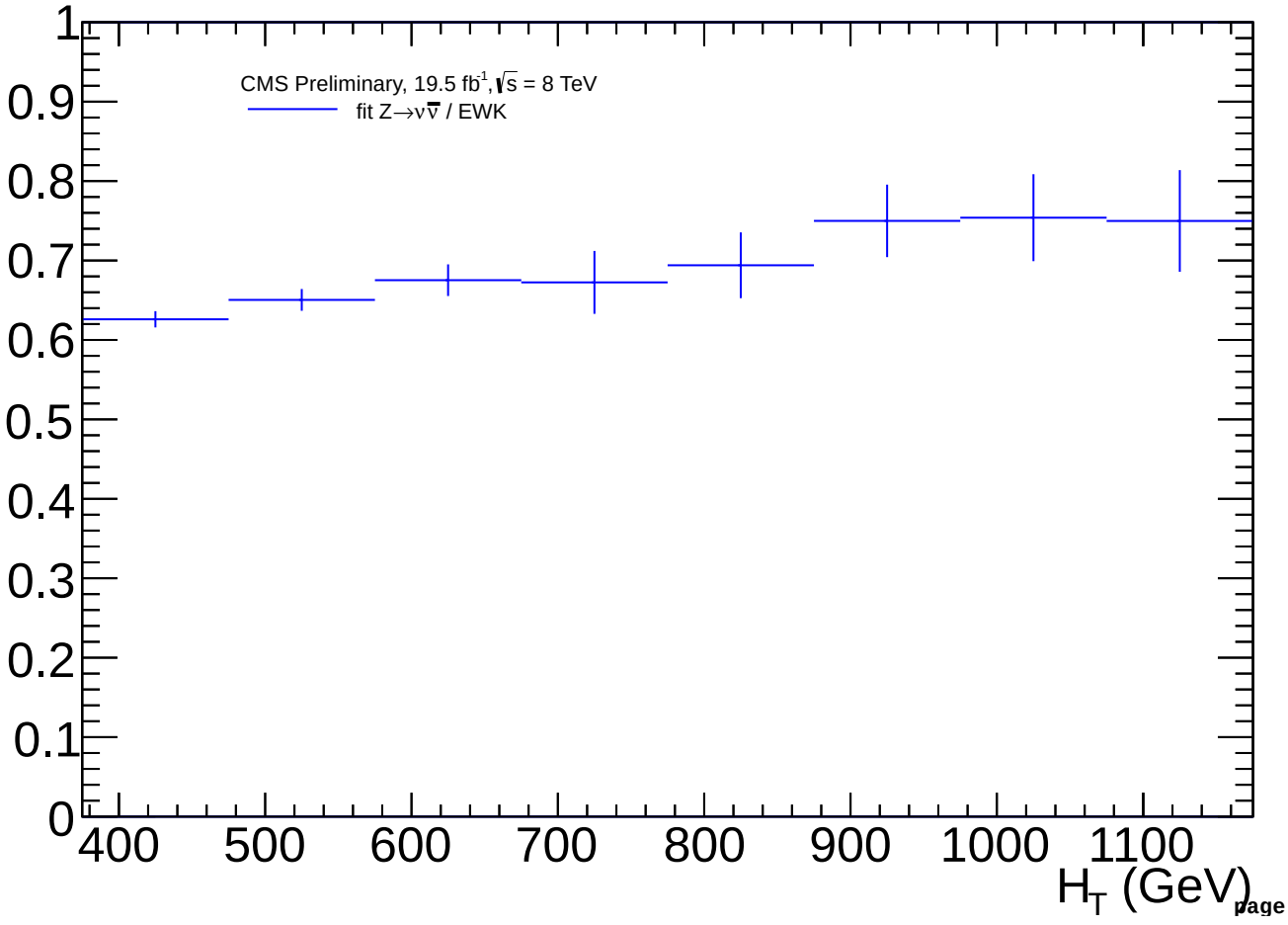
ttW scale factor (result of fit)

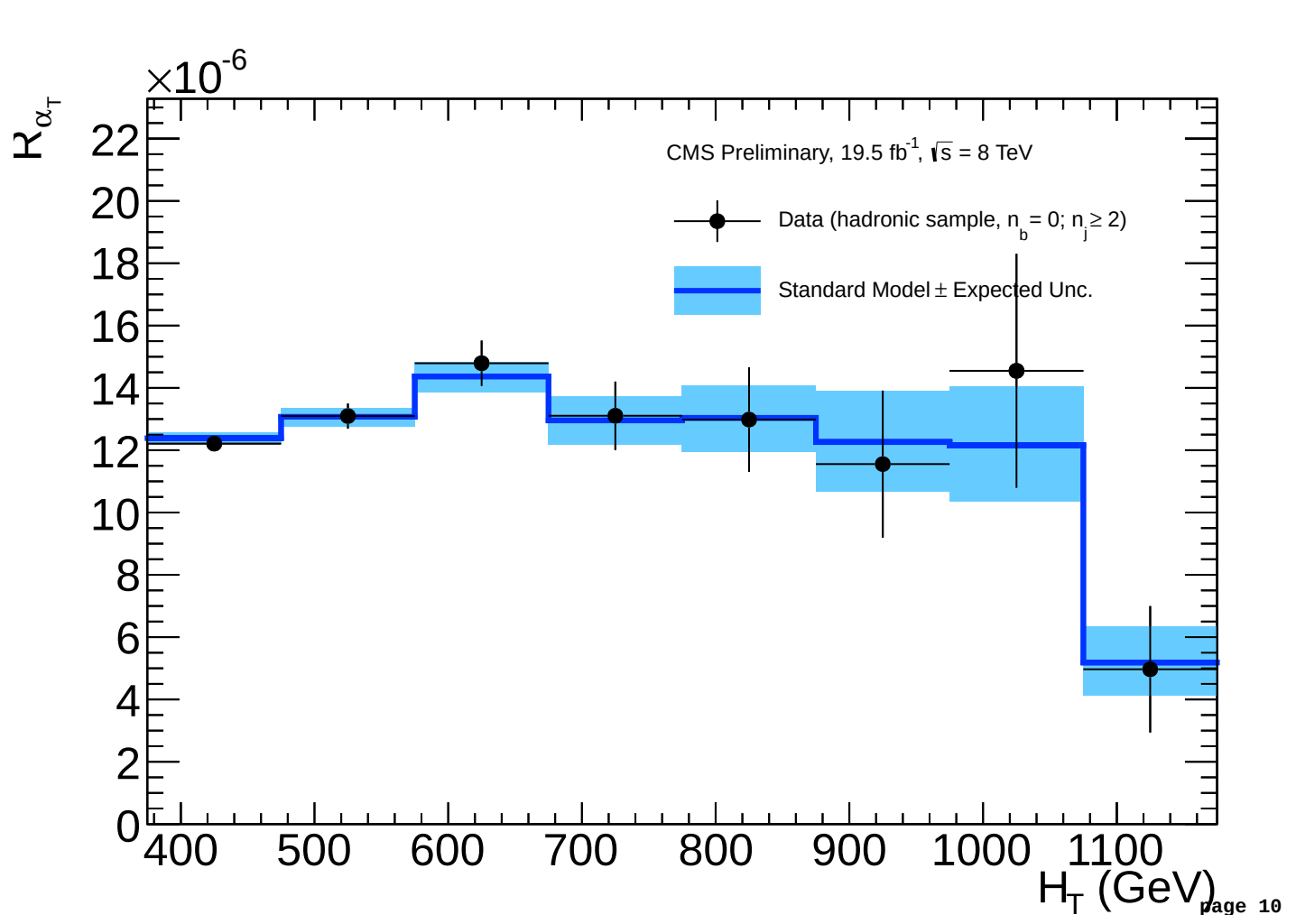


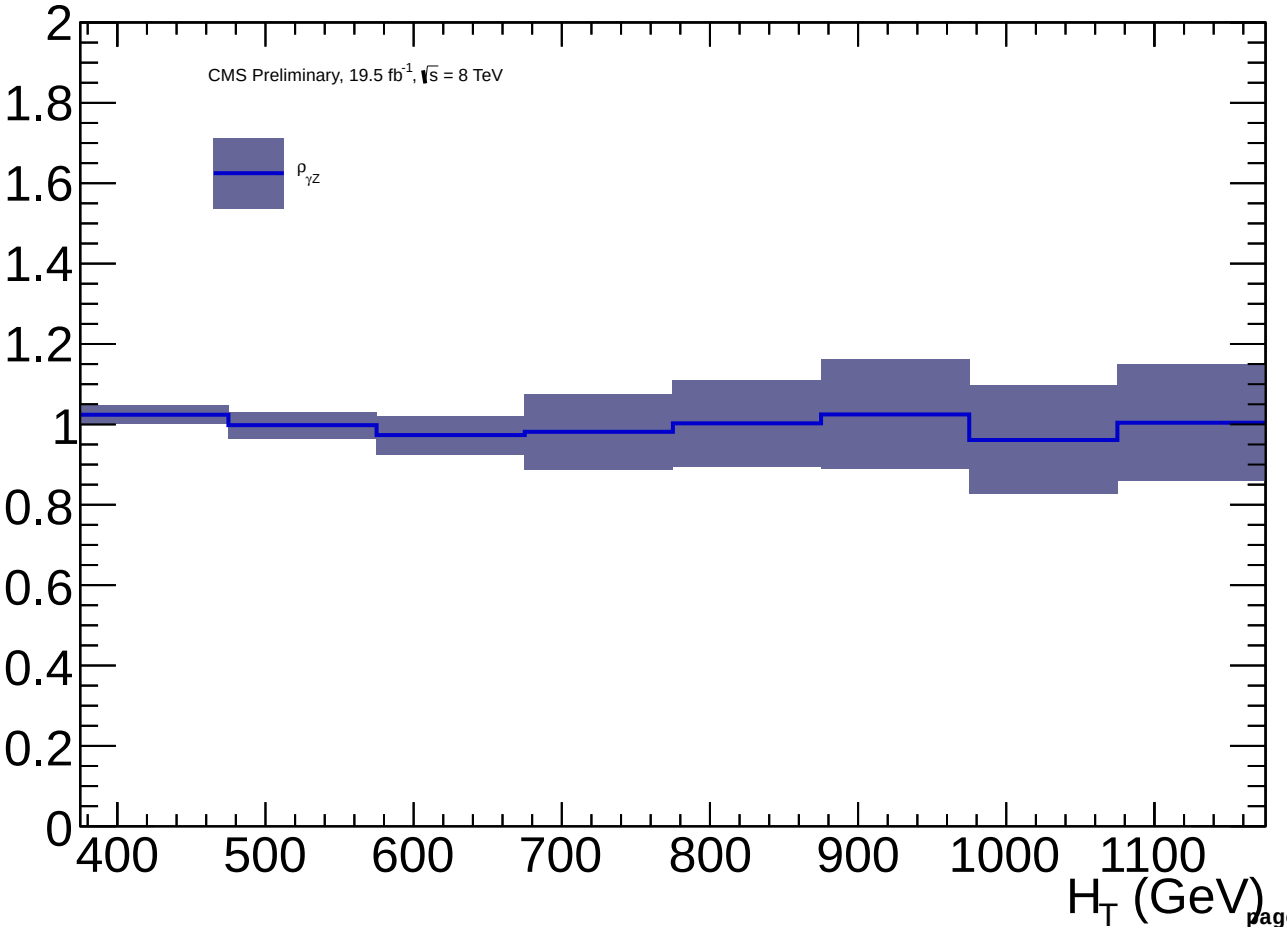
Zinv scale factor (result of fit)

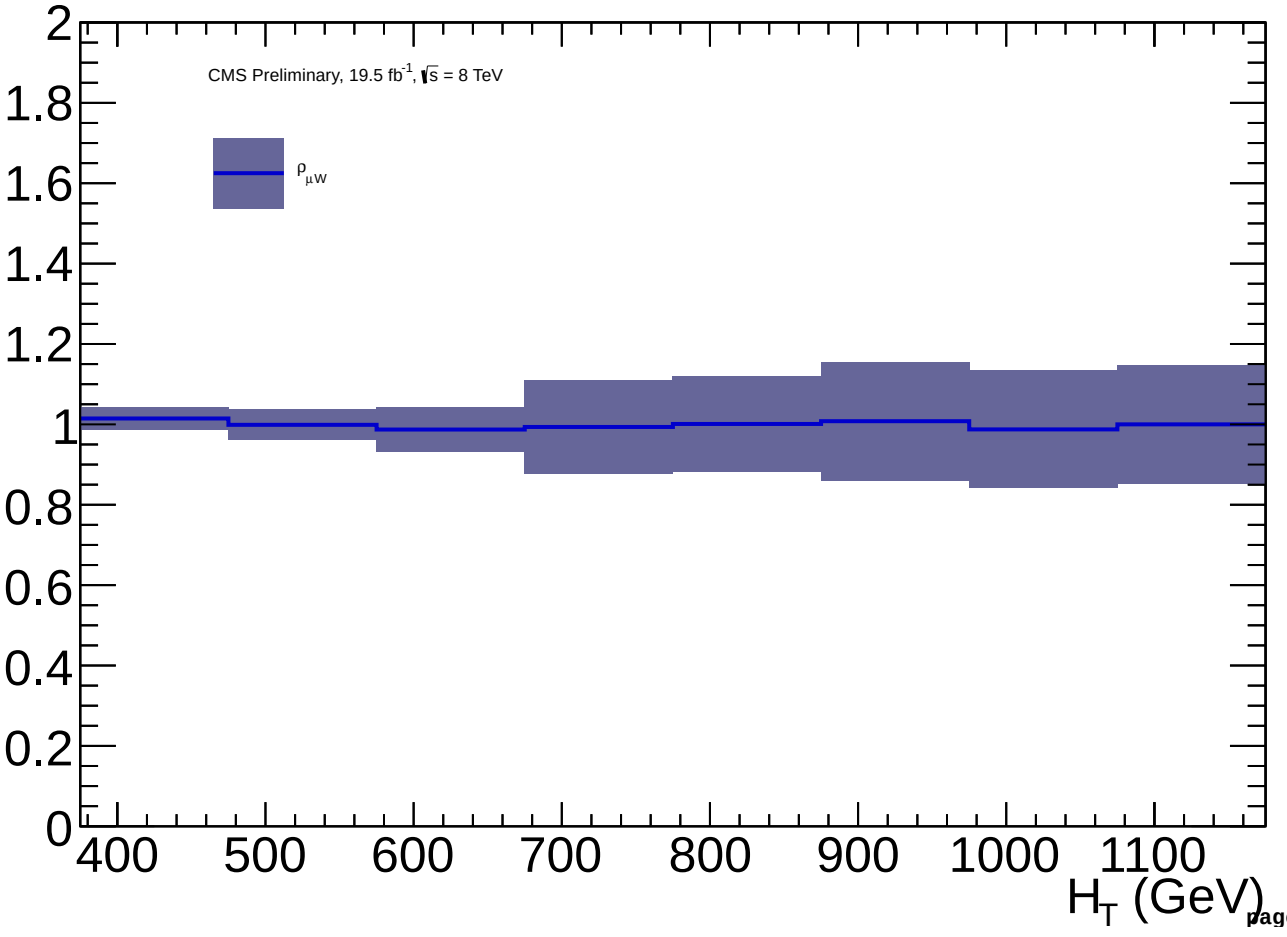


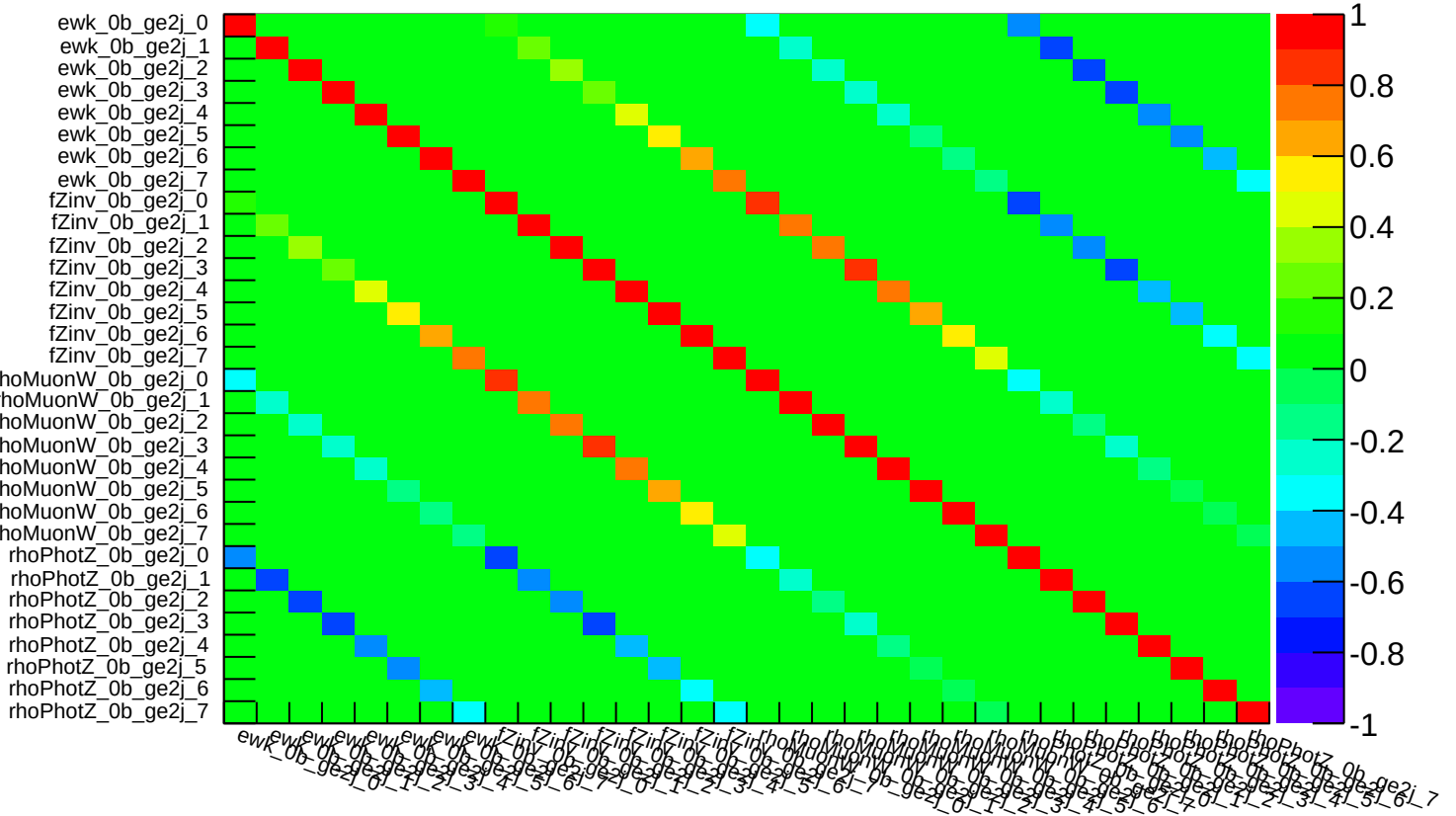
fraction of EWK background which is Zinv (result of fit)




$\times 10^{-6}$
R_{α_T}
CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV
Data (hadronic sample, $n_b = 0$; $n_j \geq 2$)
Standard Model ± Expected Unc.
0
2
4
6
8
10
12
14
16
18
20
22
400
500
600
700
800
900
1000
1100
H_T (GeV)


CMS Preliminary, 19.5 fb-1, √s = 8 TeV
ργZ
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
500
600
700
800
900
1000
1100
HT (GeV)


CMS Preliminary, 19.5 fb-1, √s = 8 TeV
ρμW
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
500
600
700
800
900
1000
1100
HT (GeV)

par name:	value	+/- error	[min - max]
ewk_0b_ge2j_0:	3.14e+03	+/- 4.5e+01	[0.0e+00 - 3.1e+04]
fZinv_0b_ge2j_0:	6.26e-01	+/- 1.0e-02	[0.0e+00 - 1.0e+00]
ewk_0b_ge2j_1:	1.06e+03	+/- 2.4e+01	[0.0e+00 - 1.1e+04]
fZinv_0b_ge2j_1:	6.50e-01	+/- 1.4e-02	[0.0e+00 - 1.0e+00]
ewk_0b_ge2j_2:	3.99e+02	+/- 1.4e+01	[0.0e+00 - 4.1e+03]
fZinv_0b_ge2j_2:	6.75e-01	+/- 2.0e-02	[0.0e+00 - 1.0e+00]
ewk_0b_ge2j_3:	1.41e+02	+/- 9.2e+00	[0.0e+00 - 1.4e+03]
fZinv_0b_ge2j_3:	6.72e-01	+/- 4.0e-02	[0.0e+00 - 1.0e+00]
ewk_0b_ge2j_4:	6.03e+01	+/- 5.3e+00	[0.0e+00 - 6.0e+02]
fZinv_0b_ge2j_4:	6.94e-01	+/- 4.1e-02	[0.0e+00 - 1.0e+00]
ewk_0b_ge2j_5:	2.55e+01	+/- 3.2e+00	[0.0e+00 - 2.4e+02]
fZinv_0b_ge2j_5:	7.50e-01	+/- 4.6e-02	[0.0e+00 - 1.0e+00]
ewk_0b_ge2j_6:	1.25e+01	+/- 2.1e+00	[0.0e+00 - 1.5e+02]
fZinv_0b_ge2j_6:	7.54e-01	+/- 5.5e-02	[0.0e+00 - 1.0e+00]
ewk_0b_ge2j_7:	6.26e+00	+/- 1.3e+00	[0.0e+00 - 6.0e+01]
fZinv_0b_ge2j_7:	7.50e-01	+/- 6.4e-02	[0.0e+00 - 1.0e+00]
rhoPhotZ_0b_ge2j_0:	1.02e+00	+/- 2.4e-02	[0.0e+00 - 3.0e+00]
rhoPhotZ_0b_ge2j_1:	9.98e-01	+/- 3.2e-02	[0.0e+00 - 3.0e+00]
rhoPhotZ_0b_ge2j_2:	9.73e-01	+/- 4.8e-02	[0.0e+00 - 3.0e+00]
rhoPhotZ_0b_ge2j_3:	9.81e-01	+/- 9.4e-02	[0.0e+00 - 3.0e+00]
rhoPhotZ_0b_ge2j_4:	1.00e+00	+/- 1.1e-01	[0.0e+00 - 3.0e+00]
rhoPhotZ_0b_ge2j_5:	1.02e+00	+/- 1.4e-01	[0.0e+00 - 3.0e+00]
rhoPhotZ_0b_ge2j_6:	9.61e-01	+/- 1.4e-01	[0.0e+00 - 3.0e+00]
rhoPhotZ_0b_ge2j_7:	1.00e+00	+/- 1.4e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_0b_ge2j_0:	1.01e+00	+/- 2.8e-02	[0.0e+00 - 3.0e+00]
rhoMuonW_0b_ge2j_1:	9.99e-01	+/- 3.7e-02	[0.0e+00 - 3.0e+00]
rhoMuonW_0b_ge2j_2:	9.87e-01	+/- 5.6e-02	[0.0e+00 - 3.0e+00]
rhoMuonW_0b_ge2j_3:	9.94e-01	+/- 1.2e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_0b_ge2j_4:	1.00e+00	+/- 1.2e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_0b_ge2j_5:	1.01e+00	+/- 1.5e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_0b_ge2j_6:	9.87e-01	+/- 1.5e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_0b_ge2j_7:	1.00e+00	+/- 1.5e-01	[0.0e+00 - 3.0e+00]

correlation_matrix