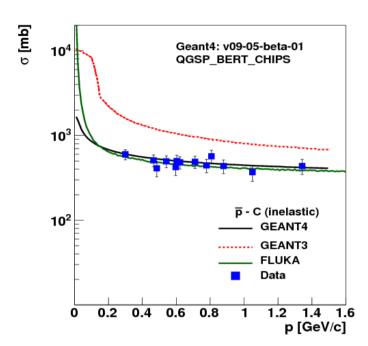
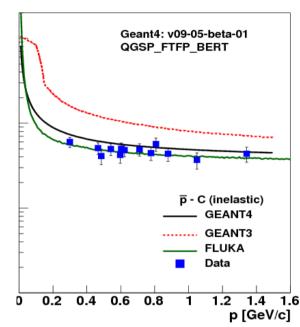
Requirements from ALICE

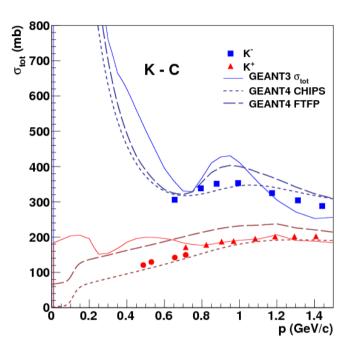
A. Morsch

G4 Technical Forum Nov. 8 2011

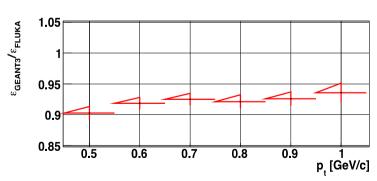
Strong interest in Geant4 for Identified Particle Spectra Analysis





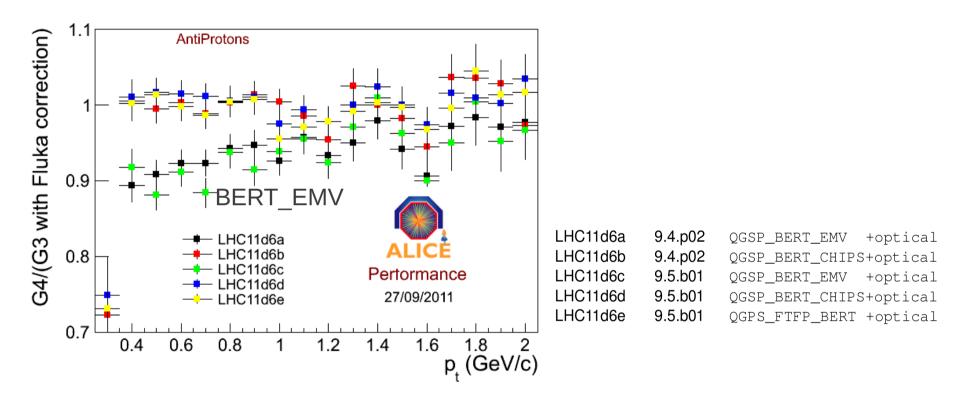


- (π,K,p)-A cross sections are not well reproduced in Geant 3 (our default transport)
- Much better in FLUKA: ad-hoc correction computed in 2009 for our pbar/p paper
- Geant4: as good as FLUKA, actively developed and validated, full support for ALICE
- K- better in G4?



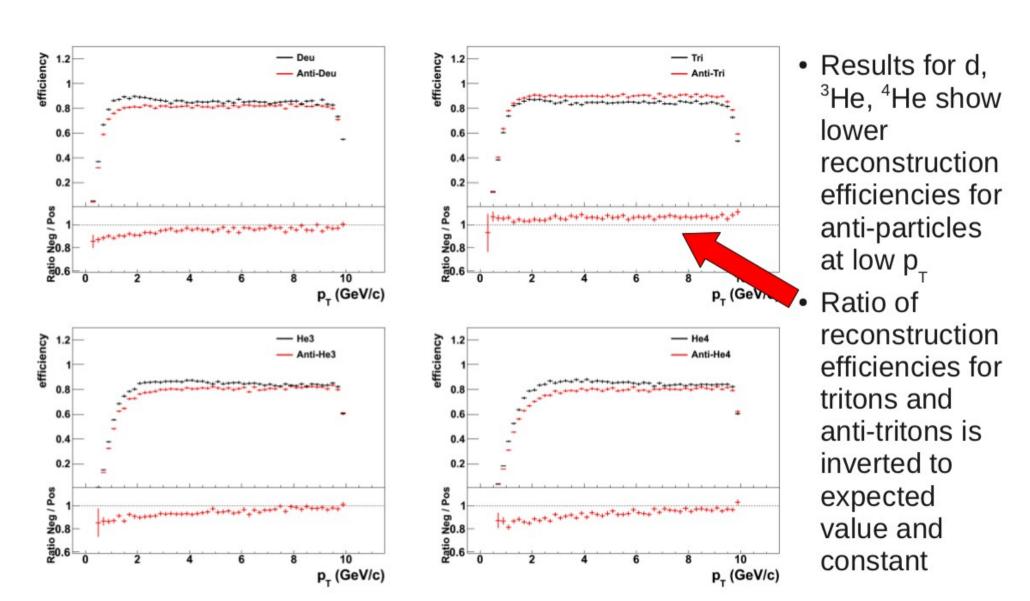
Correction factor: limited statistics and pT range

Anti-Protons



- Geant 4 does a good job, but the physics list matters!
- Large productions needed, using "QGSP_BERT_CHIPS" and "QGSP_FTFP_BERT" (this is also relevant for (anti)nuclei)

Anti-Nuclei



Requirements

- Physics list that combines features of QGSP_BERT_CHIPS (anti-p, K-) and QGSP_FTFP_BERT (anti-nuclei)
- Investigate/correct problem with triton.