CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV

Data (signal region, n_b = 1; $n_j \leq$ 3)

Standard Model $\pm$ Expected Unc.

Events / bin

H_T (GeV)

CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV

Data (μ + jets sample, n_b = 1; $n_j \leq$ 3)

Standard Model $\pm$ Expected Unc.

H_T (GeV)

CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV

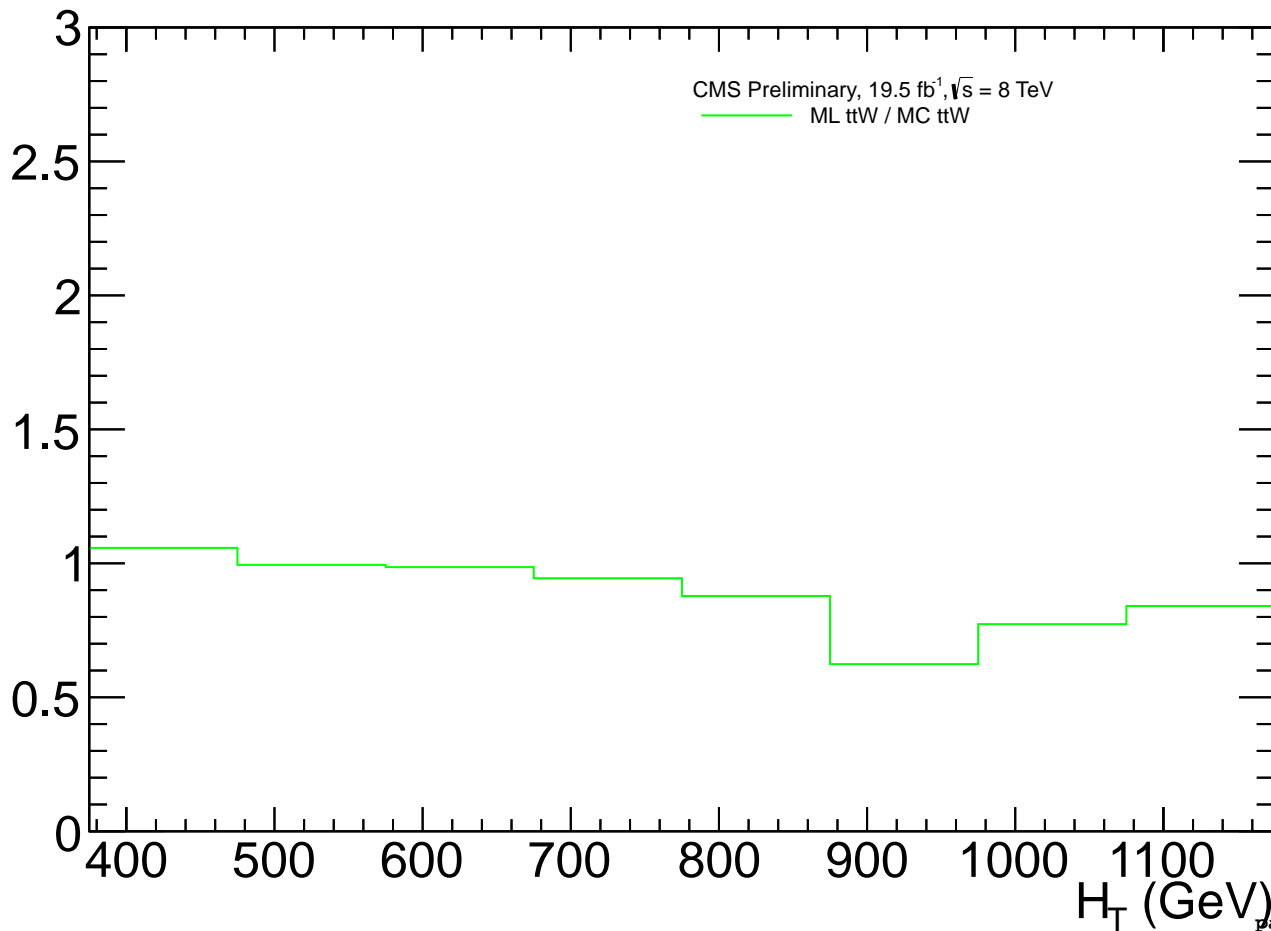Data (γ + jets sample, n_b = 1; $n_j \leq$ 3)

Standard Model $\pm$ Expected Unc.

Events / bin

H_T (GeV)

ttW scale factor (result of fit)
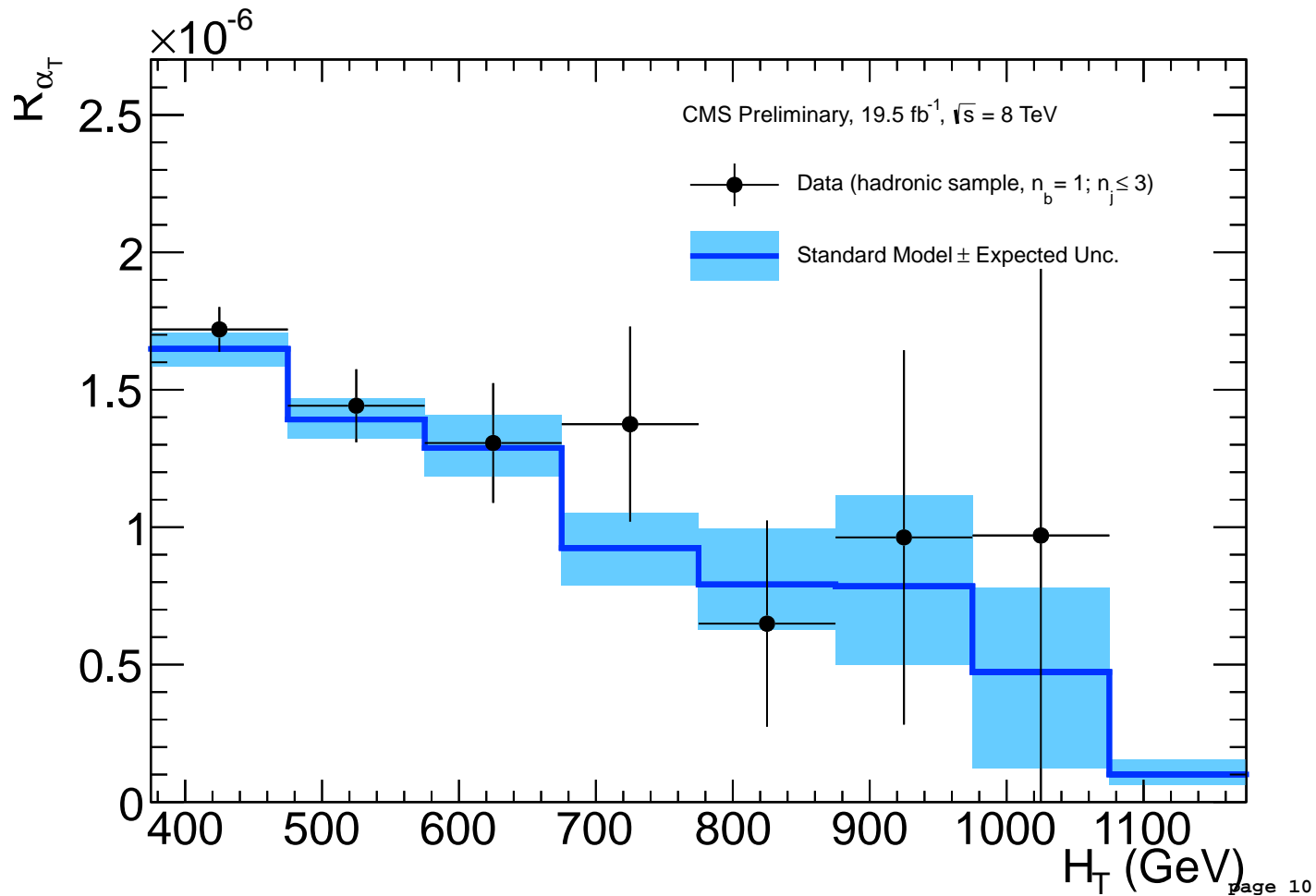

CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV

ML ttW / MC ttW

H_T (GeV)

Zinv scale factor (result of fit)

CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV

— ML Z->inv / MC Z->inv

H_T (GeV)

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

CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV

fit $Z \to \nu\bar{\nu}$ / EWK

H_T (GeV)

CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV

$\rho_{\gamma Z}$

H_T (GeV)

CMS Preliminary, 19.5 fb^{-1}, $\sqrt{s}$ = 8 TeV

$\rho_{\mu W}$

H_T (GeV)
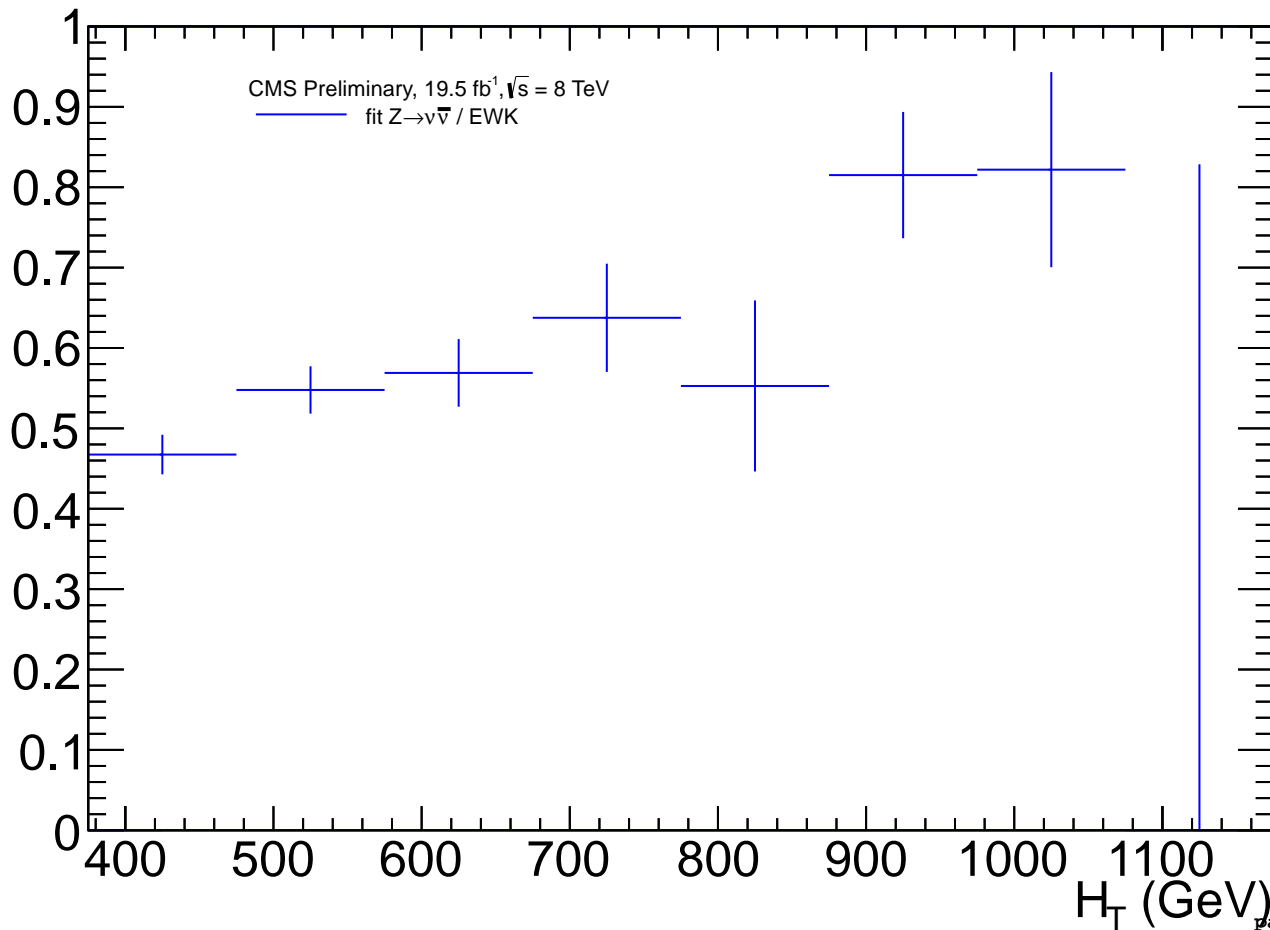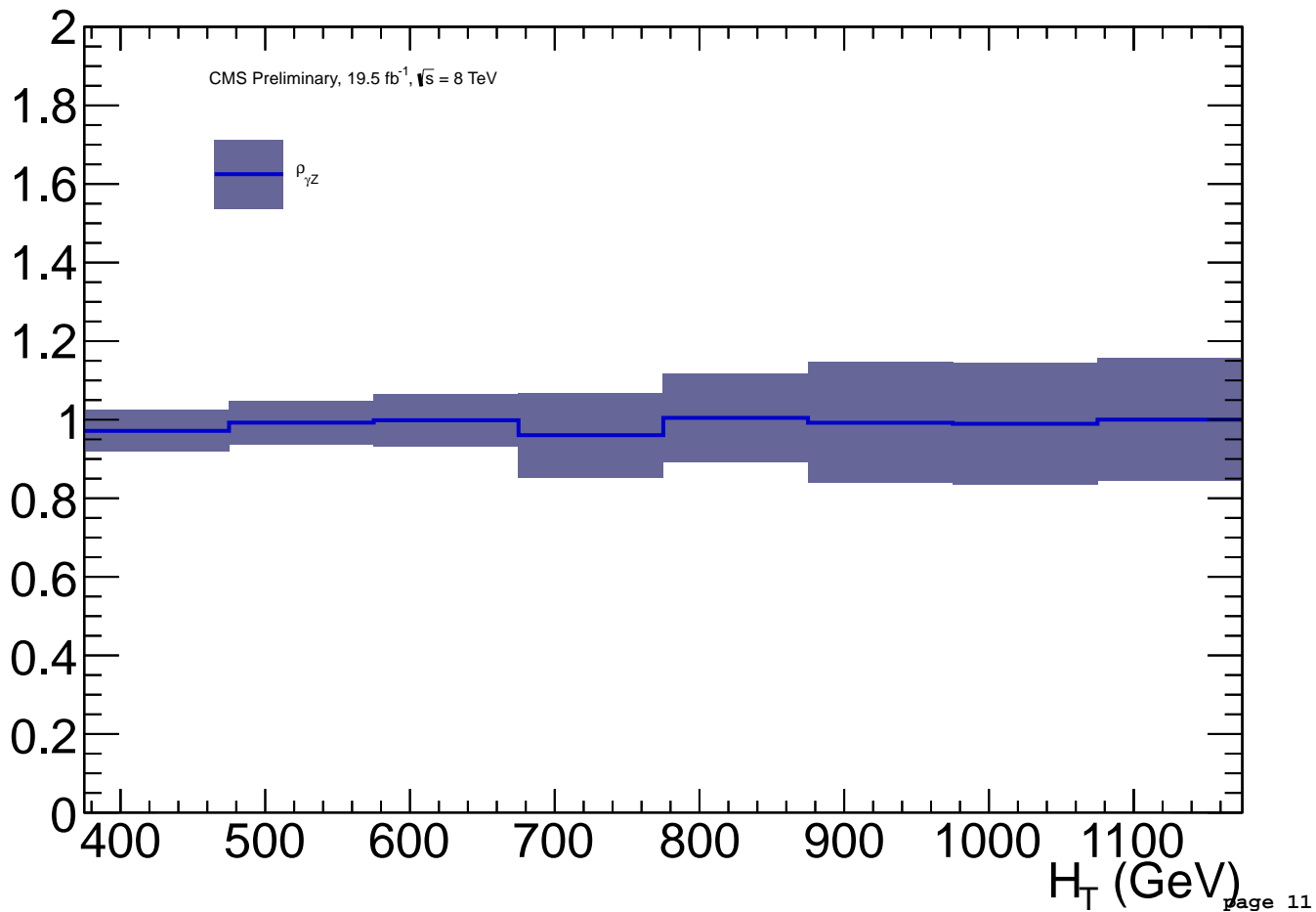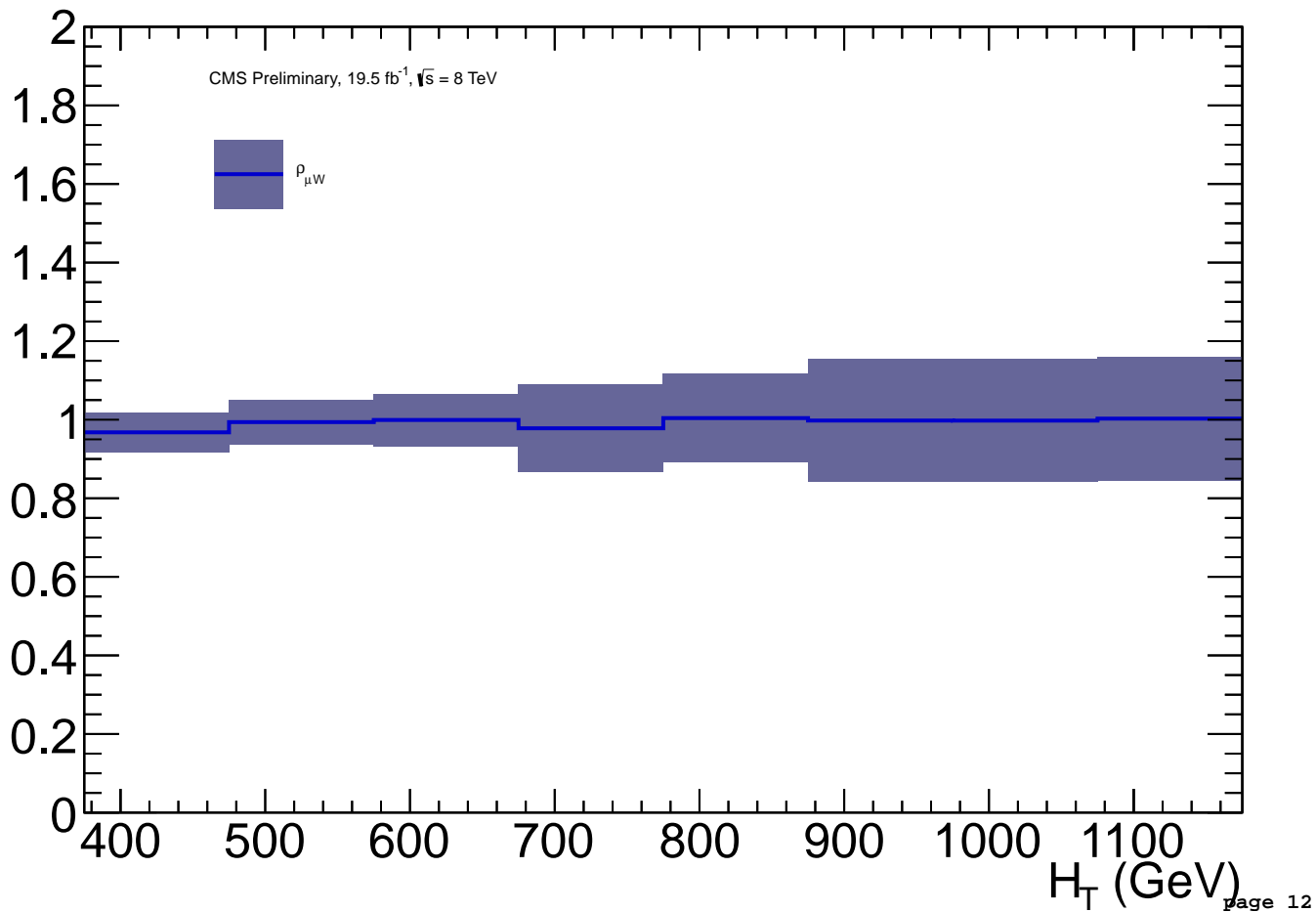
```
           par name:    value  +/-  error   [  min   -   max  ]
----------------------------------------------------------------
     ewk_1b_le3j_0:   4.26e+02 +/- 1.5e+01  [0.0e+00 - 4.4e+03]
   fZinv_1b_le3j_0:   4.67e-01 +/- 2.5e-02  [0.0e+00 - 1.0e+00]
     ewk_1b_le3j_1:   1.14e+02 +/- 6.0e+00  [0.0e+00 - 1.2e+03]
   fZinv_1b_le3j_1:   5.48e-01 +/- 2.9e-02  [0.0e+00 - 1.0e+00]
     ewk_1b_le3j_2:   3.55e+01 +/- 3.0e+00  [0.0e+00 - 3.6e+02]
   fZinv_1b_le3j_2:   5.69e-01 +/- 4.2e-02  [0.0e+00 - 1.0e+00]
     ewk_1b_le3j_3:   1.01e+01 +/- 1.6e+00  [0.0e+00 - 1.5e+02]
   fZinv_1b_le3j_3:   6.38e-01 +/- 6.7e-02  [0.0e+00 - 1.0e+00]
     ewk_1b_le3j_4:   3.66e+00 +/- 8.2e-01  [0.0e+00 - 3.0e+01]
   fZinv_1b_le3j_4:   5.53e-01 +/- 1.1e-01  [0.0e+00 - 1.0e+00]
     ewk_1b_le3j_5:   1.63e+00 +/- 6.0e-01  [0.0e+00 - 2.0e+01]
   fZinv_1b_le3j_5:   8.15e-01 +/- 7.9e-02  [0.0e+00 - 1.0e+00]
     ewk_1b_le3j_6:   4.88e-01 +/- 3.1e-01  [0.0e+00 - 1.0e+01]
   fZinv_1b_le3j_6:   8.22e-01 +/- 1.2e-01  [0.0e+00 - 1.0e+00]
     ewk_1b_le3j_7:   1.21e-01 +/- 4.7e-02  [0.0e+00 - 1.0e+01]
   fZinv_1b_le3j_7:   3.90e-06 +/- 8.3e-01  [0.0e+00 - 1.0e+00]
rhoPhotZ_1b_le3j_0:   9.72e-01 +/- 5.2e-02  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_le3j_1:   9.93e-01 +/- 5.6e-02  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_le3j_2:   9.99e-01 +/- 6.6e-02  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_le3j_3:   9.61e-01 +/- 1.1e-01  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_le3j_4:   1.00e+00 +/- 1.1e-01  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_le3j_5:   9.92e-01 +/- 1.5e-01  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_le3j_6:   9.90e-01 +/- 1.5e-01  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_le3j_7:   1.00e+00 +/- 1.6e-01  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_le3j_0:   9.68e-01 +/- 5.1e-02  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_le3j_1:   9.94e-01 +/- 5.6e-02  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_le3j_2:   9.99e-01 +/- 6.7e-02  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_le3j_3:   9.78e-01 +/- 1.1e-01  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_le3j_4:   1.00e+00 +/- 1.1e-01  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_le3j_5:   9.98e-01 +/- 1.6e-01  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_le3j_6:   9.98e-01 +/- 1.6e-01  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_le3j_7:   1.00e+00 +/- 1.6e-01  [0.0e+00 - 3.0e+00]
```

correlation_matrix