

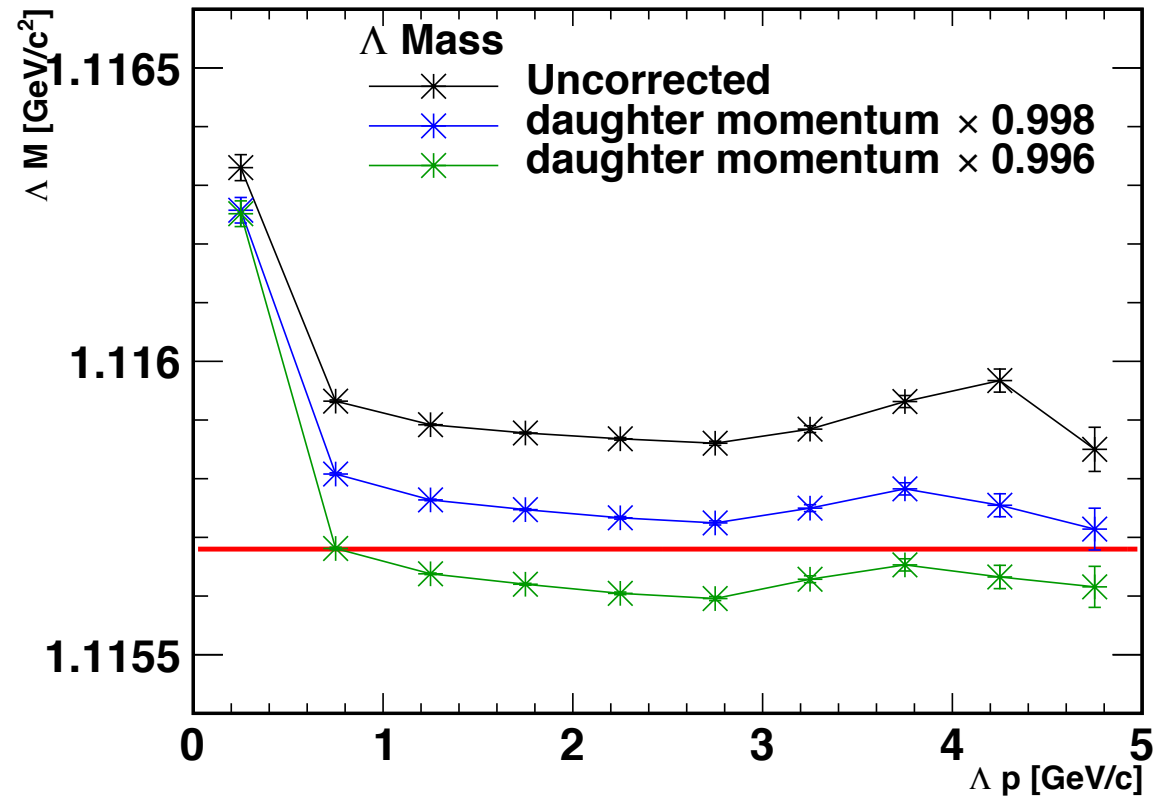
Energy Lost Correction for Λ at 3.85GeV FTX

Dataset: Run18 3.85GeV Au+Au FTX

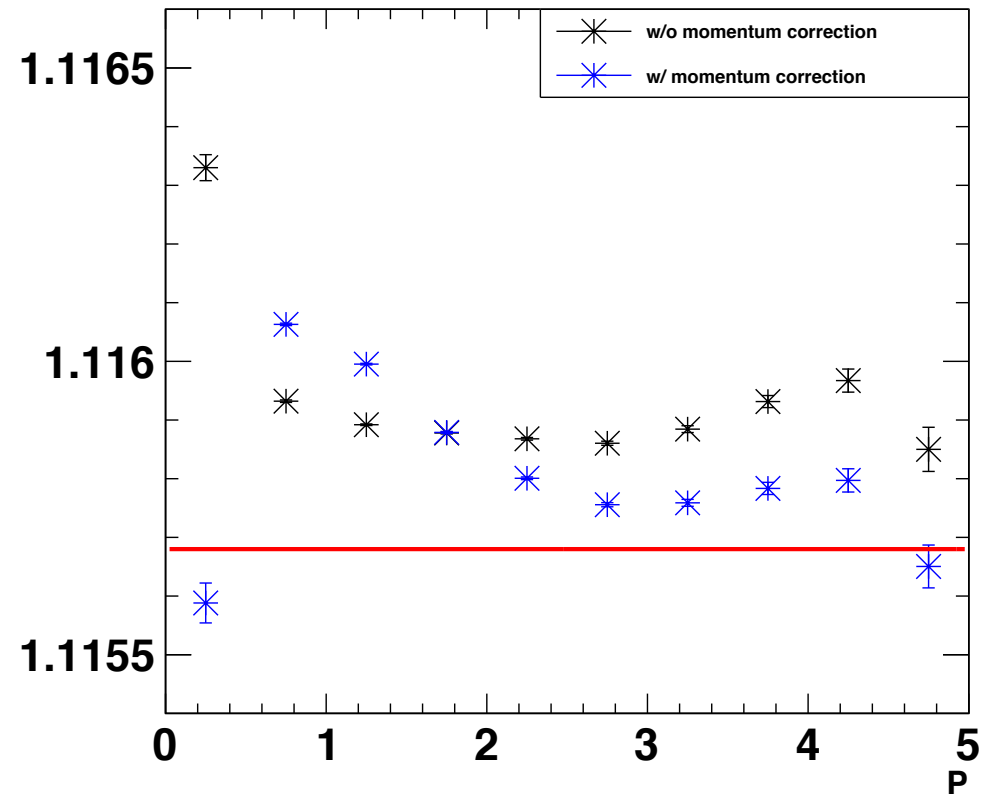
Embedding: official Λ embedding sample

Hongwei Ke
BNL

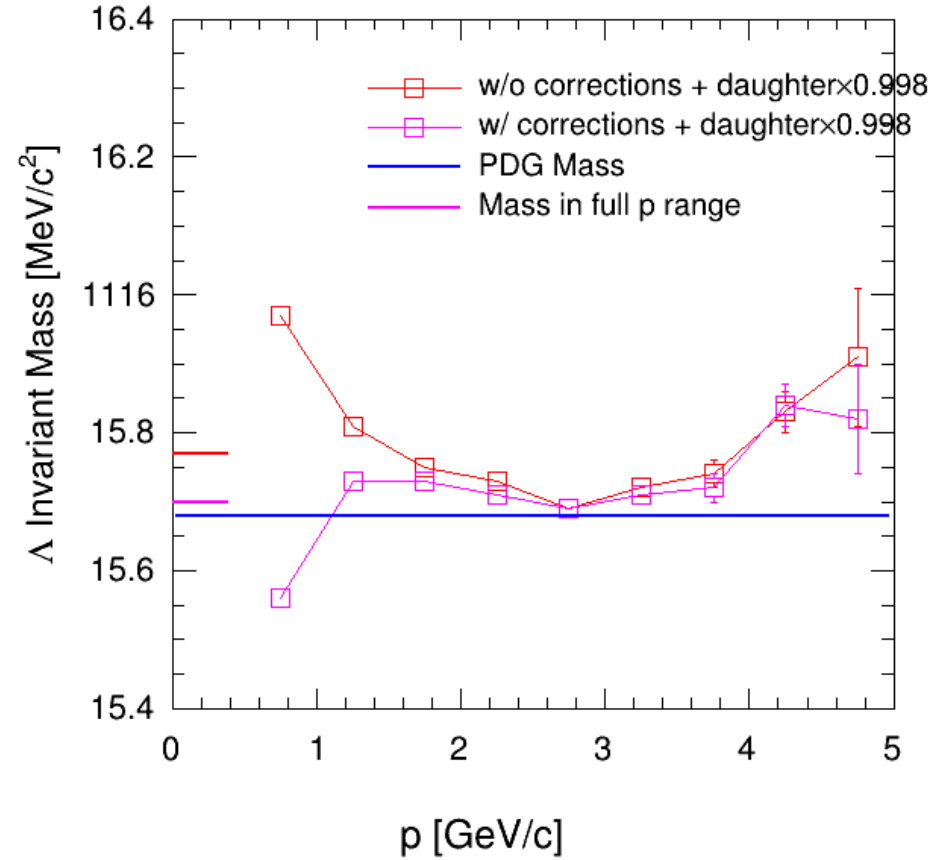
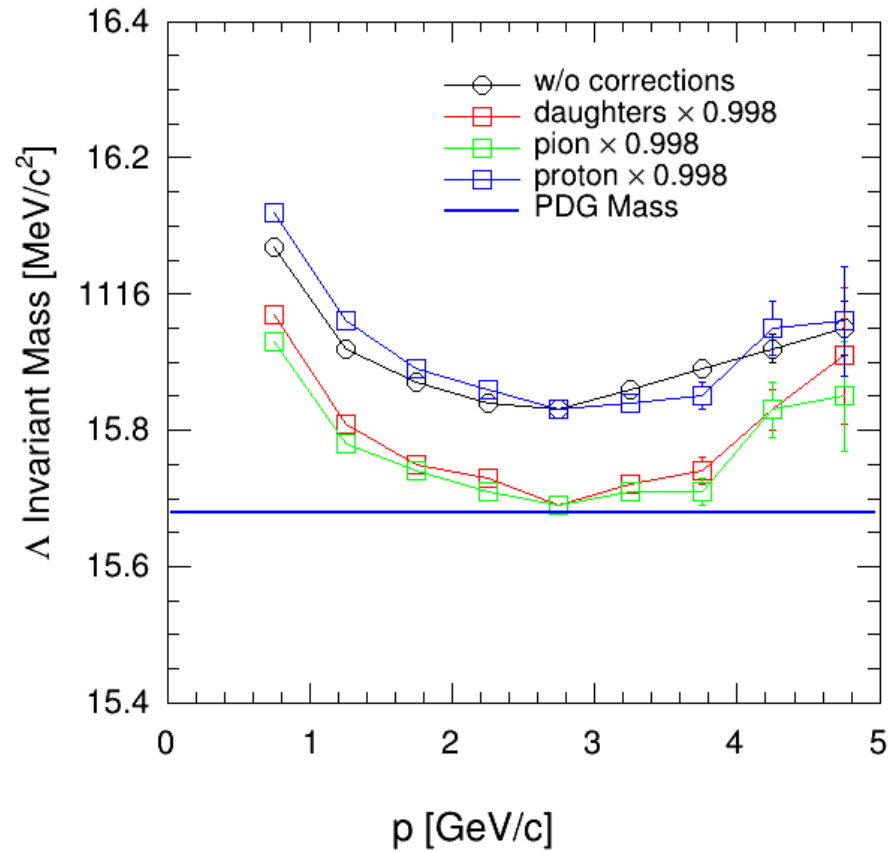
Previously reported



Lambda0 M

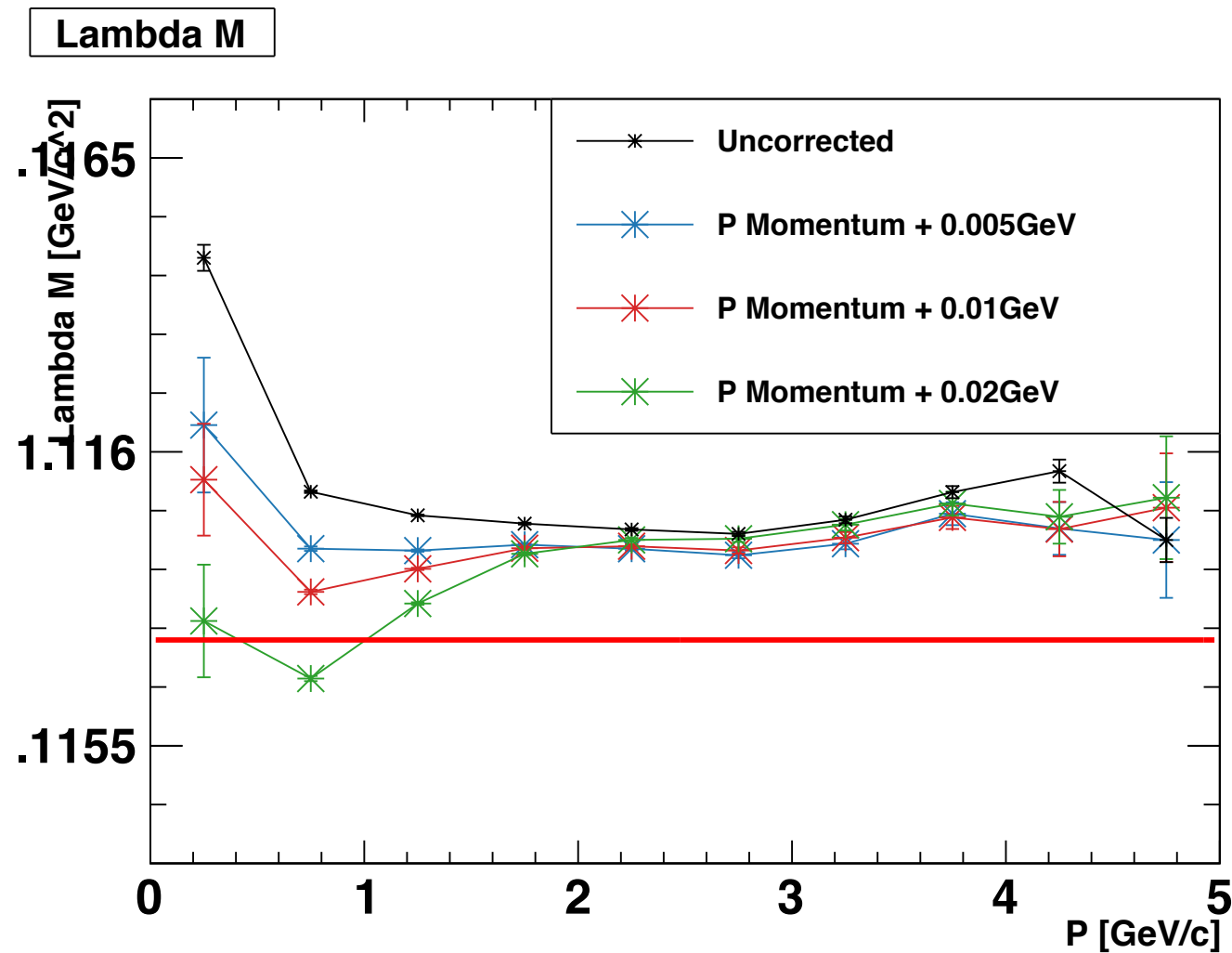


Tianhao's results

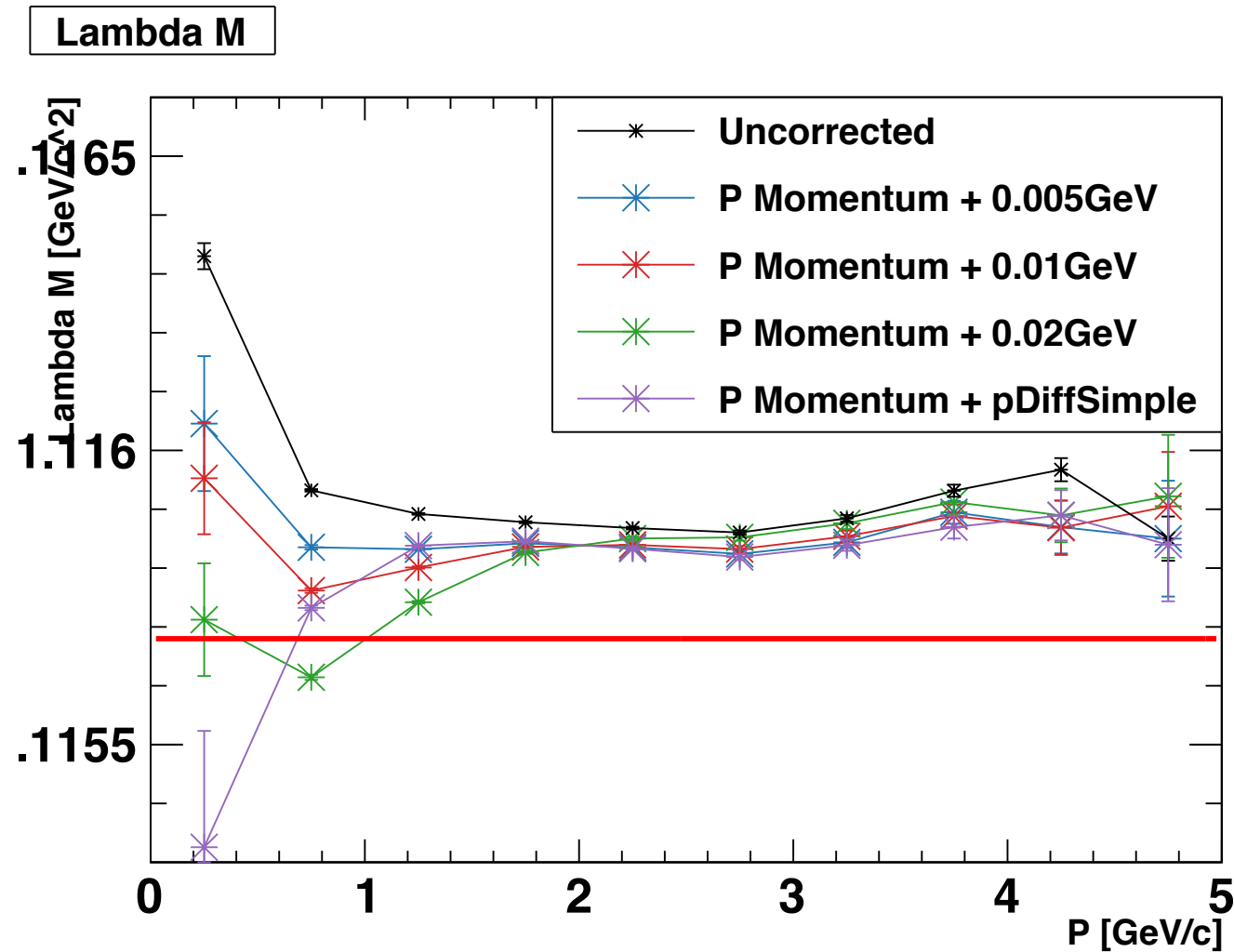


<https://drupal.star.bnl.gov/STAR/system/files/Tianhao-2021-03-Update-H4L-He4L-binding-energy-FXT-3p85.pdf>

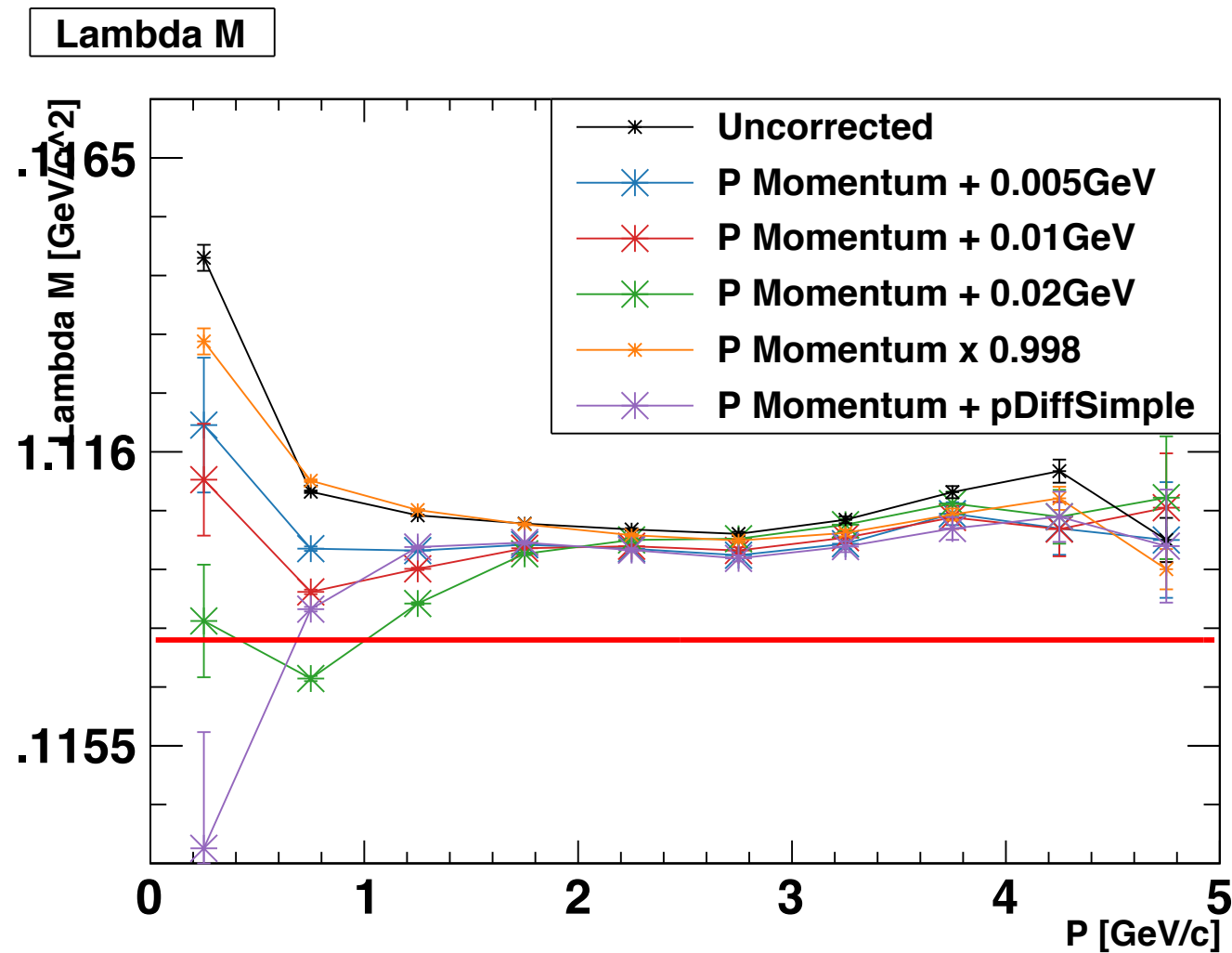
Check 1: shift proton momentum



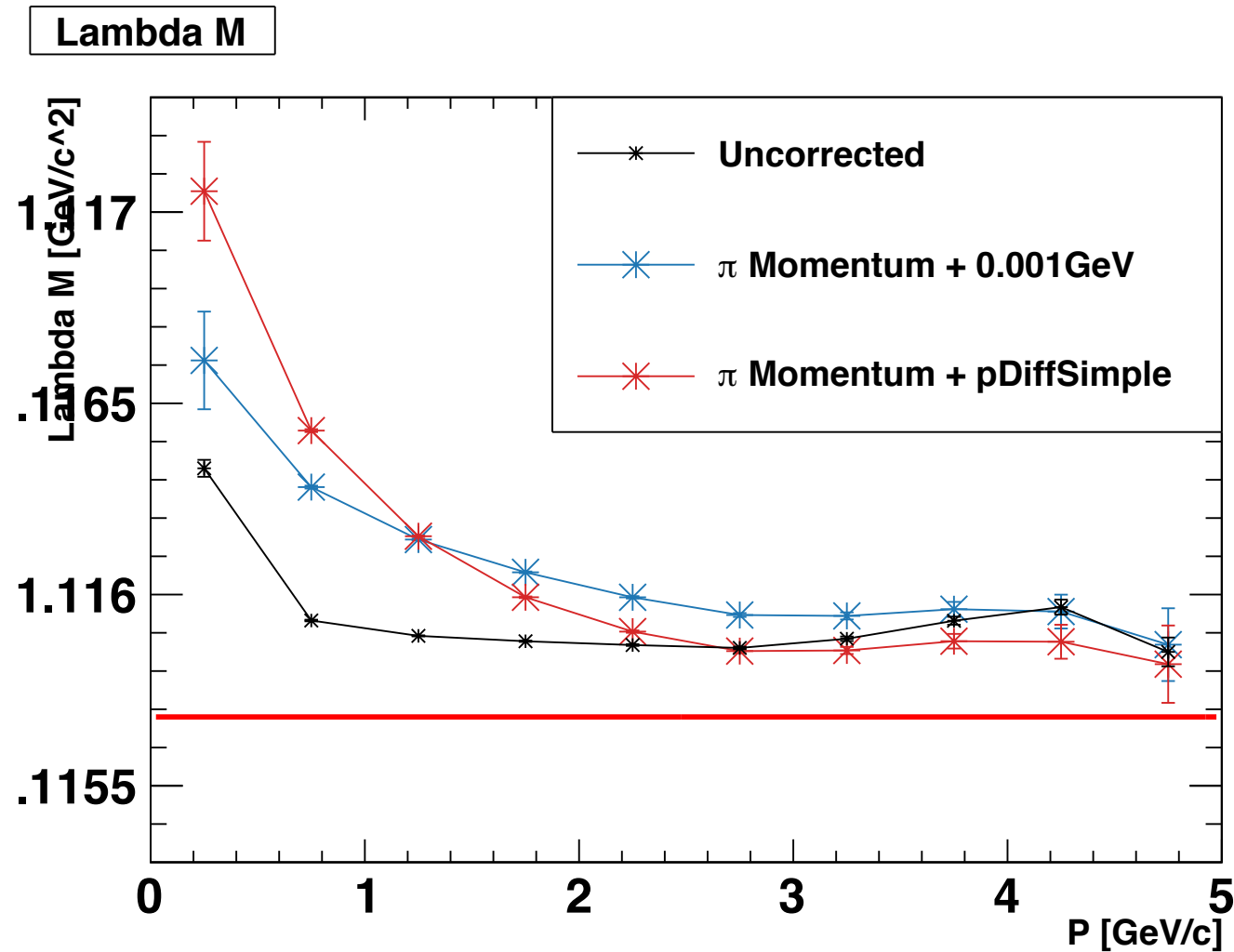
Check 1: shift proton momentum



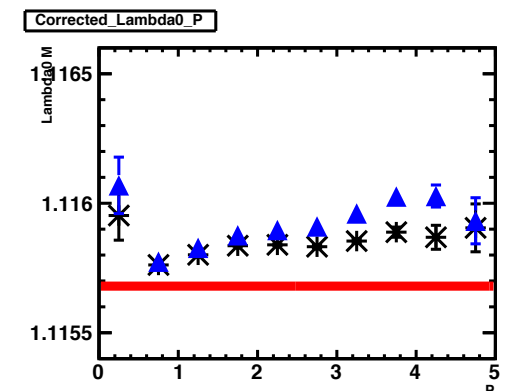
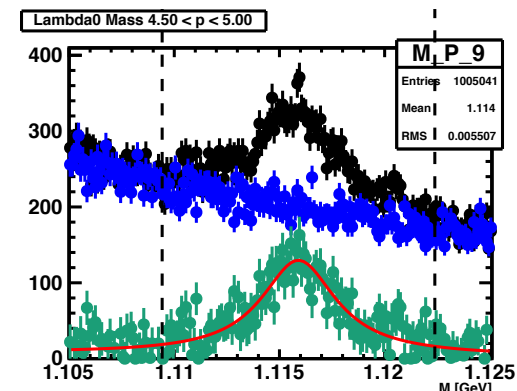
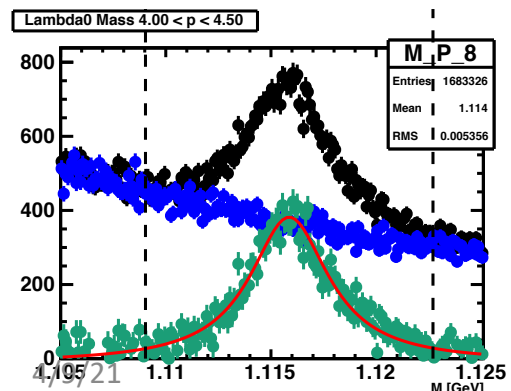
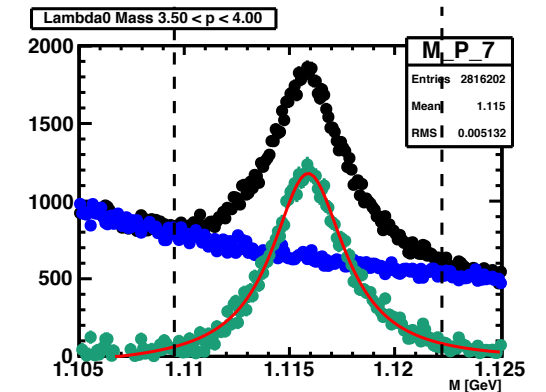
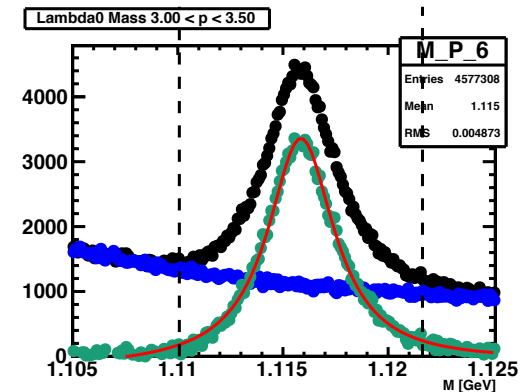
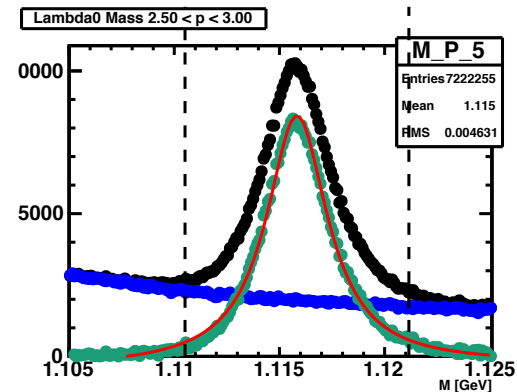
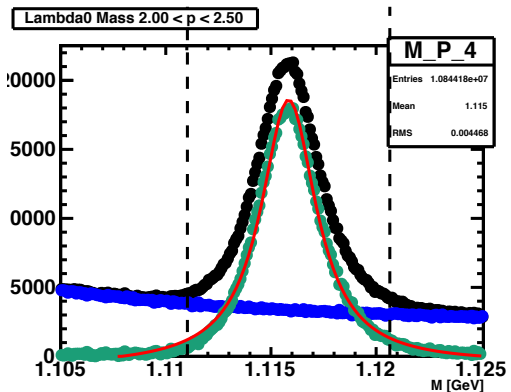
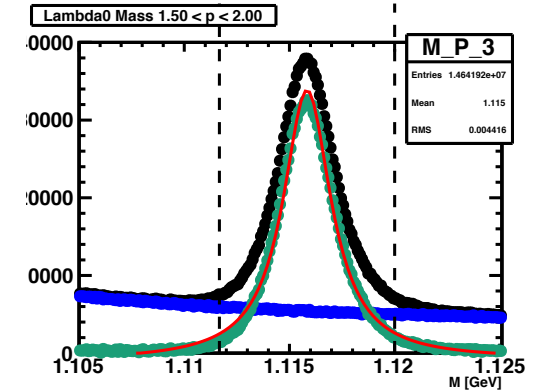
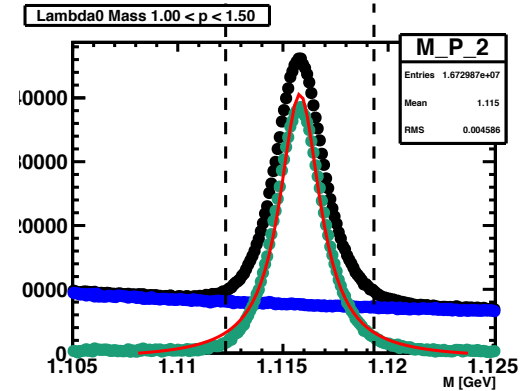
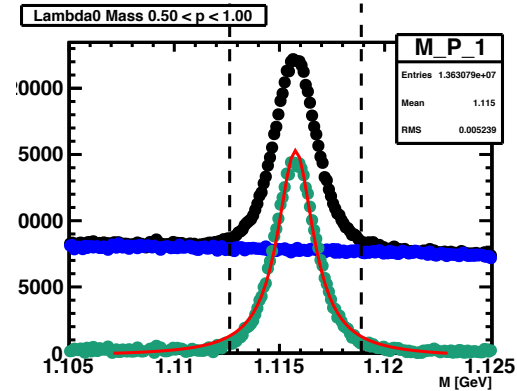
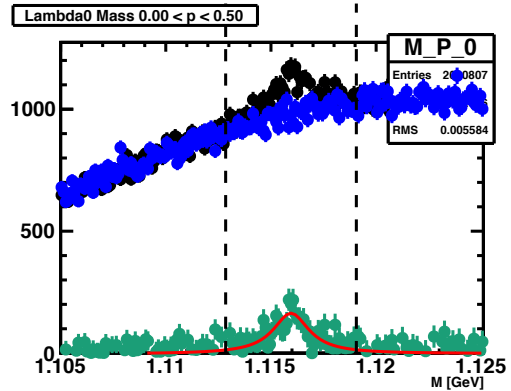
Check 1: shift proton momentum



Check 2: shift pion momentum

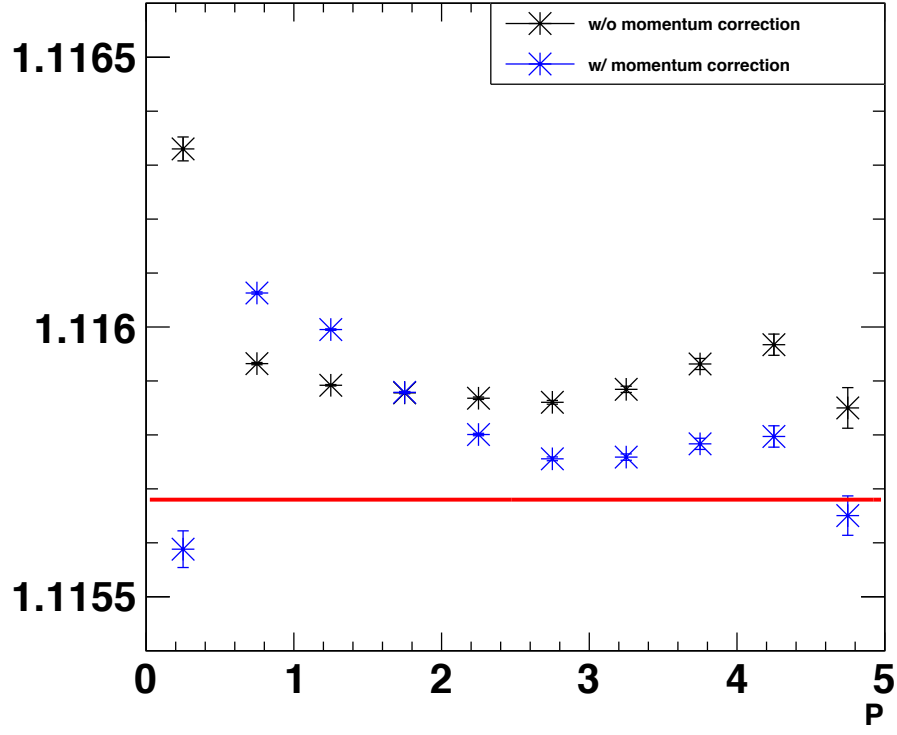


Check 3: fitted mass vs Mean

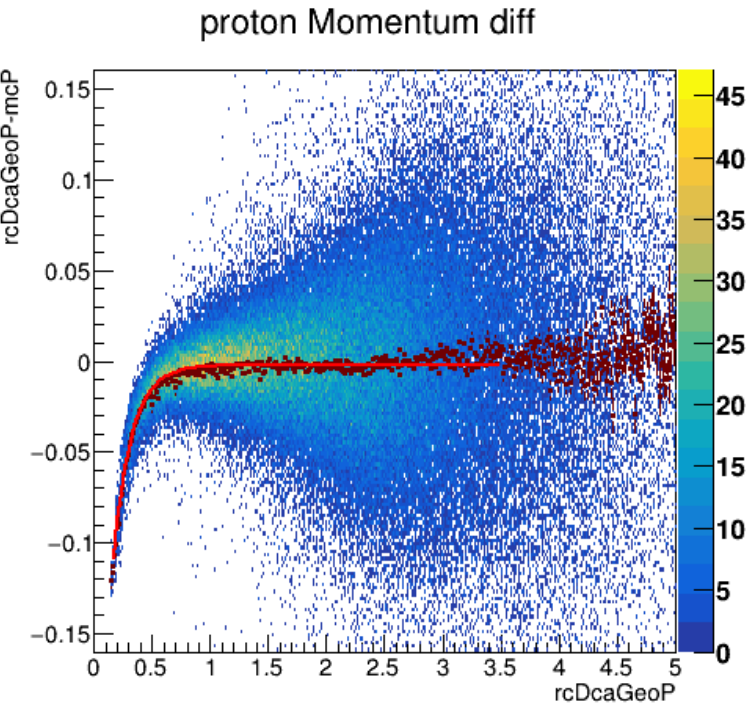
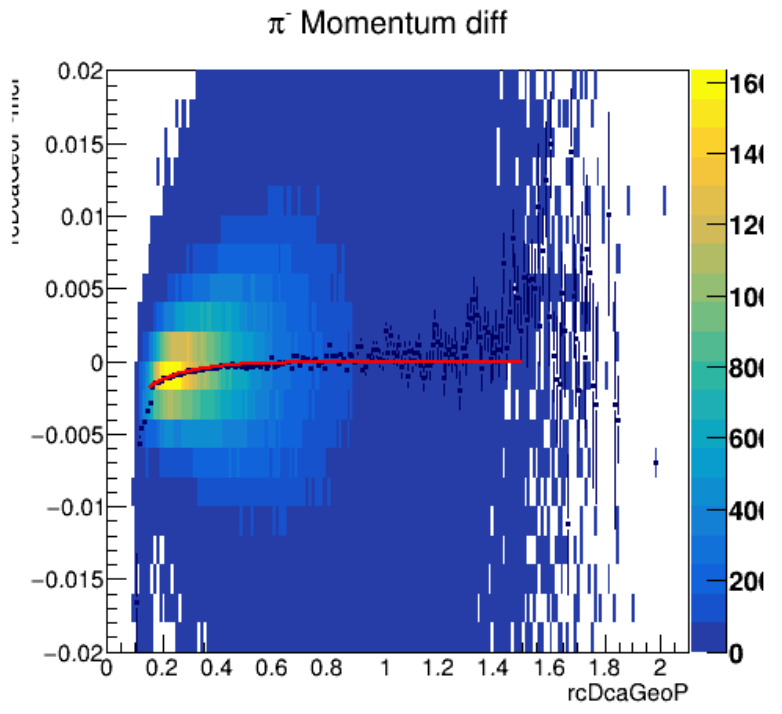


General trend:
 $p < 2$: close
 $p > 2$: Mean is larger

Lambda0 M



$$p_{RC} - p_{MC} \cdot v_S \cdot p_{RC}$$



- Pion energy lost is over estimated?