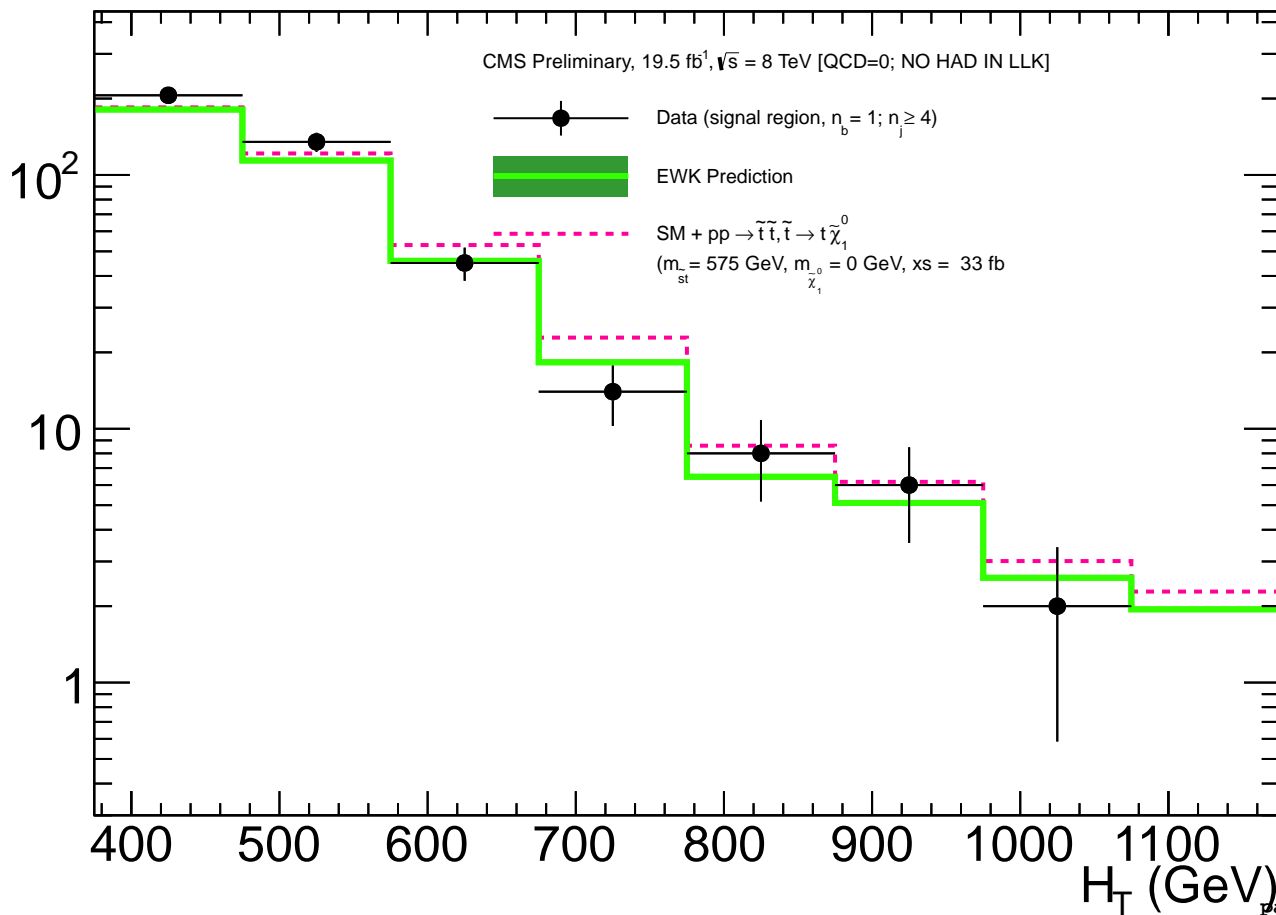
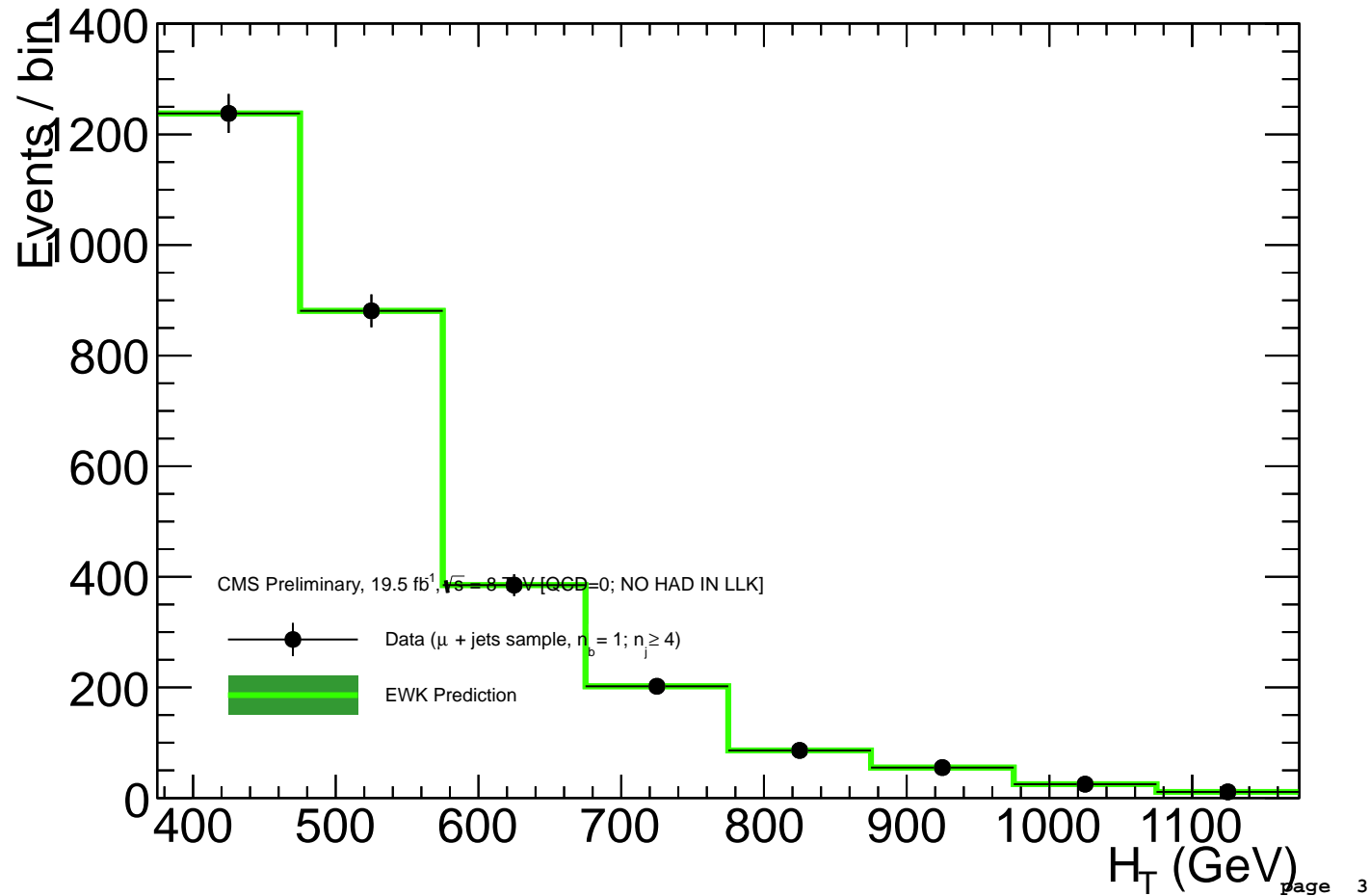
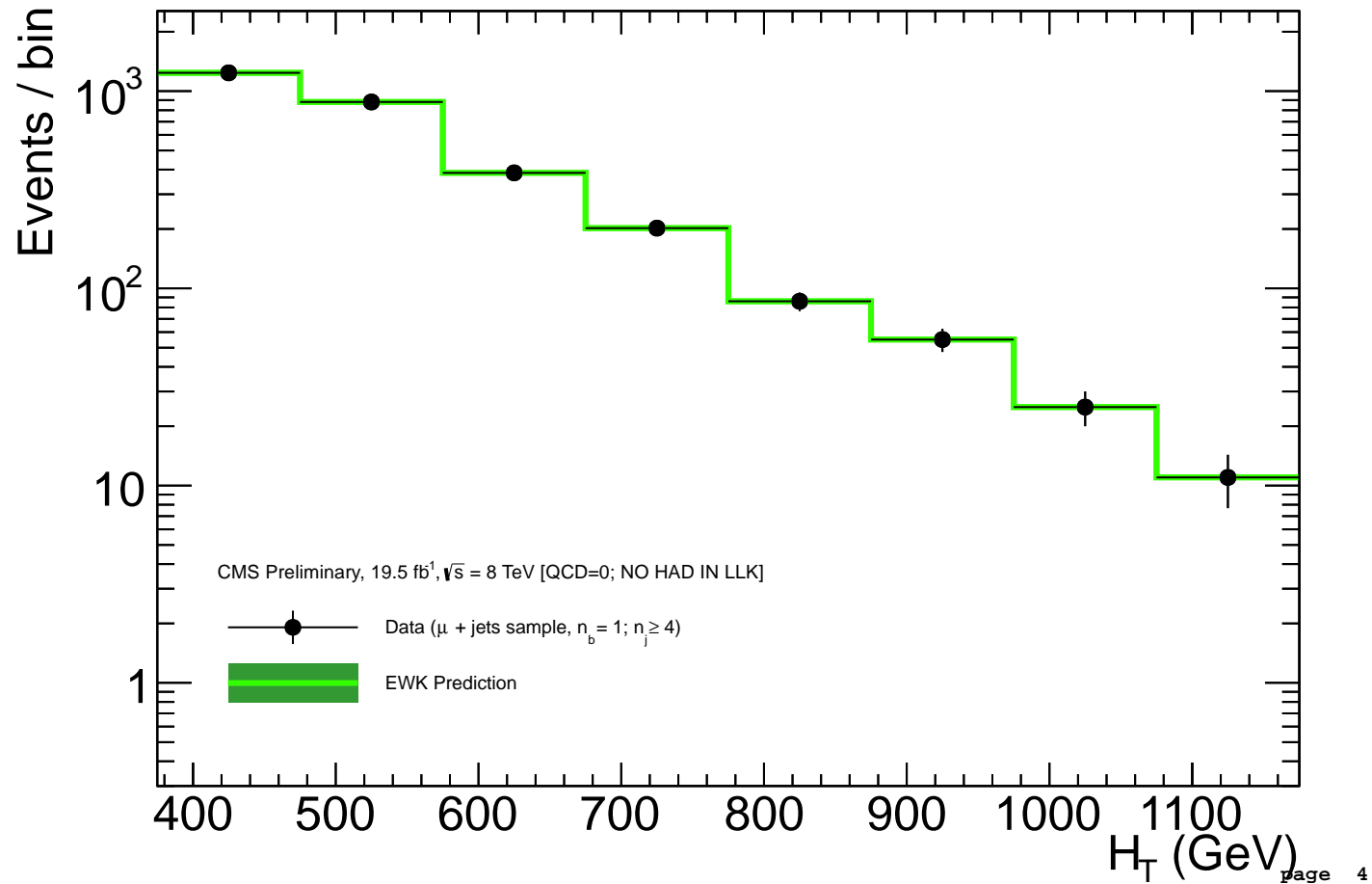
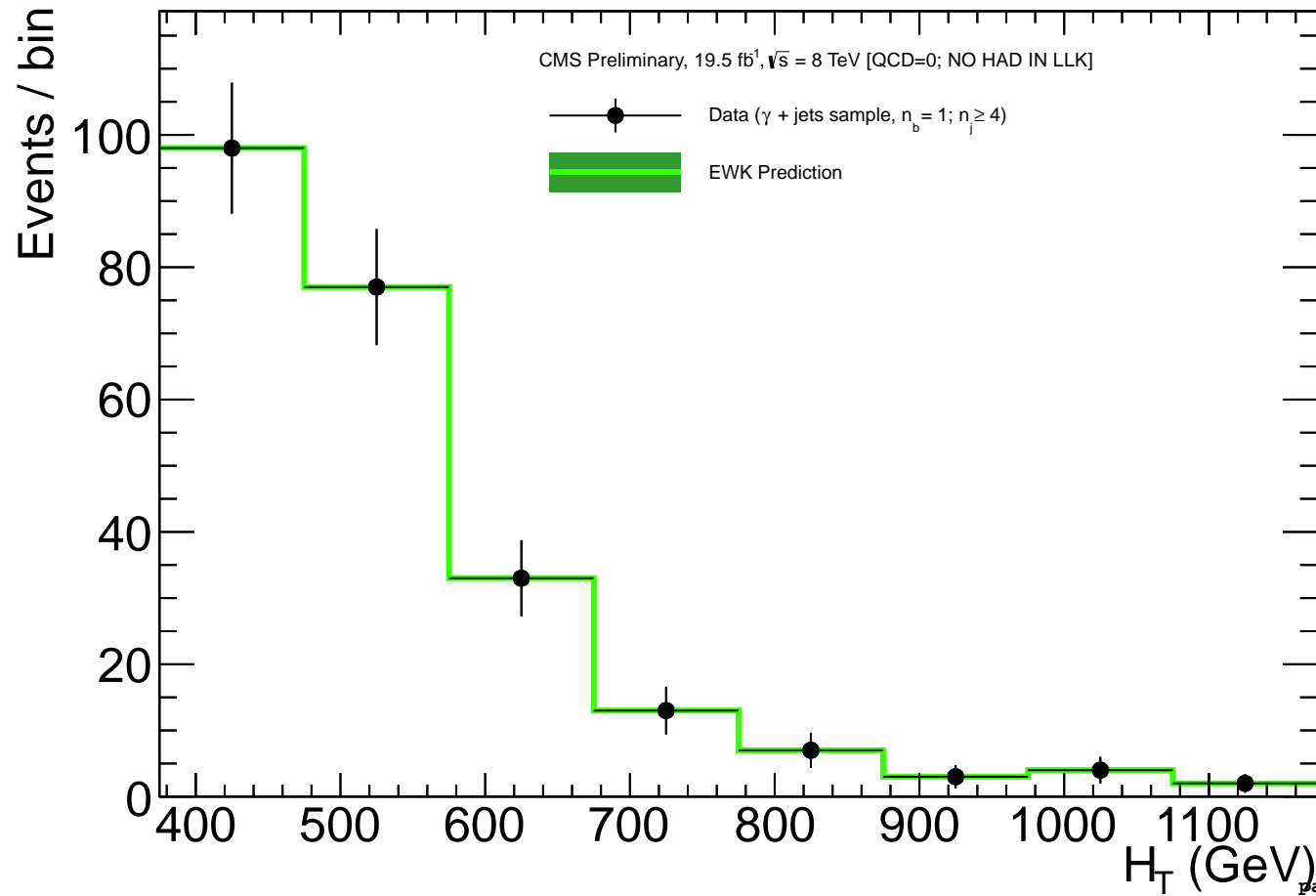


Events / bin

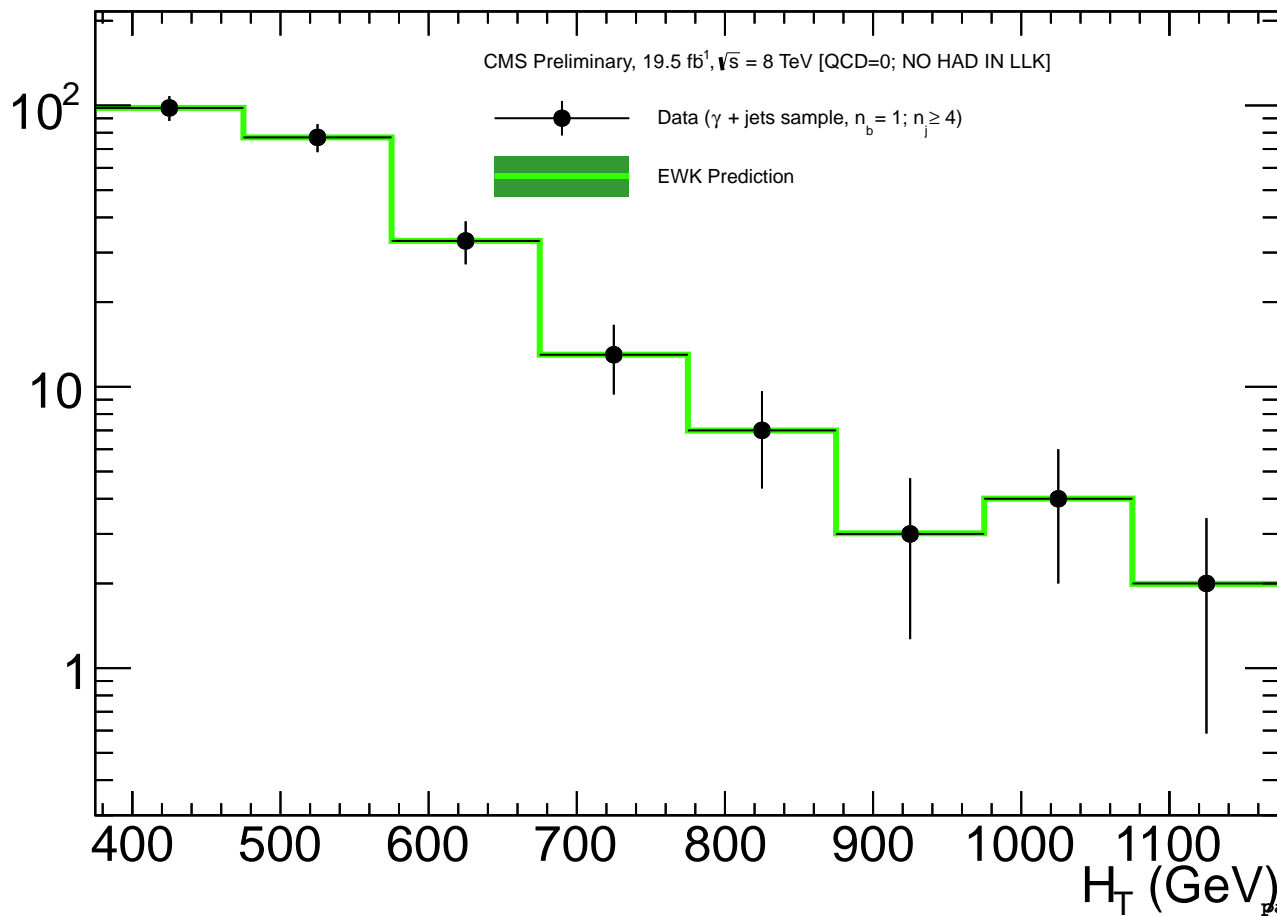




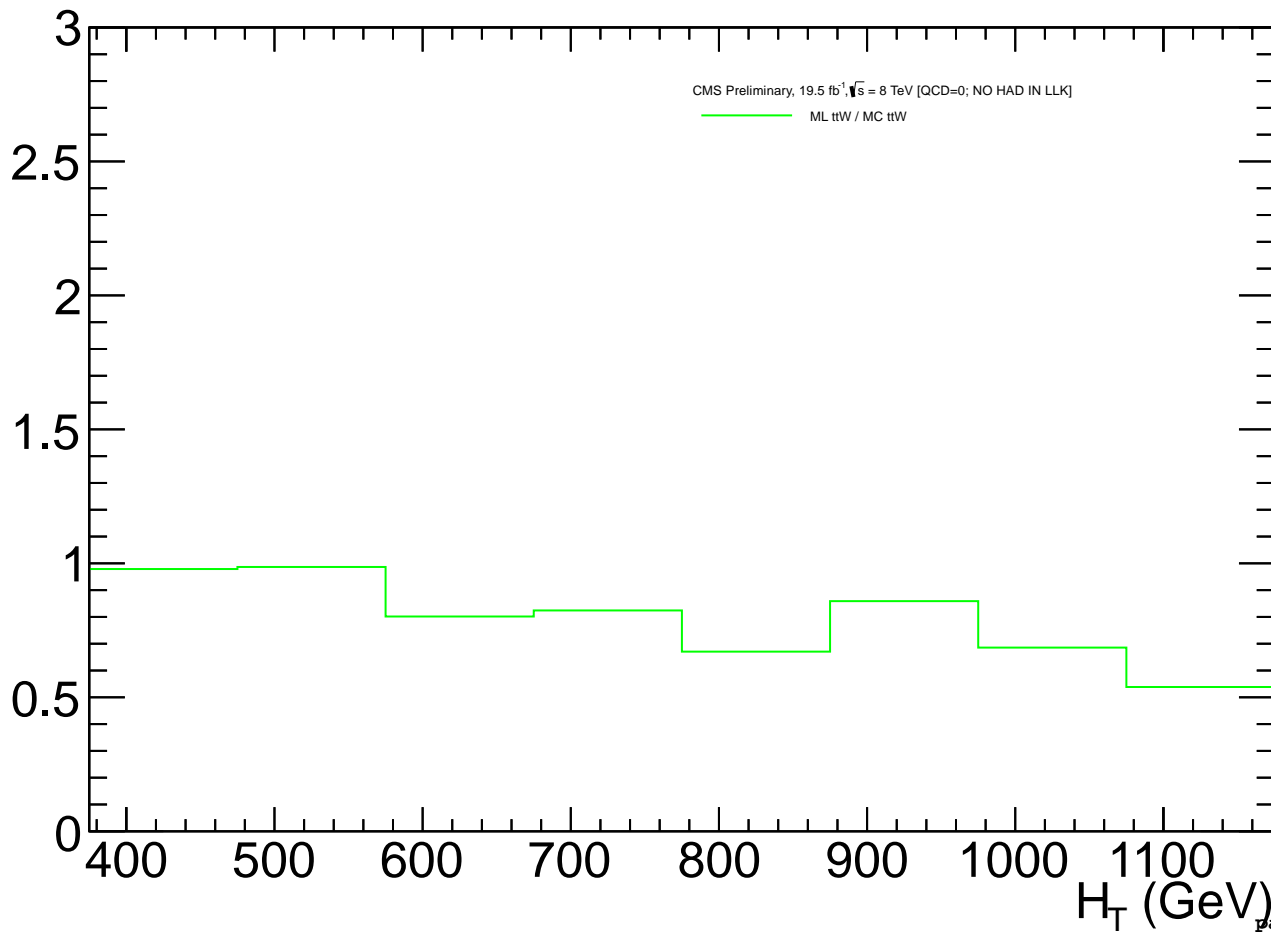




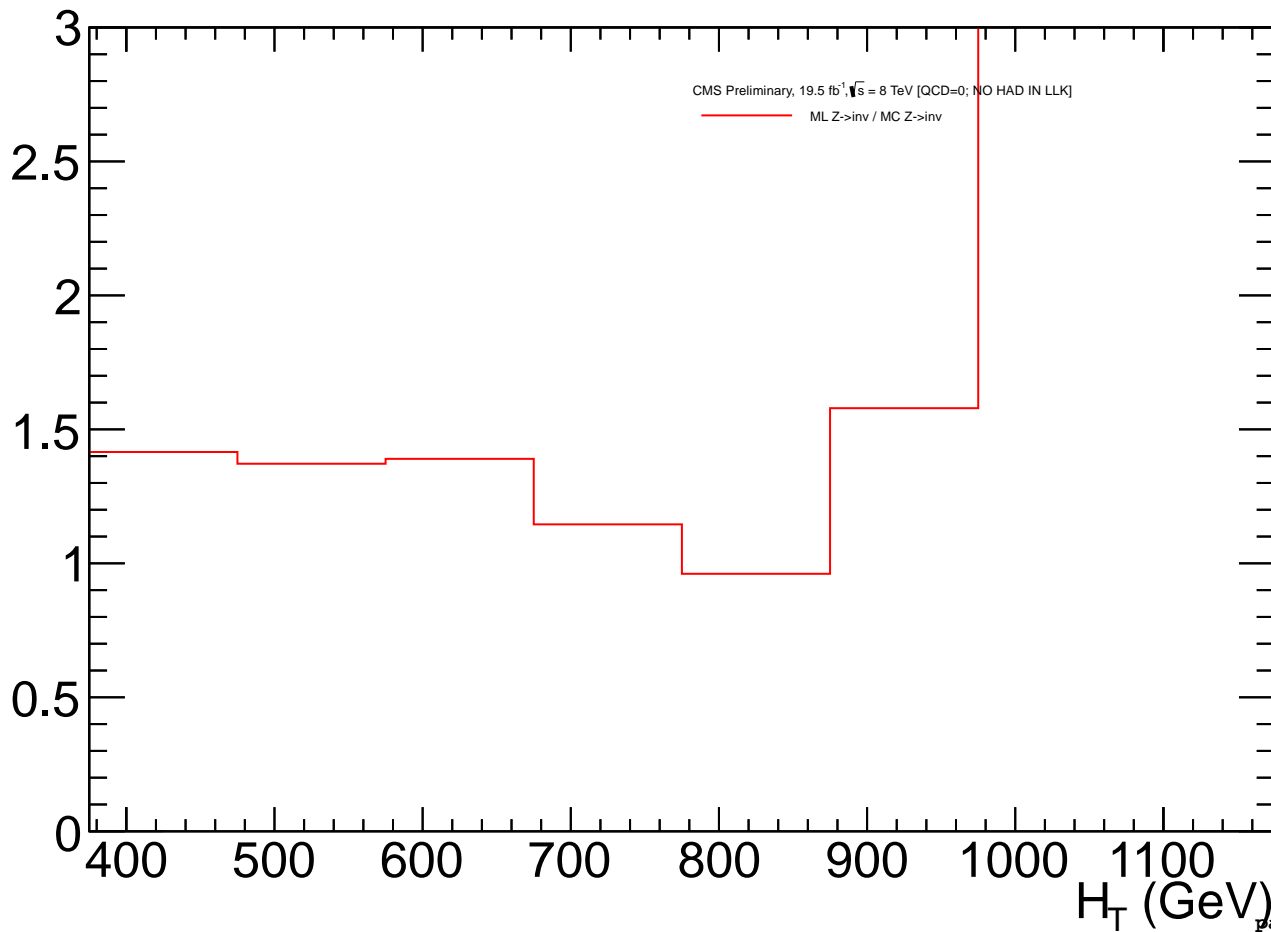
Events / bin



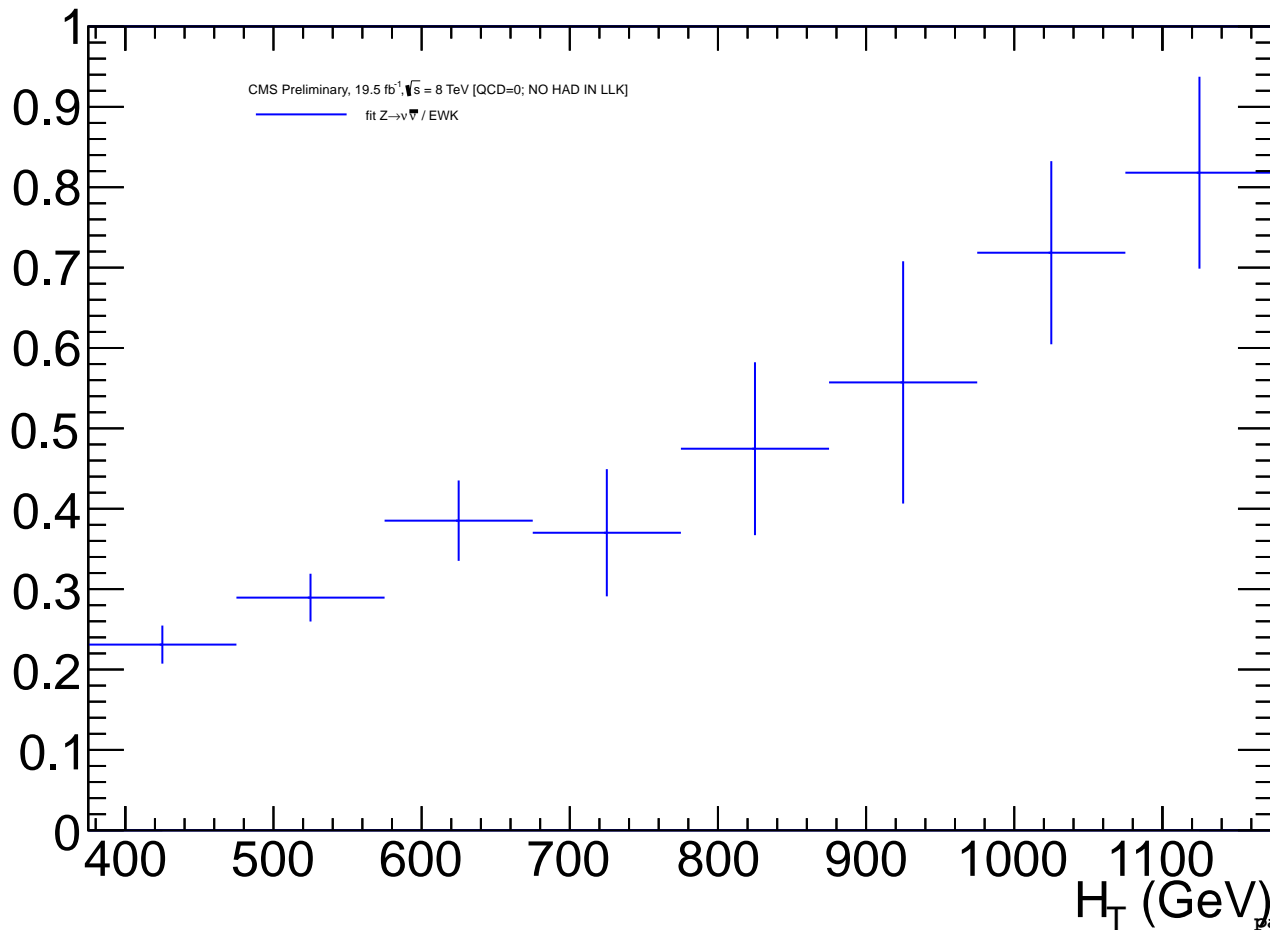
ttW scale factor (result of fit)

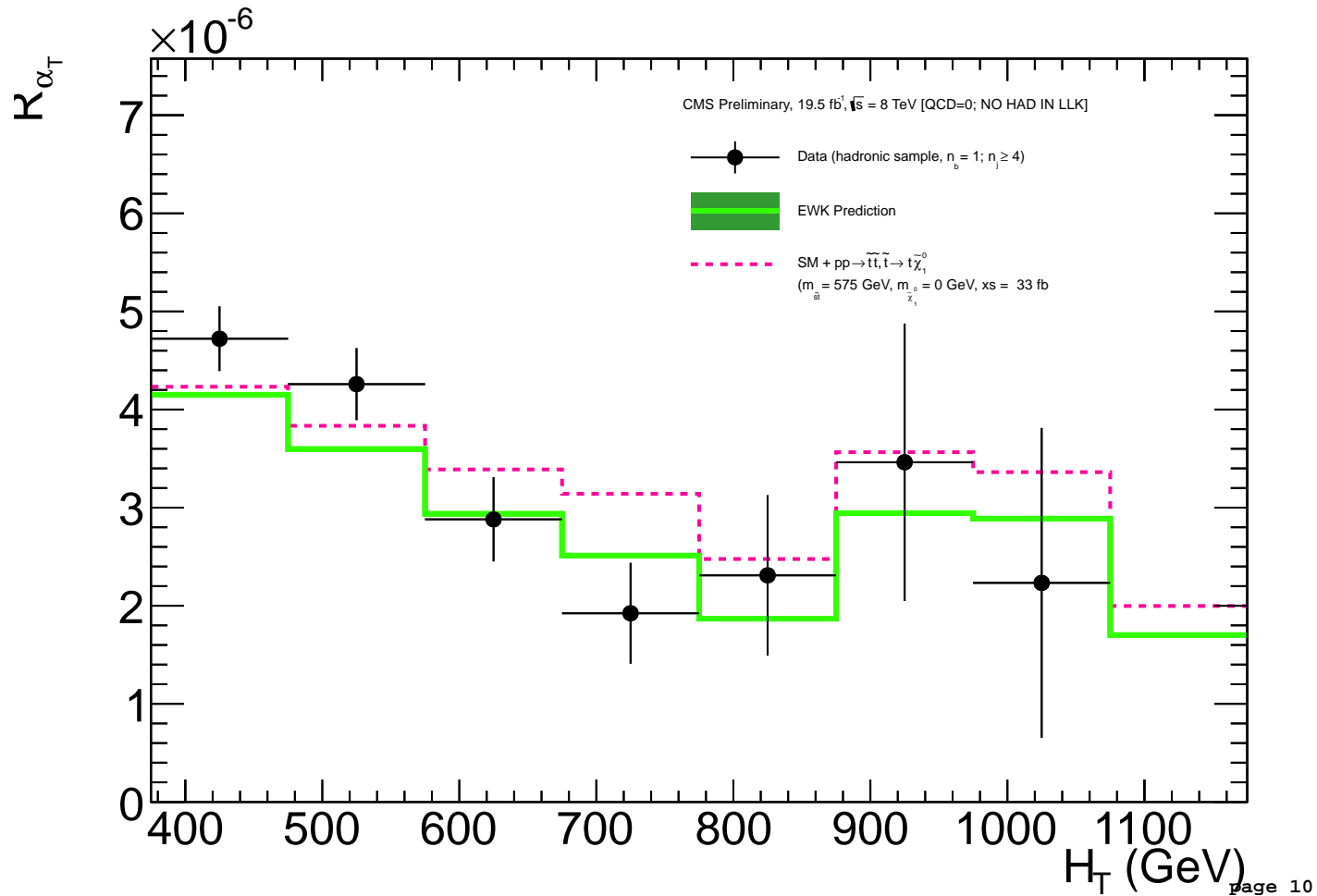


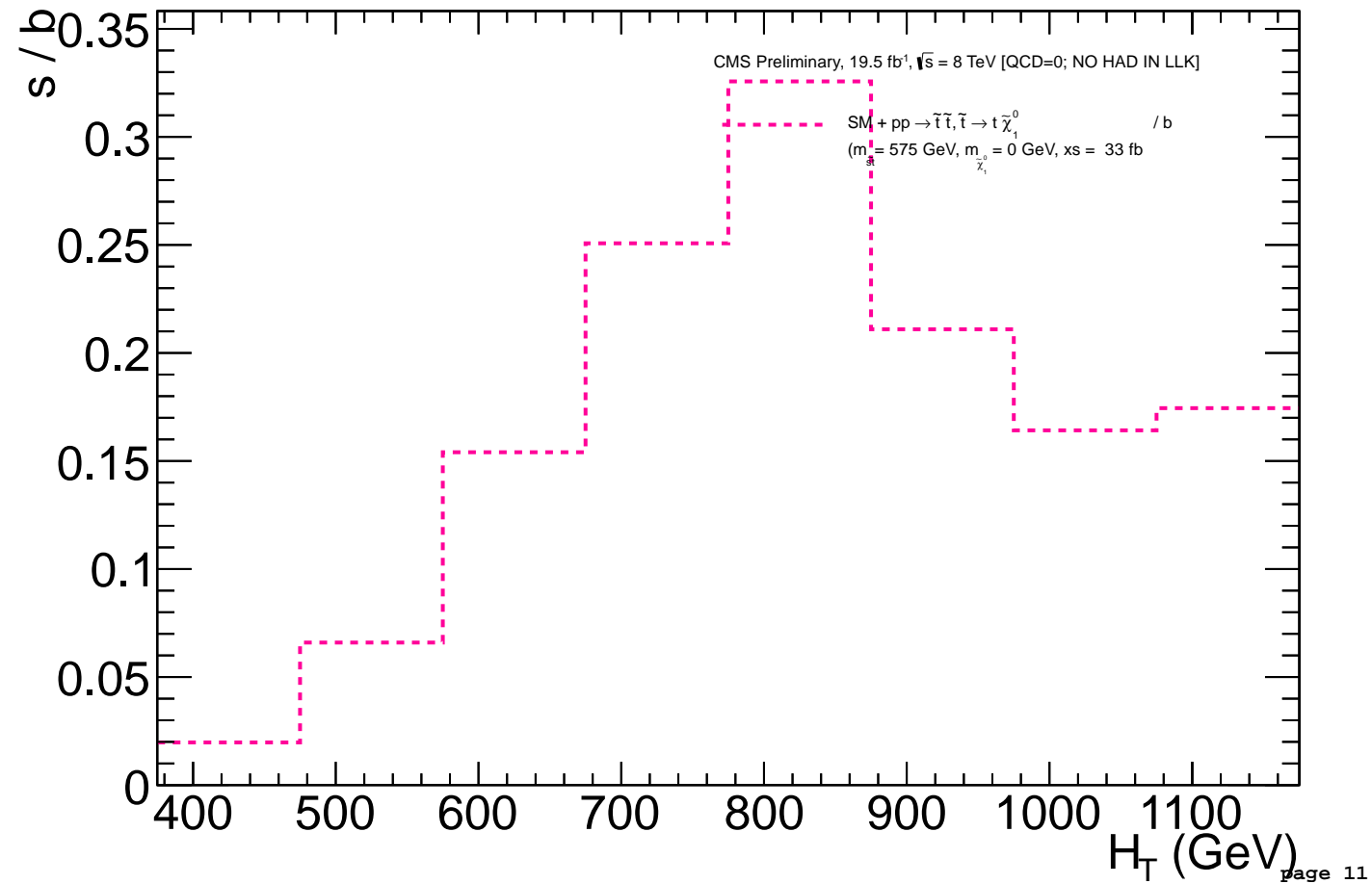
Zinv scale factor (result of fit)

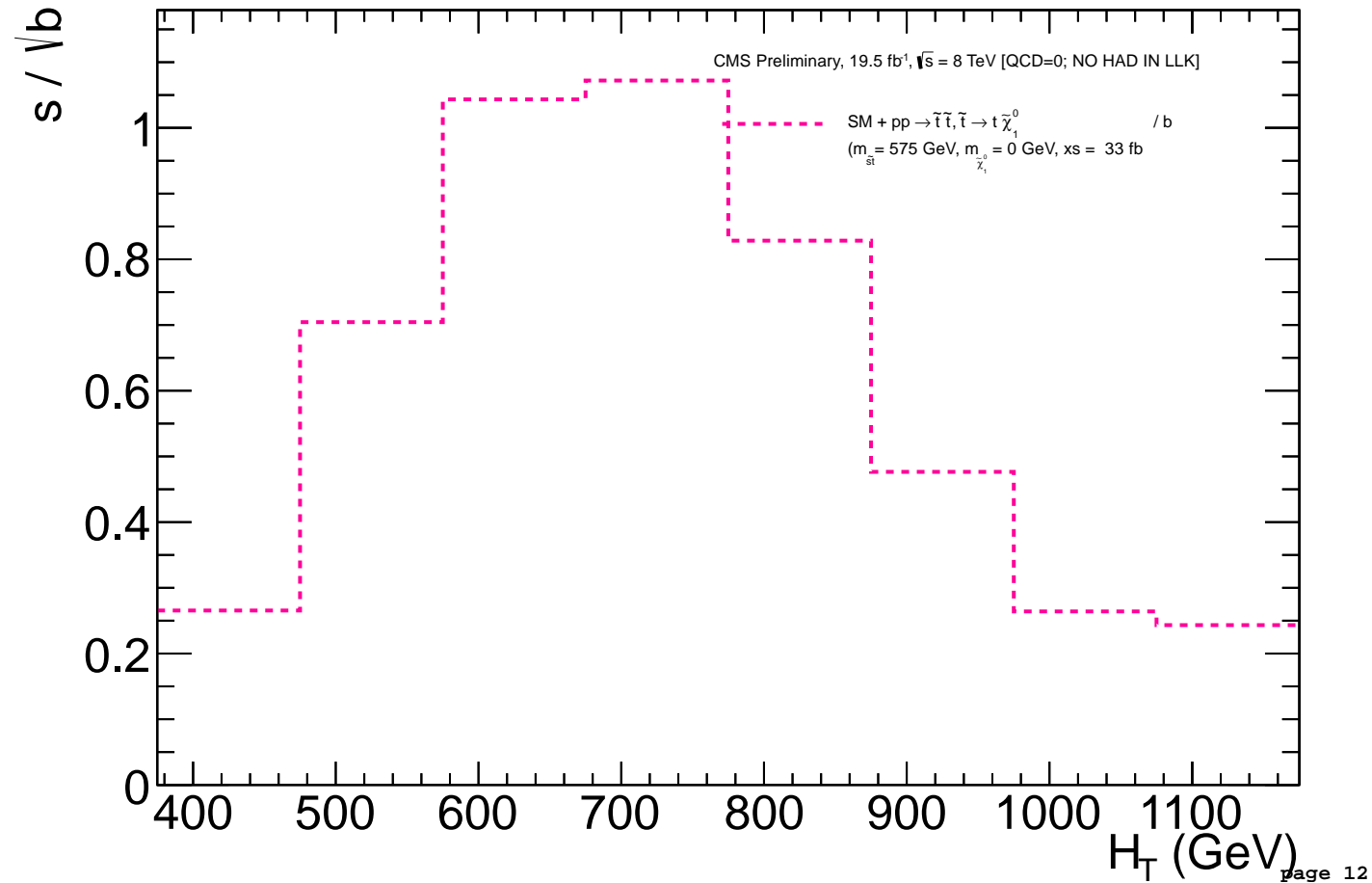


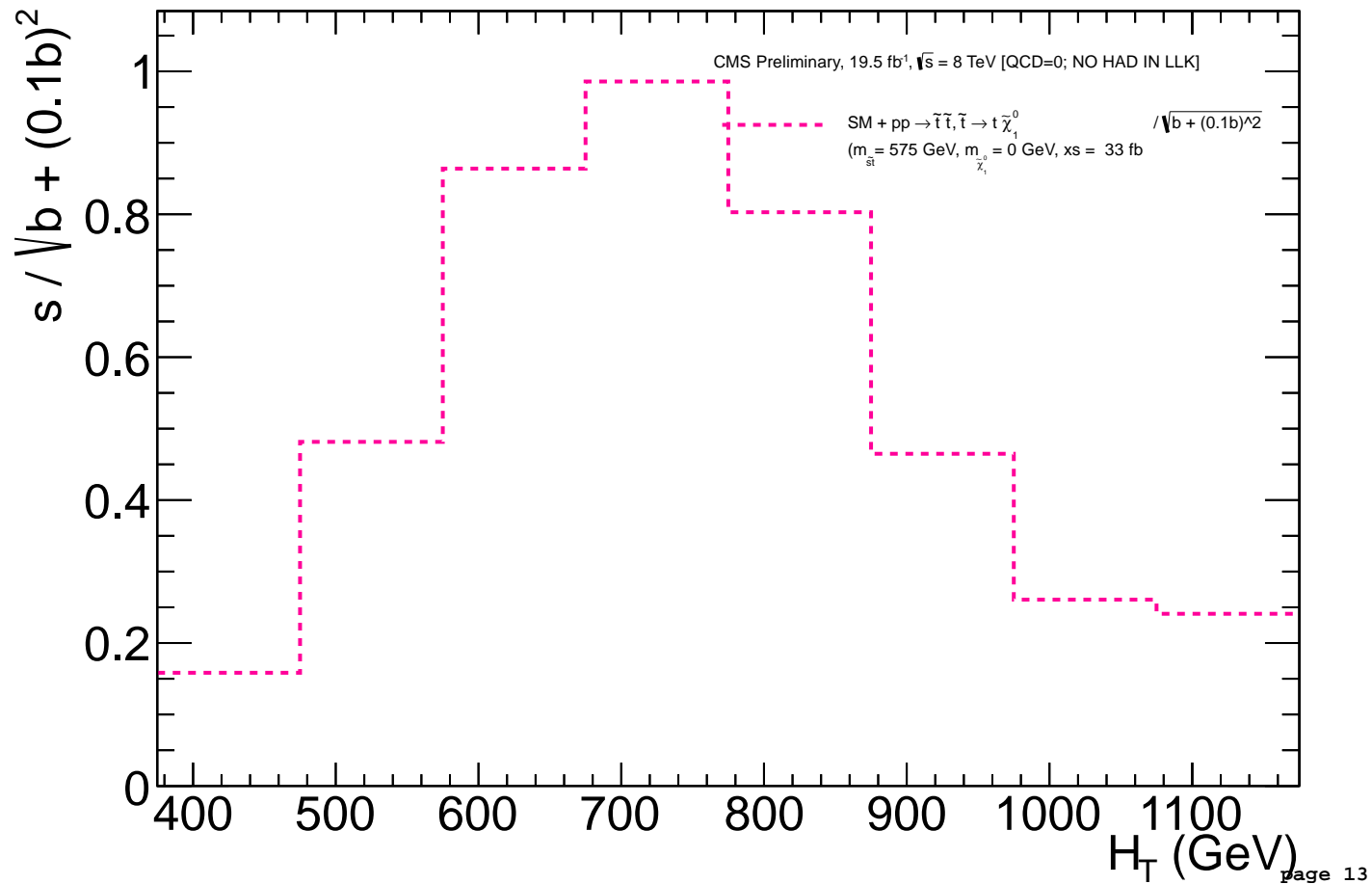
fraction of EWK background which is Zinv (result of fit)

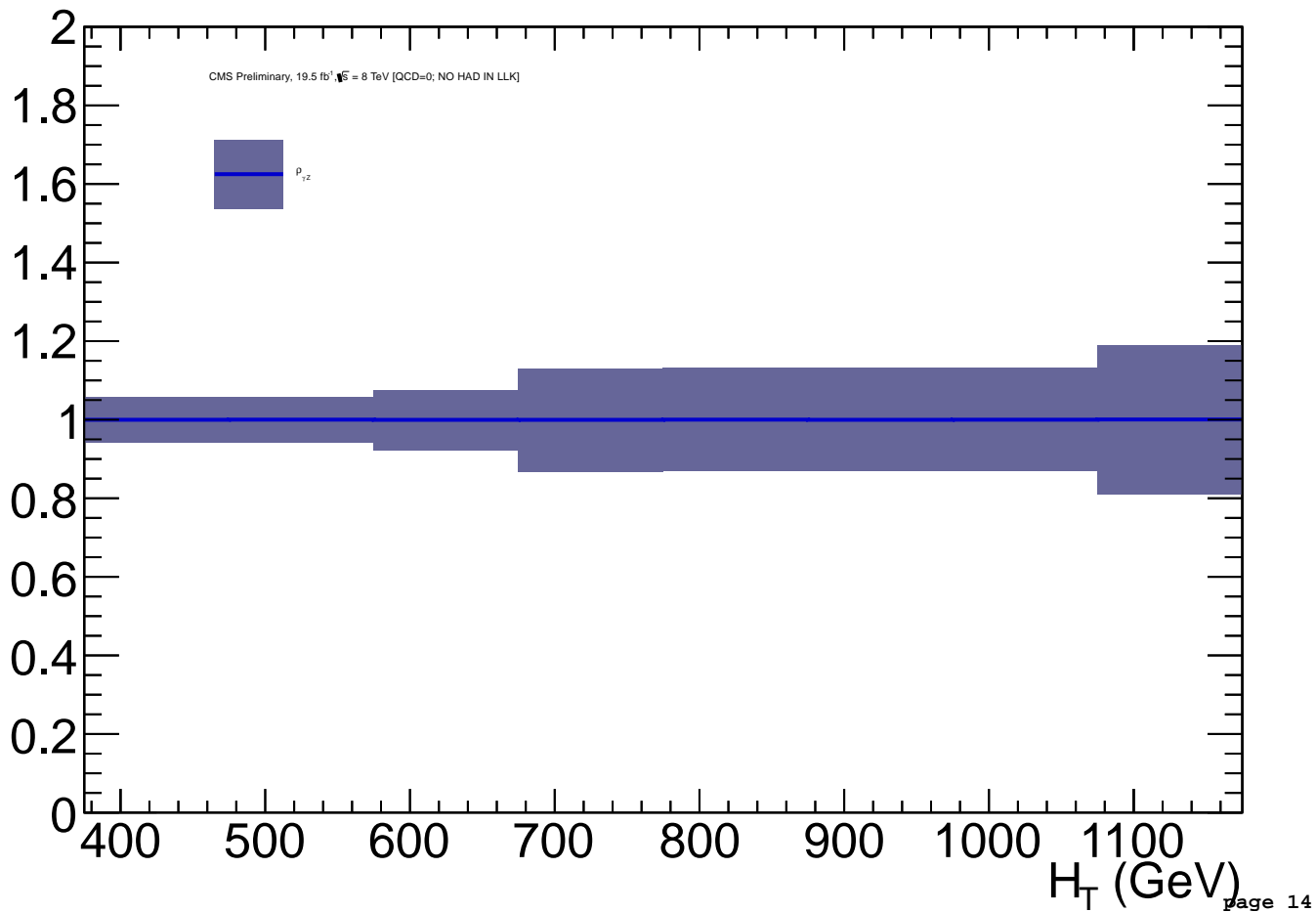


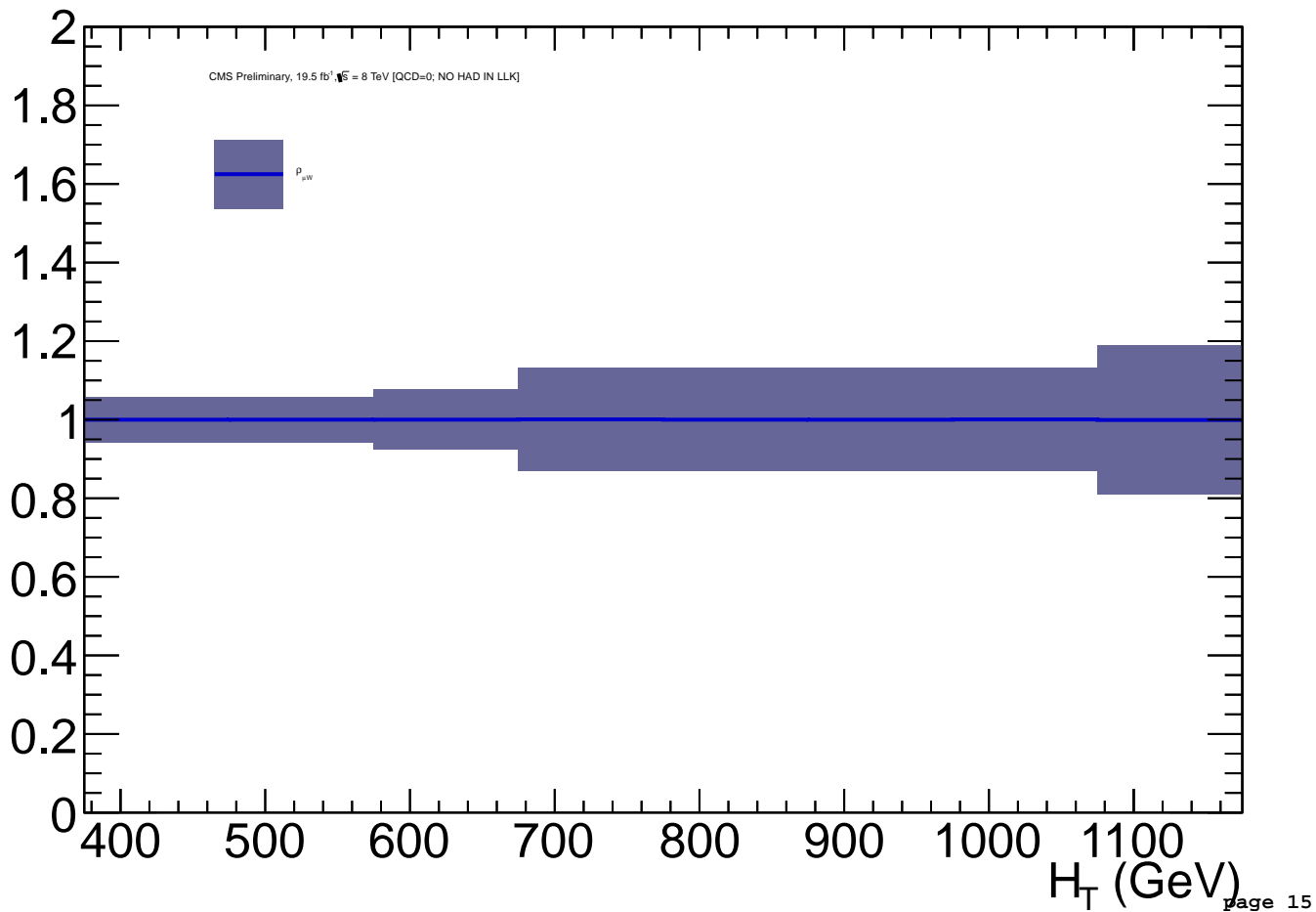












| par name: | value | +/- | error | [min - max] |
|---------------------|----------|-----|---------|---------------------|
| ewk_1b_ge4j_0: | 1.81e+02 | +/- | 1.0e+01 | [0.0e+00 - 2.1e+03] |
| fZinv_1b_ge4j_0: | 2.31e-01 | +/- | 2.4e-02 | [0.0e+00 - 1.0e+00] |
| ewk_1b_ge4j_1: | 1.14e+02 | +/- | 6.9e+00 | [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] |

Heatmap visualization of the correlation matrix for 100 variables. The color scale ranges from -1.0 (dark red) to 1.0 (dark blue). The matrix shows a block-like structure with positive correlations within groups and negative correlations between groups.