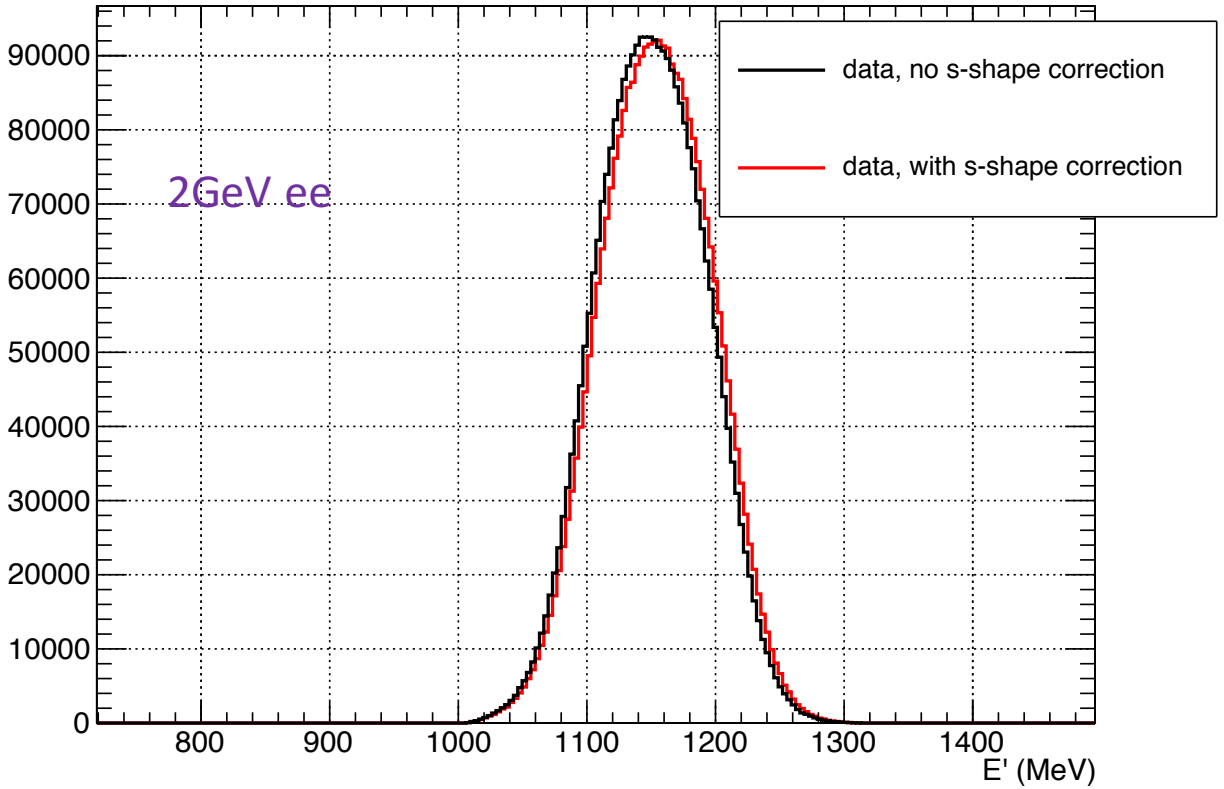
Issue from previous week

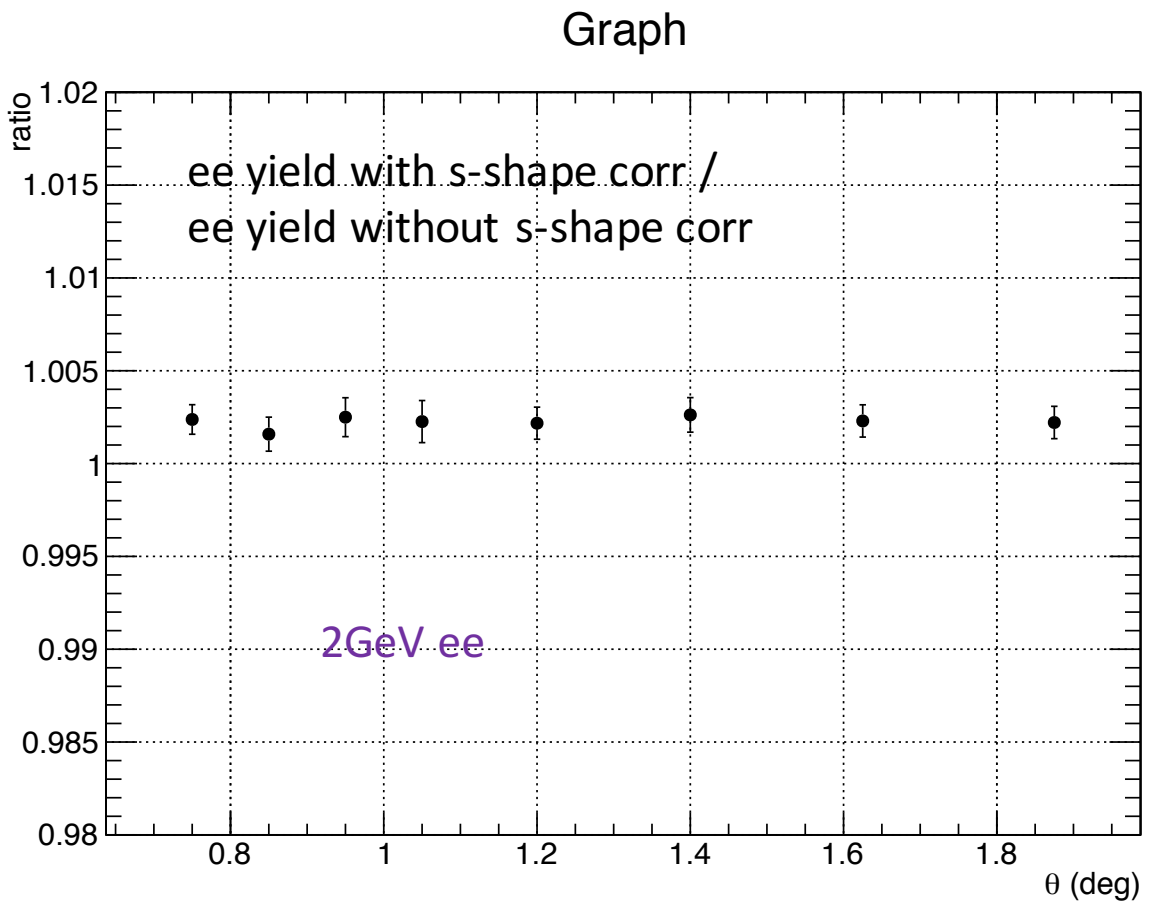
- The previous physics calibration was done before the final update of the detector z position and offset
- These changes have almost no effect on the ep, as the energy is almost independent on angle
- For ee, they cause a small shift for the ee elastic peak, and also a phi asymmetry for the peak

- The non-linearity constants have been updated this week to take into account the shifts

Issue from previous week

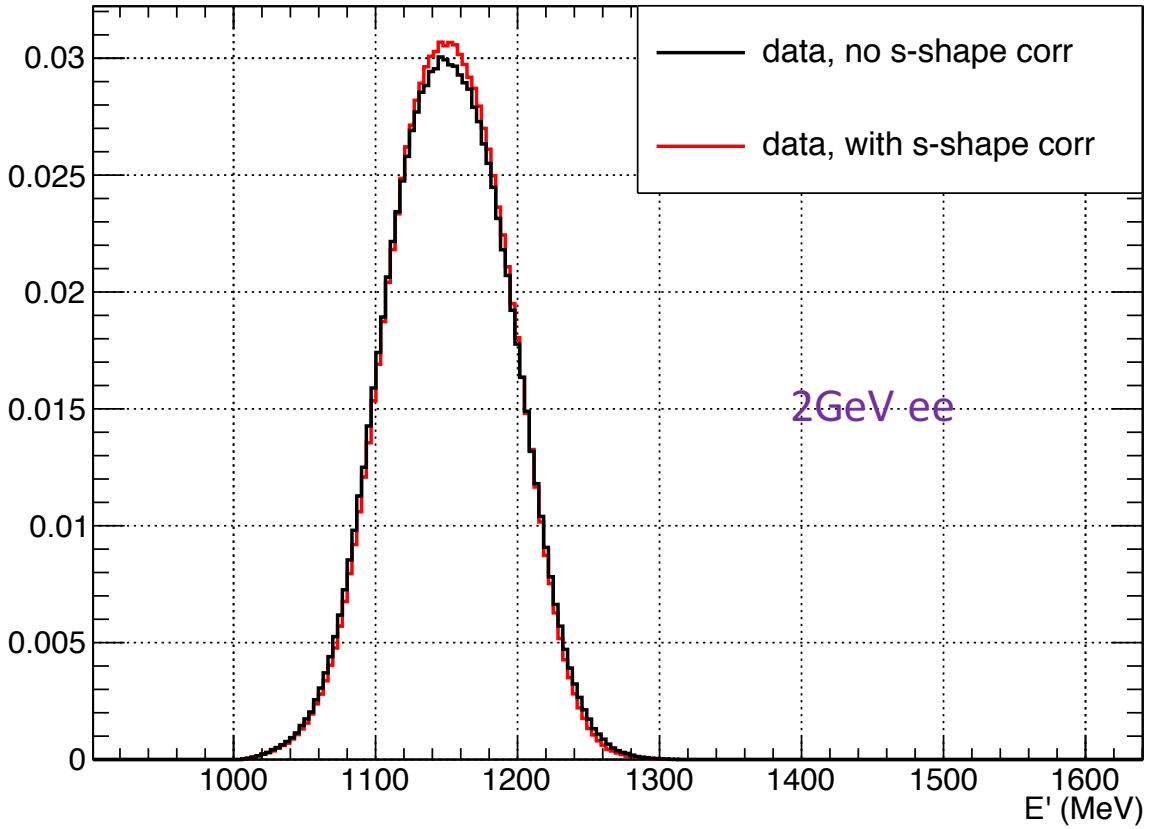
With the old calibration constants

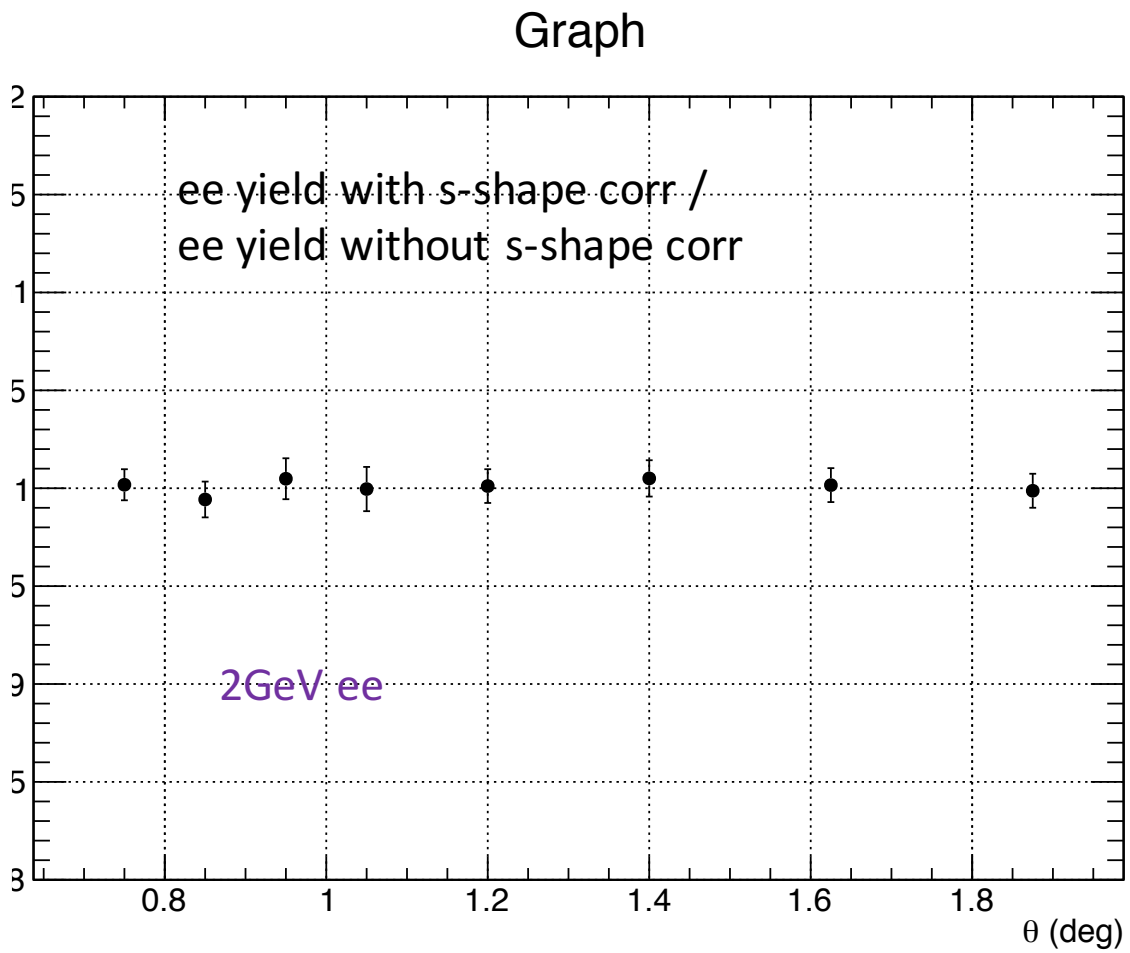




Issue from previous week

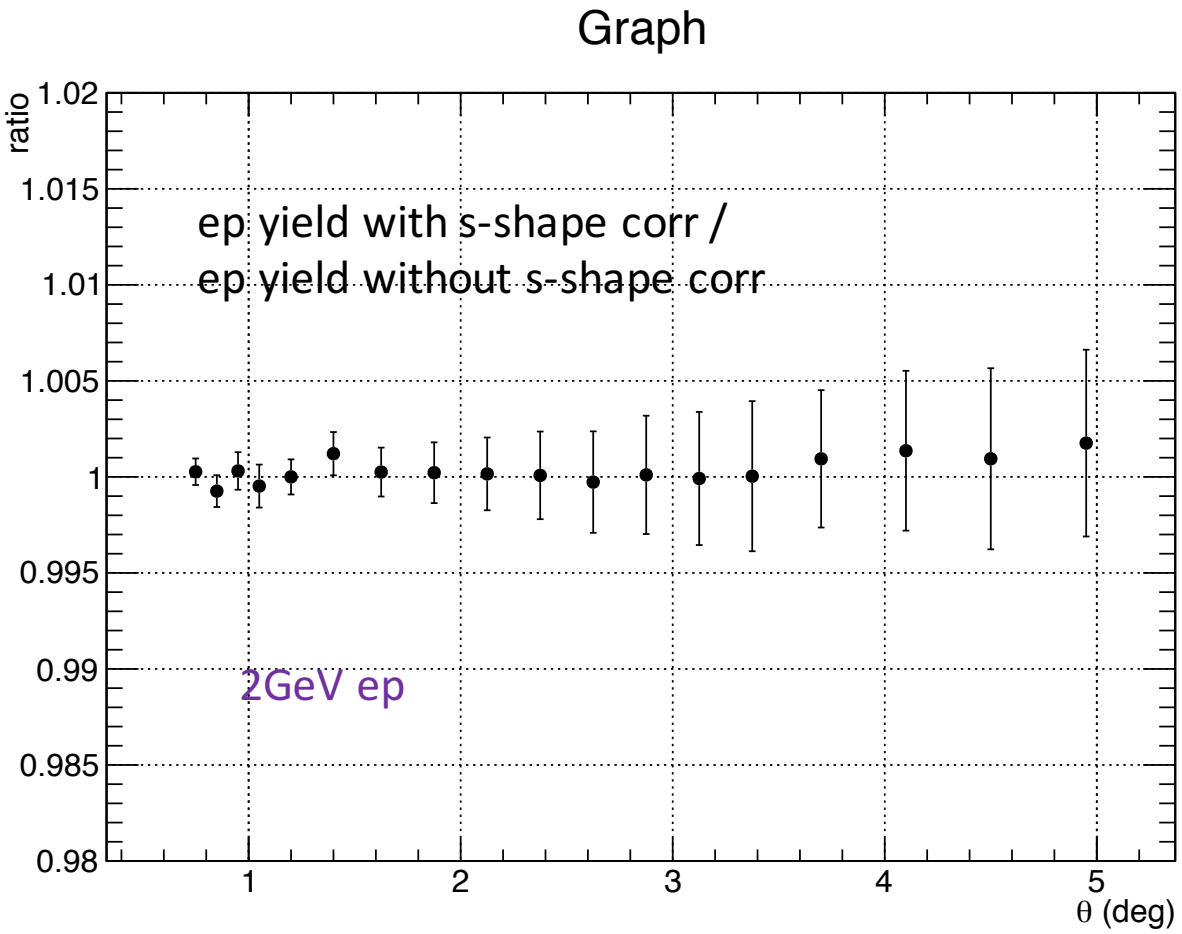
With the new calibration constants

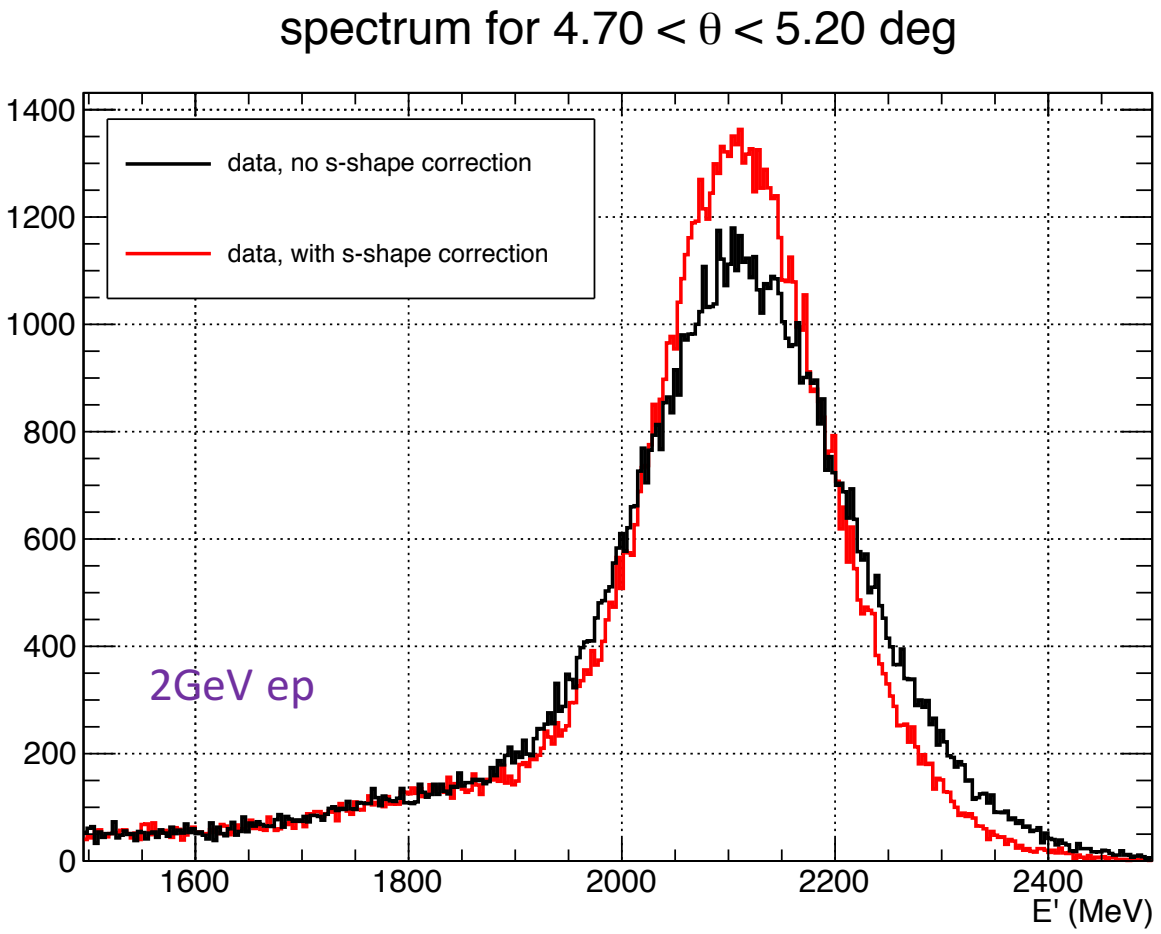




Effect of s-shape correction

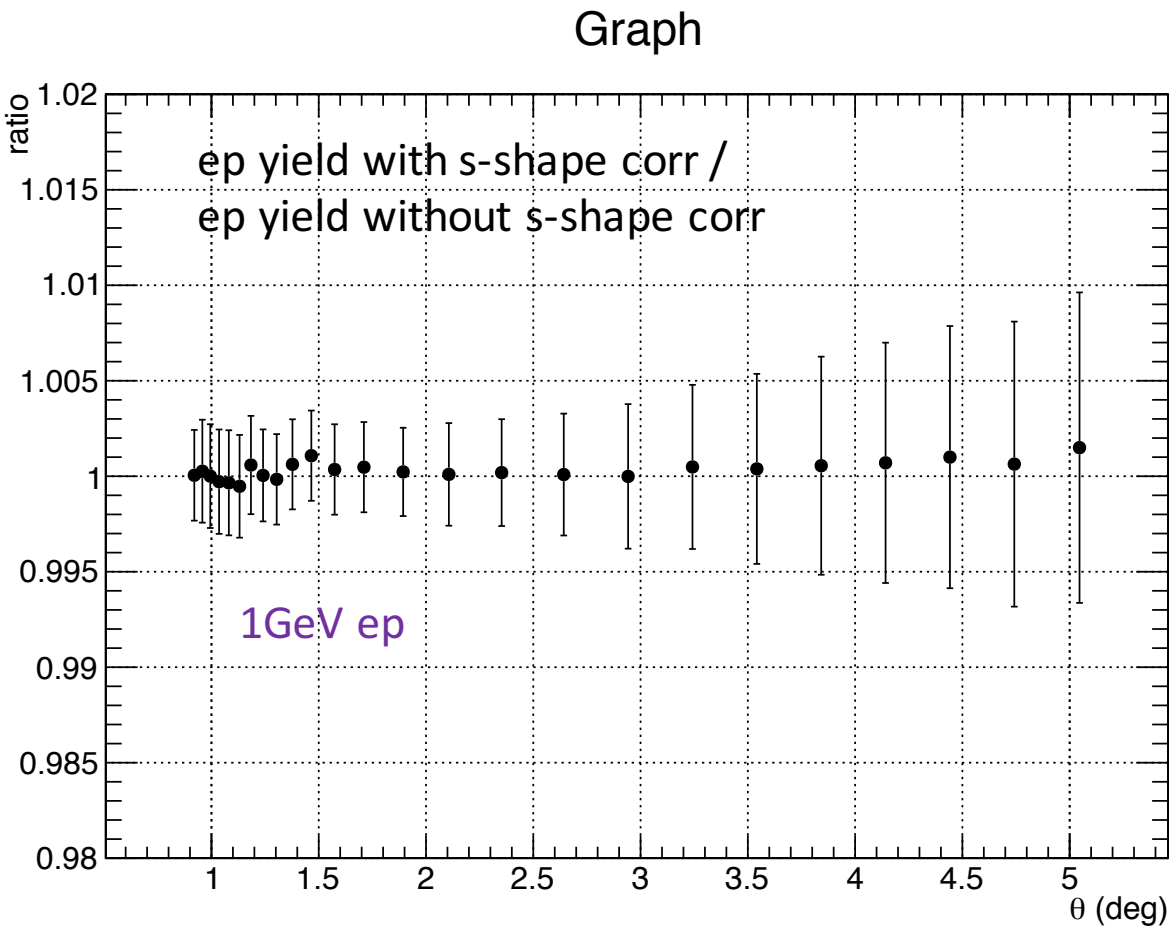
With the new calibration constants

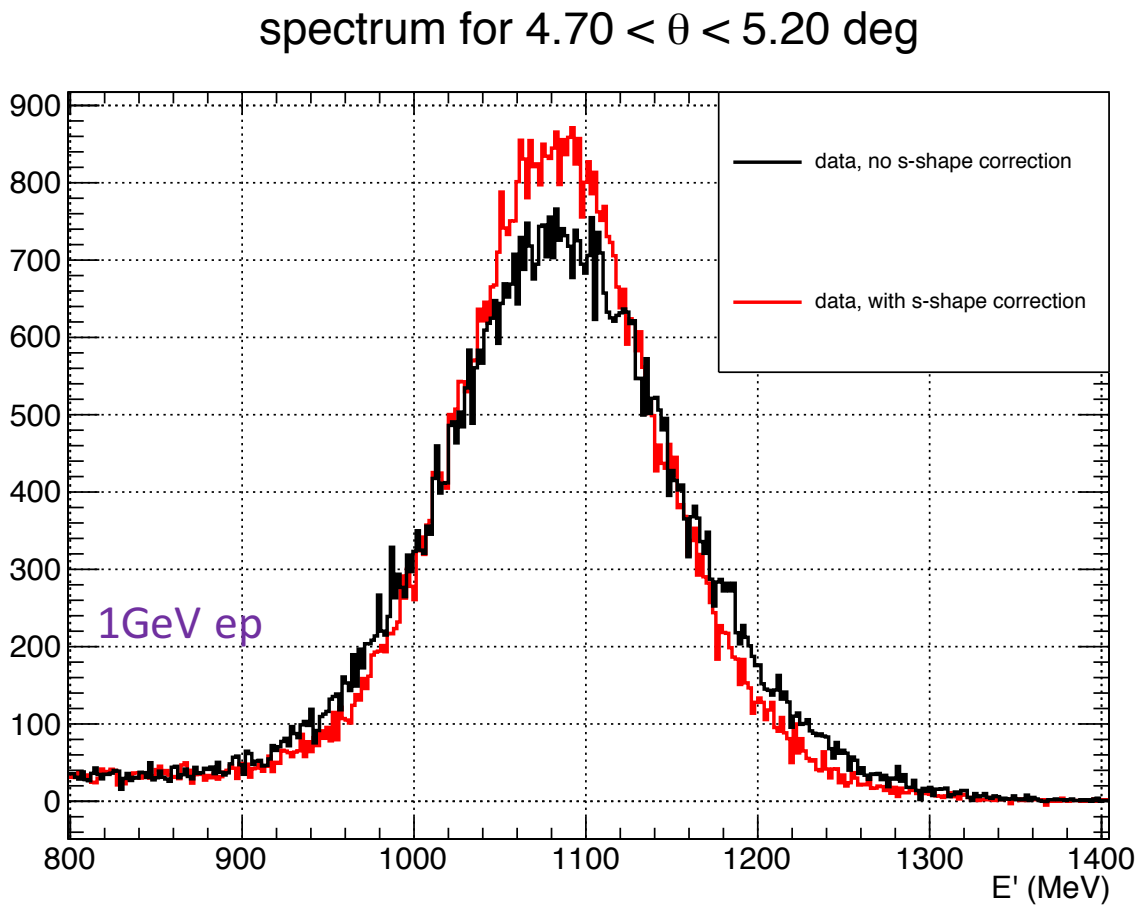




Effect of s-shape correction

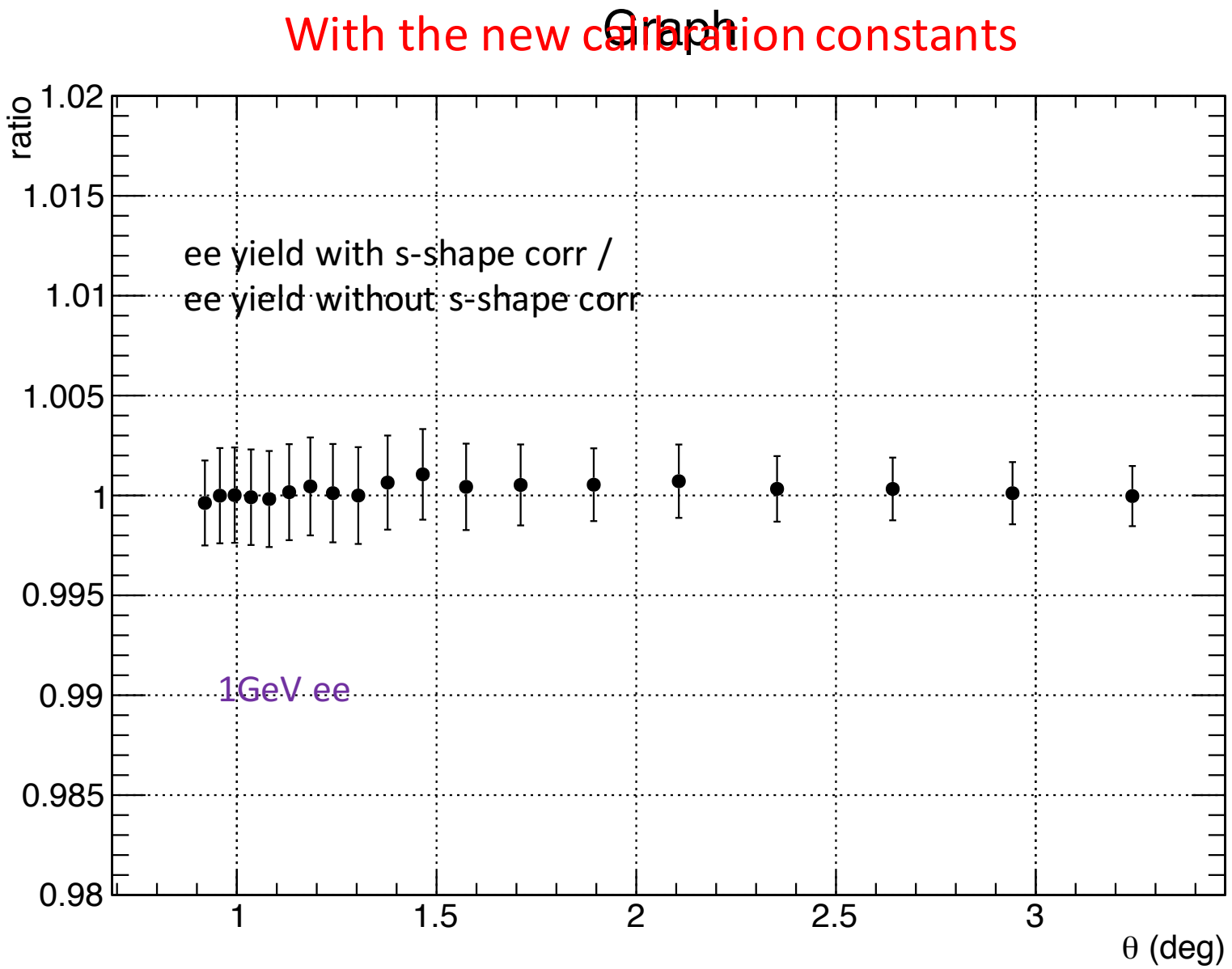
With the new calibration constants





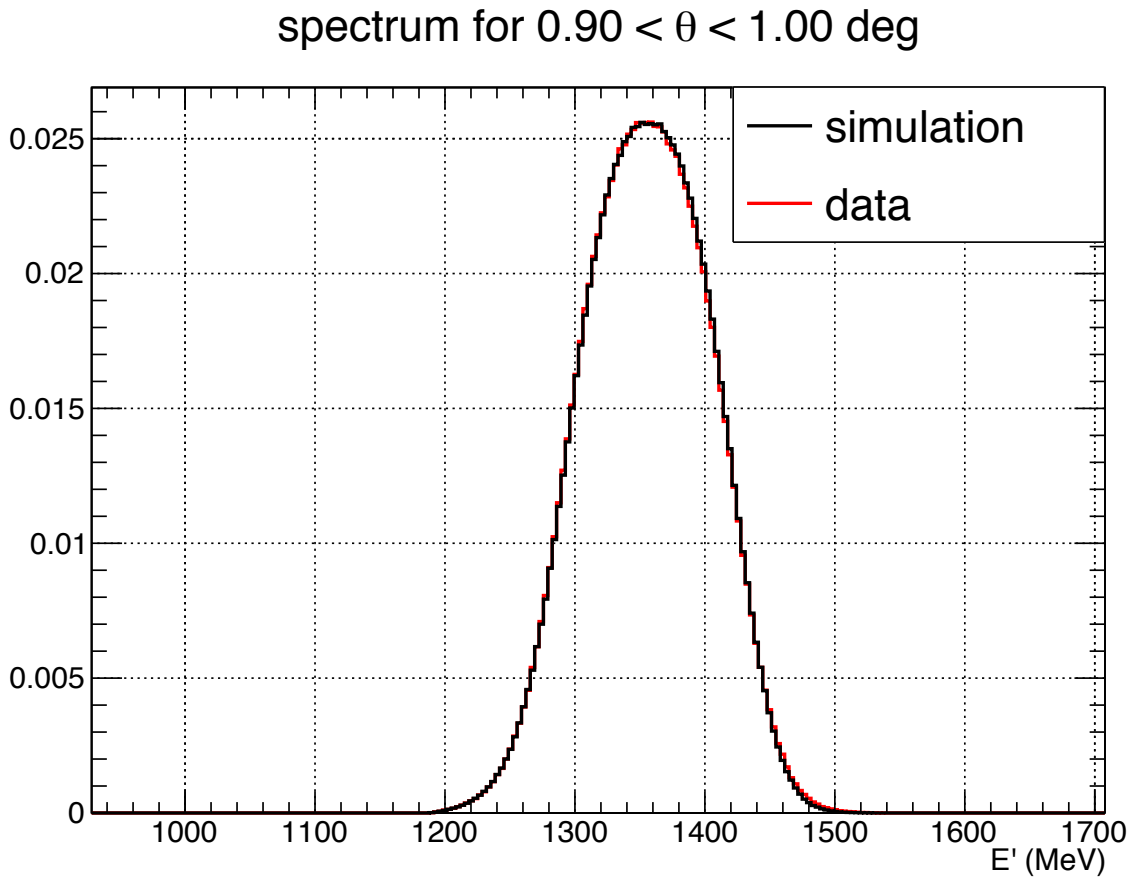
Effect of s-shape correction

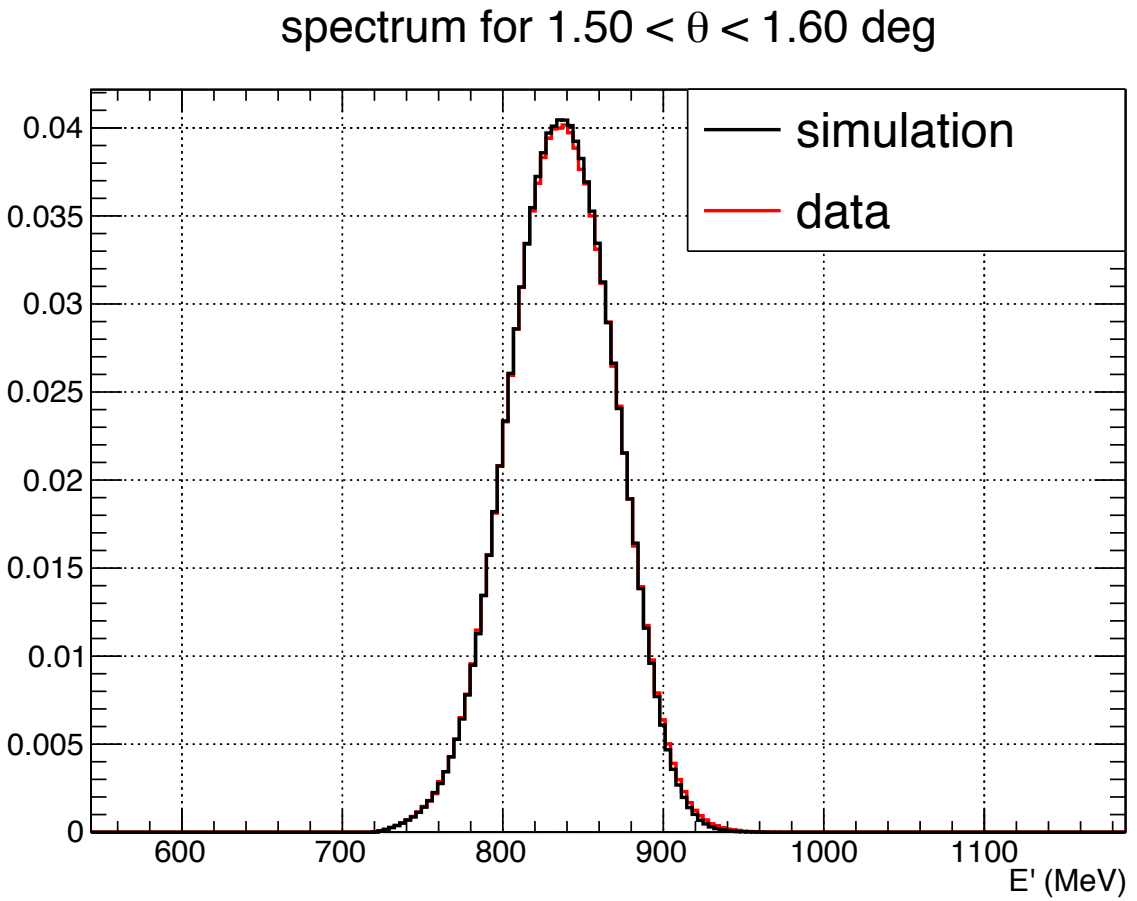
With the new calibration constants



MC calibration

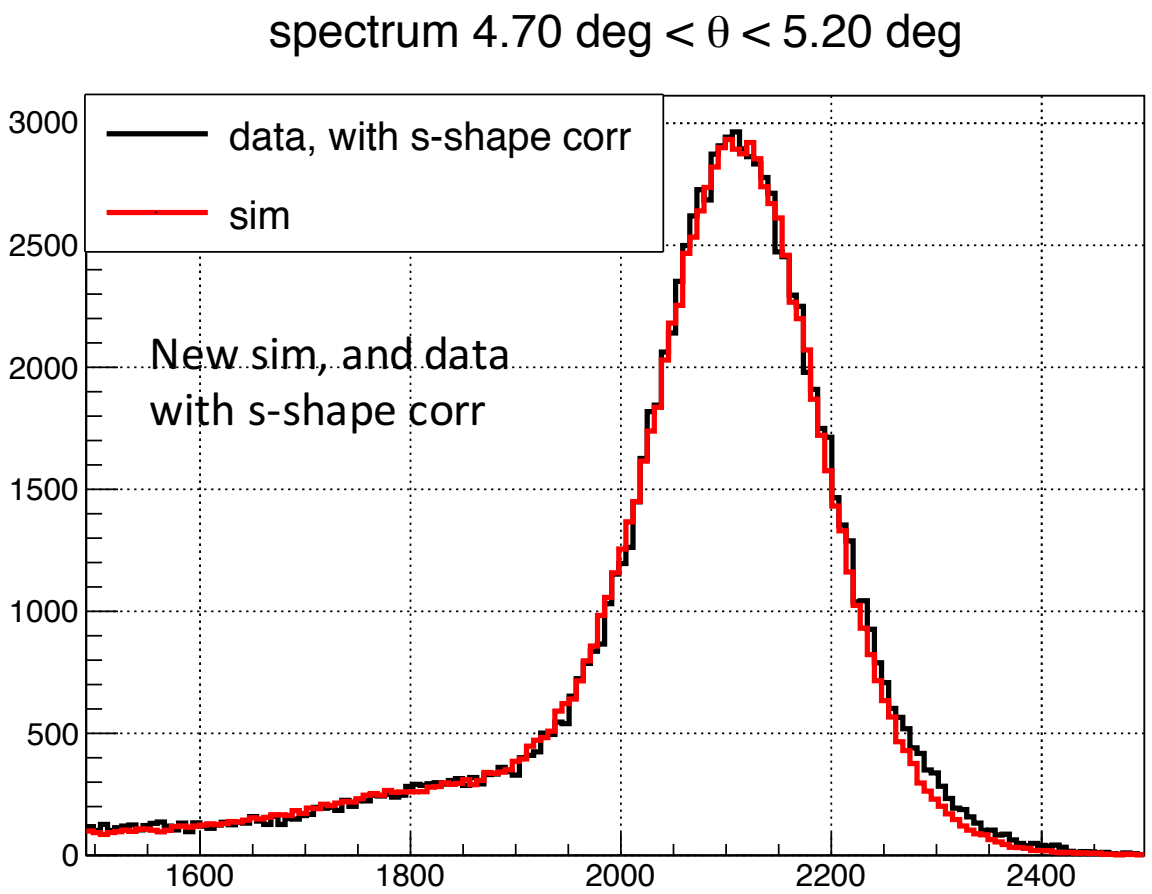
For 2GeV ee, distributions normalized by integrals

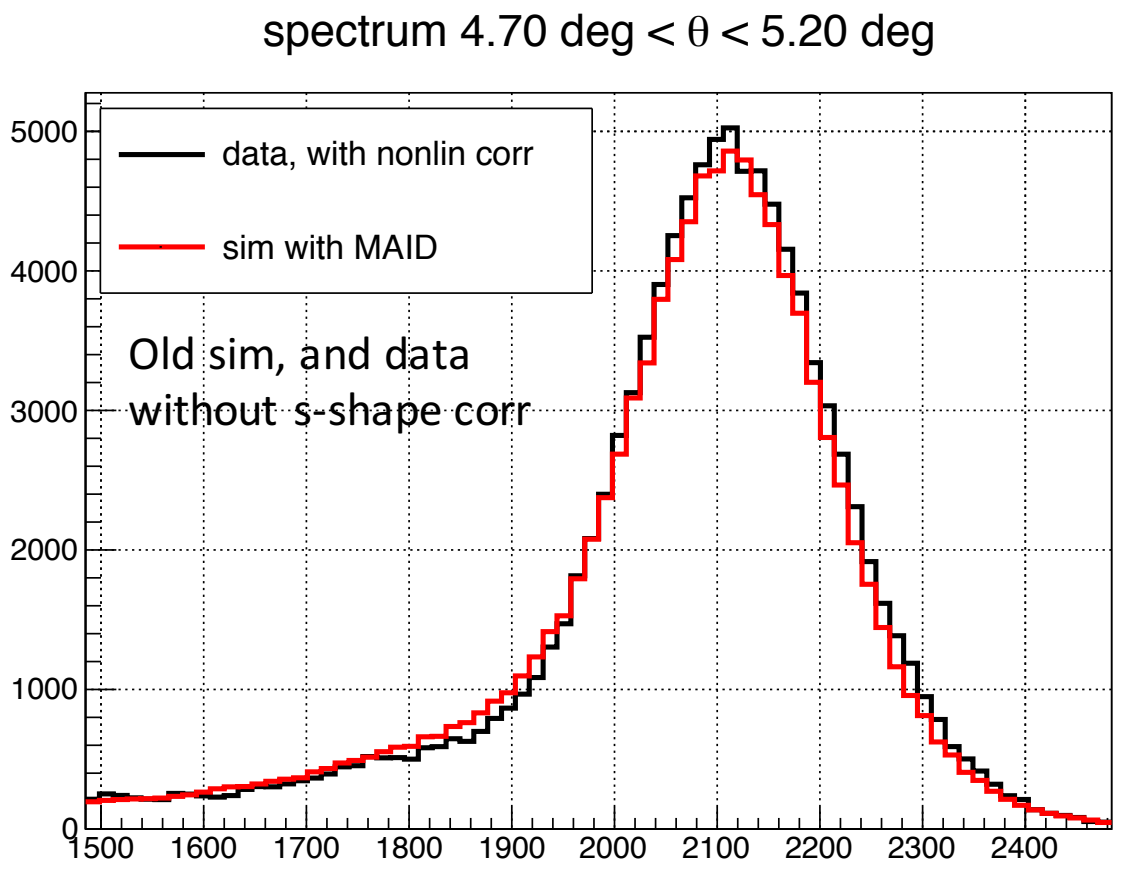




MC calibration

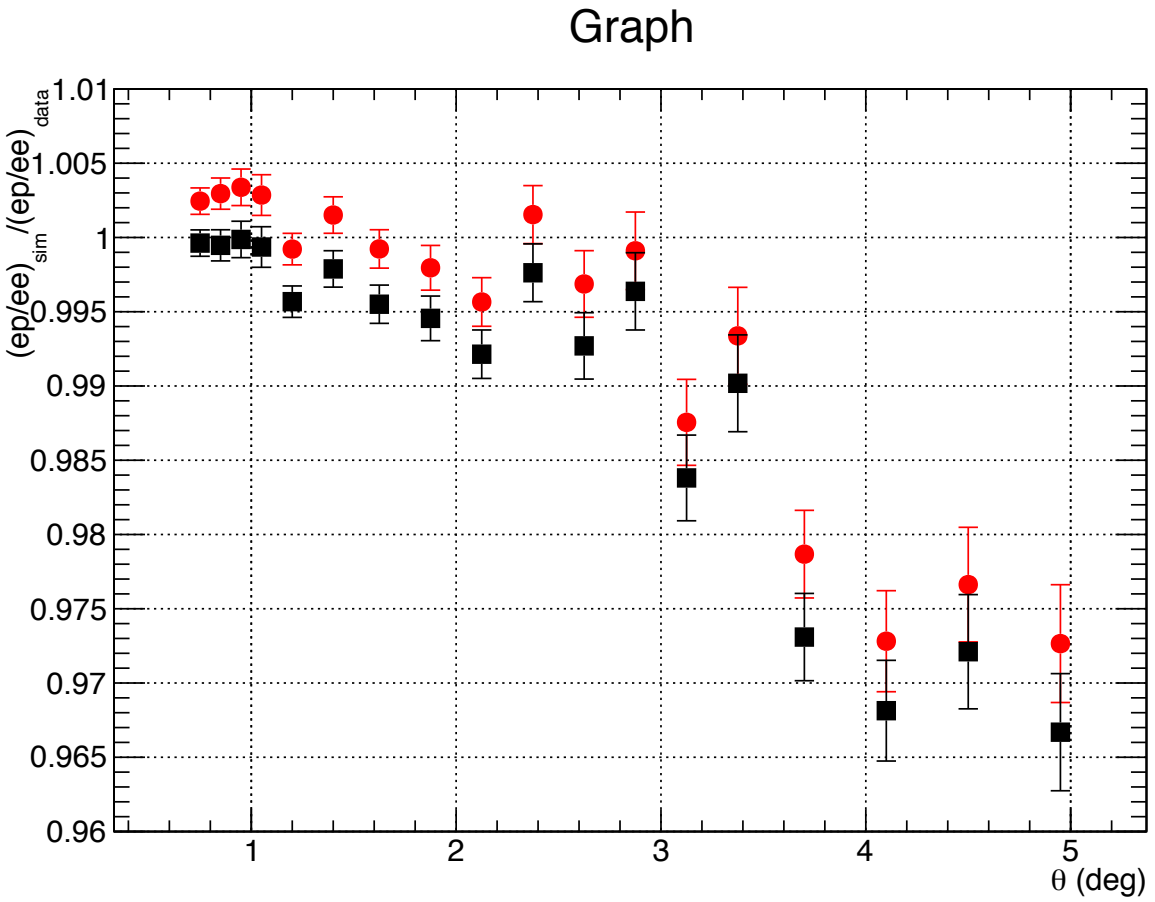
For 2GeV ep, distributions normalized by ee yield

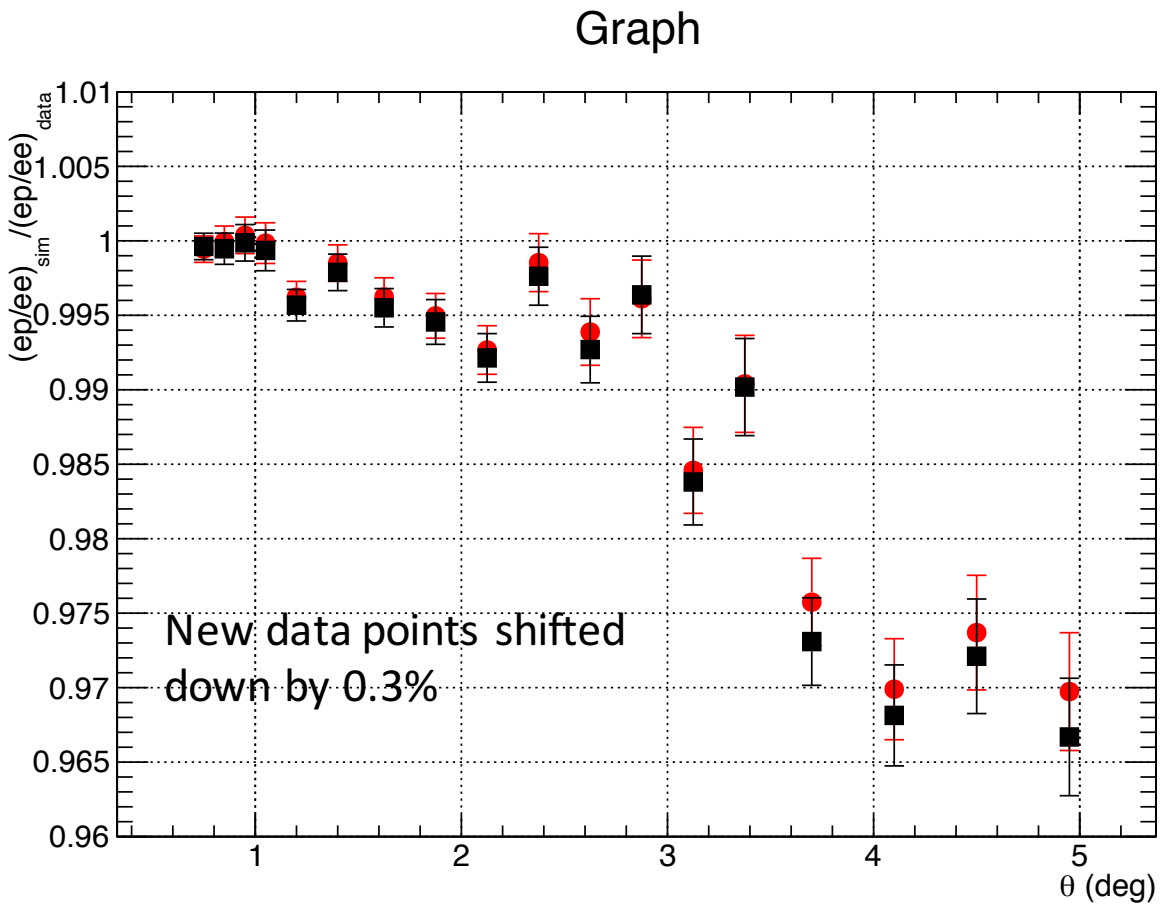




Super ratio

- With new calibration constants, new simulation and s-shape correction
- With old calibration constants, old simulation and no s-shape correction (same used in report for Volker)





To do

- Finish 1GeV mc calibration by tomorrow afternoon, produce 1GeV super-ratio
- Study different normalization methods
- Born inelastic MAID simulation
- Systematic uncertainty studies