CMS Preliminary, 18.7 fb^{-1}, $\sqrt{s}$ = 8 TeV

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

Standard Model $\pm$ Expected Unc.

CMS Preliminary, 18.7 fb^{-1}, $\sqrt{s}$ = 8 TeV

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

Standard Model $\pm$ Expected Unc.

Events / bin

H_T (GeV)

CMS Preliminary, 18.7 fb^{-1}, $\sqrt{s}$ = 8 TeV

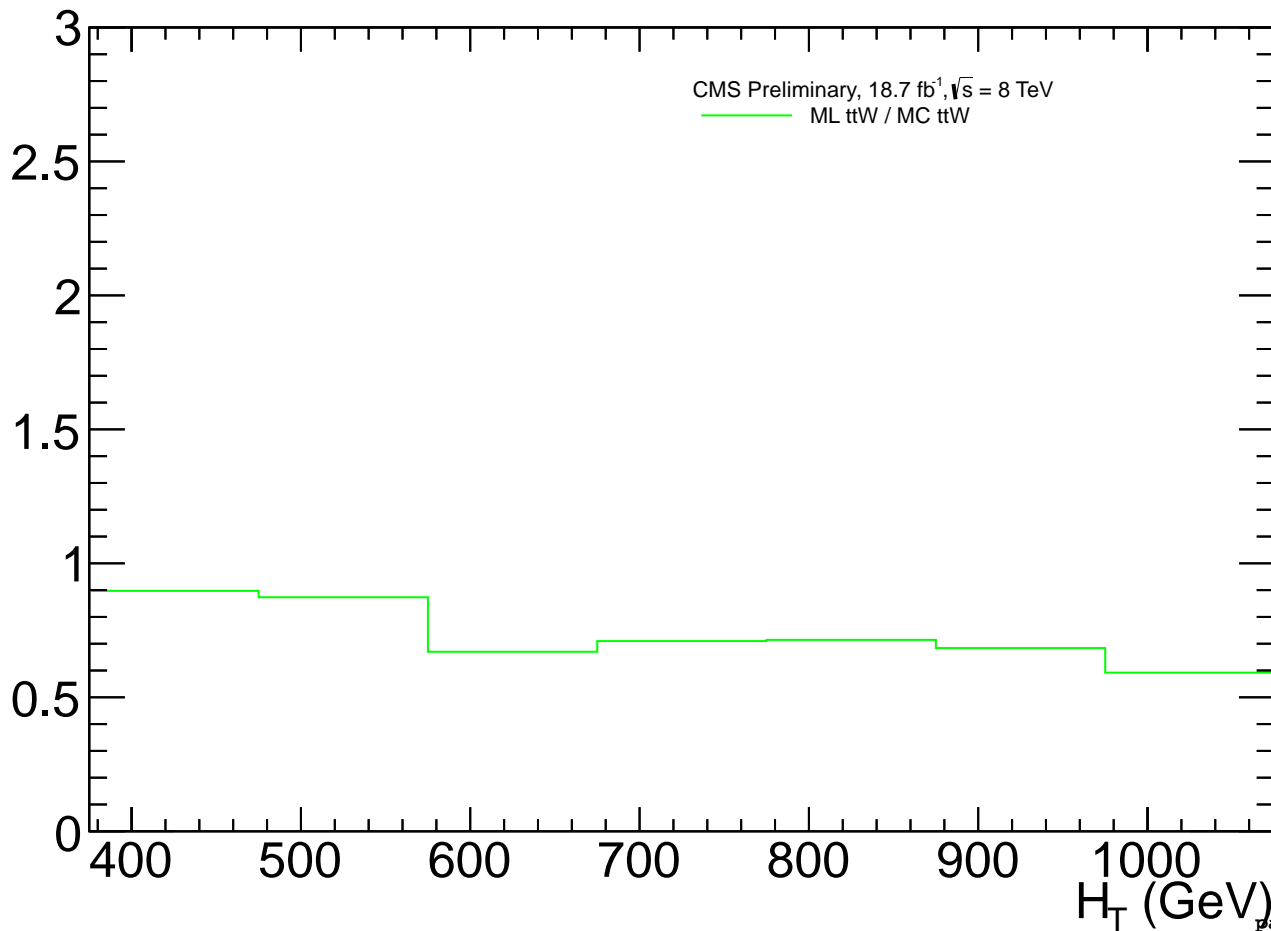Data (γ + jets sample, n_b = 1; $n_j \geq$ 4)

Standard Model $\pm$ Expected Unc.

Events / bin

H_T (GeV)

ttW scale factor (result of fit)
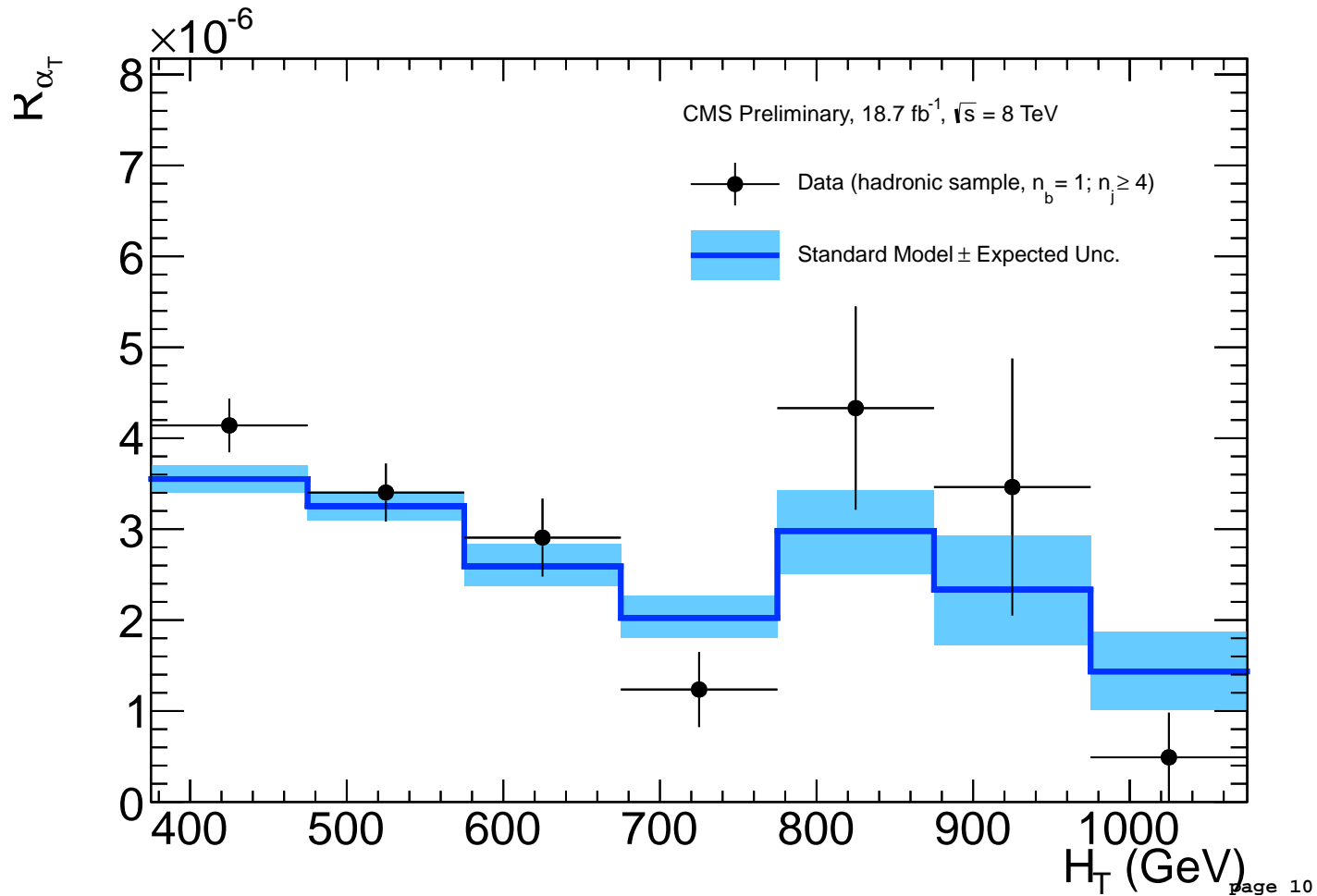

CMS Preliminary, 18.7 fb^{-1}, $\sqrt{s}$ = 8 TeV

—— ML ttW / MC ttW

H_T (GeV)

Zinv scale factor (result of fit)

CMS Preliminary, 18.7 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, 18.7 fb^{-1}, $\sqrt{s}$ = 8 TeV

— fit Z→ν$\bar{ν}$ / EWK

H_T (GeV)

CMS Preliminary, 18.7 fb^{-1}, $\sqrt{s}$ = 8 TeV

Data (hadronic sample, n$_b$ = 1; n$_j$ ≥ 4)

Standard Model ± Expected Unc.

R_{α_T}

$\times 10^{-6}$

H_T (GeV)

CMS Preliminary, 18.7 fb^{-1}, $\sqrt{s}$ = 8 TeV

$\rho_{\gamma Z}$

H_T (GeV)

CMS Preliminary, 18.7 fb^{-1}, $\sqrt{s}$ = 8 TeV

$\rho_{\mu W}$

H_T (GeV)
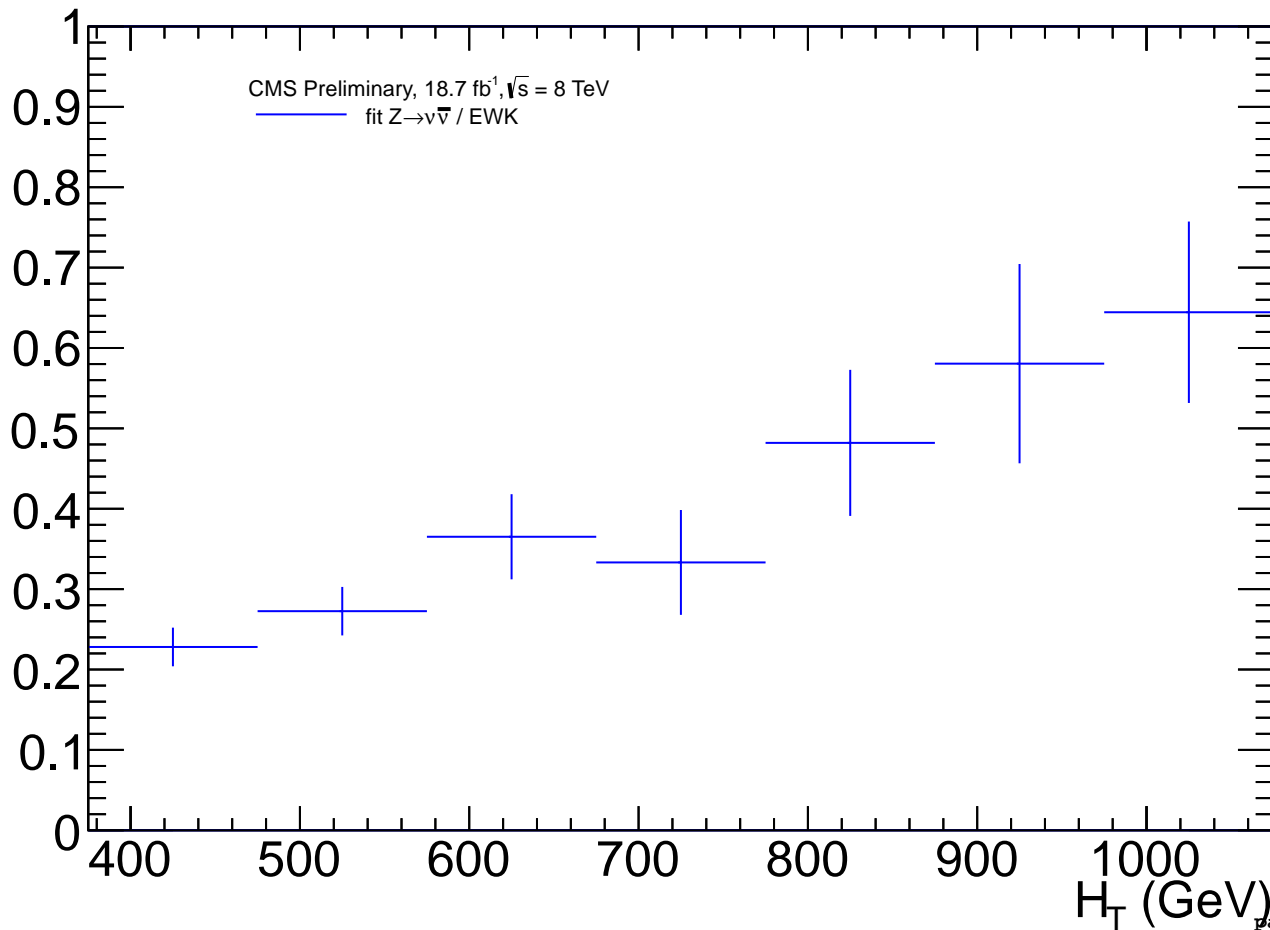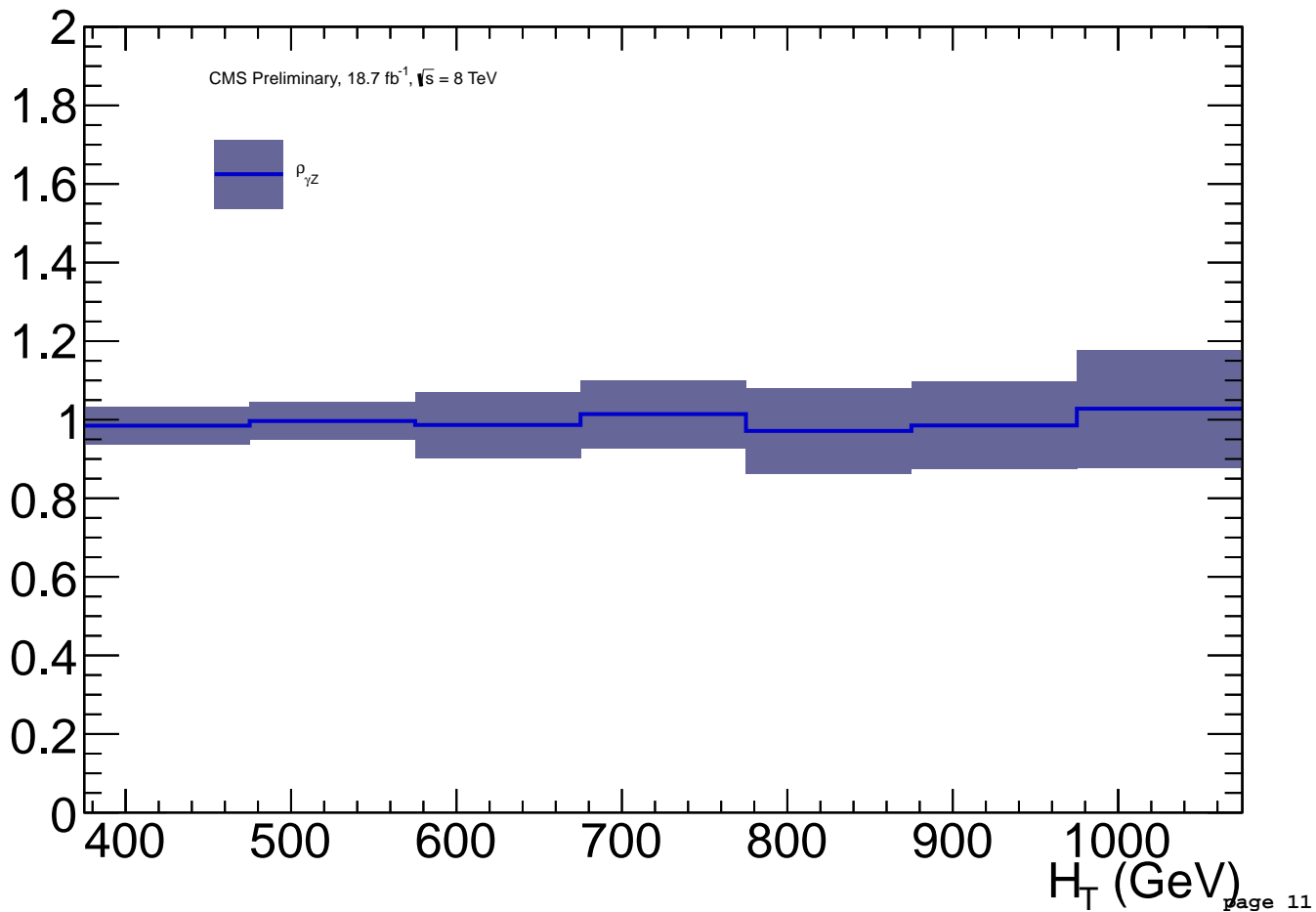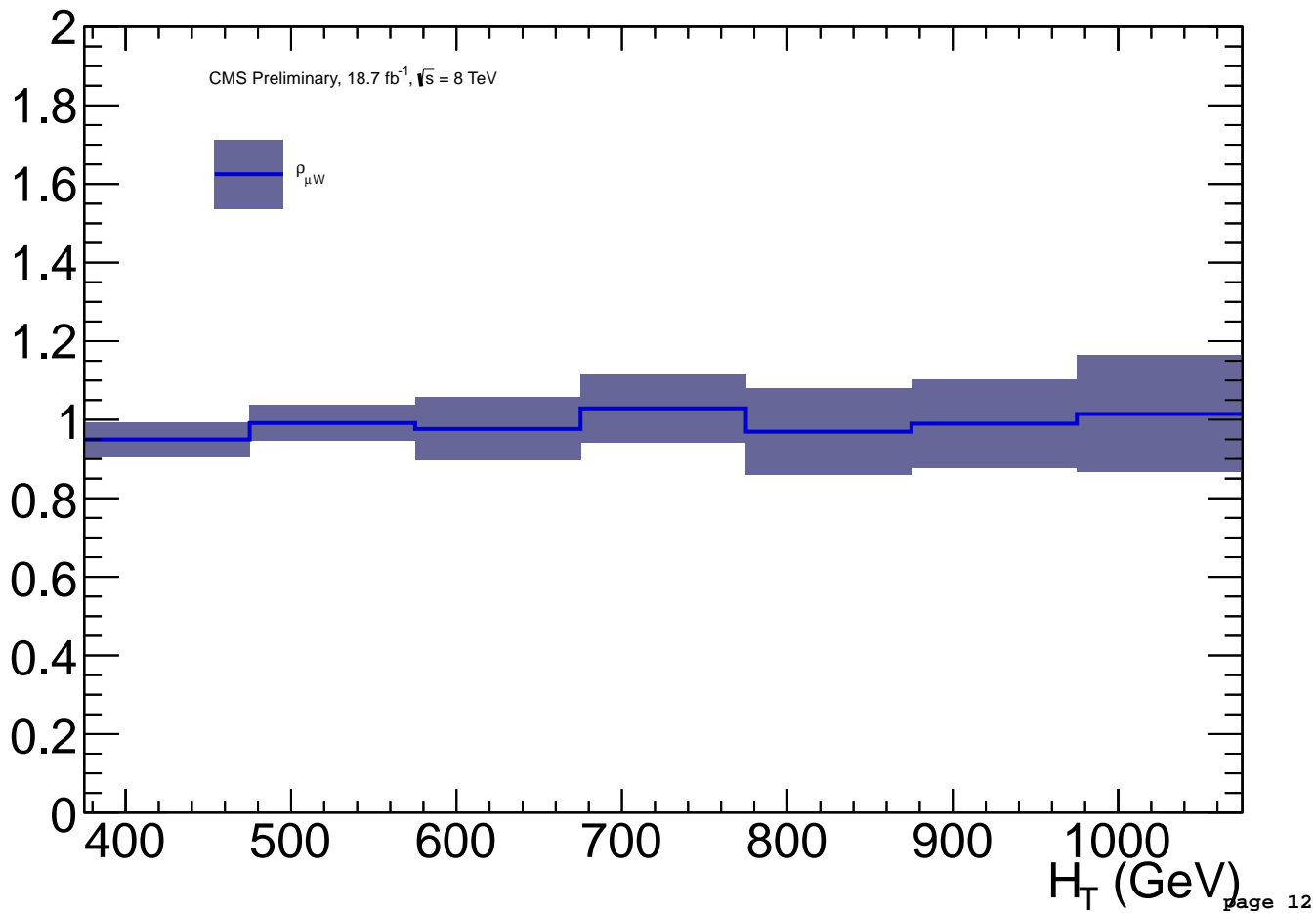
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         par name:    value  +/-  error   [  min   -   max  ]
----------------------------------------------------------------
    ewk_1b_ge4j_0:  1.69e+02 +/- 7.3e+00  [0.0e+00 - 2.0e+03]
   fZinv_1b_ge4j_0:  2.28e-01 +/- 2.4e-02  [0.0e+00 - 1.0e+00]
    ewk_1b_ge4j_1:  1.09e+02 +/- 5.4e+00  [0.0e+00 - 1.1e+03]
   fZinv_1b_ge4j_1:  2.73e-01 +/- 3.0e-02  [0.0e+00 - 1.0e+00]
    ewk_1b_ge4j_2:  4.10e+01 +/- 3.4e+00  [0.0e+00 - 4.6e+02]
   fZinv_1b_ge4j_2:  3.65e-01 +/- 5.3e-02  [0.0e+00 - 1.0e+00]
    ewk_1b_ge4j_3:  1.47e+01 +/- 1.6e+00  [0.0e+00 - 9.0e+01]
   fZinv_1b_ge4j_3:  3.33e-01 +/- 6.5e-02  [0.0e+00 - 1.0e+00]
    ewk_1b_ge4j_4:  1.03e+01 +/- 1.6e+00  [0.0e+00 - 1.5e+02]
   fZinv_1b_ge4j_4:  4.82e-01 +/- 9.1e-02  [0.0e+00 - 1.0e+00]
    ewk_1b_ge4j_5:  4.05e+00 +/- 1.1e+00  [0.0e+00 - 6.0e+01]
   fZinv_1b_ge4j_5:  5.81e-01 +/- 1.2e-01  [0.0e+00 - 1.0e+00]
    ewk_1b_ge4j_6:  2.92e+00 +/- 8.5e-01  [0.0e+00 - 1.0e+01]
   fZinv_1b_ge4j_6:  6.44e-01 +/- 1.1e-01  [0.0e+00 - 1.0e+00]
rhoPhotZ_1b_ge4j_0:  9.85e-01 +/- 4.8e-02  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_1:  9.97e-01 +/- 4.8e-02  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_2:  9.87e-01 +/- 8.4e-02  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_3:  1.01e+00 +/- 8.7e-02  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_4:  9.71e-01 +/- 1.1e-01  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_5:  9.85e-01 +/- 1.1e-01  [0.0e+00 - 3.0e+00]
rhoPhotZ_1b_ge4j_6:  1.03e+00 +/- 1.5e-01  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_0:  9.50e-01 +/- 4.3e-02  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_1:  9.91e-01 +/- 4.6e-02  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_2:  9.76e-01 +/- 8.1e-02  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_3:  1.03e+00 +/- 8.6e-02  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_4:  9.69e-01 +/- 1.1e-01  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_5:  9.90e-01 +/- 1.1e-01  [0.0e+00 - 3.0e+00]
rhoMuonW_1b_ge4j_6:  1.01e+00 +/- 1.5e-01  [0.0e+00 - 3.0e+00]
```

correlation_matrix