

ATLAS TileCal/DAQ End of the Year meeting

16/12/2025

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Activities

- TileCal Operations

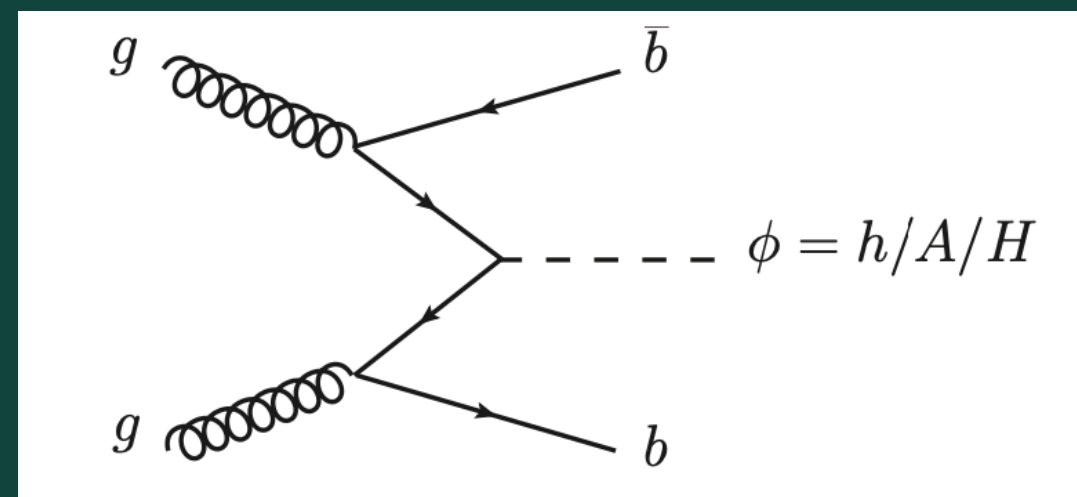
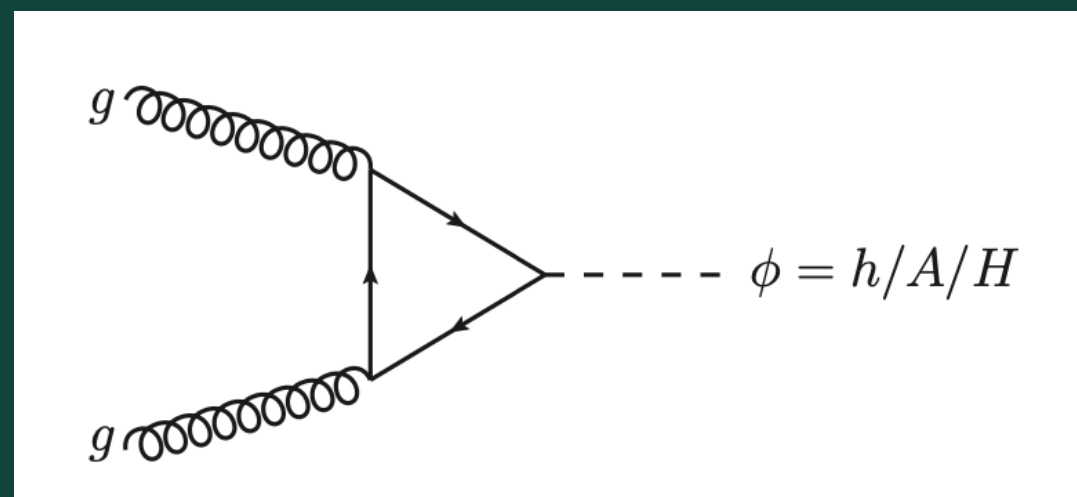
- Did 2 DAQ on-call shifts in June
- Had a 3rd shift, but could not travel because of visa issue

- Conferences

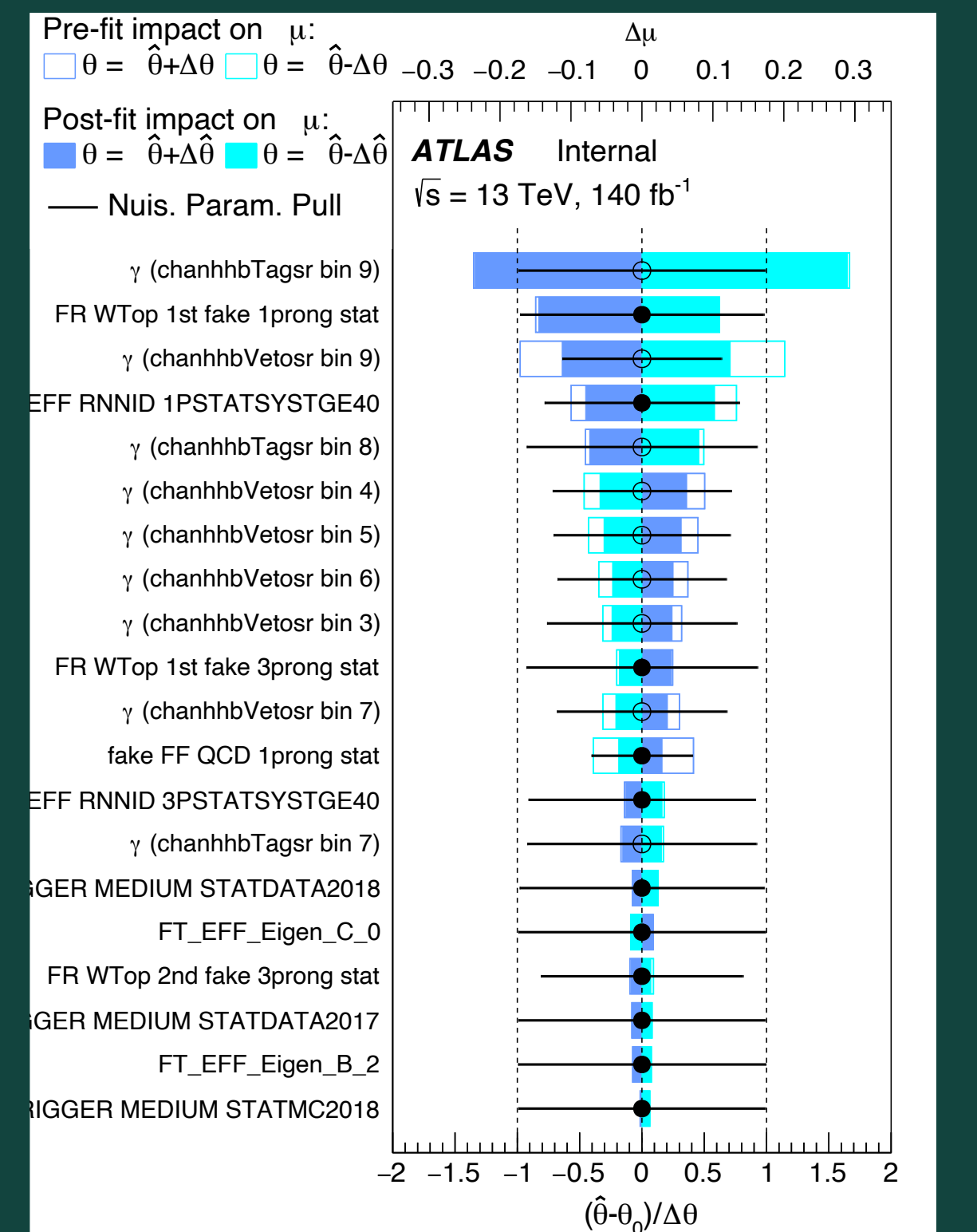
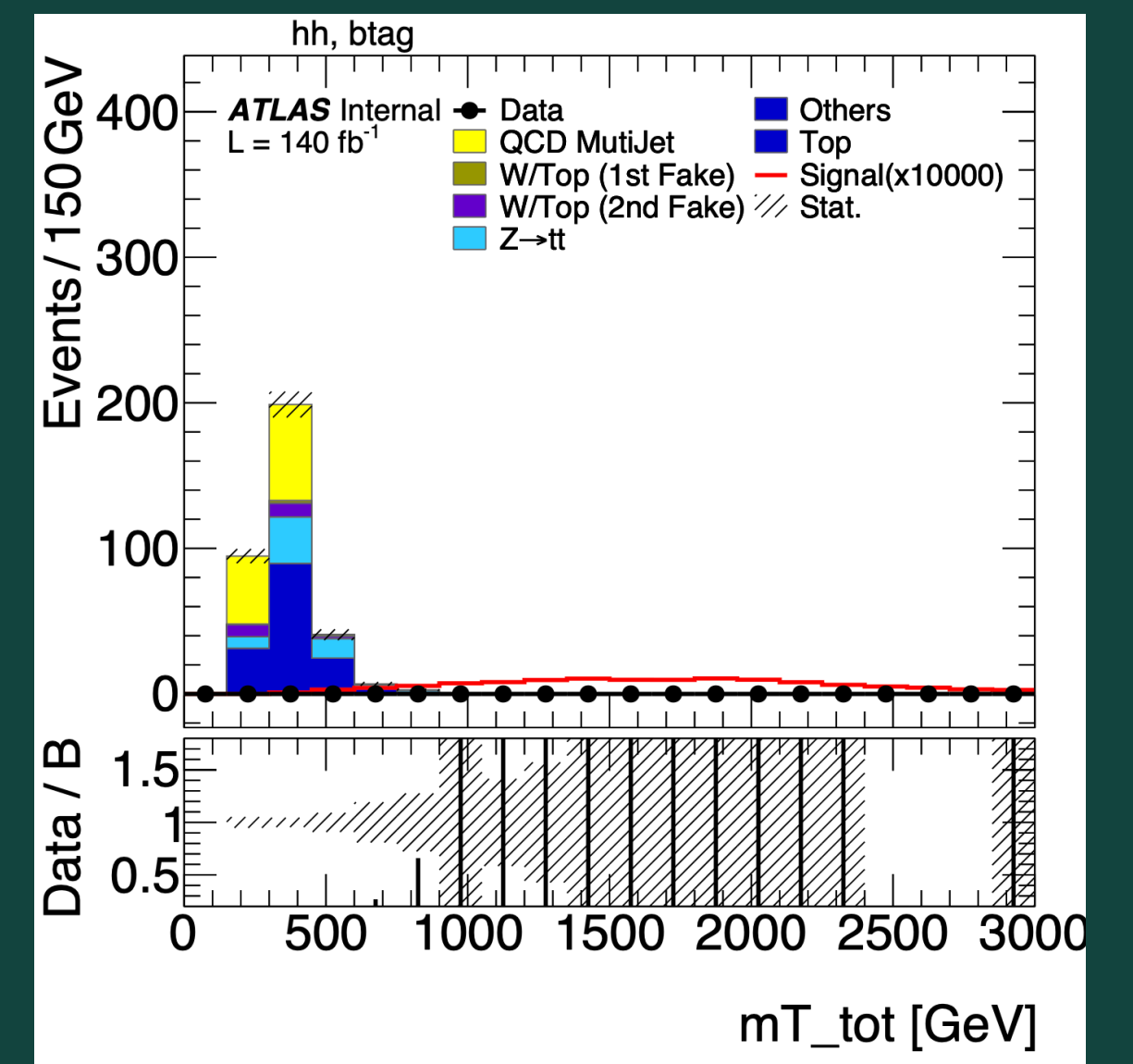
- 14th ICNFP at Kolymbary, Crete, Greece [link](#)
 - Upgrade of the ATLAS Tile Calorimeter for High-Luminosity LHC
- Lepton Photon Symposium in Madison, USA [link](#)
 - Search for Higgs boson decays into a pair of pseudoscalar

Analysis

- $A/H \rightarrow \tau\tau$ (had-had) using Run 2 and Run 3 data



- Background estimation for Fakes
 - Events where jets (or leptons) misidentified as hadronic τ
- Statistical interpretation
 - Systematic uncertainties (τ ID, fakes, and detector effects) are included into the fits
 - Running fits to extract signal significance and limits



Merry Christmas