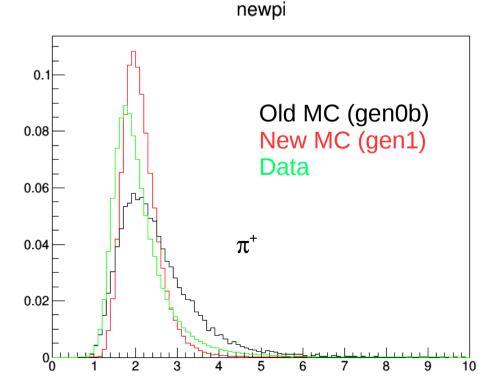
Minutes from the LNF workshop

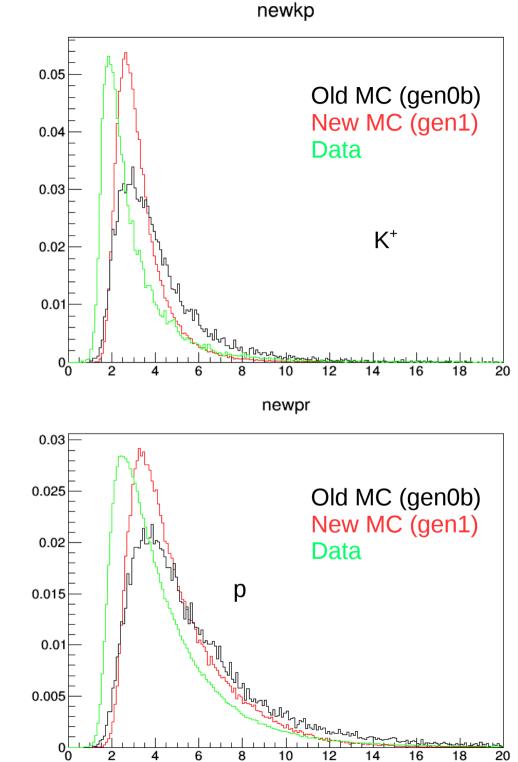
- Work sharing: single analysis where presented
- Energy loss correction included in K+/K- code (Ale)
- PID refinement:
 - Checked constistency between GiBUU MC (gen0b & gen 1) and Data (Ale)
 - Checked consistency between Urqmd MC and Data (Chi)
 - Common PID TCutG defined and iplemented in the analysis (Chi)

dEdX distribution comparison between different hydra version (gen0b & gen1) and Data

Particle selected through mass cuts:

π: 50< m <200 MeV/c² p: 850< m <1050 MeV/c² K: 450< m <550 MeV/c2

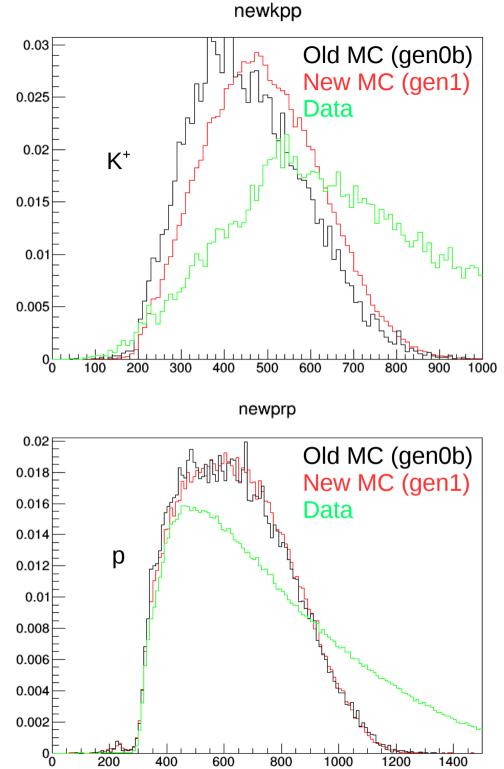


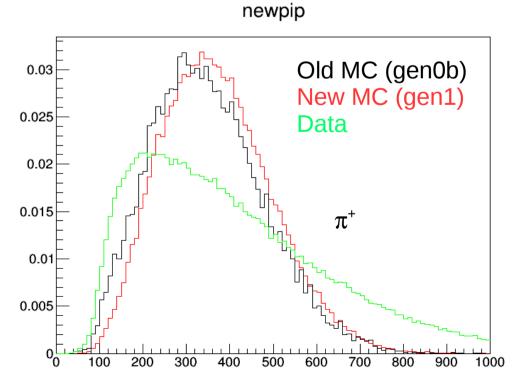


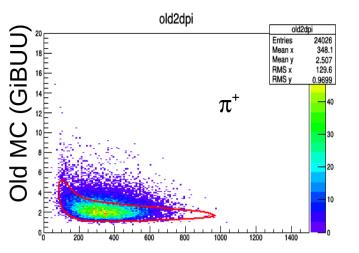
Momentum distribution comparison between different hydra version (gen0b & gen1) and Data

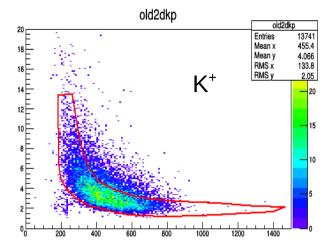
Particle selected through mass cuts:

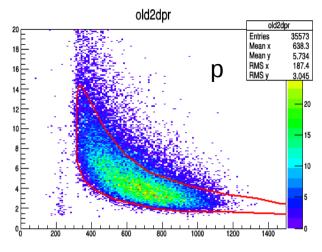
π: 50< m <200 MeV/c² p: 850< m <1050 MeV/c² K: 450< m <550 MeV/c2

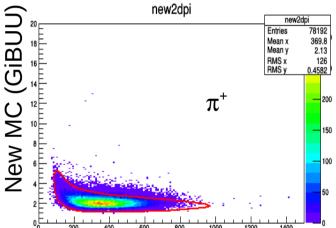


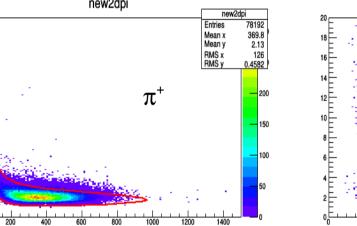


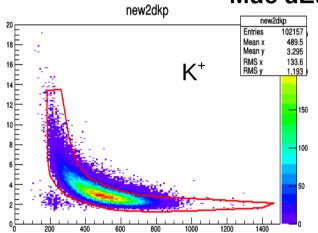




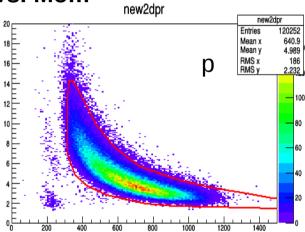


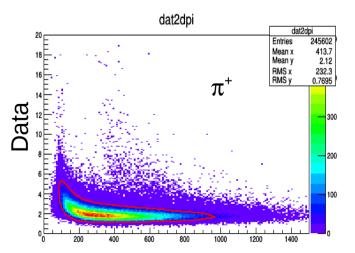


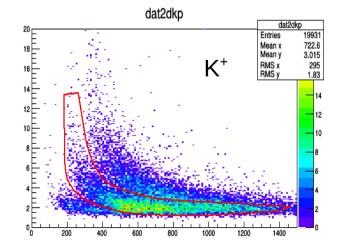


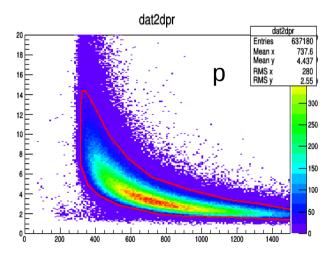


Mdc dEdx vs. Mom

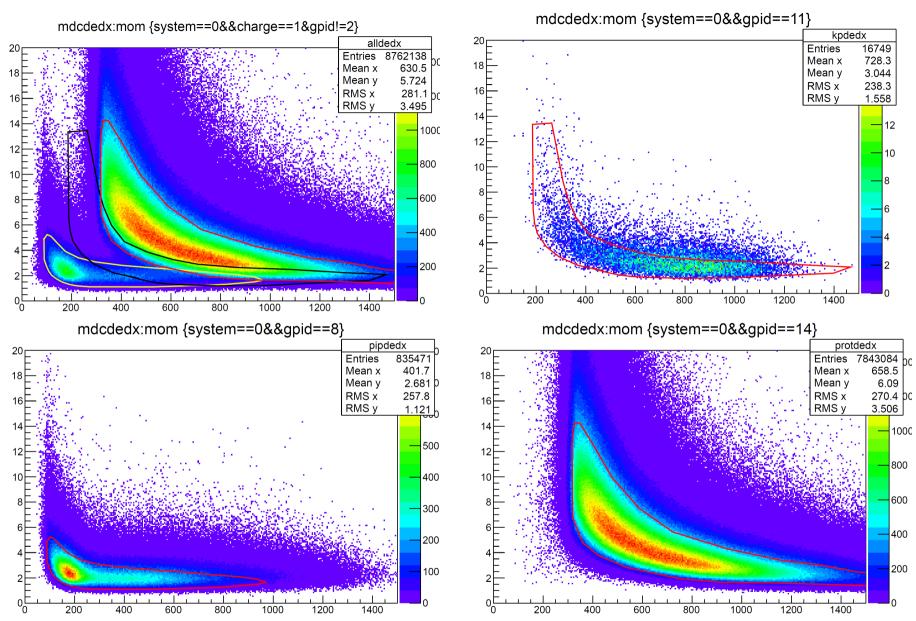






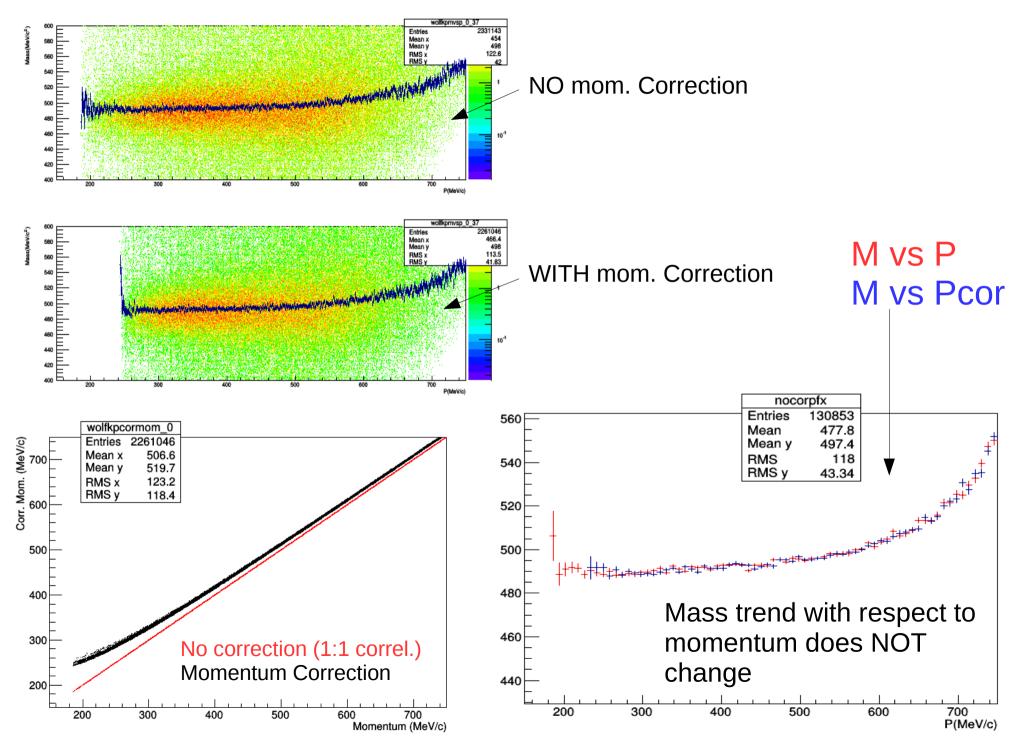


MDC dEdx vs. Mom (UrQMD)

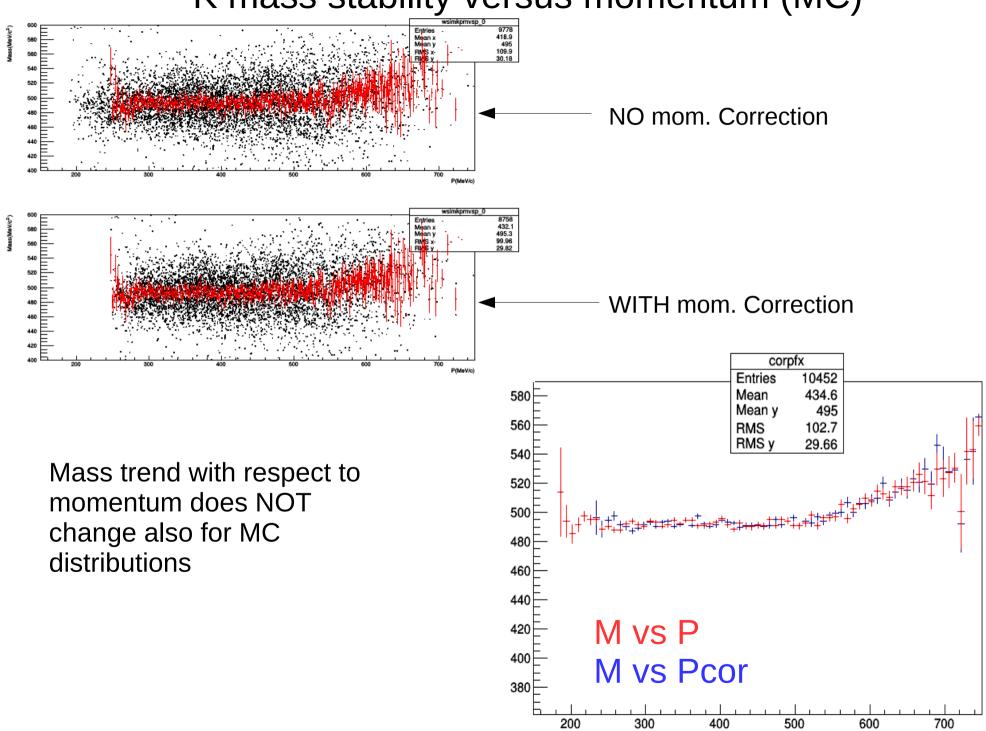


UrQMD simulations show better agreement with data with respect to GiBUU simulations

K mass stability versus momentum (Data)



K mass stability versus momentum (MC)



Questions to ask in HADES Meeting

- After Eloss correction, should one recalculate beta and mass? If yes, how?
- How to correct for start trigger efficiency? Is it already included in simdst or does one has to scale the yields manually by the efficiency? What is the number?

Task list - Alessandro

- New Fit (old method) with P_{cor} (new bins)
- New MC from UrQMD: gen1 generation
- New method 1: tail from pions and protons data
- New method 2: fix K mass and width from MC
- K+/K- ratio
- W/C ratio (Start efficiency needed?)
- Pion analysis?

Task list - Chii

- K0S: Eloss study with better cuts on vdx and PV to select really K0S decayed in target
- Phi:
 - Total and differential (p-th) yields in pi+C and pi+W
 - Produce full simulation chain with simulation including stable phis
 - Correction of yields

Task list – Joana & Steffen

- Joana: new dEdx PID cuts with sigma selection method
- Steffen: Tool for project management (timetable)