PID Selection

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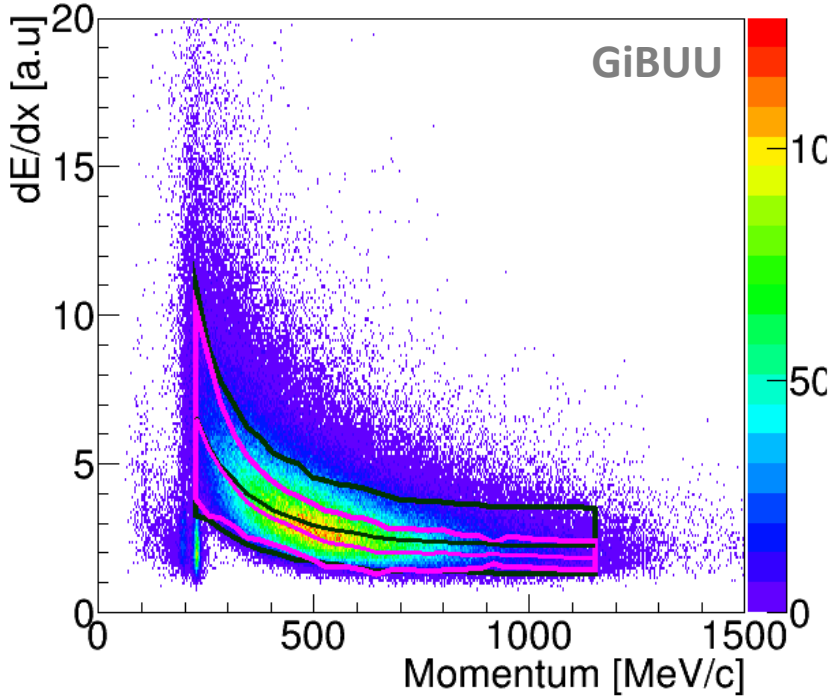
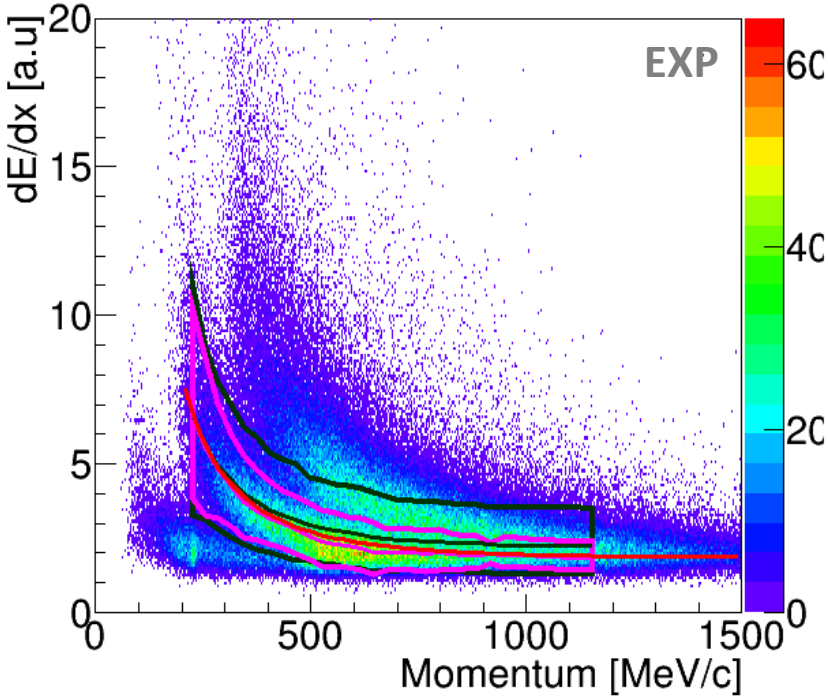
SUMMARY

PID Selection Procedure

GiBUU & EXP: π^-W (w.o. energy loss correction)
System 0

SELECTION of Kaons:
M_{K+} ± 50 MeV/c^2





Gauss: Detector resolution
Landau: dE/dx

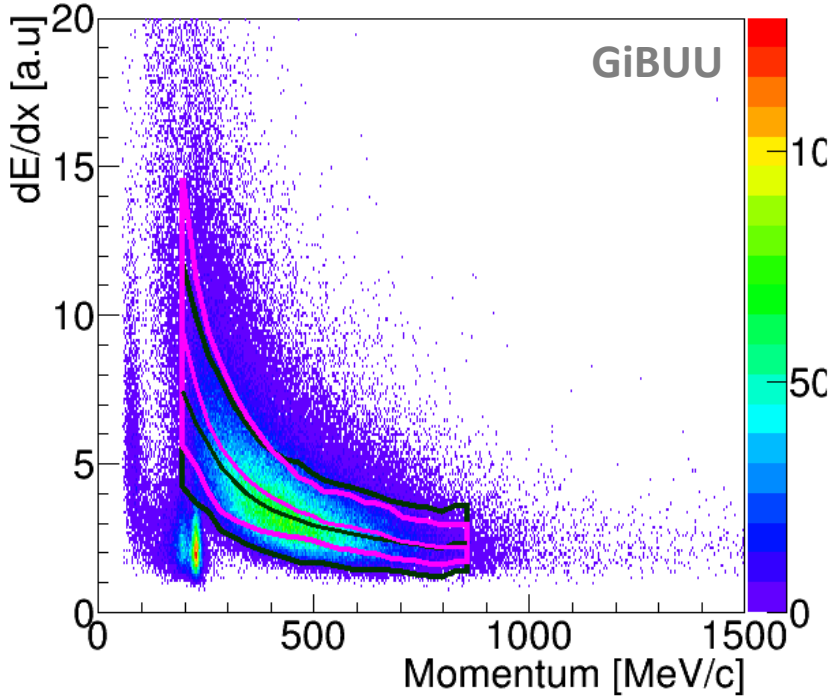
$\otimes$ **Langaus**

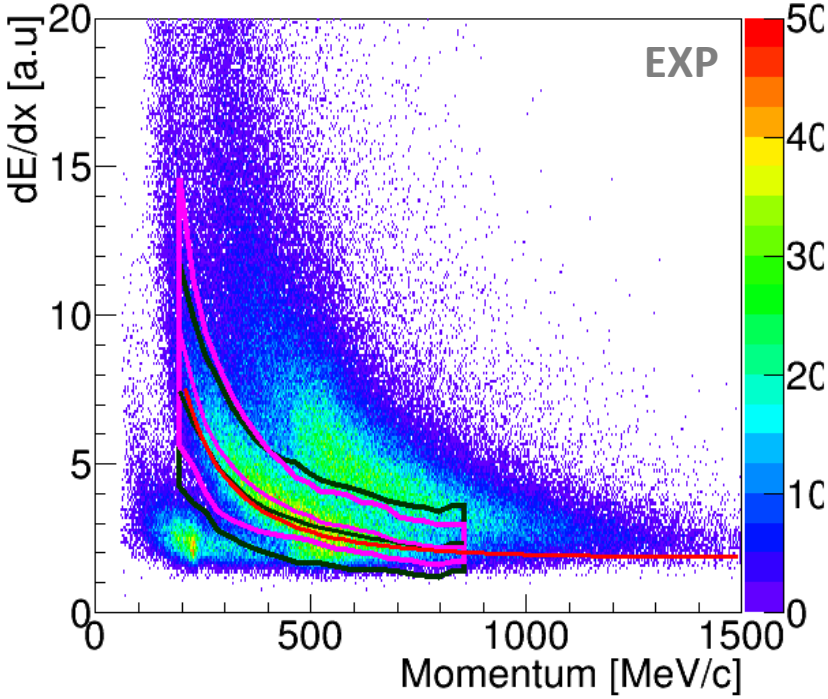
Pion: Langaus Proton: Langaus
Kaon: Langaus **$\sigma = \mathrm{sqrt}(sg^2+sl^2)$**

PID Selection Procedure

GiBUU & EXP: π^-W (w.o. energy loss correction)
System 1

SELECTION of Kaons:
M_{K+} ± 50 MeV/c^2





Gauss: Detector resolution
Landau: dE/dx

⊗ **Langaus**

Pion: Langaus Proton: Langaus
Kaon: Langaus **$\sigma = sqrt(sg^2+sl^2)$**

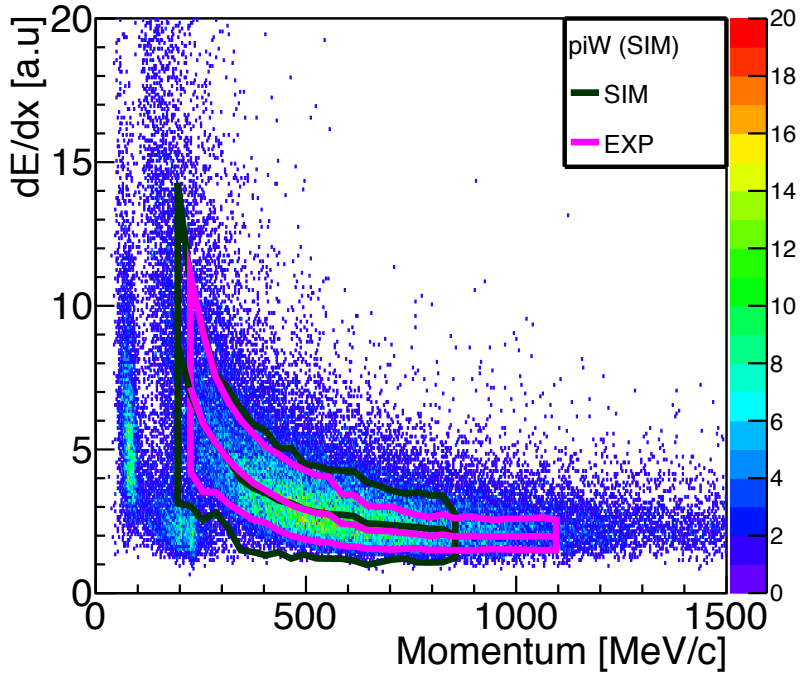
OLD RESULTS

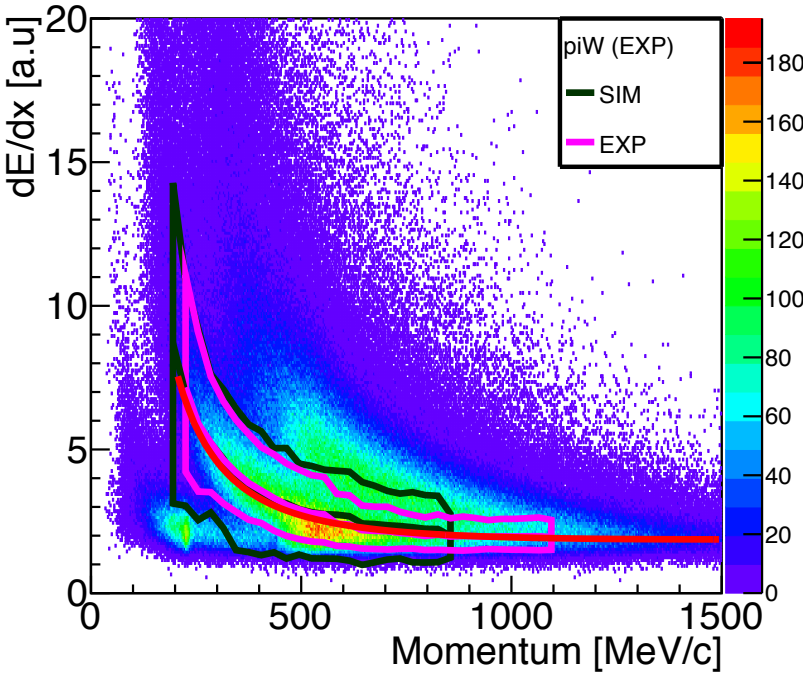
PID Selection Procedure

URQMD & EXP: π^-W (w.o. energy loss correction)

Slices of 30 MeV/c

SELECTION of Kaons:
M_{K+} ± 50 MeV/c^2





Gauss: Detector resolution
Landau: dE/dx

⊗ **Langaus**

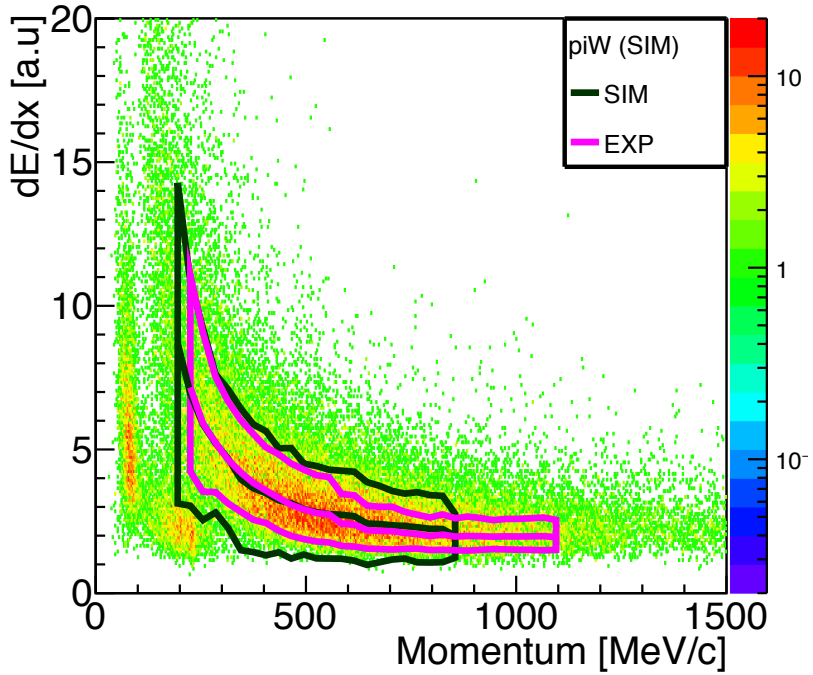
Pion: Langaus Proton: Langaus
Kaon: Langaus **$\sigma = sqrt(sg^2+sl^2)$**

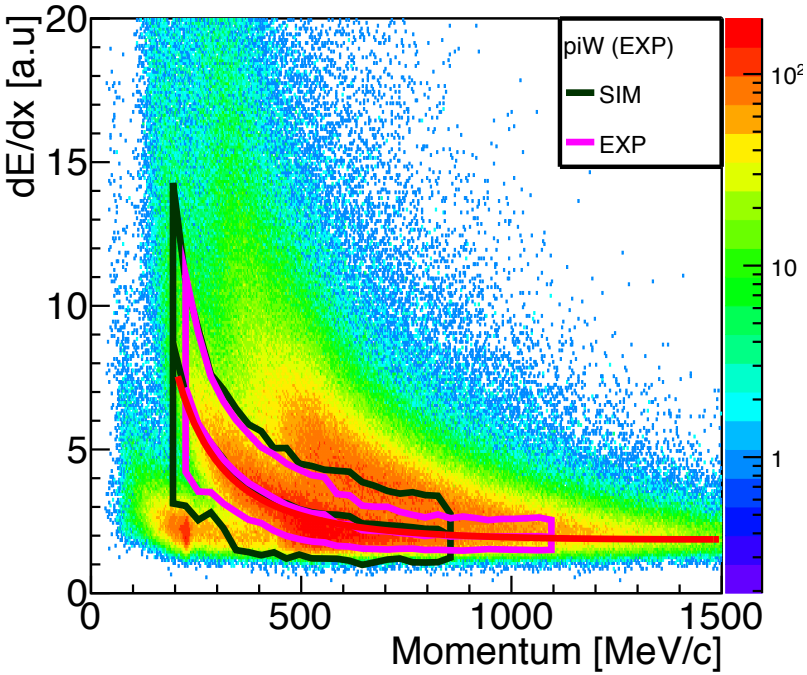
PID Selection Procedure

URQMD & EXP: π^-W (w.o. energy loss correction)

Slices of 30 MeV/c

SELECTION of Kaons:
$M_{K+} \pm 50$ MeV/c^2





Gauss: Detector resolution
Landau: dE/dx

$\otimes$ **Langaus**

Pion: Langaus Proton: Langaus
Kaon: Langaus **$\sigma = \mathrm{sqrt}(sg^2+sl^2)$**

Summary & Outlook

PID Selection:

➔ Selection based on **Langauss: Simulatanious fit of π^+, K^+, p**