Repository

- https://gitlab.cern.ch/lhcewkwg/lhcewkwg-precisionEW/mwcombinations

- Smearing parametrizations

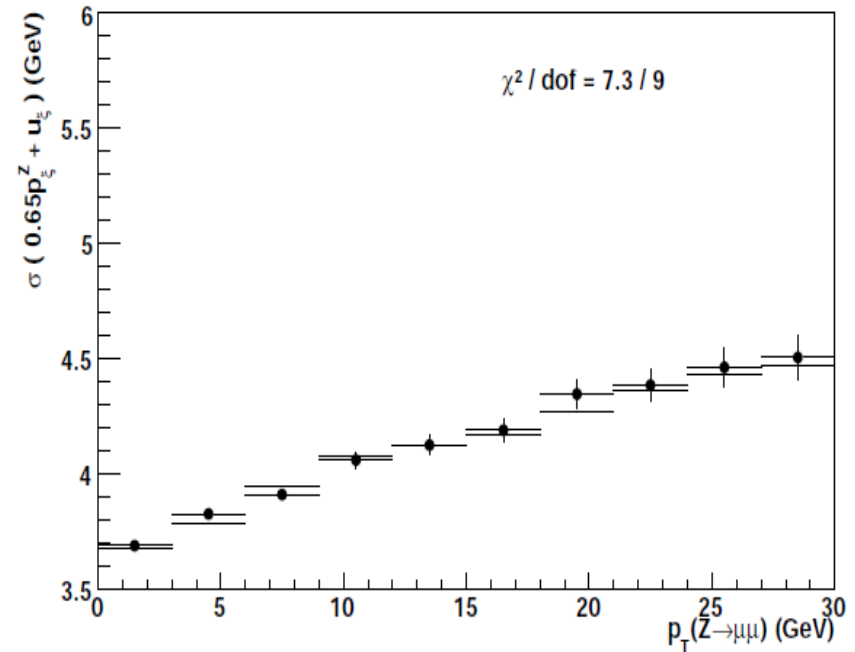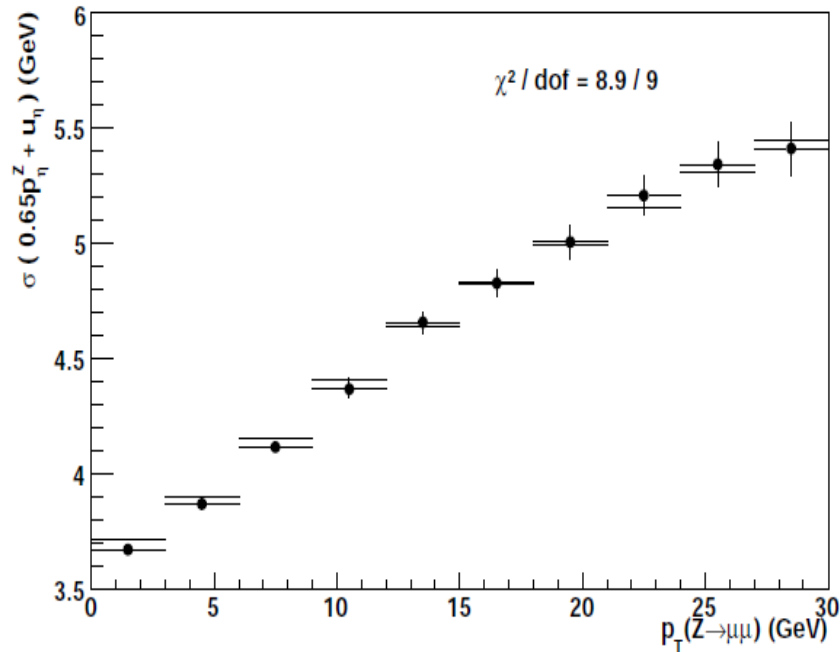- Combination code

- Resbos grids...

Recoil smearing

- Produced resolution parametrizations for 5, 13, 27 TeV

  → HL-LHC study :
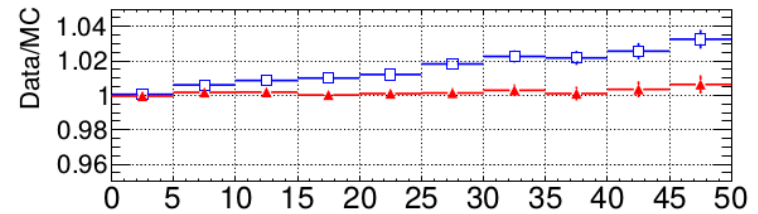 https://atlas.web.cern.ch/Atlas/GROUPS/PHYSICS/PUBNOTES/ATL-PHYS-PUB-2018-026/
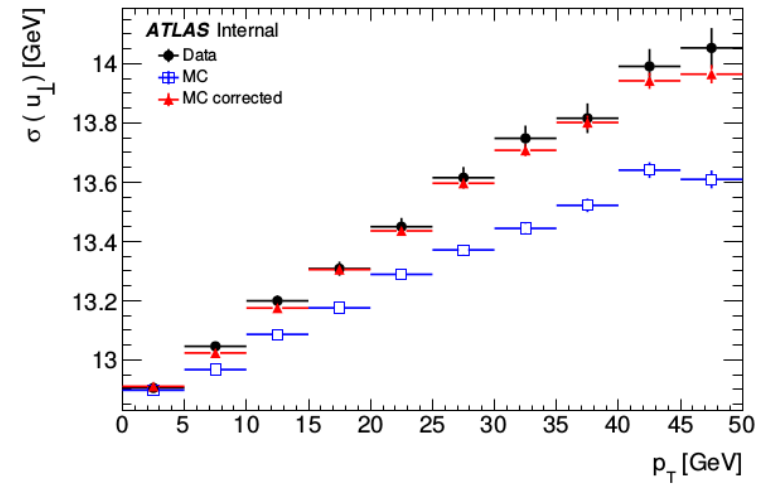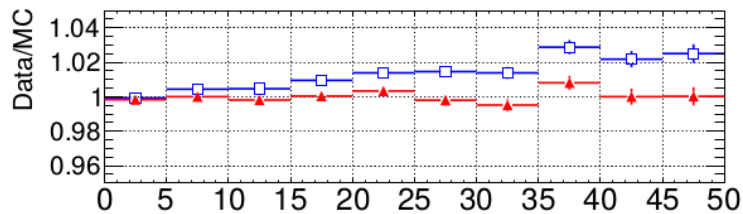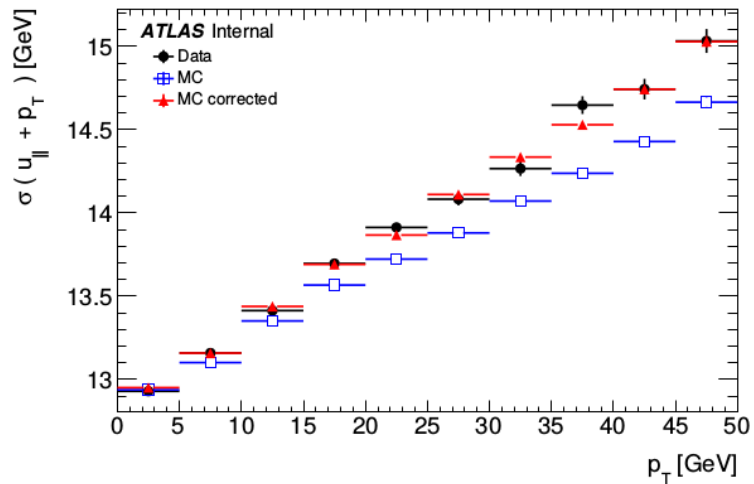
- Another application is the Tevatron/ATLAS combination
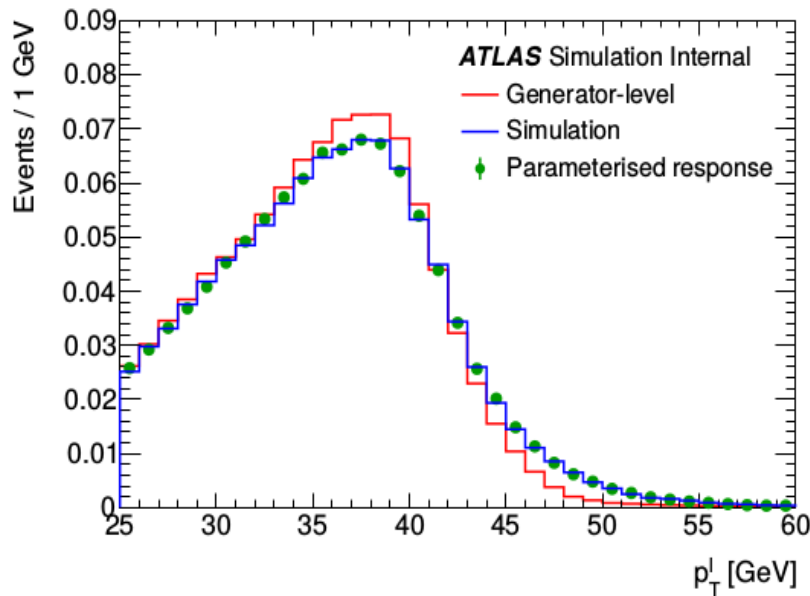
  – Recoil parametrization from CDF

Recoil smearing

- Nancy produced resolution parametrizations for 5, 13, 27 TeV

  → HL-LHC study

- Another application is the Tevatron/ATLAS combination

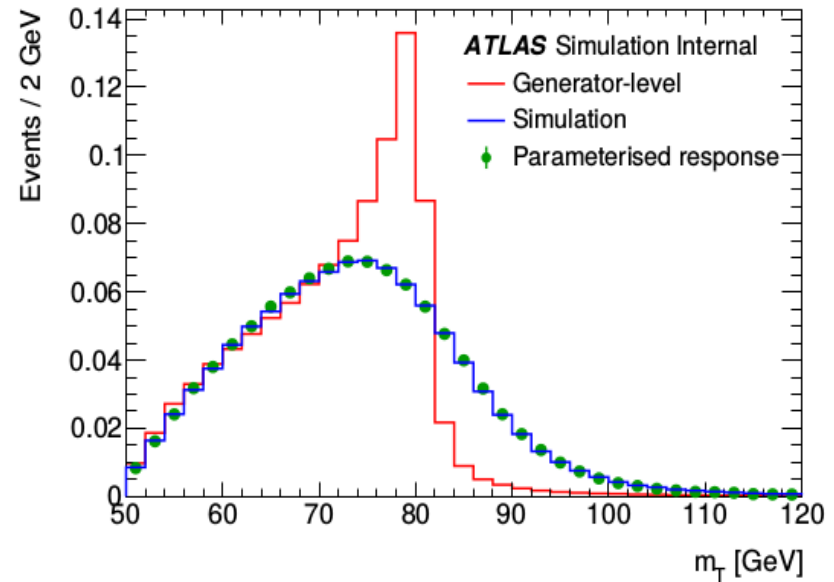 – Recoil parametrization from ATLAS

Some validation plots

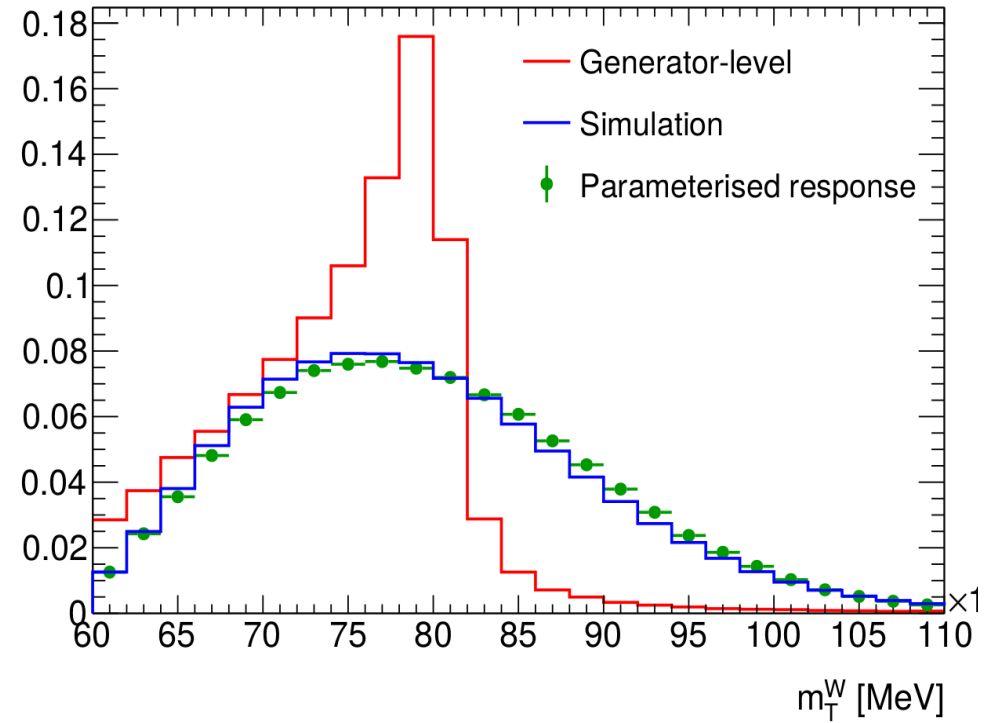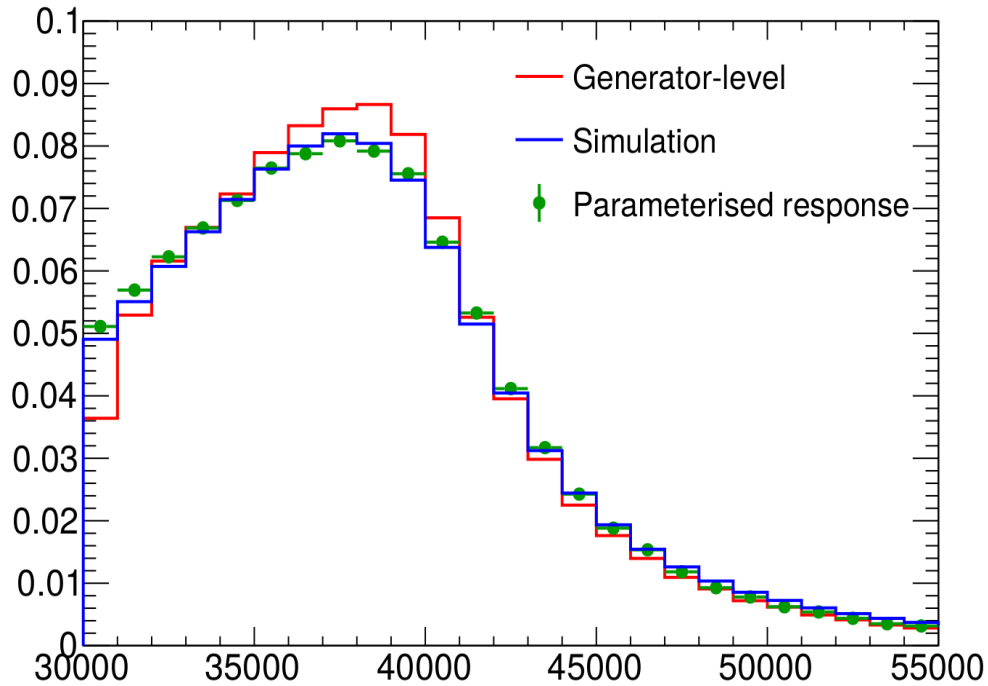- ATLAS 5/13 TeV low pile-up (not relevant here, but for the method)

Figure 2: Generator- and detector-level p_T^ℓ (a) and m_T (b) distributions for selected signal events. The detector-level distributions are shown as predicted by the full simulation and by the parameterised resolution corrections described in the text.

Some validation plots

- ATLAS 7 TeV

Not as perfect.... check recoil scale; also plot uT