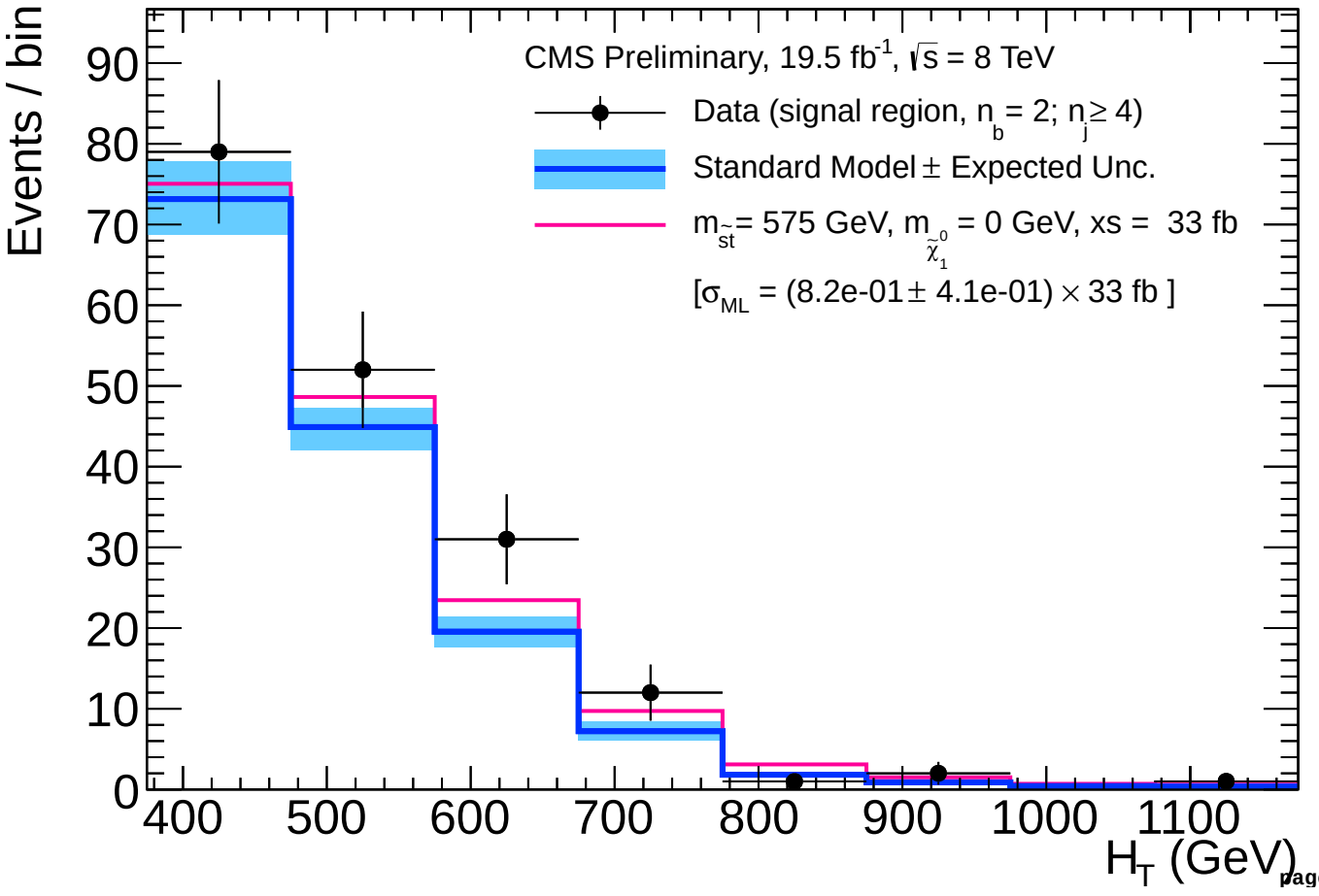
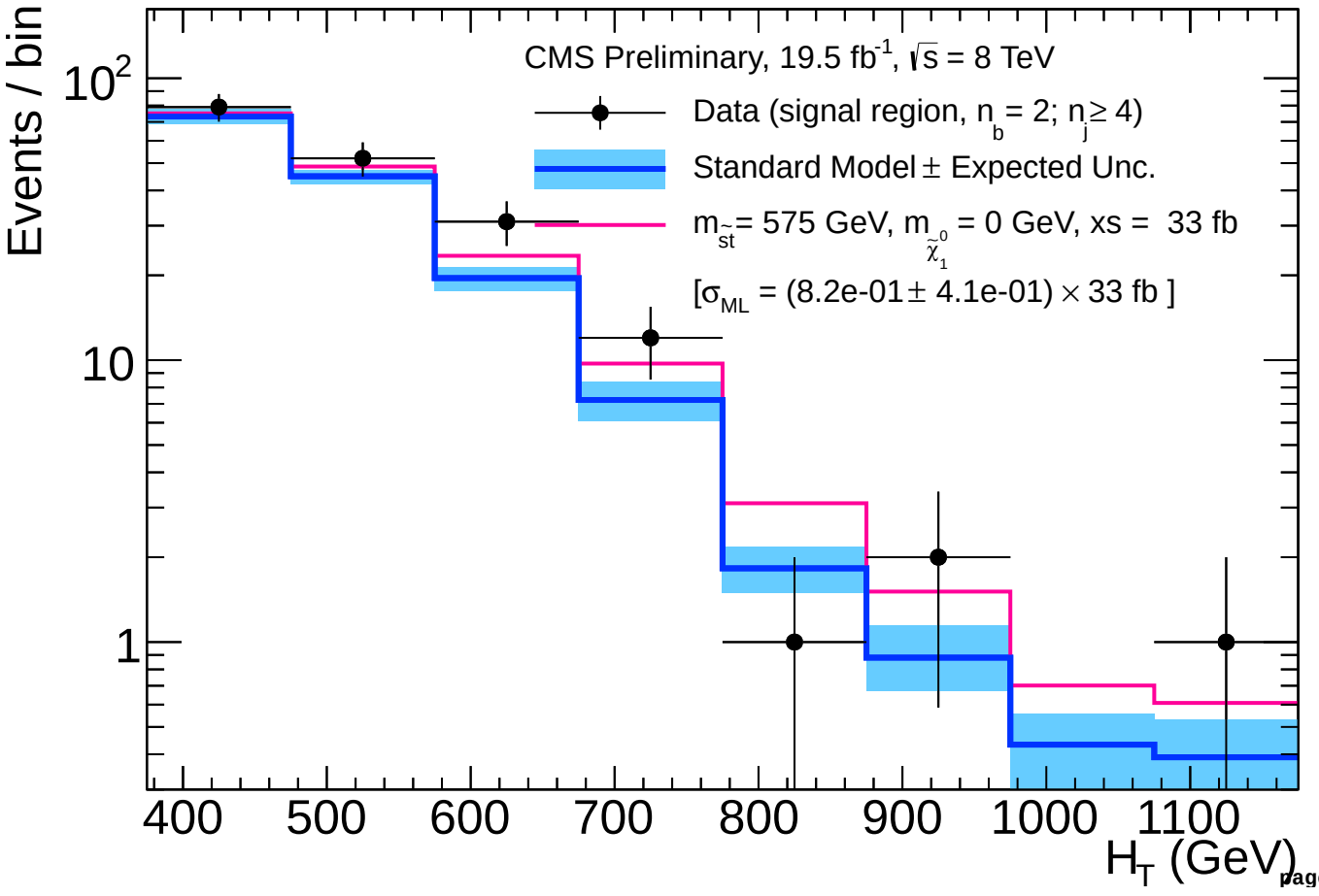
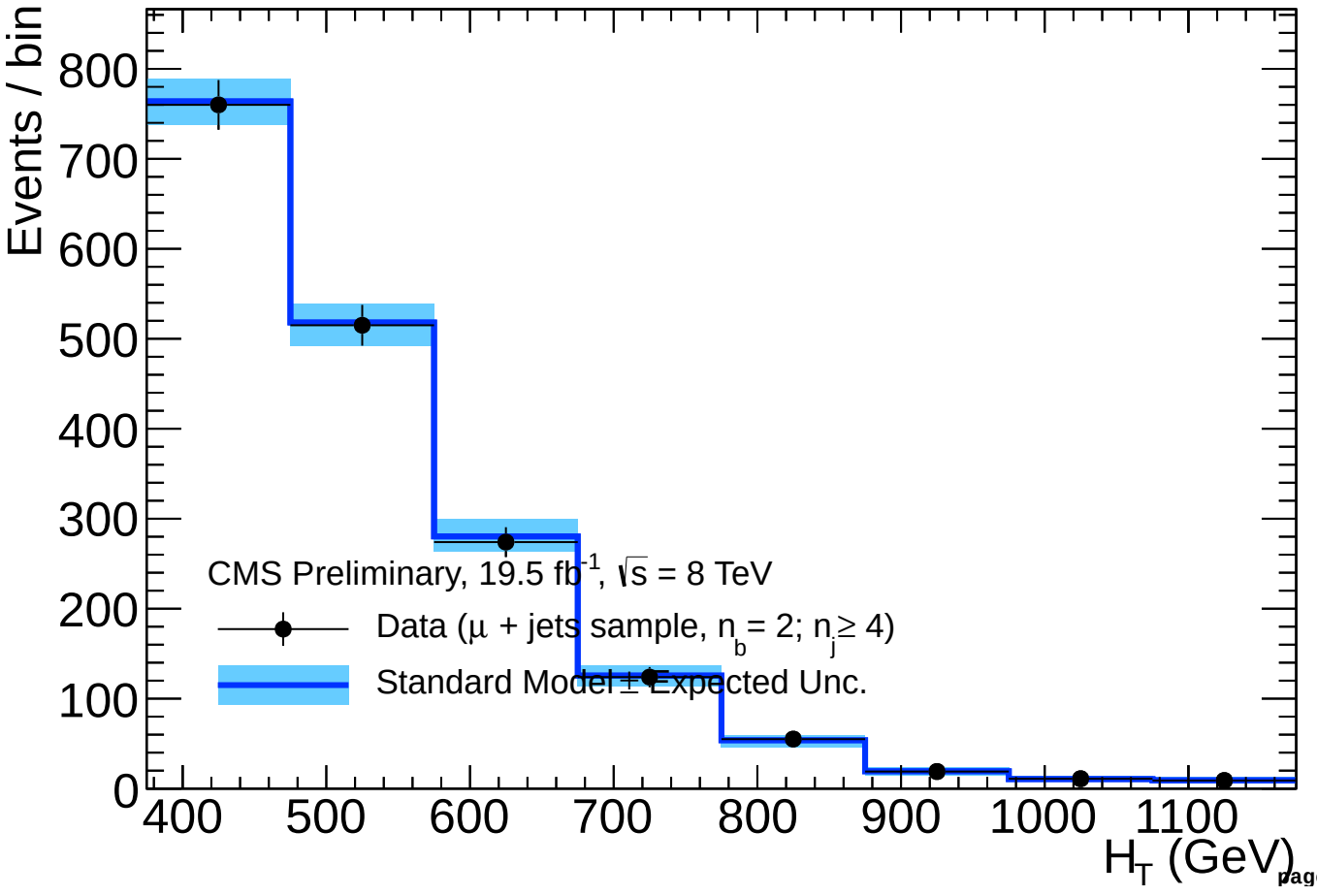
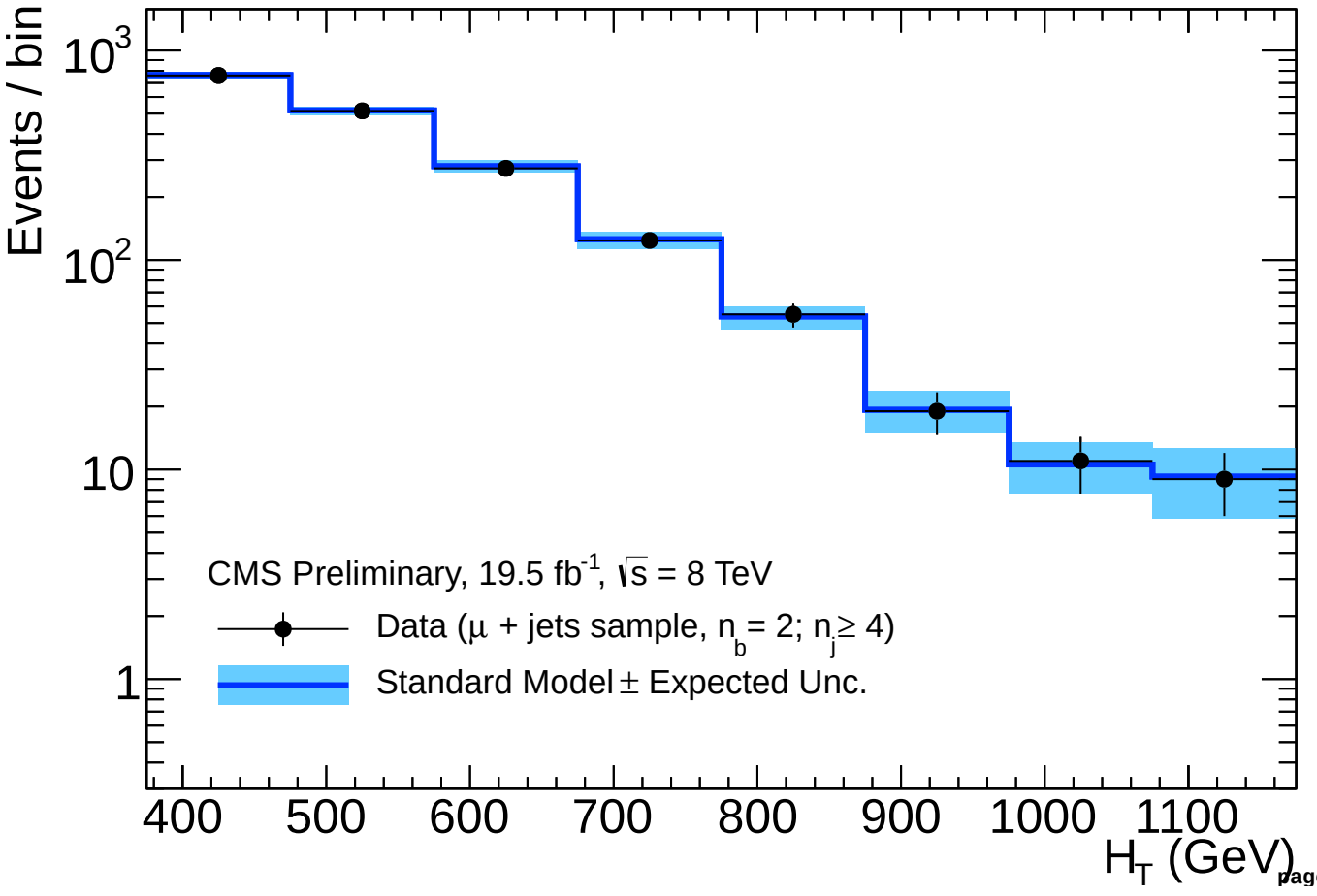
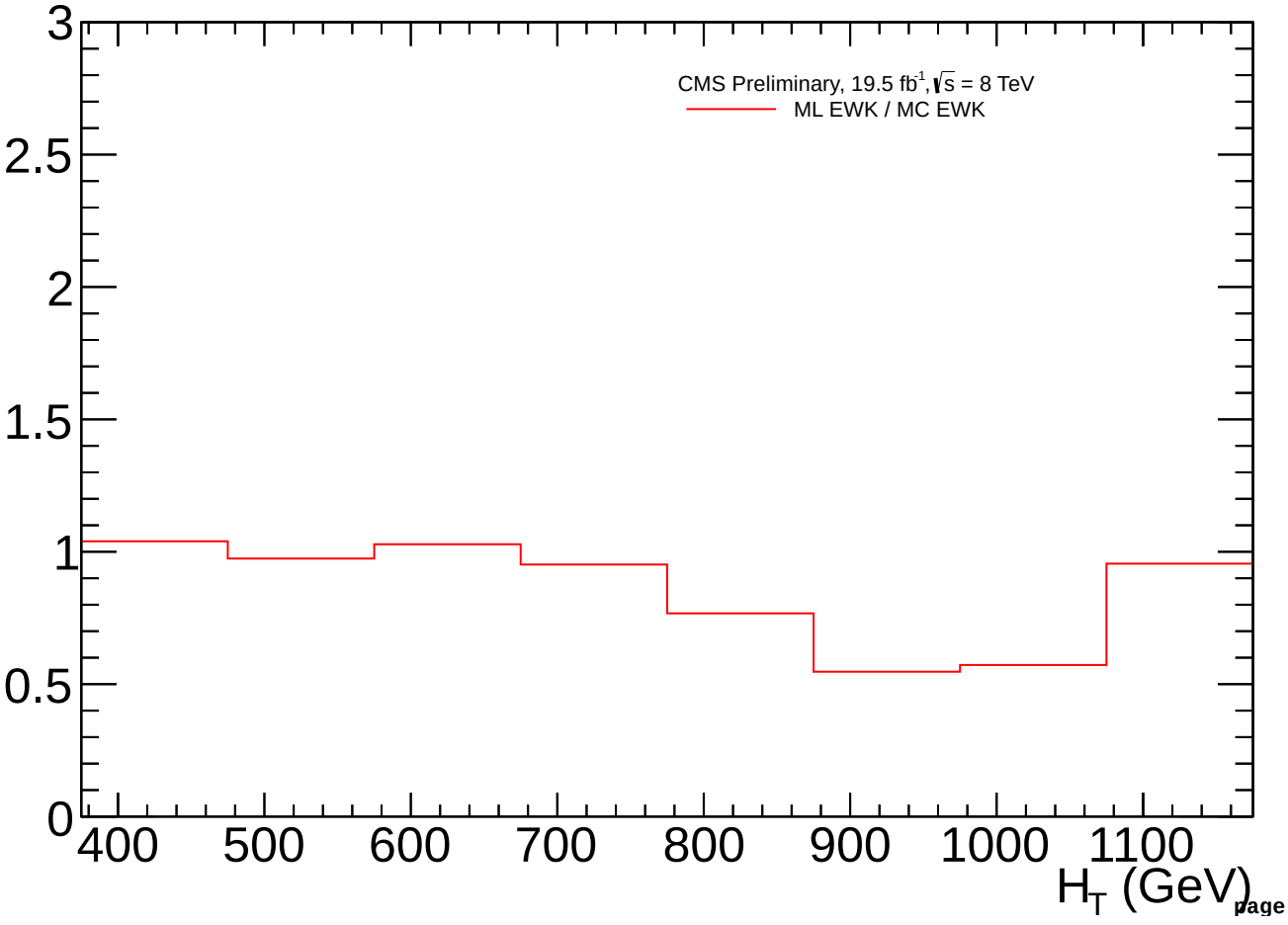

CMS Preliminary, 19.5 fb-1, √s = 8 TeV
Data (signal region, nb = 2; nj ≥ 4)
Standard Model ± Expected Unc.
m~st = 575 GeV, m~χ̃01 = 0 GeV, xs = 33 fb
[σML = (8.2e-01 ± 4.1e-01) × 33 fb]
Events / bin
HT (GeV)
0
10
20
30
40
50
60
70
80
90
400
500
600
700
800
900
1000
1100

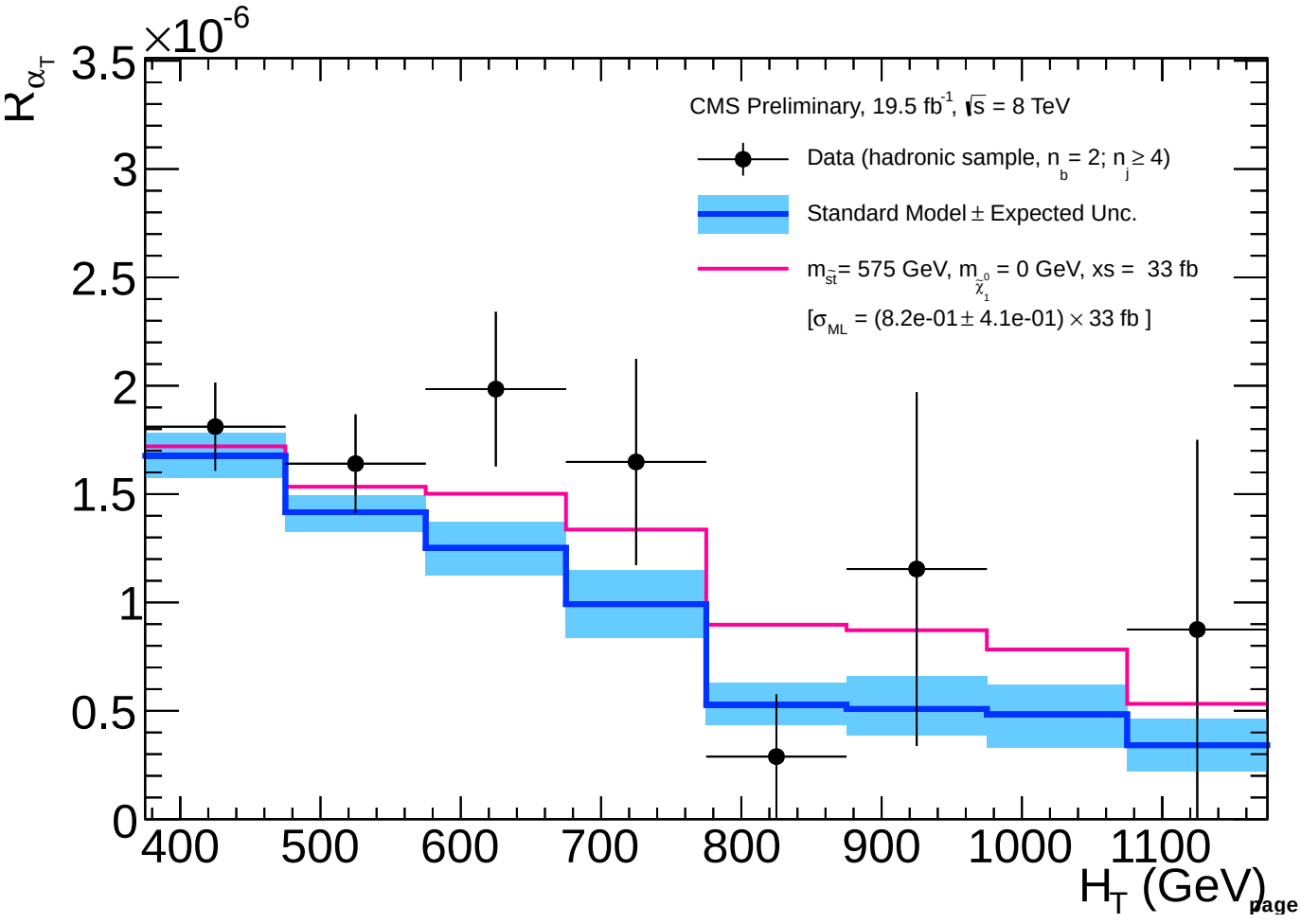

CMS Preliminary, 19.5 fb-1, √s = 8 TeV
Data (signal region, nb = 2; nj ≥ 4)
Standard Model ± Expected Unc.
m~st = 575 GeV, m~χ1 0 = 0 GeV, xs = 33 fb
[σML = (8.2e-01 ± 4.1e-01) × 33 fb]
Events / bin
HT (GeV)
10²
10
1
400
500
600
700
800
900
1000
1100

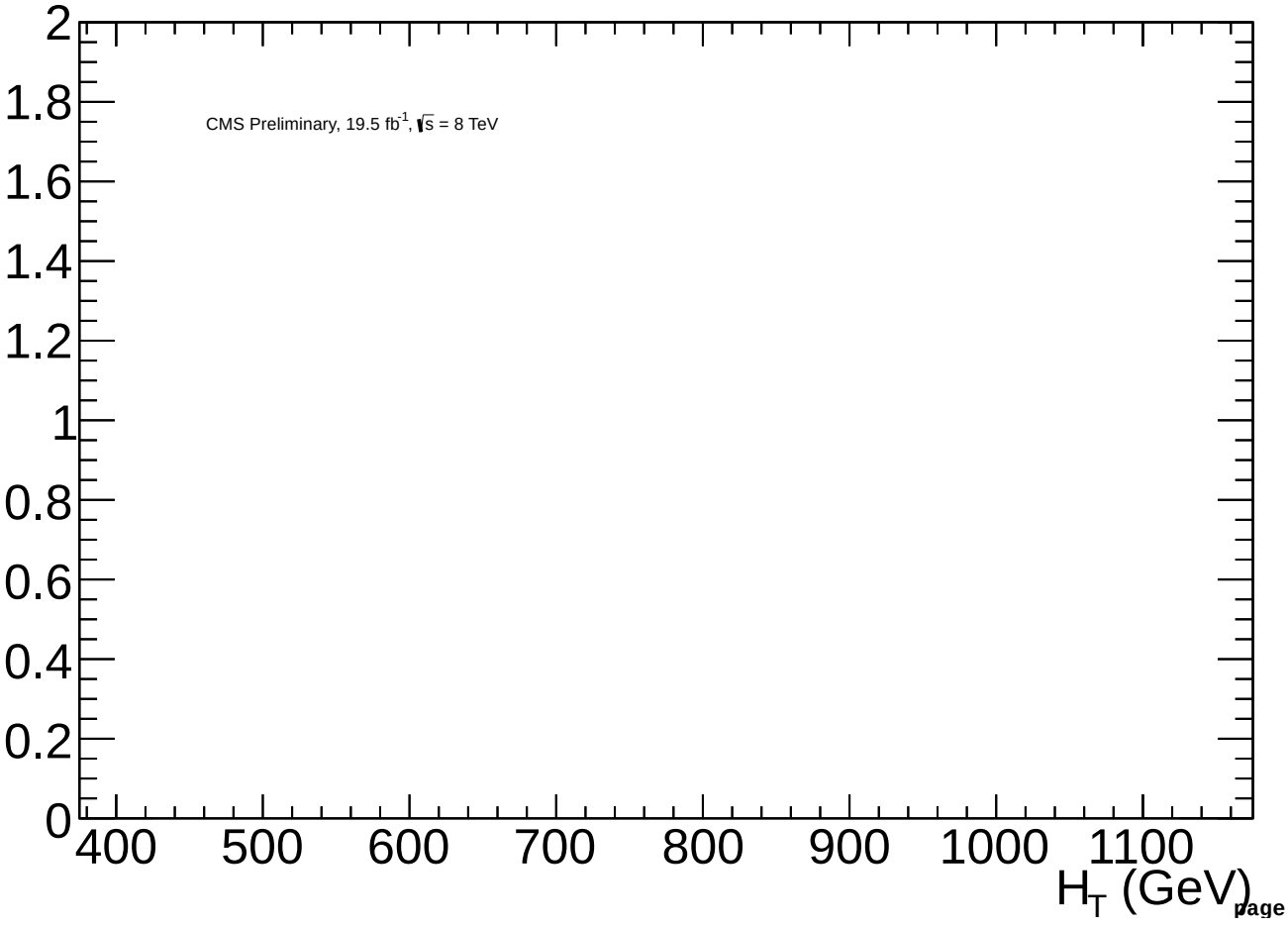

Events / bin
800
700
600
500
400
300
200
100
0
400
500
600
700
800
900
1000
1100
H_T (GeV)
CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV
Data (μ + jets sample, n_b = 2; $n_j \geq$ 4)
Standard Model ± Expected Unc.

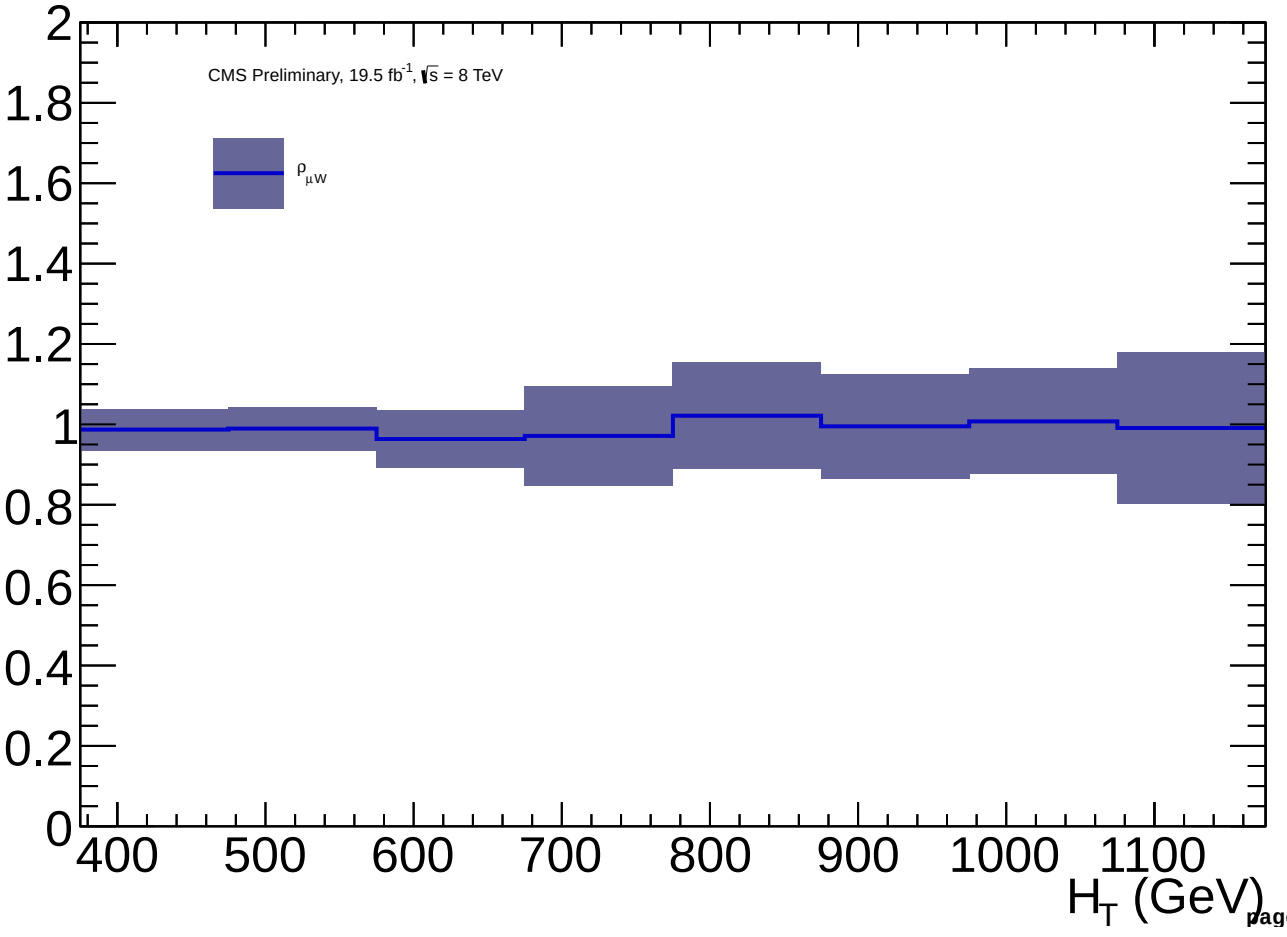

Events / bin
10^3
10^2
10
1
CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV
Data (μ + jets sample, n_b = 2; $n_j \geq$ 4)
Standard Model ± Expected Unc.
400
500
600
700
800
900
1000
1100
H_T (GeV)

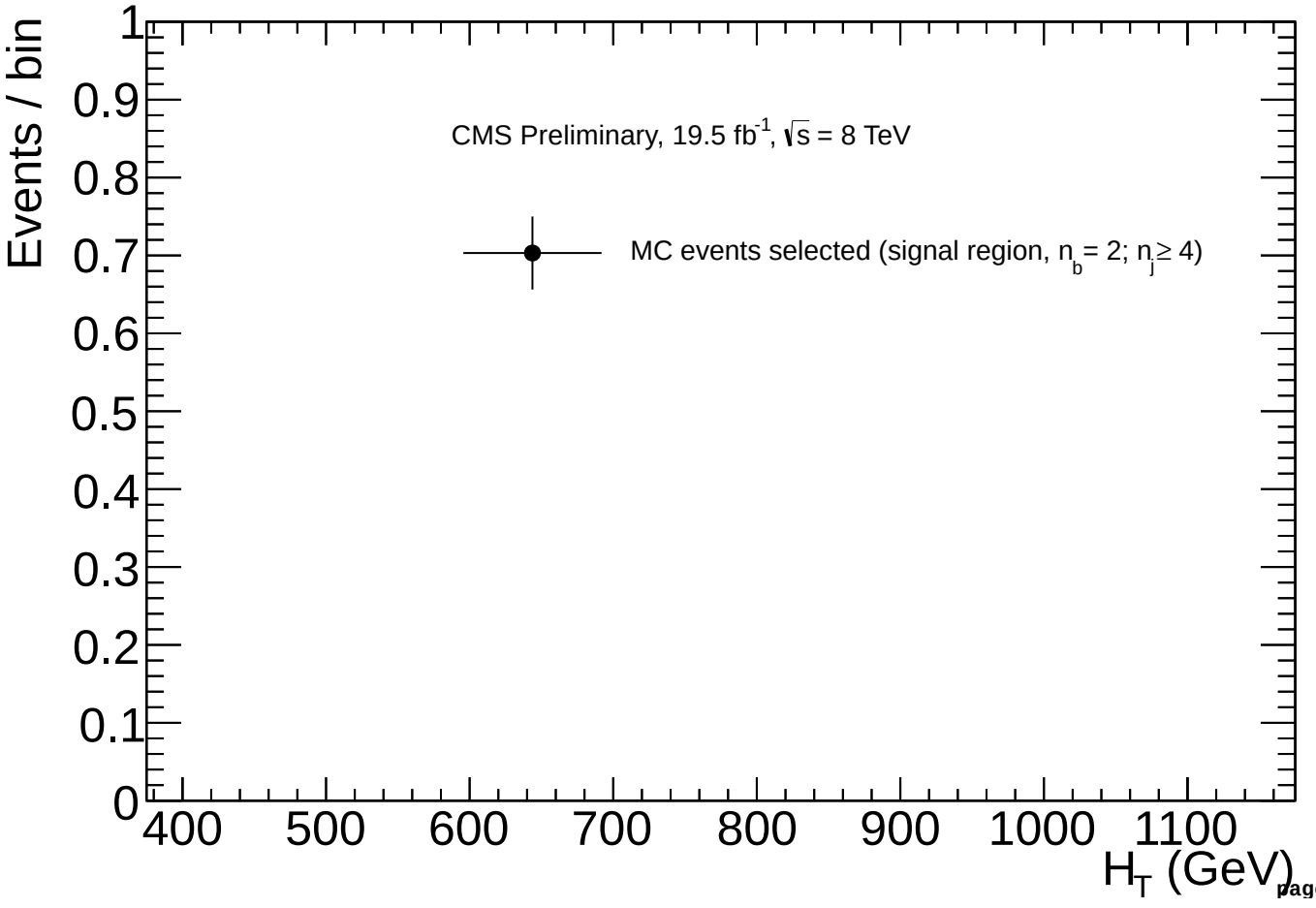
ewk scale factor (result of fit)

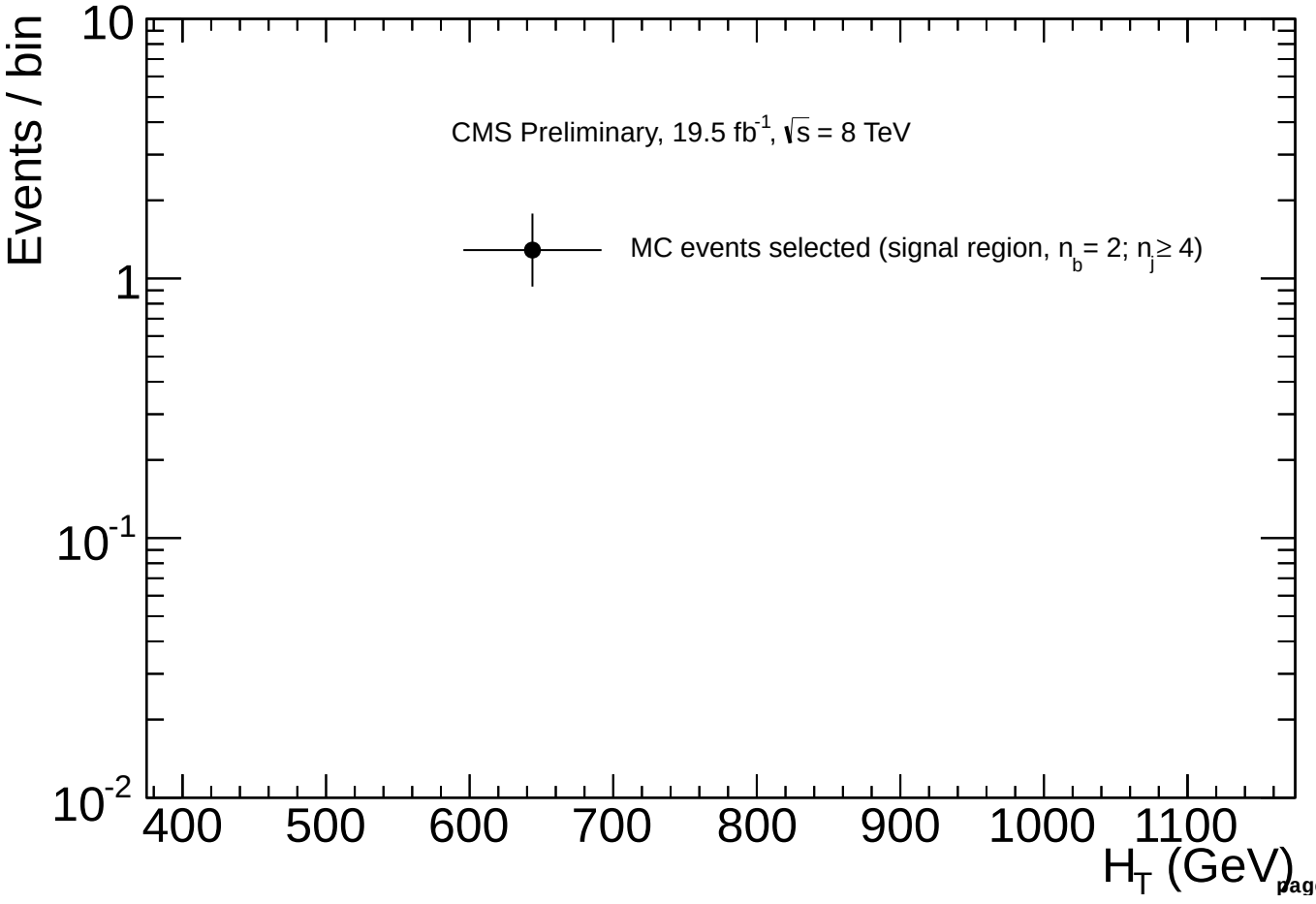



$\times 10^{-6}$
R_{α_T}
3.5
3
2.5
2
1.5
1
0.5
0
400
500
600
700
800
900
1000
1100
H_T (GeV)
CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV
Data (hadronic sample, $n_b = 2$; $n_j \geq 4$)
Standard Model $\pm$ Expected Unc.
$m_{\tilde{st}}$= 575 GeV, $m_{\tilde{\chi}_1^0}$ = 0 GeV, xs = 33 fb
[σ_{ML} = (8.2e-01 $\pm$ 4.1e-01) $\times$ 33 fb]

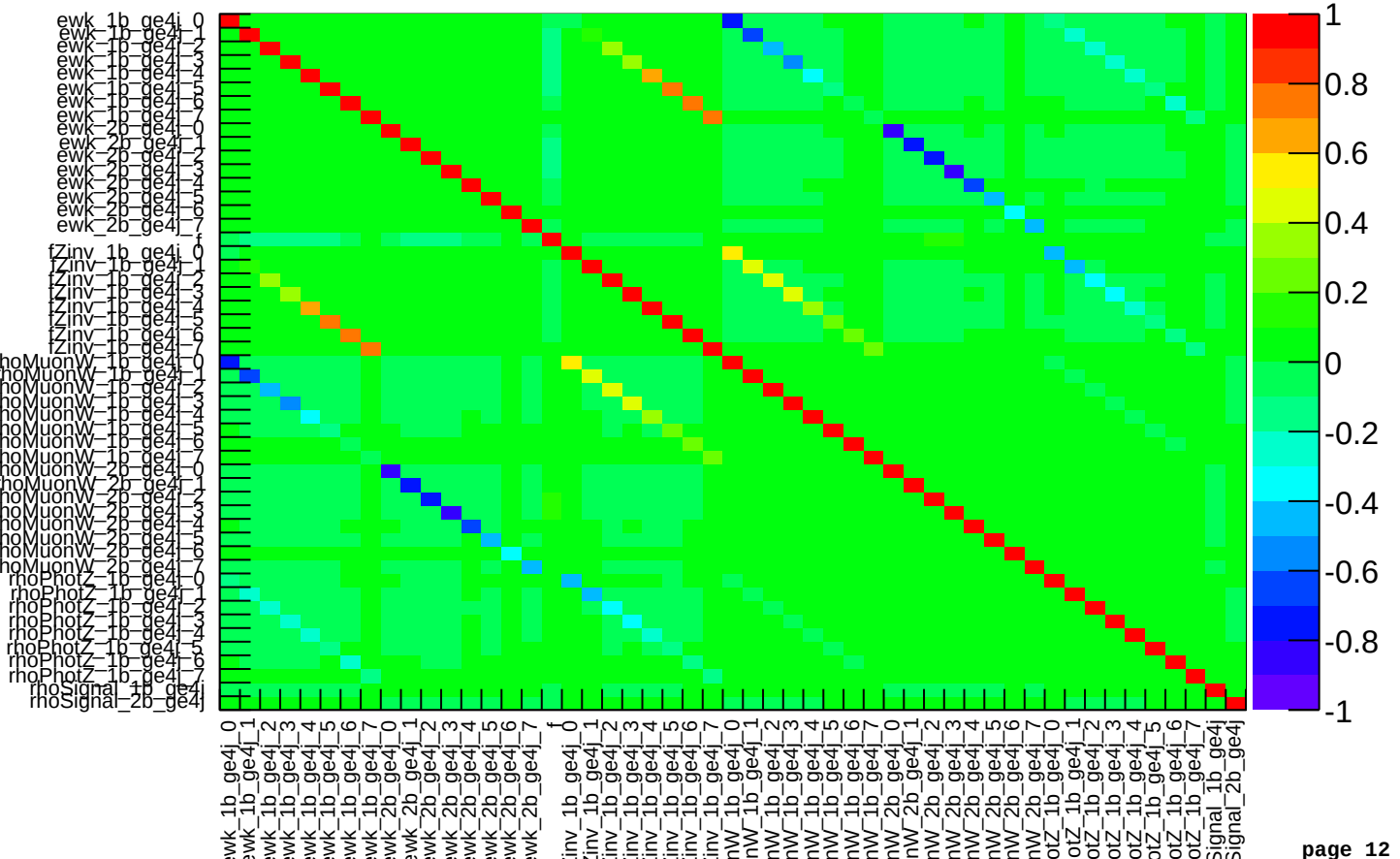

CMS Preliminary, 19.5 fb-1, √s = 8 TeV
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
500
600
700
800
900
1000
1100
HT (GeV)


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)


Events / bin
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
CMS Preliminary, 19.5 fb-1, √s = 8 TeV
MC events selected (signal region, nb = 2; nj ≥ 4)
400
500
600
700
800
900
1000
1100
HT (GeV)


Events / bin
10
1
10^{-1}
10^{-2}
CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV
MC events selected (signal region, $n_b = 2$; $n_j \geq 4$)
400
500
600
700
800
900
1000
1100
H_T (GeV)

par name:	value	+/-	error	[min	-	max]
f:	8.24e-01	+/-	4.1e-01	[0.0e+00	-	2.0e+00]
rhoSignal_1b_ge4j:	9.94e-01	+/-	6.6e-02	[0.0e+00	-	2.0e+00]
ewk_1b_ge4j_0:	1.89e+02	+/-	8.5e+00	[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:	1.18e+02	+/-	6.1e+00	[0.0e+00	-	1.4e+03]
fZinv_1b_ge4j_1:	2.93e-01	+/-	3.0e-02	[0.0e+00	-	1.0e+00]
ewk_1b_ge4j_2:	4.42e+01	+/-	3.6e+00	[0.0e+00	-	4.5e+02]
fZinv_1b_ge4j_2:	3.76e-01	+/-	4.8e-02	[0.0e+00	-	1.0e+00]
ewk_1b_ge4j_3:	1.64e+01	+/-	2.1e+00	[0.0e+00	-	1.4e+02]
fZinv_1b_ge4j_3:	3.46e-01	+/-	7.4e-02	[0.0e+00	-	1.0e+00]
ewk_1b_ge4j_4:	6.44e+00	+/-	1.2e+00	[0.0e+00	-	8.0e+01]
fZinv_1b_ge4j_4:	4.73e-01	+/-	1.0e-01	[0.0e+00	-	1.0e+00]
ewk_1b_ge4j_5:	5.09e+00	+/-	1.4e+00	[0.0e+00	-	6.0e+01]
fZinv_1b_ge4j_5:	5.56e-01	+/-	1.3e-01	[0.0e+00	-	1.0e+00]
ewk_1b_ge4j_6:	2.37e+00	+/-	7.9e-01	[0.0e+00	-	2.0e+01]
fZinv_1b_ge4j_6:	6.95e-01	+/-	1.1e-01	[0.0e+00	-	1.0e+00]
ewk_1b_ge4j_7:	1.21e+00	+/-	6.3e-01	[0.0e+00	-	1.0e+01]
fZinv_1b_ge4j_7:	7.20e-01	+/-	1.6e-01	[0.0e+00	-	1.0e+00]
rhoPhotZ_1b_ge4j_0:	9.89e-01	+/-	5.7e-02	[0.0e+00	-	3.0e+00]
rhoPhotZ_1b_ge4j_1:	9.90e-01	+/-	5.7e-02	[0.0e+00	-	3.0e+00]
rhoPhotZ_1b_ge4j_2:	1.01e+00	+/-	7.7e-02	[0.0e+00	-	3.0e+00]
rhoPhotZ_1b_ge4j_3:	1.03e+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:	1.01e+00	+/-	1.3e-01	[0.0e+00	-	3.0e+00]
rhoPhotZ_1b_ge4j_7:	1.03e+00	+/-	1.9e-01	[0.0e+00	-	3.0e+00]
rhoMuonW_1b_ge4j_0:	9.64e-01	+/-	4.9e-02	[0.0e+00	-	3.0e+00]
rhoMuonW_1b_ge4j_1:	9.76e-01	+/-	5.3e-02	[0.0e+00	-	3.0e+00]
rhoMuonW_1b_ge4j_2:	1.02e+00	+/-	7.5e-02	[0.0e+00	-	3.0e+00]
rhoMuonW_1b_ge4j_3:	1.06e+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:	1.01e+00	+/-	1.9e-01	[0.0e+00	-	3.0e+00]
rhoSignal_2b_ge4j:	1.01e+00	+/-	7.4e-02	[0.0e+00	-	2.0e+00]
ewk_2b_ge4j_0:	7.32e+01	+/-	4.4e+00	[0.0e+00	-	7.9e+02]
ewk_2b_ge4j_1:	4.49e+01	+/-	3.0e+00	[0.0e+00	-	5.2e+02]
ewk_2b_ge4j_2:	1.95e+01	+/-	1.8e+00	[0.0e+00	-	3.1e+02]
ewk_2b_ge4j_3:	7.22e+00	+/-	1.1e+00	[0.0e+00	-	1.2e+02]
ewk_2b_ge4j_4:	1.83e+00	+/-	3.4e-01	[0.0e+00	-	1.0e+01]

par name:	value	+/-	error	[min	-	max]
ewk_2b_ge4j_5:	8.81e-01	+/-	2.3e-01	[0.0e+00	-	2.0e+01]
ewk_2b_ge4j_6:	4.33e-01	+/-	1.4e-01	[0.0e+00	-	1.0e+01]
ewk_2b_ge4j_7:	3.90e-01	+/-	1.5e-01	[0.0e+00	-	1.0e+01]
rhoMuonW_2b_ge4j_0:	9.87e-01	+/-	5.2e-02	[0.0e+00	-	3.0e+00]
rhoMuonW_2b_ge4j_1:	9.90e-01	+/-	5.4e-02	[0.0e+00	-	3.0e+00]
rhoMuonW_2b_ge4j_2:	9.64e-01	+/-	7.2e-02	[0.0e+00	-	3.0e+00]
rhoMuonW_2b_ge4j_3:	9.71e-01	+/-	1.2e-01	[0.0e+00	-	3.0e+00]
rhoMuonW_2b_ge4j_4:	1.02e+00	+/-	1.3e-01	[0.0e+00	-	3.0e+00]
rhoMuonW_2b_ge4j_5:	9.95e-01	+/-	1.3e-01	[0.0e+00	-	3.0e+00]
rhoMuonW_2b_ge4j_6:	1.01e+00	+/-	1.3e-01	[0.0e+00	-	3.0e+00]
rhoMuonW_2b_ge4j_7:	9.91e-01	+/-	1.9e-01	[0.0e+00	-	3.0e+00]

correlation_matrix