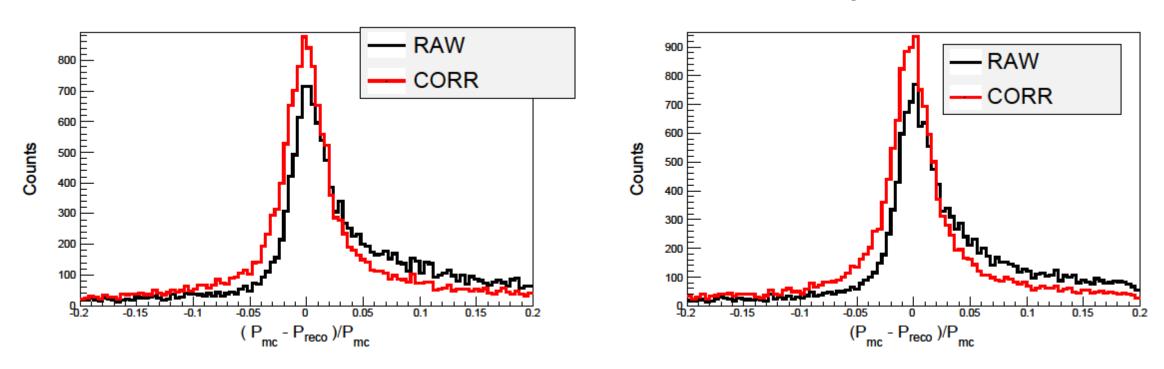
lambda 1520 analysis

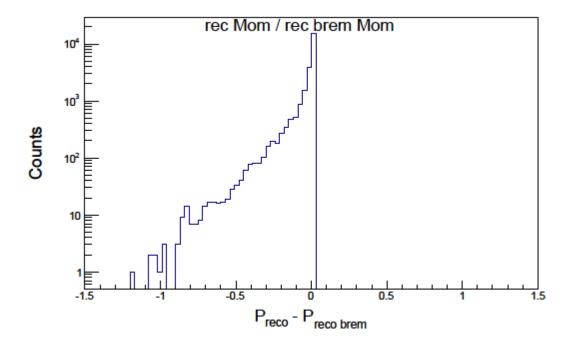
Jacek Biernat

The setup

- Full panda geo
- 30 000 events
- momentum at 4 GeV/c
- $pbar p \rightarrow \Lambda(1520)\overline{\Lambda}(1520)(stable) \rightarrow e^+e^-\pi^-p$

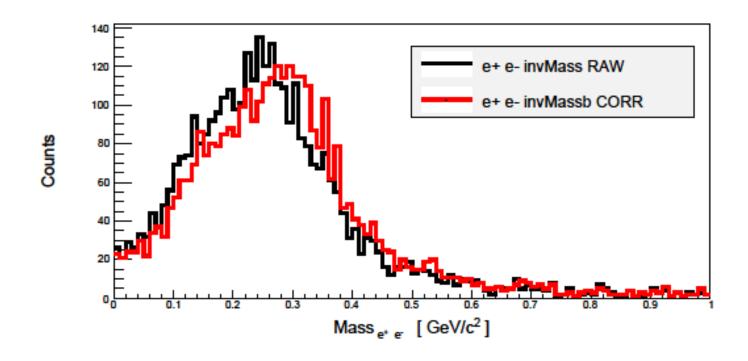


Comparison of reconstructed momentum resolution for corrected and un-corrected data (bremsstrahlung). Corrected data still shows asymmetric structure.



Difference between reconstructed momentum and the reconstructed with correction for bremsstrahlung

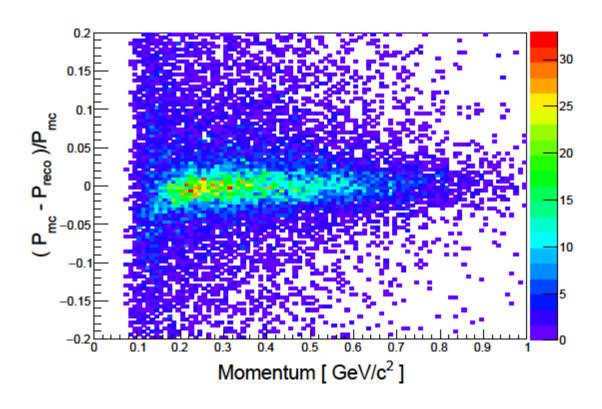
Invariant mass of e+ e- (corrected vs un corrected)

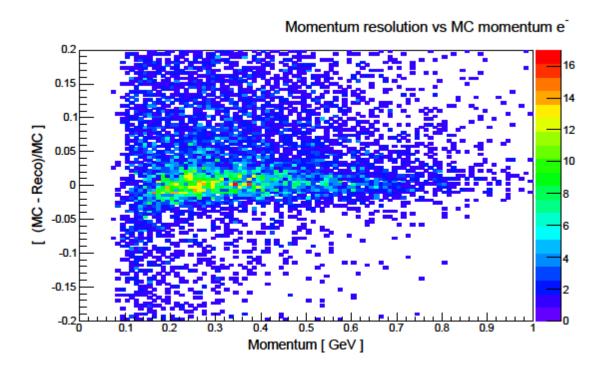


momentum resolution vs particle momentum

Corrected reconstructed momentum

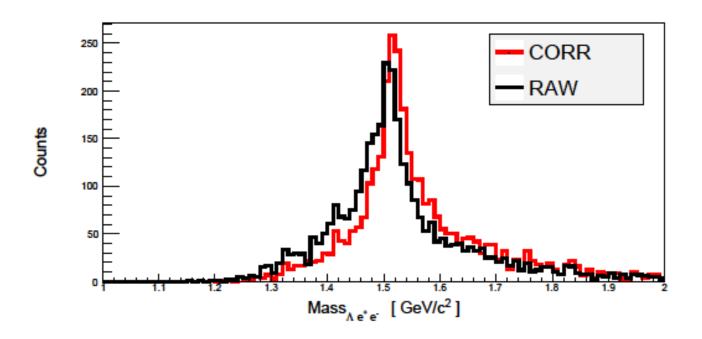
Uncorrected reconstructed momentum





Low momentum resolution for particles below 200 MeV

Invariant mass of (Λe^+e^-) system



The pole of the corrected distribution is shifted towards higher mass (1520)

New weight

