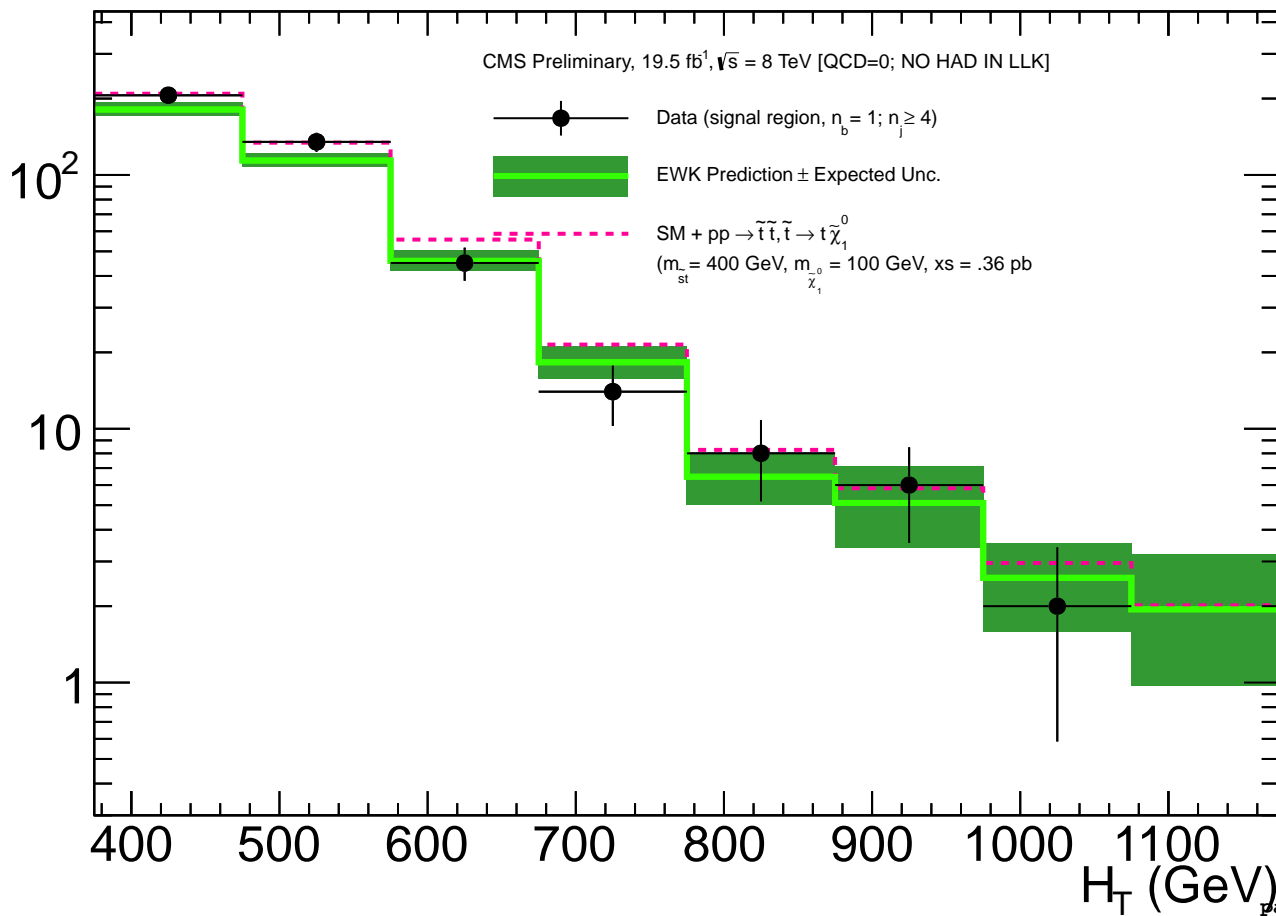
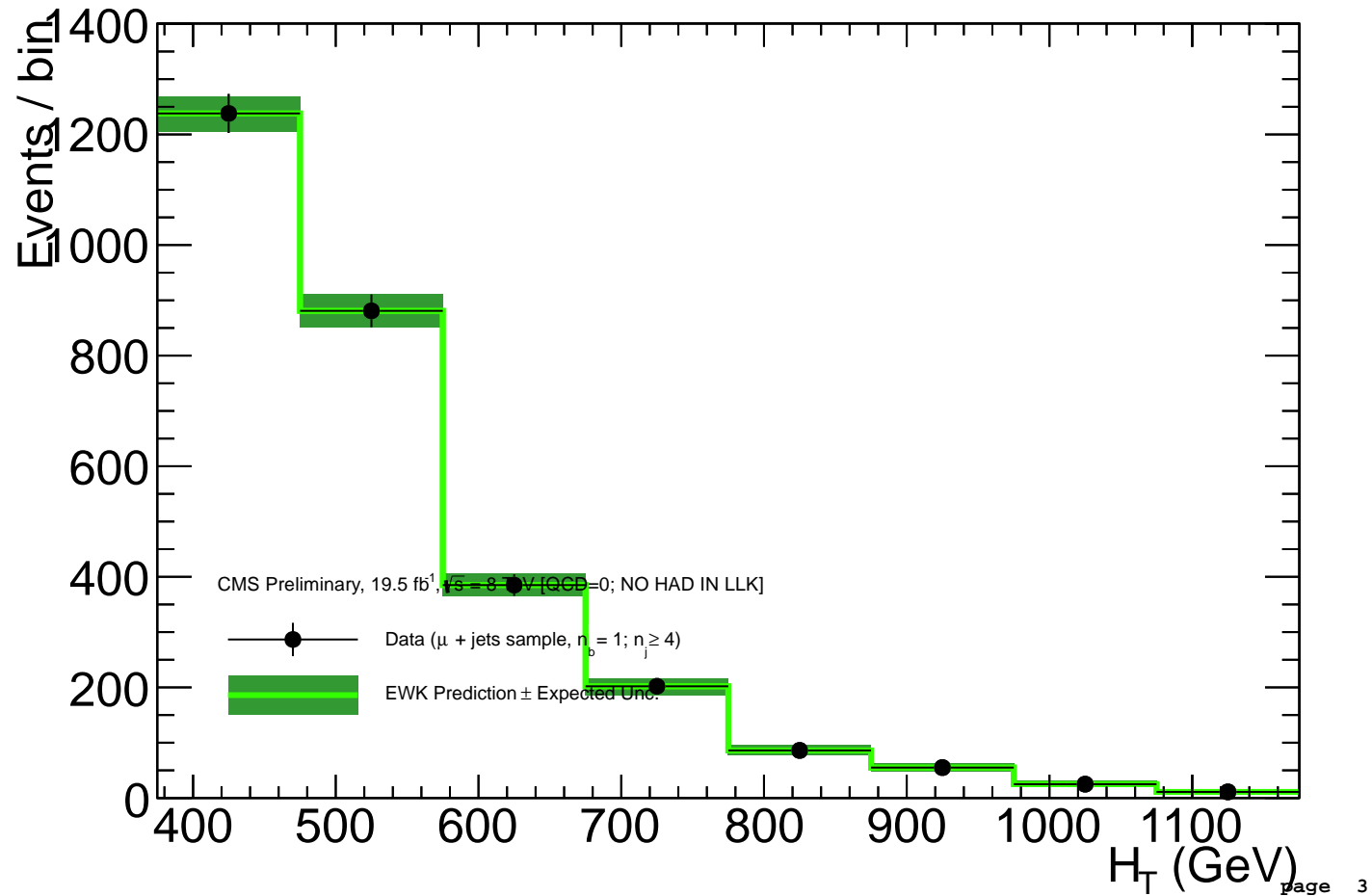
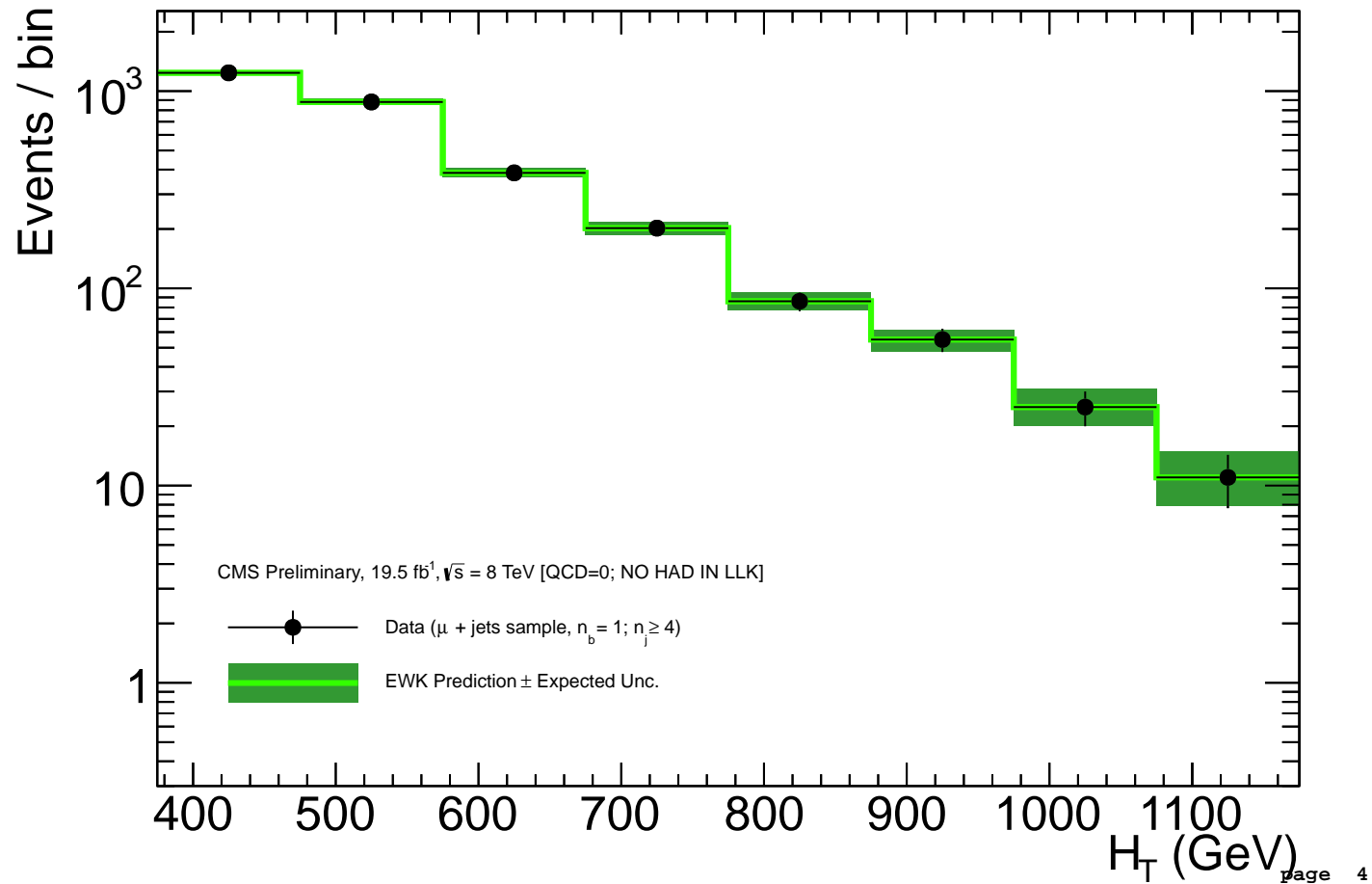


Events / bin







Events / bin

CMS Preliminary, 19.5 fb<sup>-1</sup>,  $\sqrt{s} = 8$  TeV [QCD=0; NO HAD IN LLK]

—●— Data ( $\gamma$  + jets sample,  $n_b = 1$ ;  $n_j \geq 4$ )

EWK Prediction  $\pm$  Expected Unc.

100

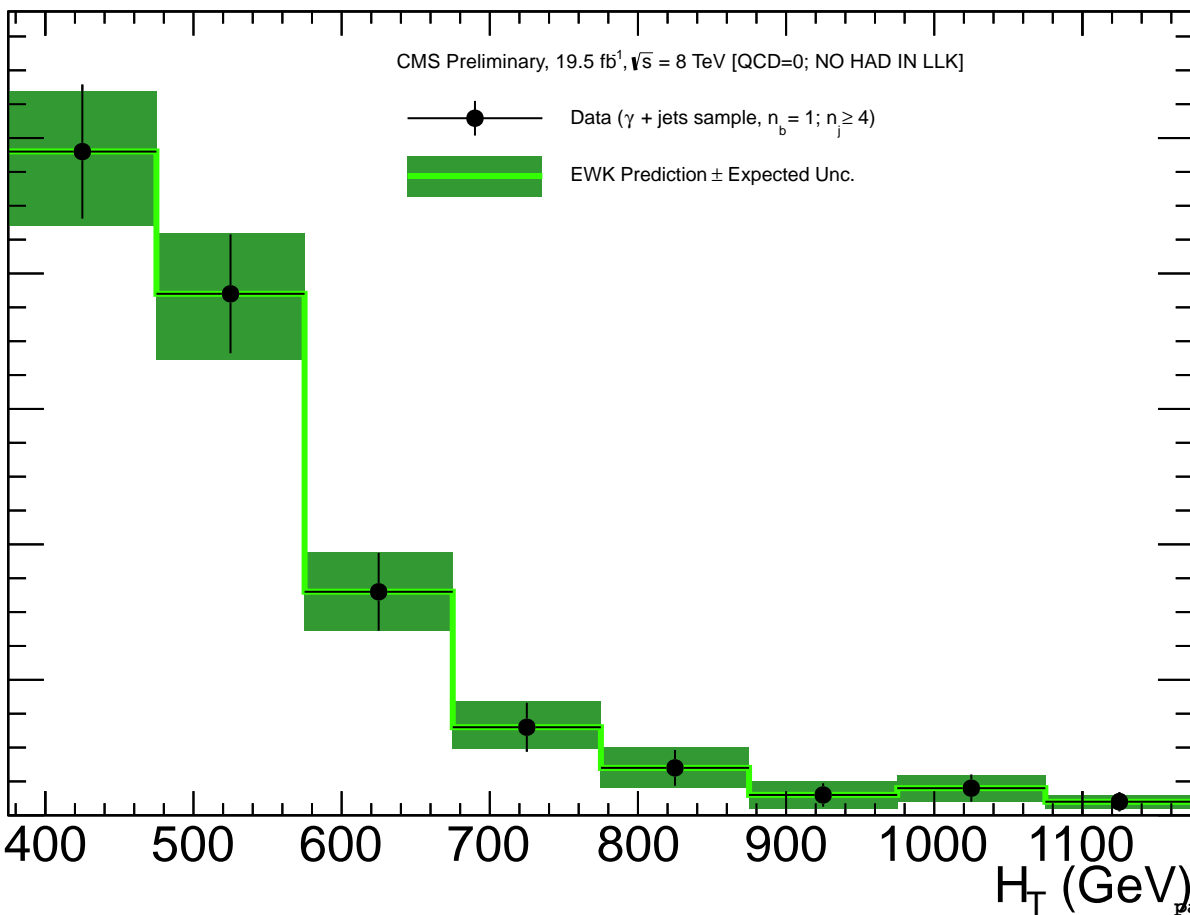
80

60

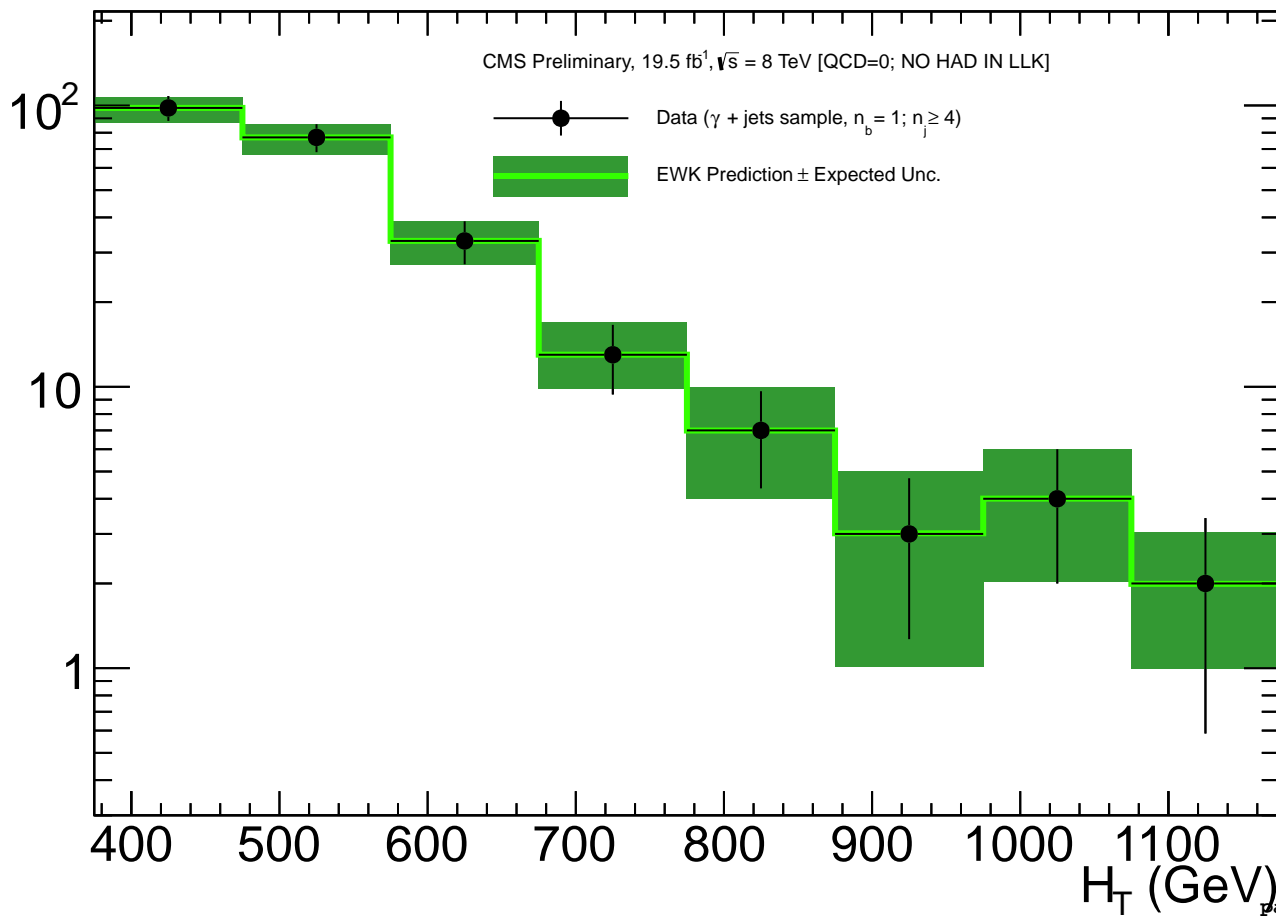
40

20

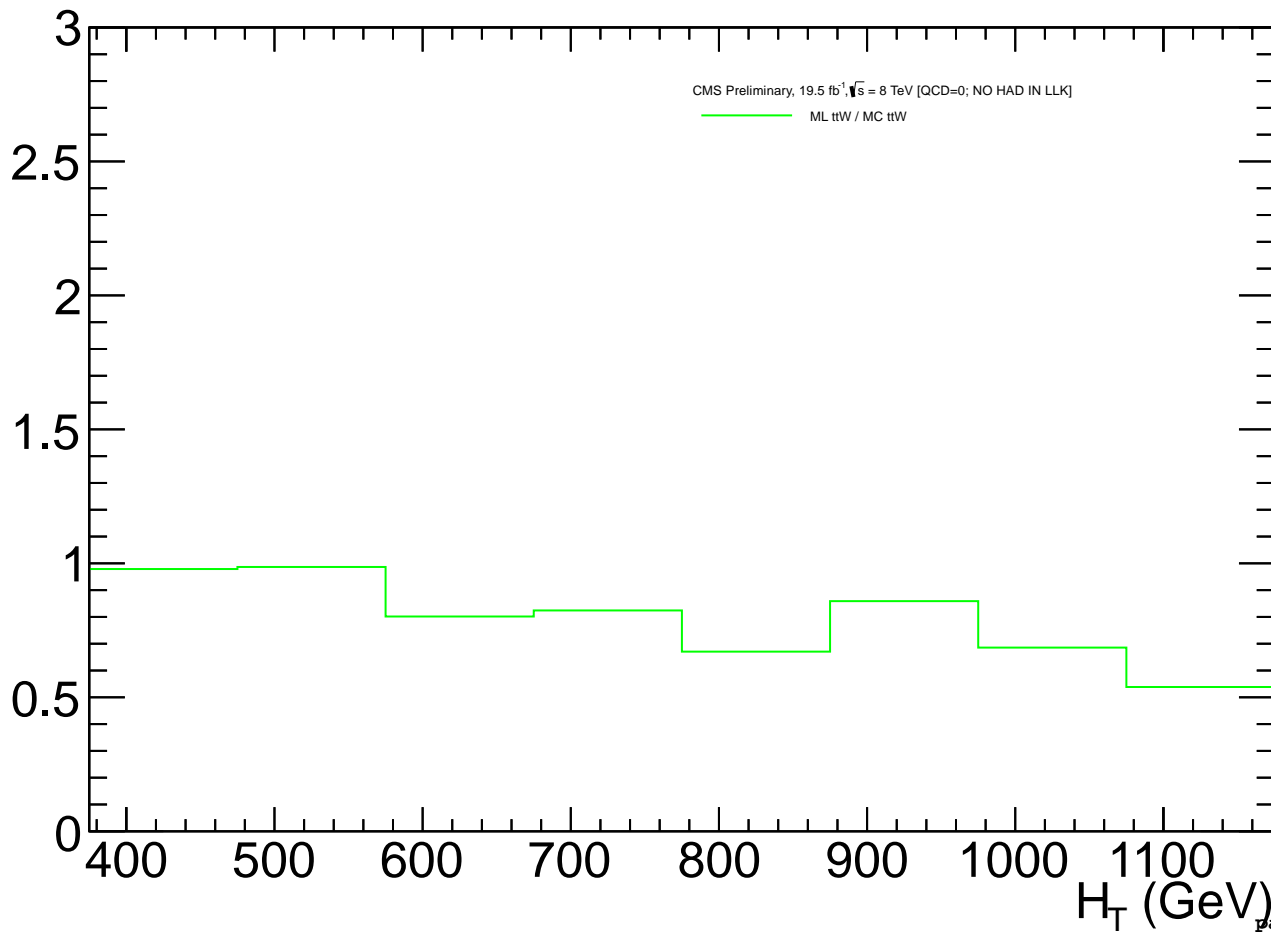
0



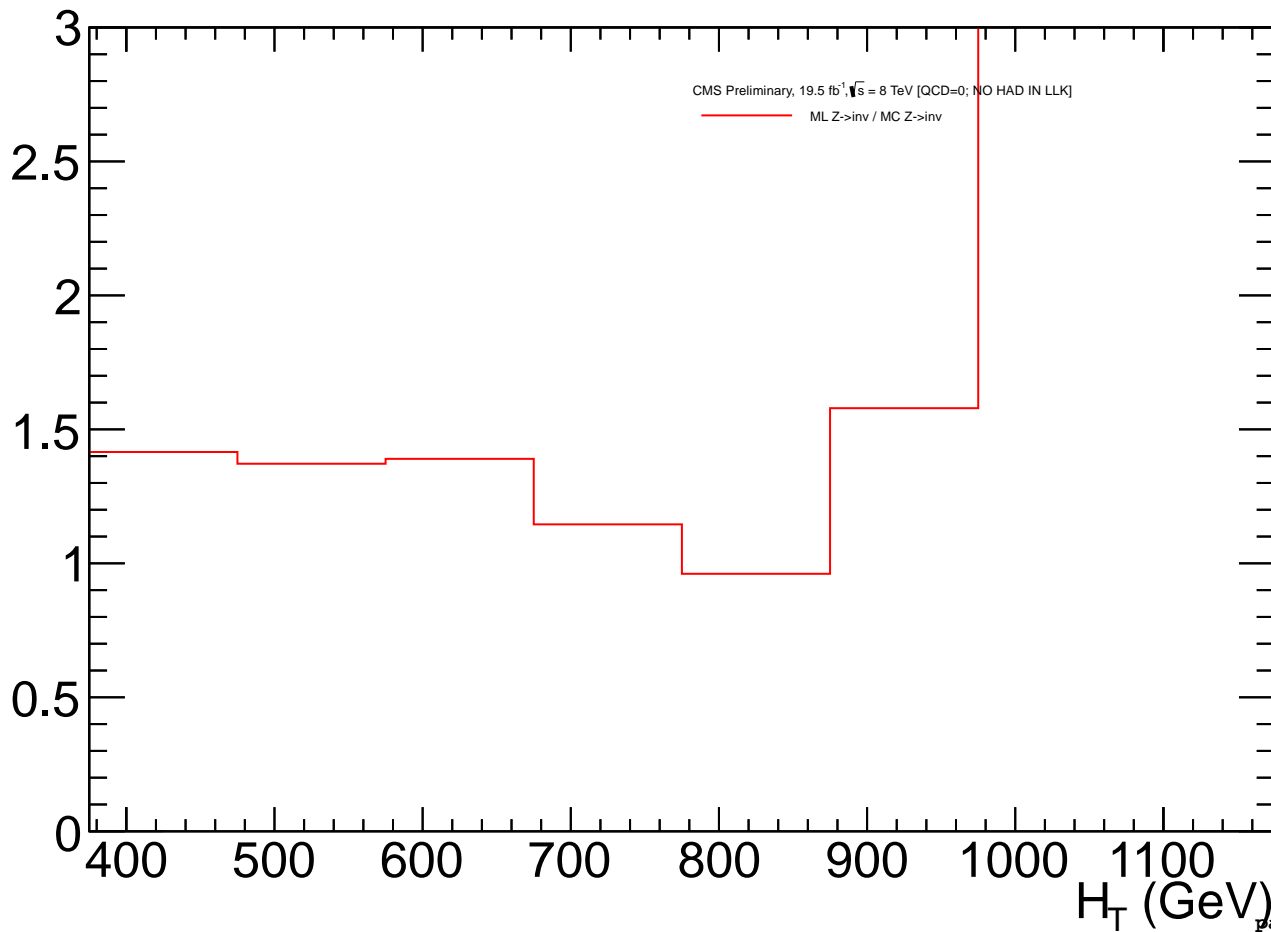
Events / bin



# ttW scale factor (result of fit)

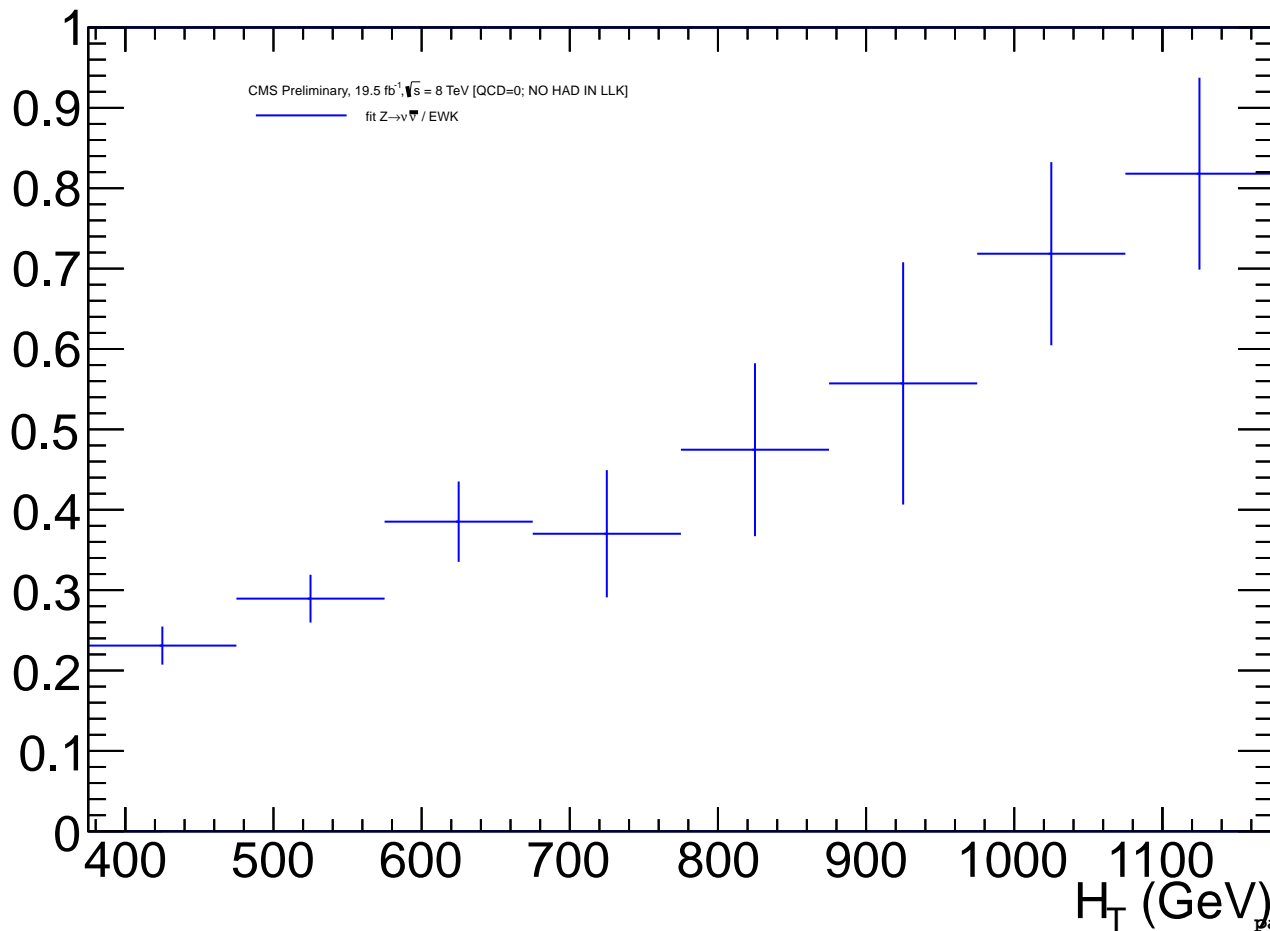


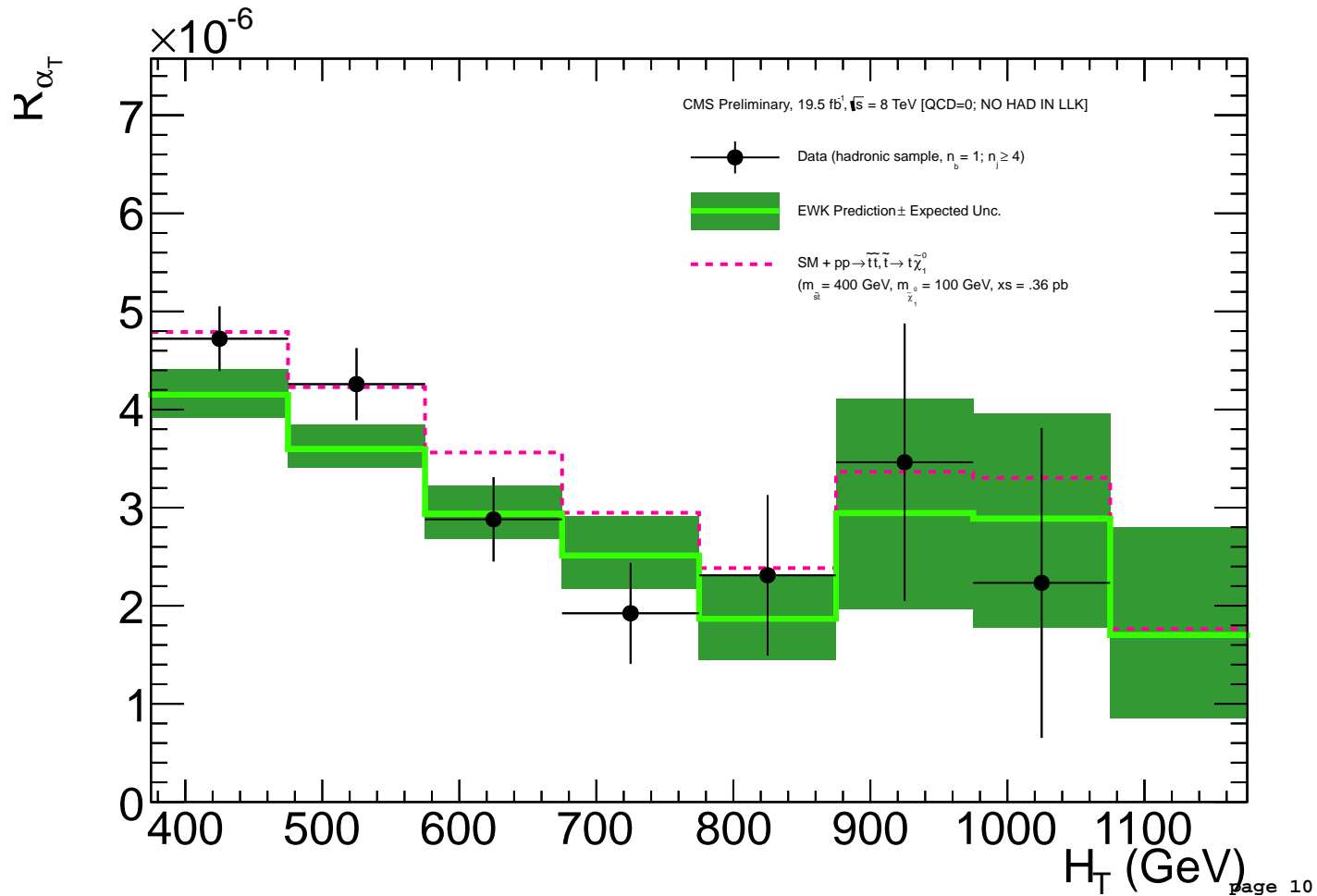
# Zinv scale factor (result of fit)

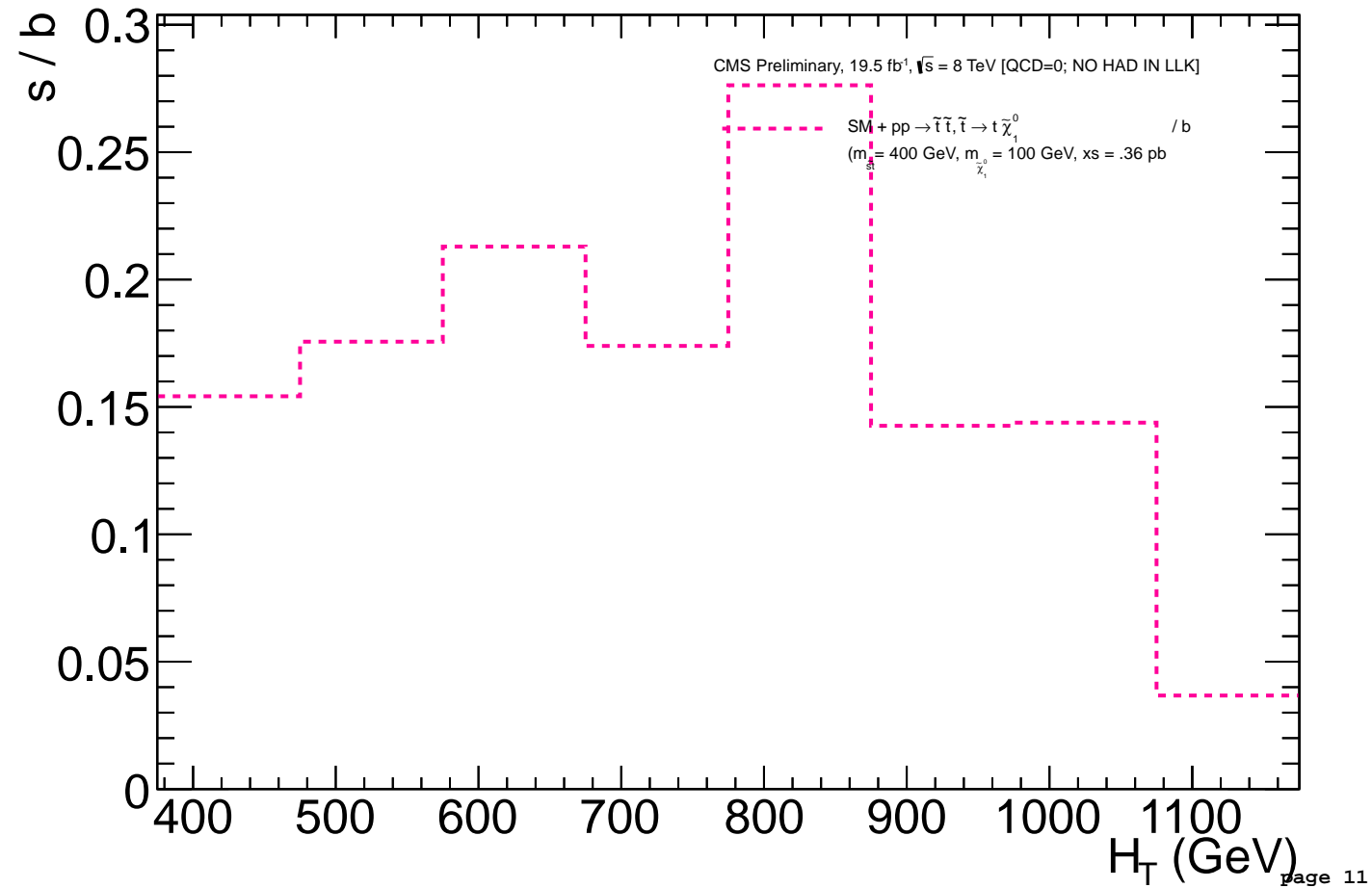


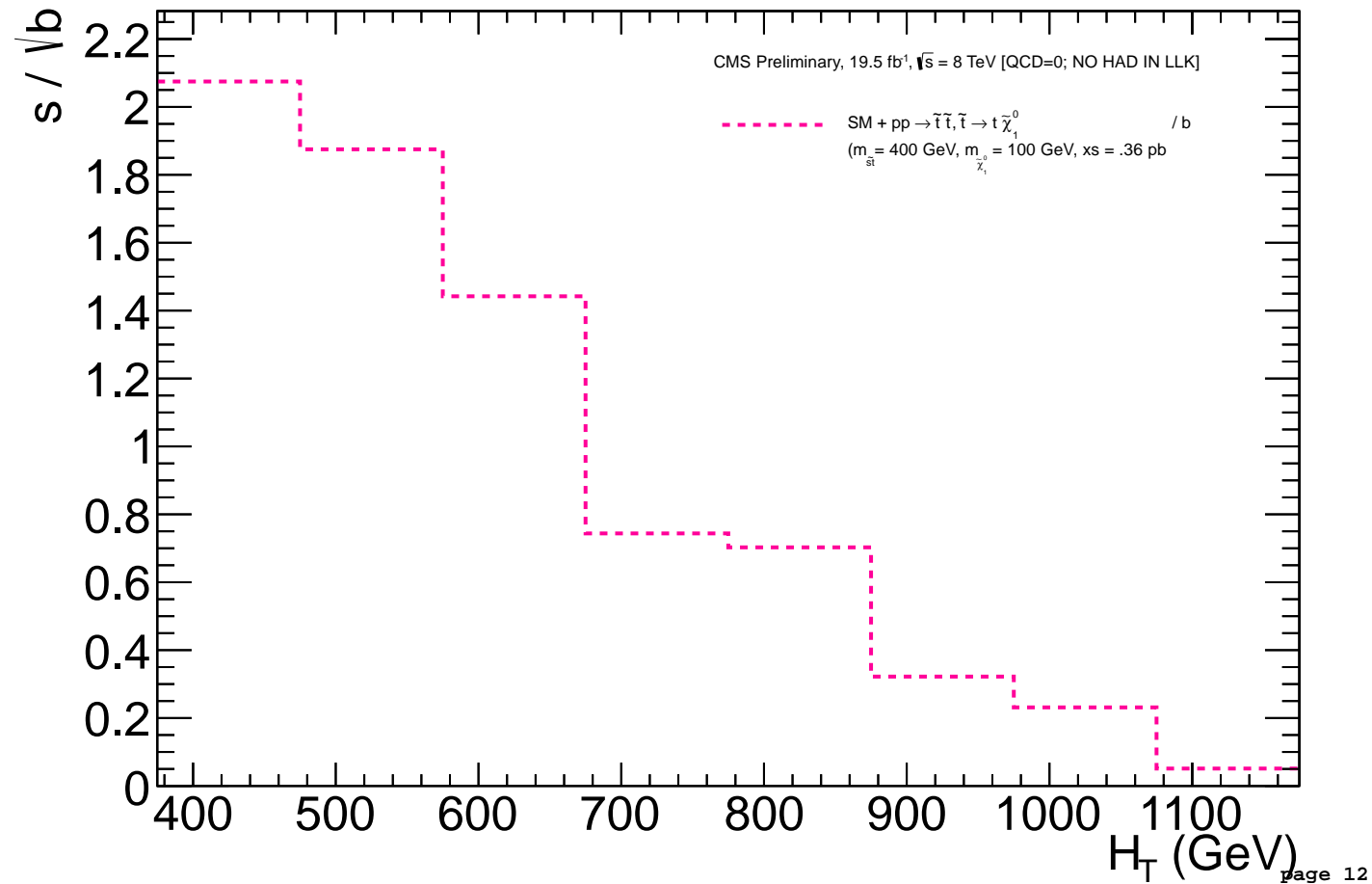


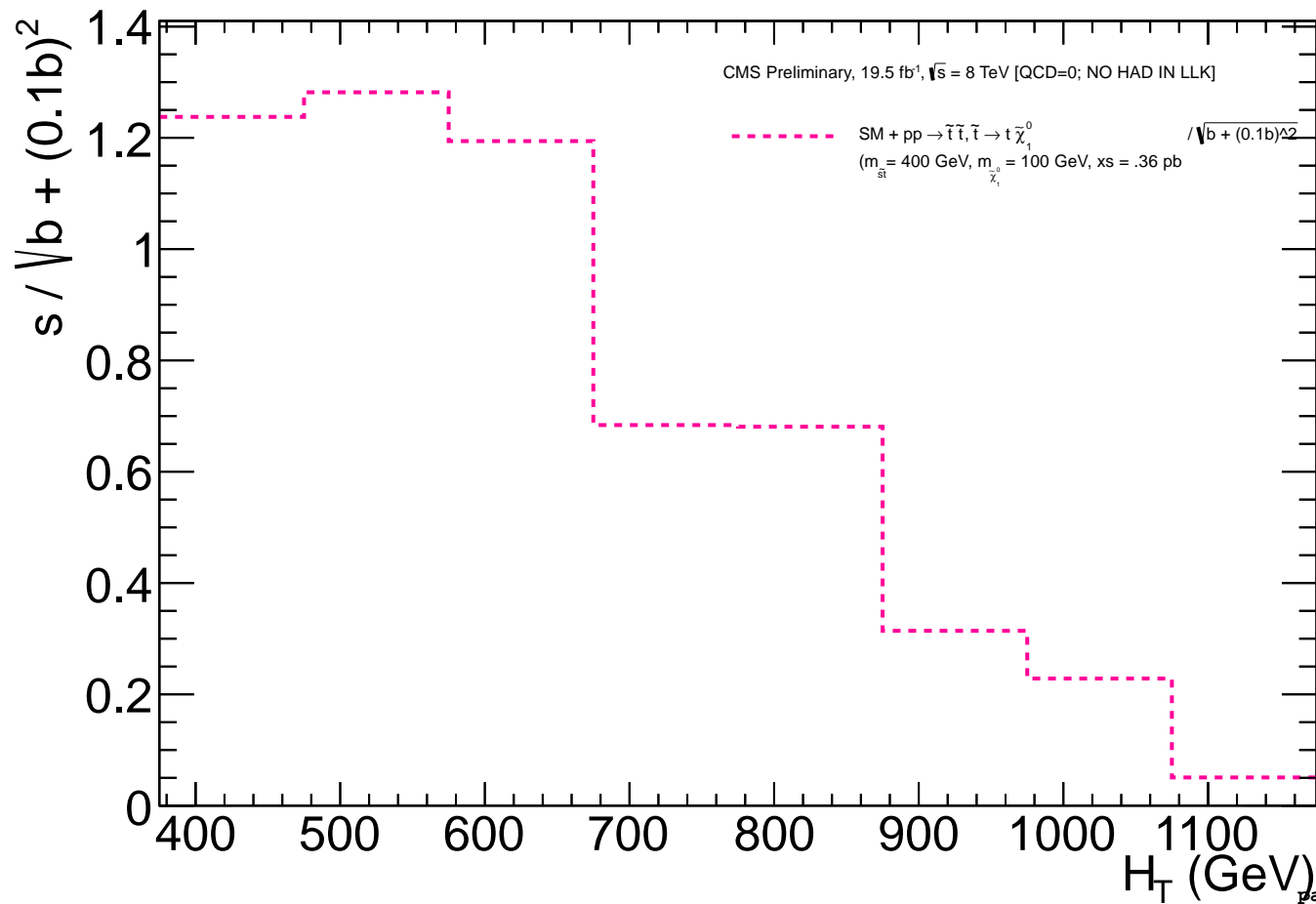
# fraction of EWK background which is Zinv (result of fit)

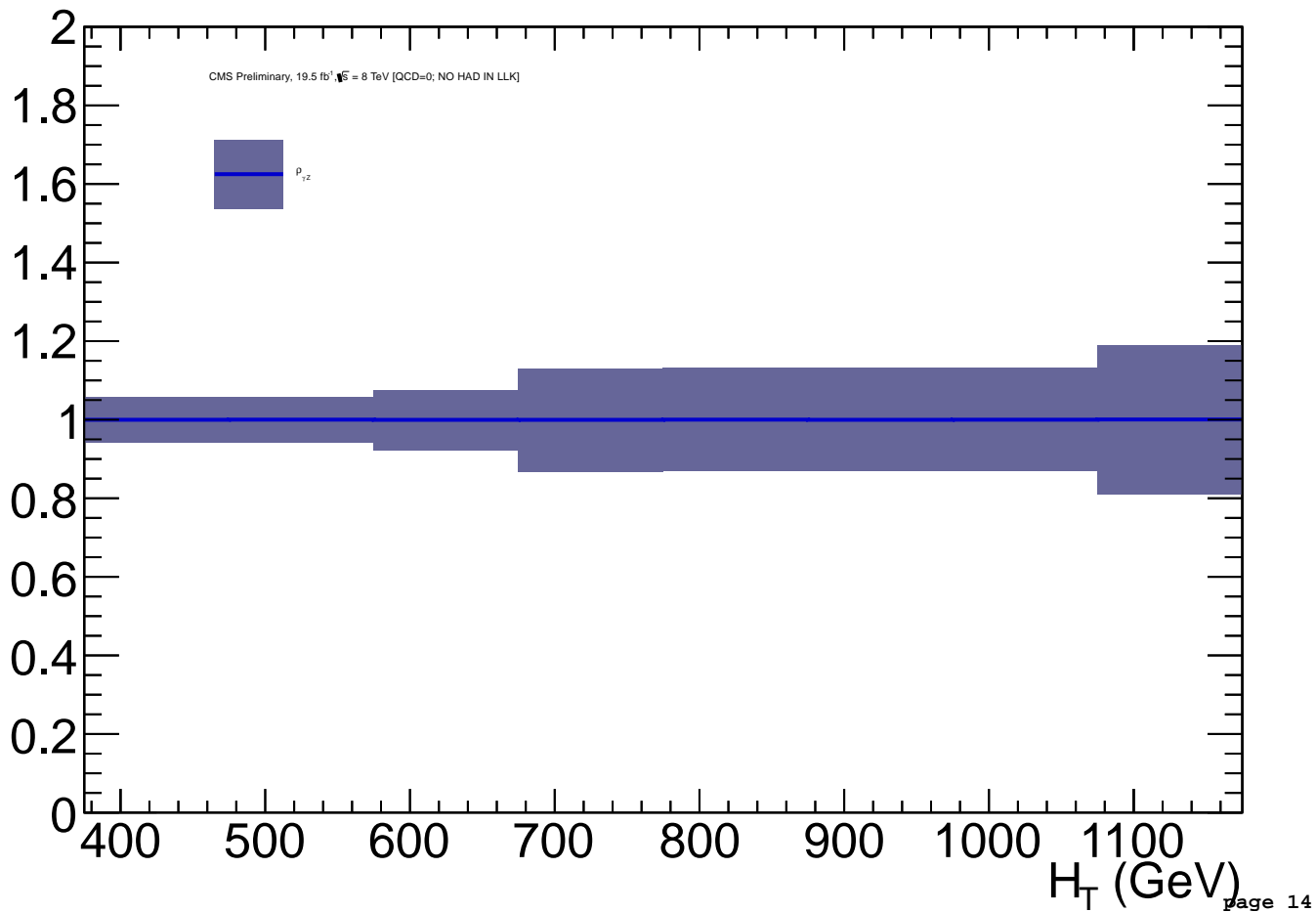


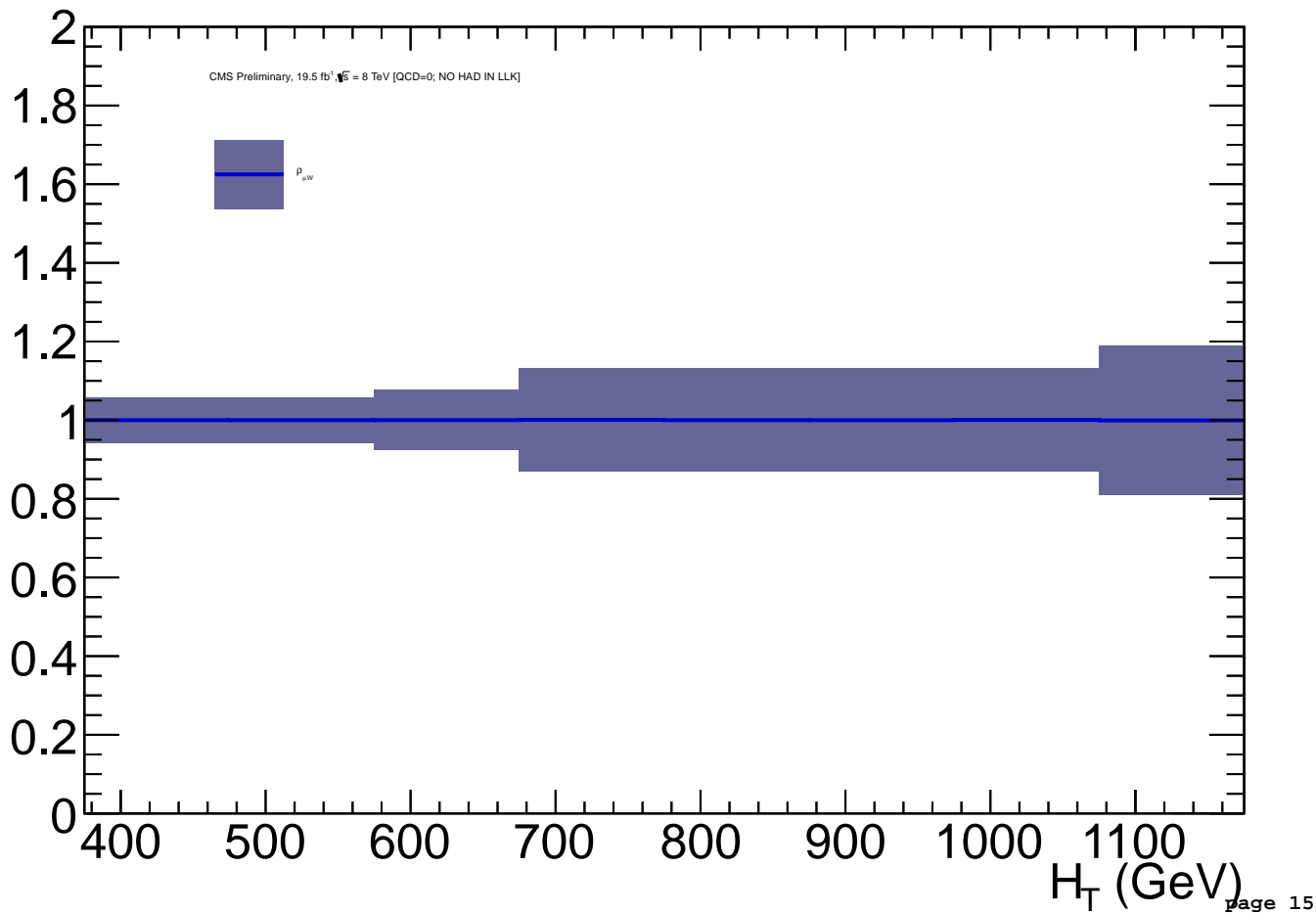












par name:	value	+/-	error	[ min - max ]
ewk_1b_ge4j_0:	1.81e+02	+/-	1.0e+01	[0.0e+00 - 2.1e+03]
fZinv_1b_ge4j_0:	2.31e-01	+/-	2.4e-02	[0.0e+00 - 1.0e+00]
ewk_1b_ge4j_1:	1.14e+02	+/-	6.9e+00	[0.0e+00 - 1.4e+03]
fZinv_1b_ge4j_1:	2.89e-01	+/-	3.0e-02	[0.0e+00 - 1.0e+00]
ewk_1b_ge4j_2:	4.59e+01	+/-	4.3e+00	[0.0e+00 - 4.5e+02]
fZinv_1b_ge4j_2:	3.85e-01	+/-	5.0e-02	[0.0e+00 - 1.0e+00]
ewk_1b_ge4j_3:	1.83e+01	+/-	2.7e+00	[0.0e+00 - 1.4e+02]
fZinv_1b_ge4j_3:	3.70e-01	+/-	7.9e-02	[0.0e+00 - 1.0e+00]
ewk_1b_ge4j_4:	6.47e+00	+/-	1.4e+00	[0.0e+00 - 8.0e+01]
fZinv_1b_ge4j_4:	4.75e-01	+/-	1.1e-01	[0.0e+00 - 1.0e+00]
ewk_1b_ge4j_5:	5.10e+00	+/-	1.7e+00	[0.0e+00 - 6.0e+01]
fZinv_1b_ge4j_5:	5.57e-01	+/-	1.5e-01	[0.0e+00 - 1.0e+00]
ewk_1b_ge4j_6:	2.59e+00	+/-	9.7e-01	[0.0e+00 - 2.0e+01]
fZinv_1b_ge4j_6:	7.19e-01	+/-	1.1e-01	[0.0e+00 - 1.0e+00]
ewk_1b_ge4j_7:	1.94e+00	+/-	1.2e+00	[0.0e+00 - 1.0e+01]
fZinv_1b_ge4j_7:	8.18e-01	+/-	1.2e-01	[0.0e+00 - 1.0e+00]
rhoPhotZ_1b_ge4j_0:	1.00e+00	+/-	5.8e-02	[0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_1:	1.00e+00	+/-	5.8e-02	[0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_2:	1.00e+00	+/-	7.7e-02	[0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_3:	1.00e+00	+/-	1.3e-01	[0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_4:	1.00e+00	+/-	1.3e-01	[0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_5:	1.00e+00	+/-	1.3e-01	[0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_6:	1.00e+00	+/-	1.3e-01	[0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_7:	1.00e+00	+/-	1.9e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_0:	1.00e+00	+/-	5.8e-02	[0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_1:	1.00e+00	+/-	5.8e-02	[0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_2:	1.00e+00	+/-	7.7e-02	[0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_3:	1.00e+00	+/-	1.3e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_4:	1.00e+00	+/-	1.3e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_5:	1.00e+00	+/-	1.3e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_6:	1.00e+00	+/-	1.3e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_7:	9.99e-01	+/-	1.9e-01	[0.0e+00 - 3.0e+00]
ewk_2b_ge4j_0:	7.18e+01	+/-	4.9e+00	[0.0e+00 - 7.9e+02]
ewk_2b_ge4j_1:	4.42e+01	+/-	3.2e+00	[0.0e+00 - 5.2e+02]
ewk_2b_ge4j_2:	1.84e+01	+/-	1.8e+00	[0.0e+00 - 3.1e+02]
ewk_2b_ge4j_3:	6.92e+00	+/-	1.1e+00	[0.0e+00 - 1.2e+02]
ewk_2b_ge4j_4:	1.91e+00	+/-	3.6e-01	[0.0e+00 - 1.0e+01]
ewk_2b_ge4j_5:	8.63e-01	+/-	2.3e-01	[0.0e+00 - 2.0e+01]
ewk_2b_ge4j_6:	4.54e-01	+/-	1.5e-01	[0.0e+00 - 1.0e+01]
ewk_2b_ge4j_7:	3.76e-01	+/-	1.4e-01	[0.0e+00 - 1.0e+01]

par name:	value	+/-	error	[ min - max ]
rhoMuonW_2b_ge4j_0:	1.00e+00	+/-	5.8e-02	[0.0e+00 - 3.0e+00]
rhoMuonW_2b_ge4j_1:	1.00e+00	+/-	5.8e-02	[0.0e+00 - 3.0e+00]
rhoMuonW_2b_ge4j_2:	1.00e+00	+/-	7.7e-02	[0.0e+00 - 3.0e+00]
rhoMuonW_2b_ge4j_3:	1.00e+00	+/-	1.3e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_2b_ge4j_4:	1.00e+00	+/-	1.3e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_2b_ge4j_5:	1.00e+00	+/-	1.3e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_2b_ge4j_6:	1.00e+00	+/-	1.3e-01	[0.0e+00 - 3.0e+00]
rhoMuonW_2b_ge4j_7:	1.00e+00	+/-	1.9e-01	[0.0e+00 - 3.0e+00]



# correlation\_matrix

