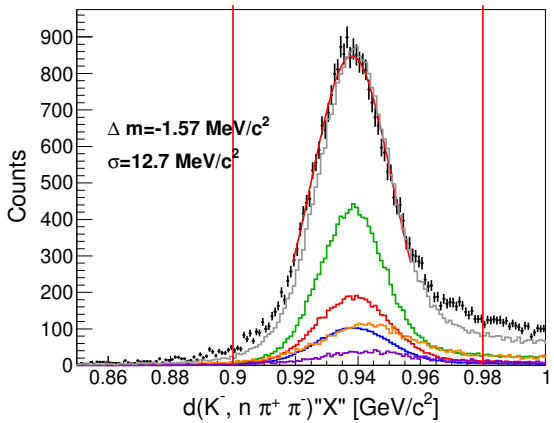
Current Status

Kentaro Inoue

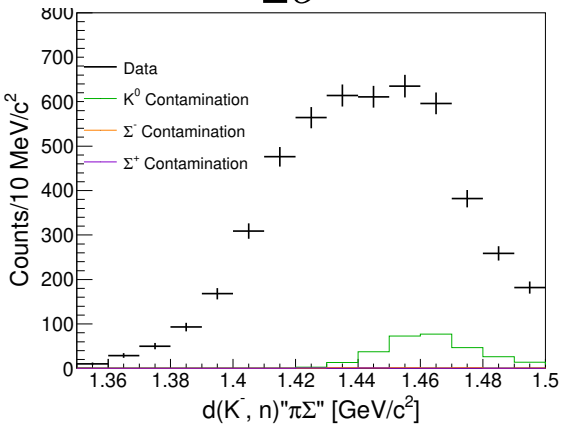
April 25, 2019

$d(K^-, n)"\pi^{\pm}\Sigma^{\mp}"$

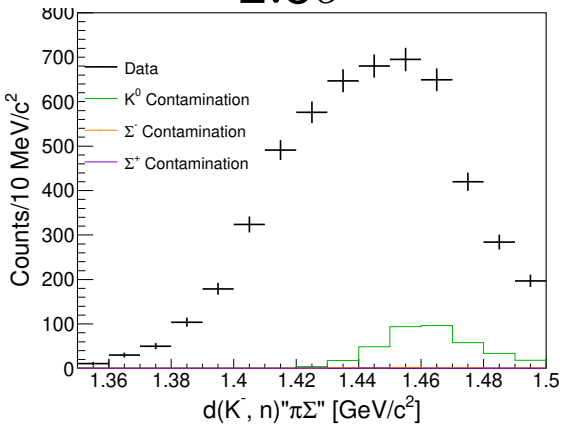


$d(K^-, n\pi^+\pi^-)"n"$ selected region was changed.
Default $0.90 \sim 0.98[GeV/c^2]$
MC NC resolution study.
$150px(default), 160ps, 170ps$

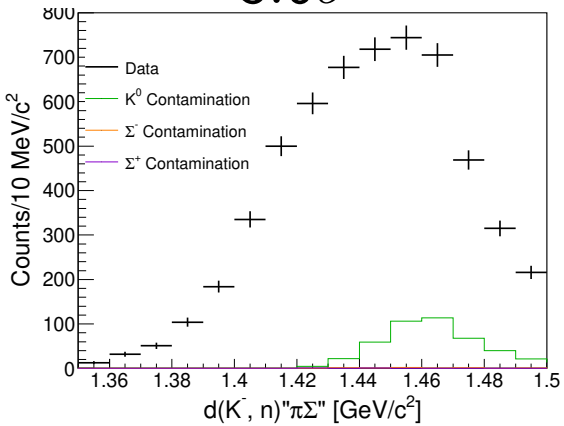
2σ



2.5σ



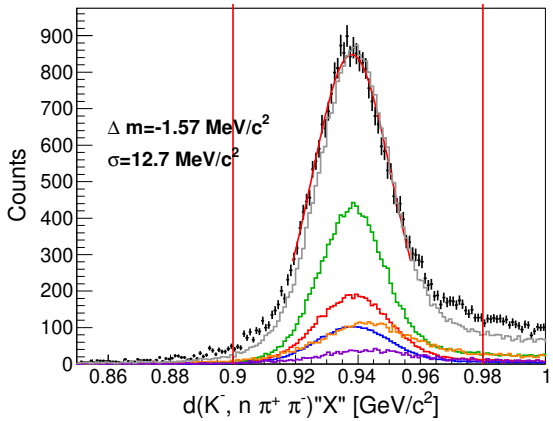
3.0σ



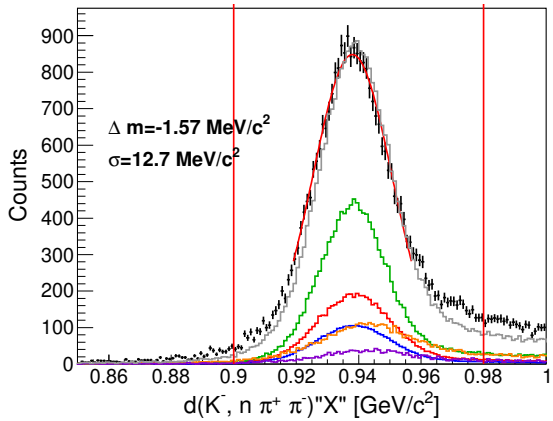
$NC\sigma = 150ps$

Data fitting

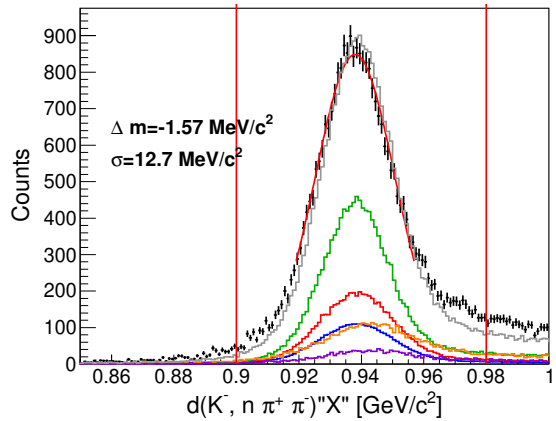
2σ



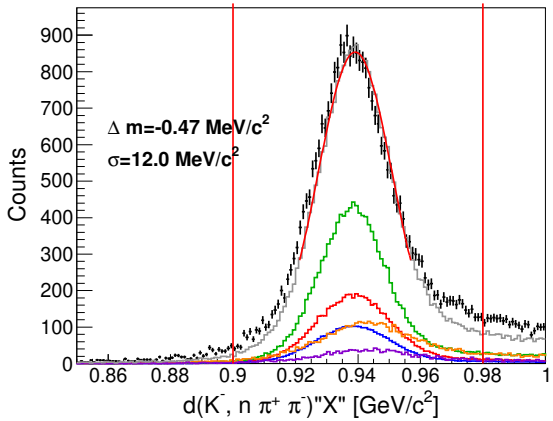
2.5σ

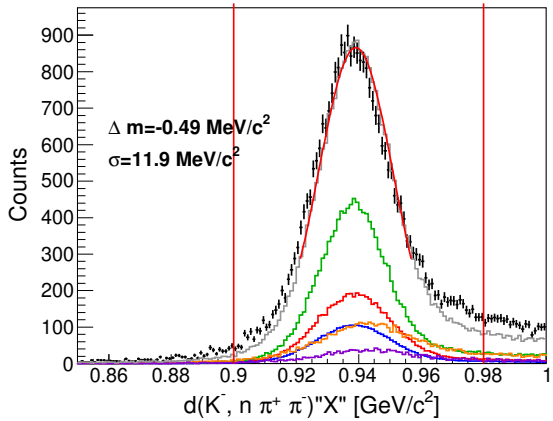


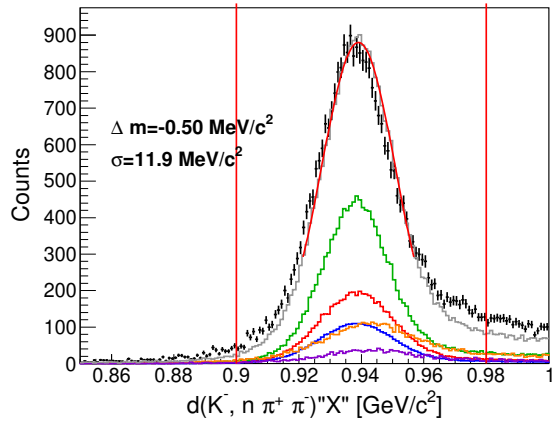
3σ



MC sum fitting



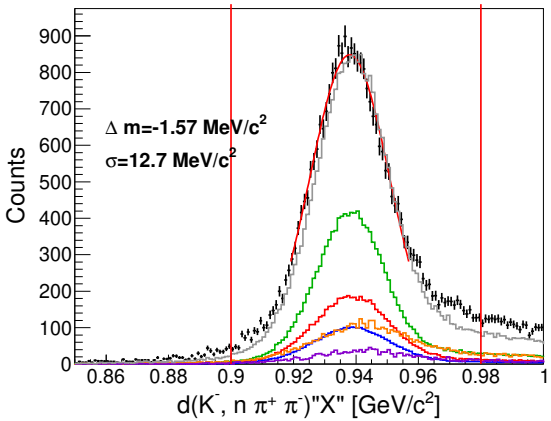




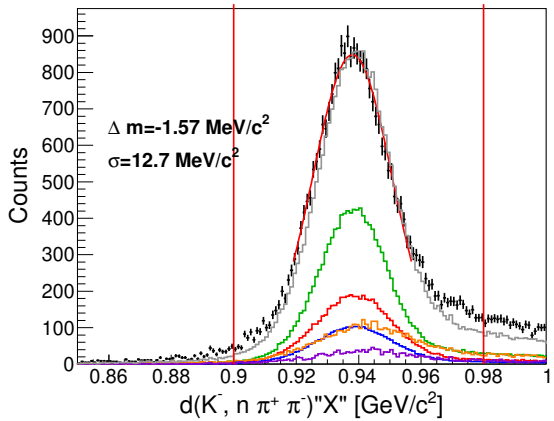
$NC\sigma = 160ps$

Data fitting

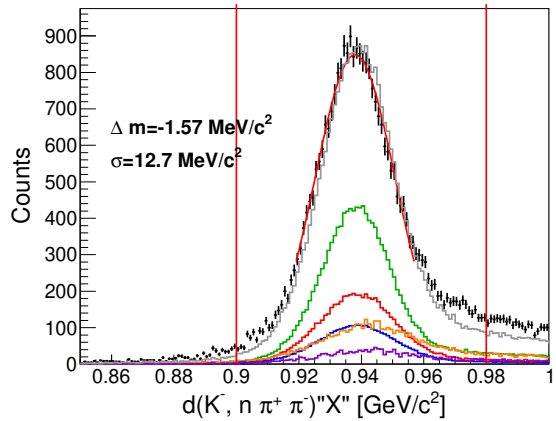
2σ



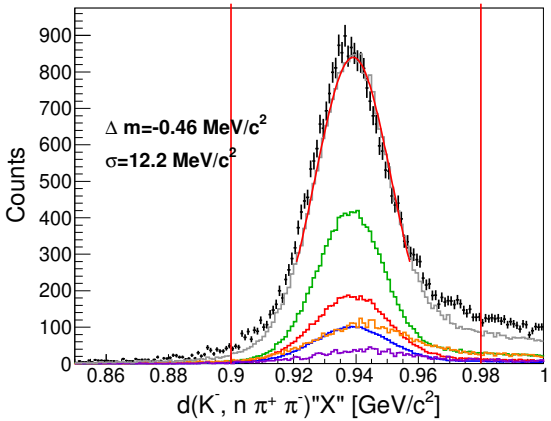
2.5σ

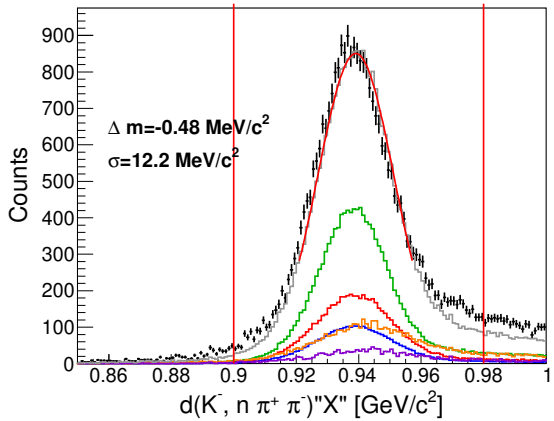


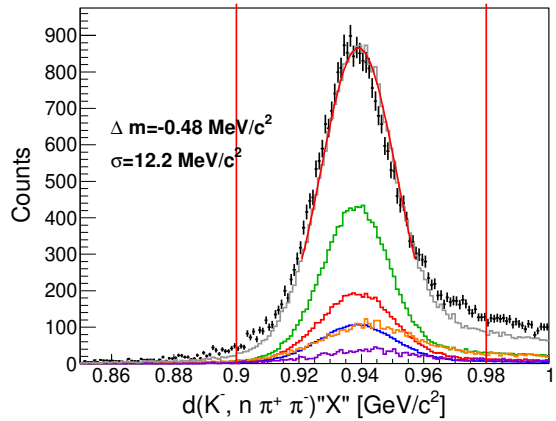
3σ



MC sum fitting



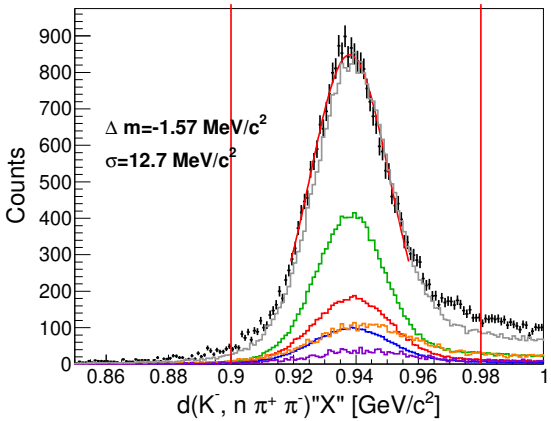




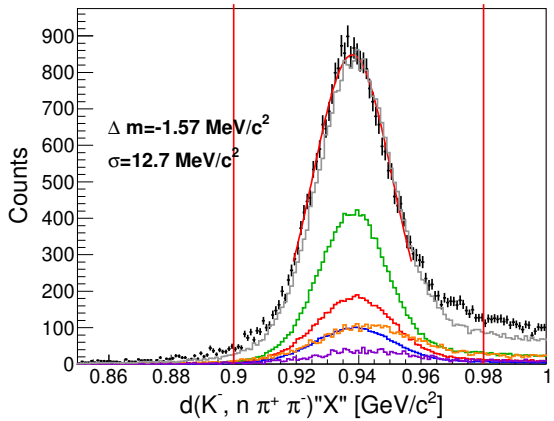
$NC\sigma = 170ps$

Data fitting

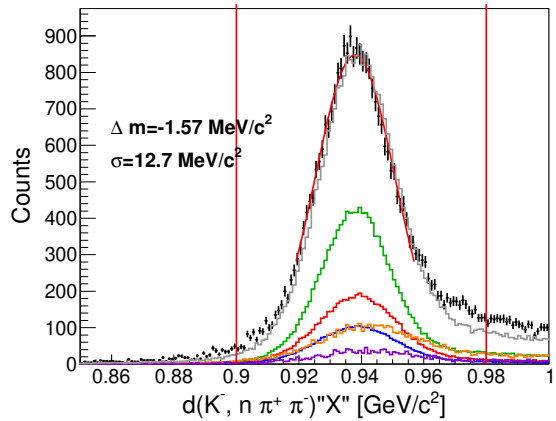
2σ



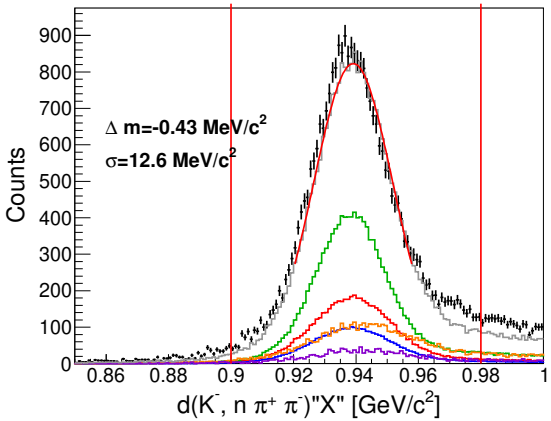
2.5σ

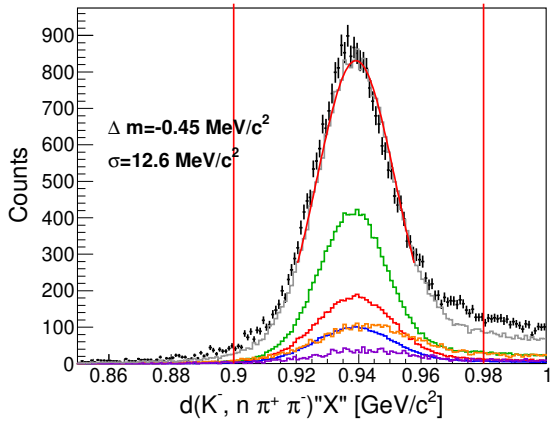


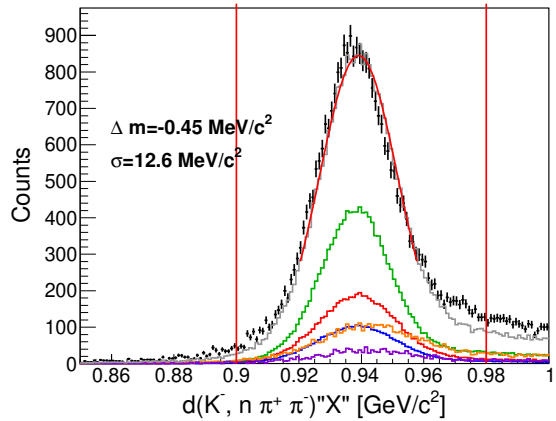
3σ



MC sum fitting



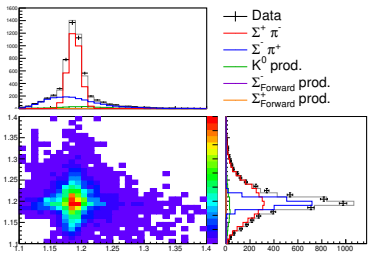




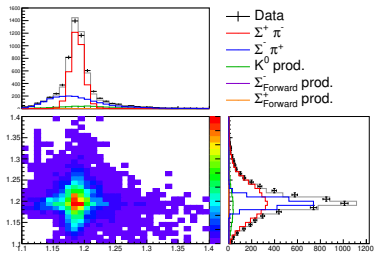
$d(K^-, n\pi)"X"$

$\sigma = 150ps$

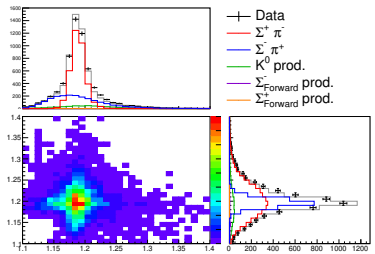
2σ



2.5σ

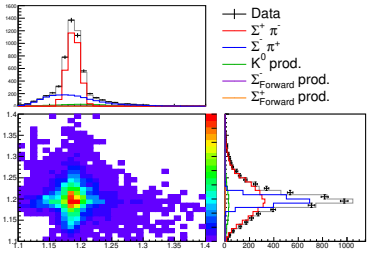


3σ

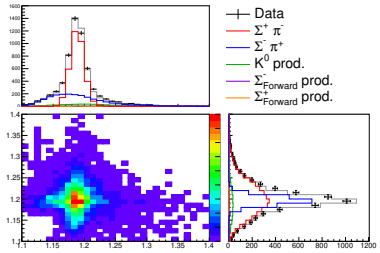


$\sigma = 160ps$

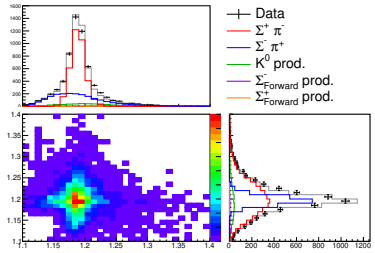
2σ



2.5σ

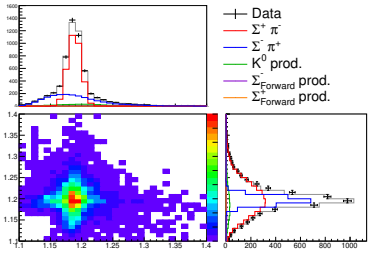


3σ

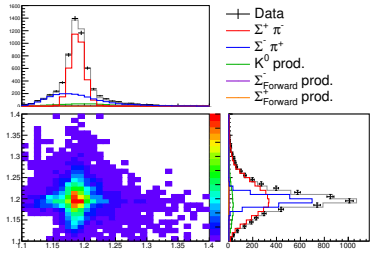


$\sigma = 170ps$

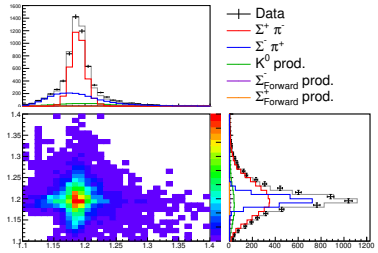
2σ



2.5σ



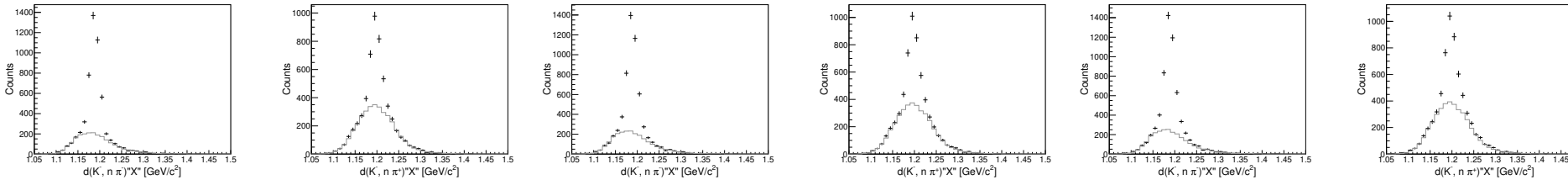
3σ



$d(K^-, n\pi)"X"$ (Back ground)

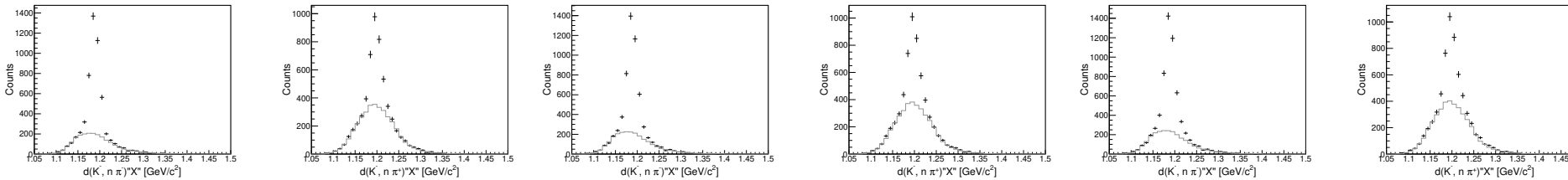
$\sigma = 150ps$

2σ 2.5σ 3σ



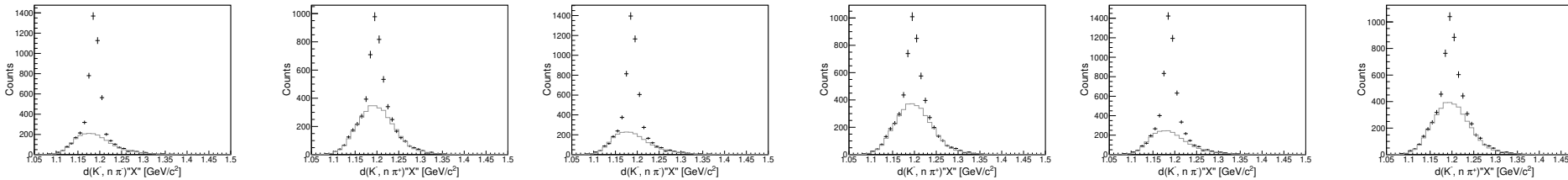
$\sigma = 160ps$

2σ 2.5σ 3σ



$\sigma = 170ps$

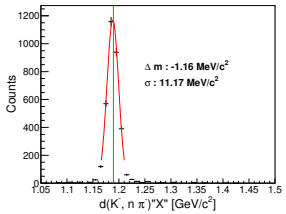
2σ 2.5σ 3σ

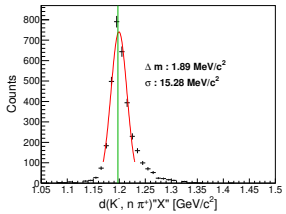


$d(K^-, n\pi)"X"$ (Fitting subtracted BG)

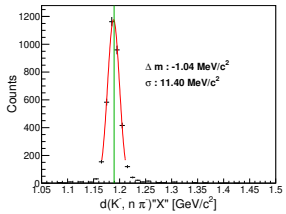
$\sigma = 150ps$

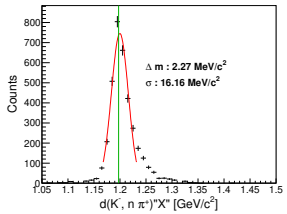
2σ



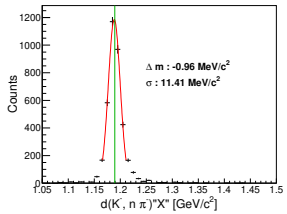


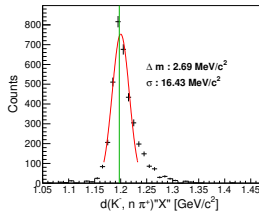
2.5σ





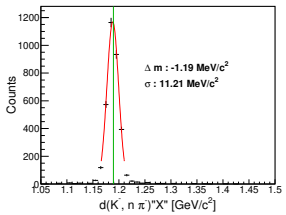
3σ

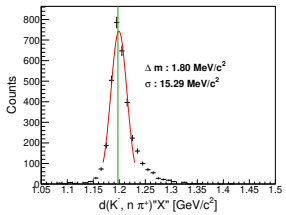




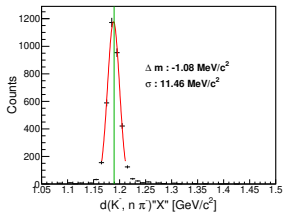
$\sigma = 160ps$

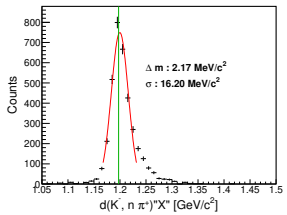
2σ



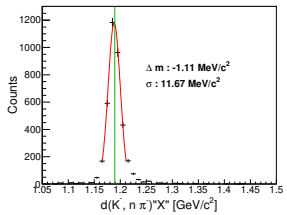


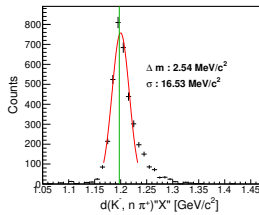
2.5σ





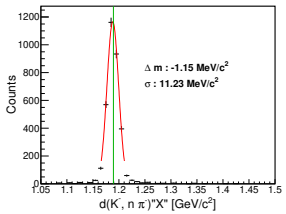
3σ

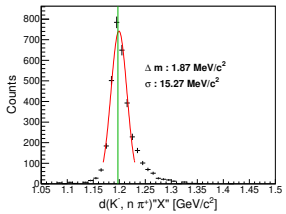




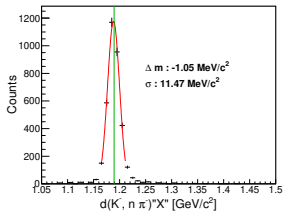
$\sigma = 170ps$

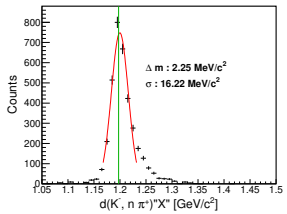
2σ



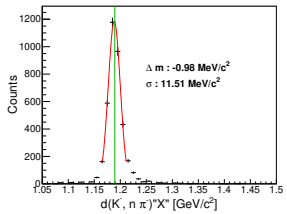


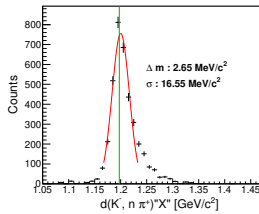
2.5σ





3σ

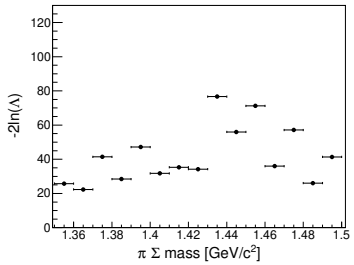




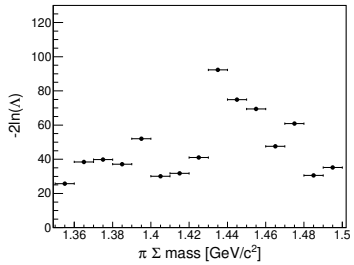
$d(K^-, n\pi)"X"$ (Likelihood)

$\sigma = 150ps$

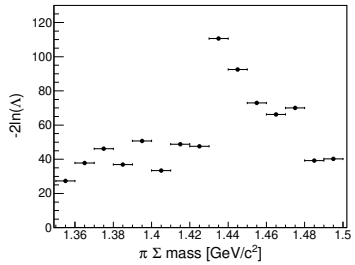
2σ



2.5σ

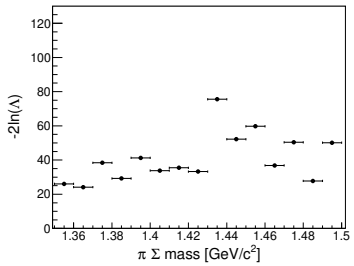


3σ

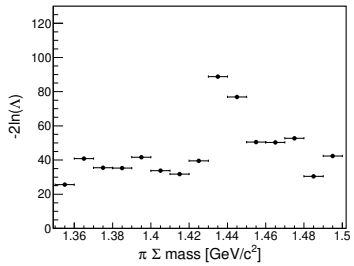


$\sigma = 160ps$

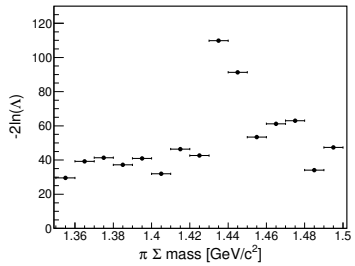
2σ



2.5σ

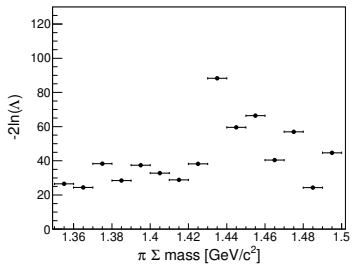


3σ

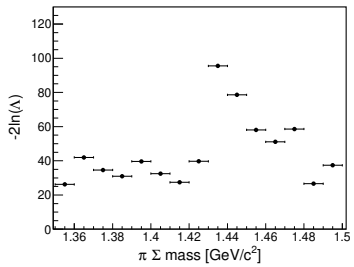


$\sigma = 170ps$

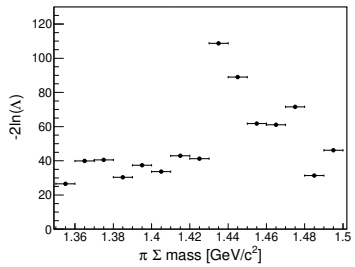
2σ



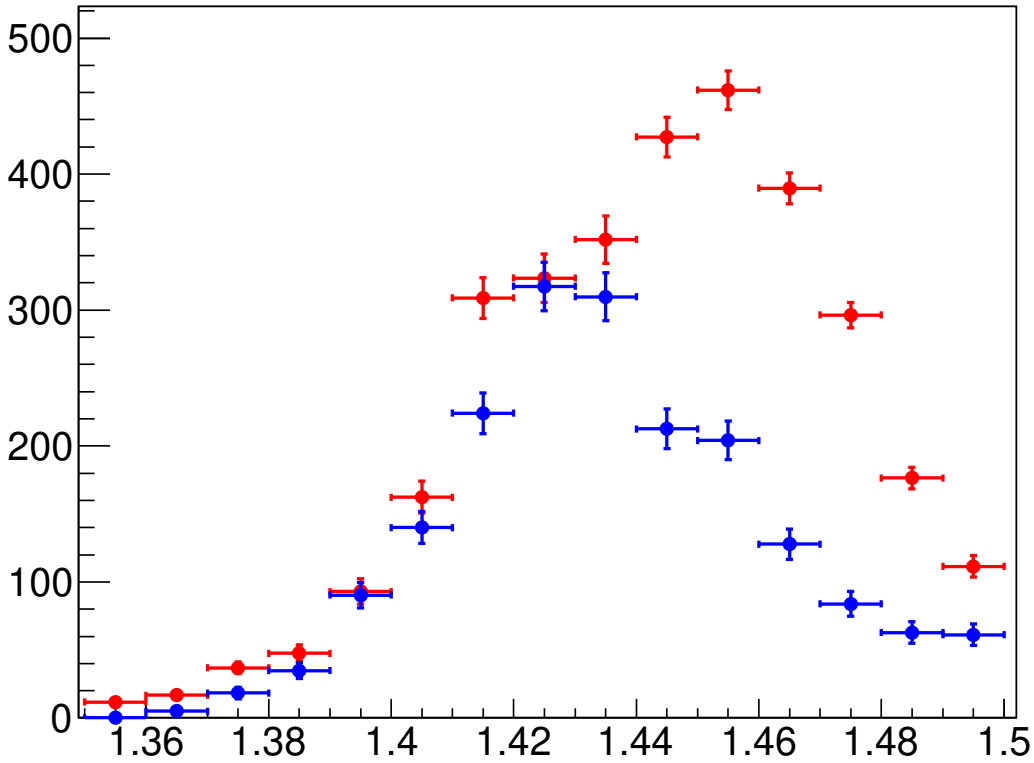
2.5σ



3σ

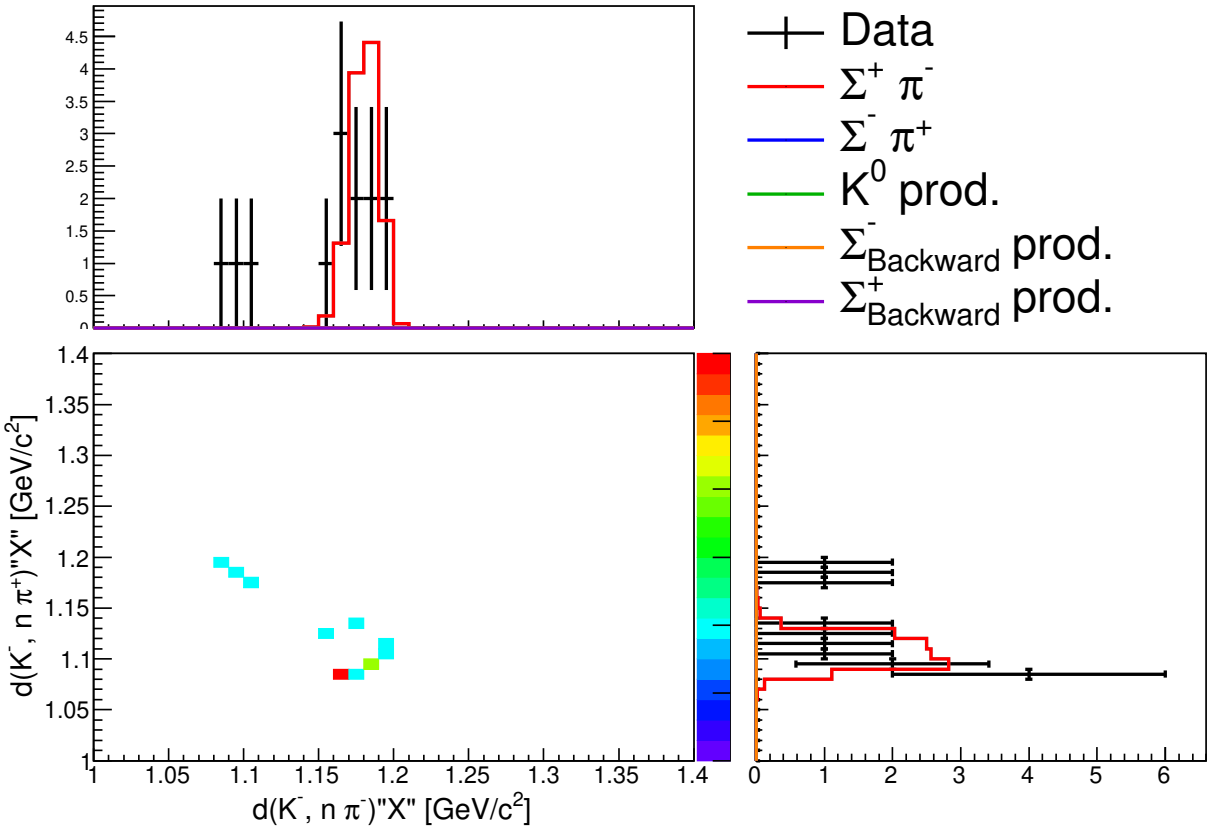


$\pi\Sigma$ Number (3*sigma* cut NC=150*ps*)

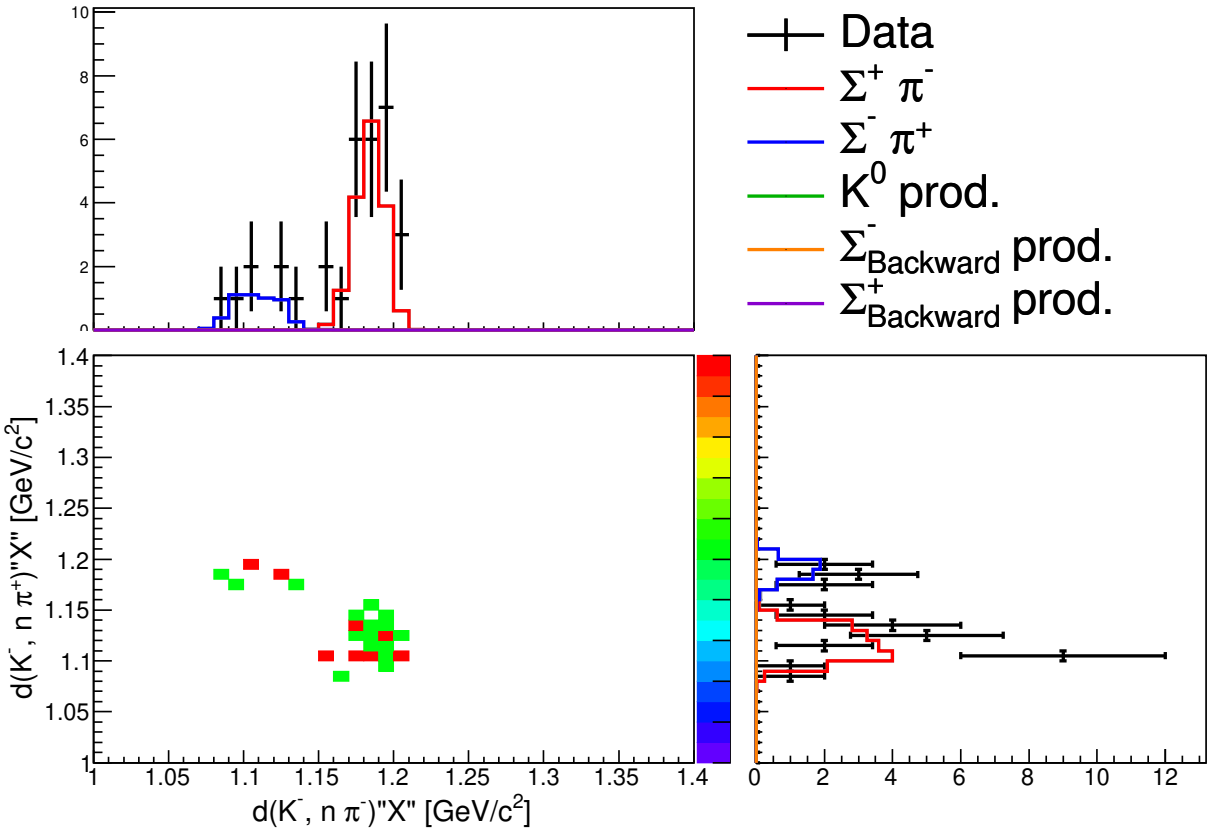


Error bar only statistics.

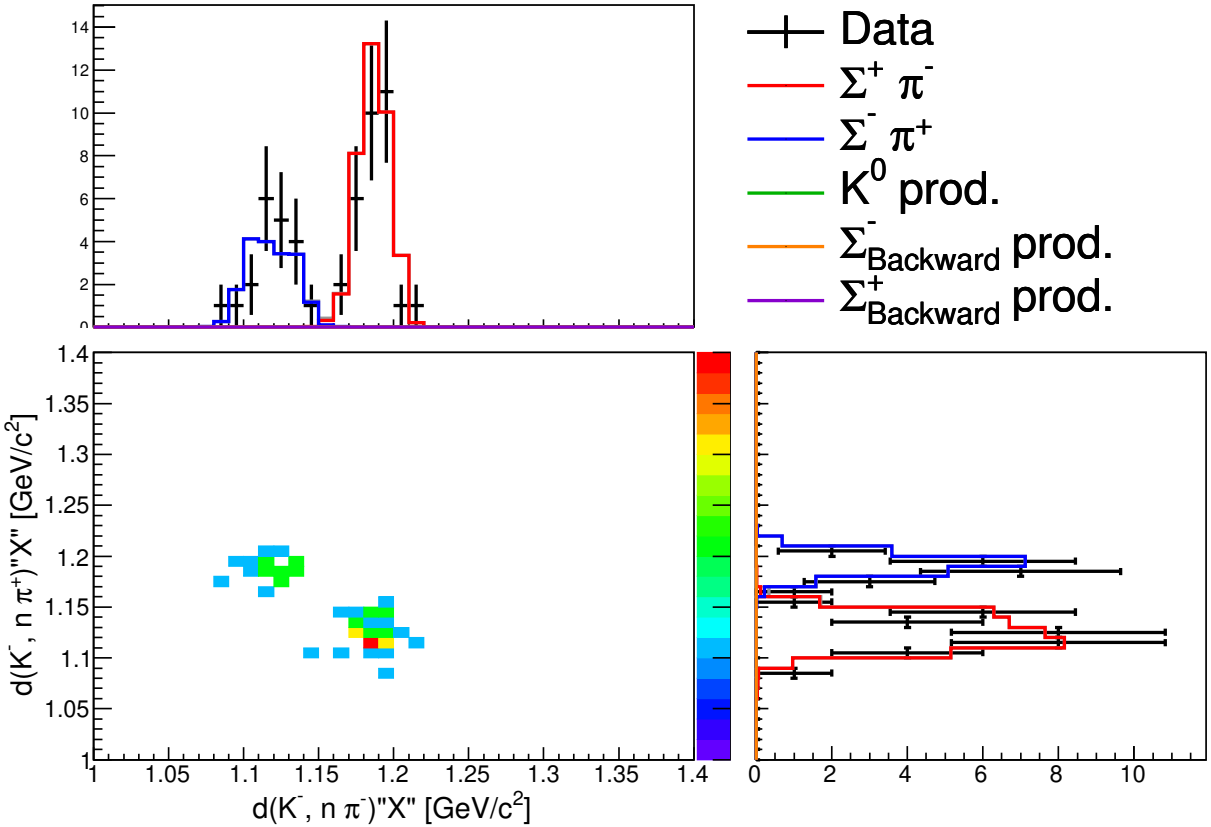
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1350 $\sim$ 1360$[GeV/c^2]$



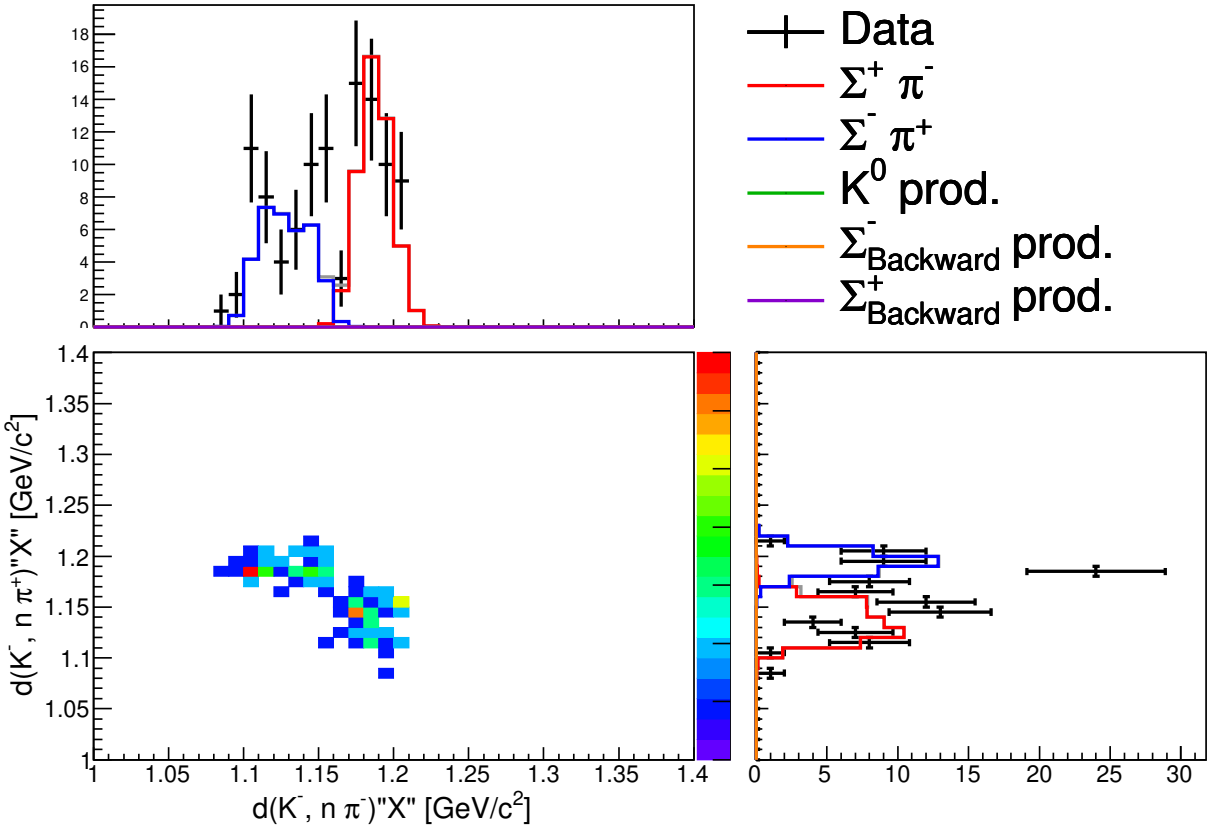
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1360 $\sim$ 1370$[GeV/c^2]$



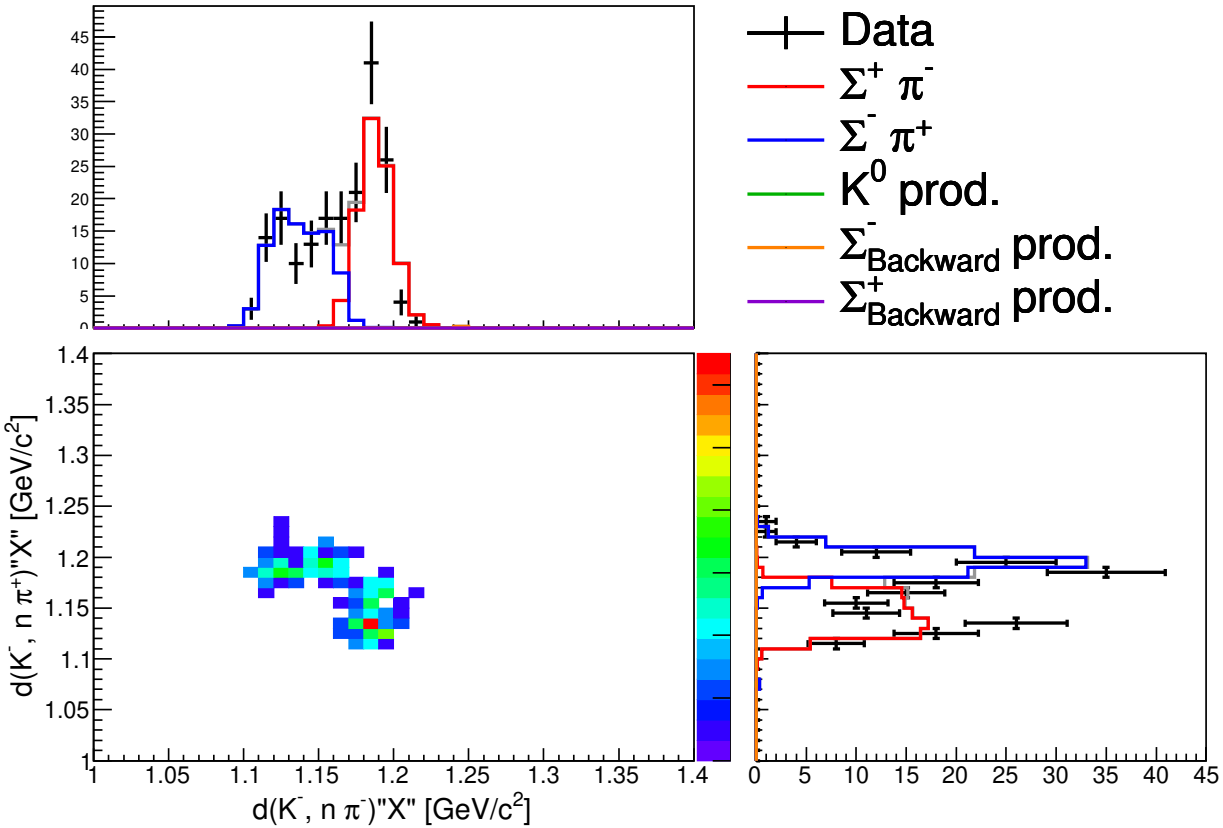
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"1370 \sim 1380[GeV/c^2]$



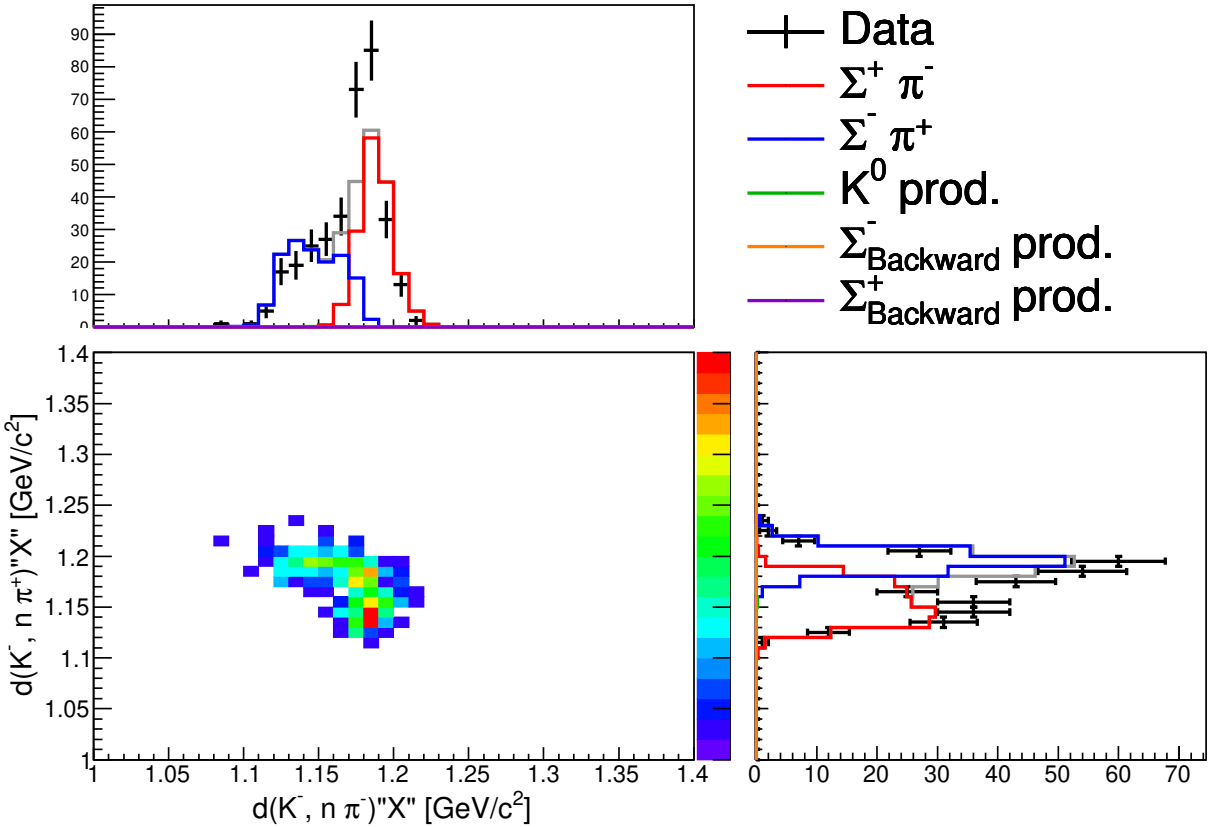
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ $1380 \sim 1390[GeV/c^2]$



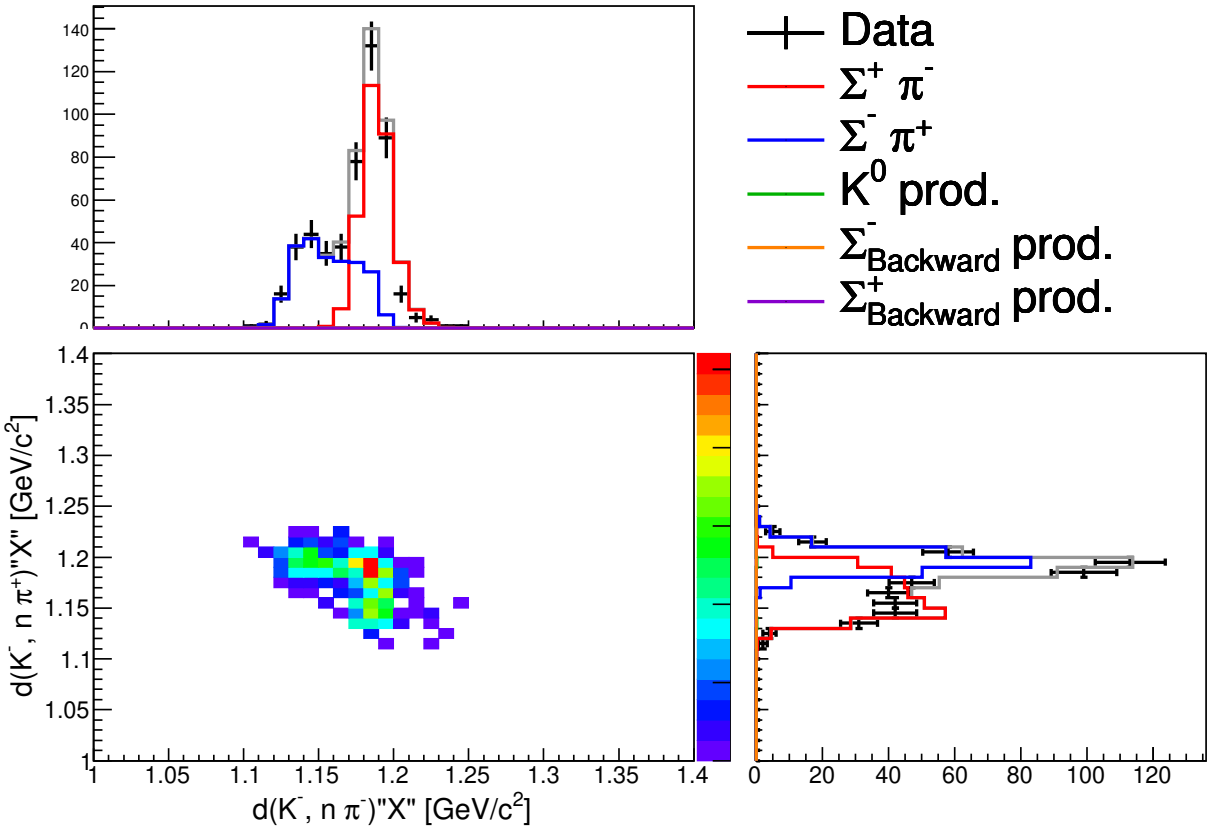
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1390 $\sim$ 1400$[GeV/c^2]$



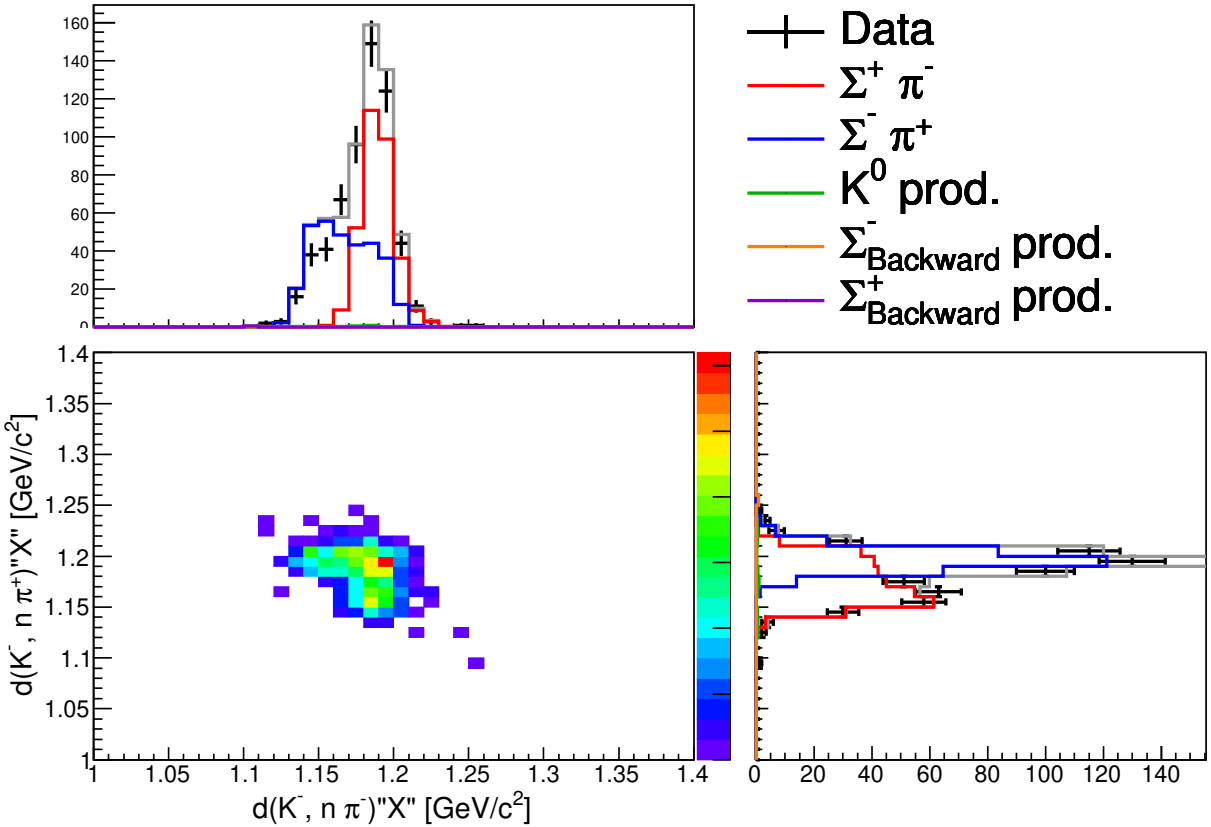
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1400 $\sim$ 1410$[GeV/c^2]$



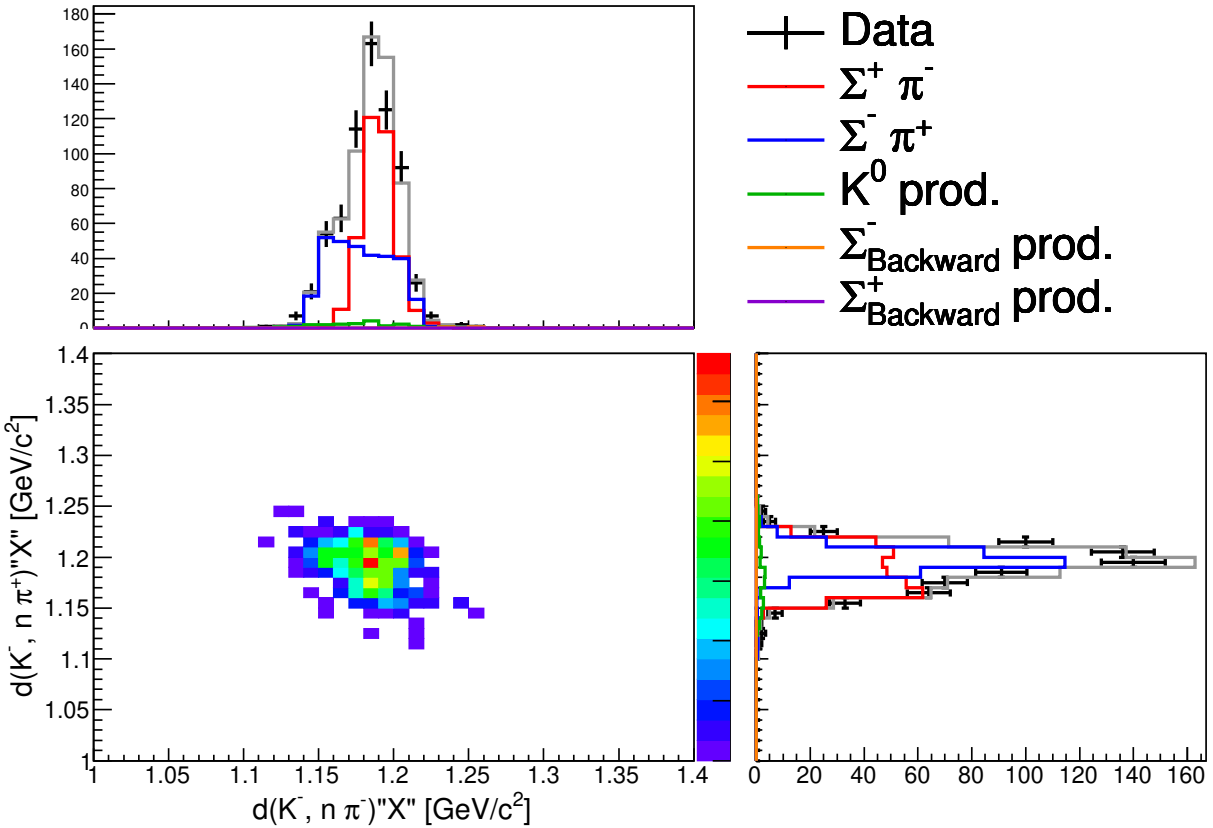
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1410 $\sim$ 1420$[GeV/c^2]$



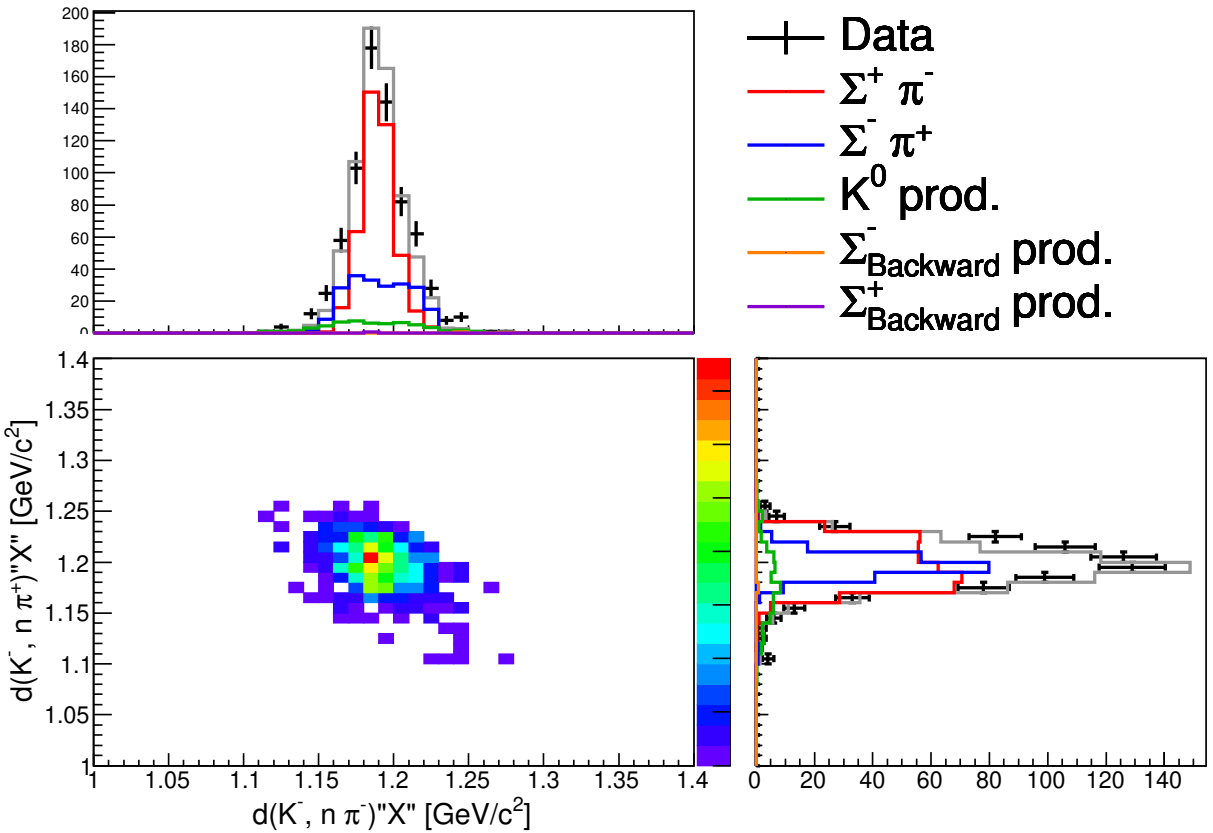
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1420 $\sim$ 1430$[GeV/c^2]$



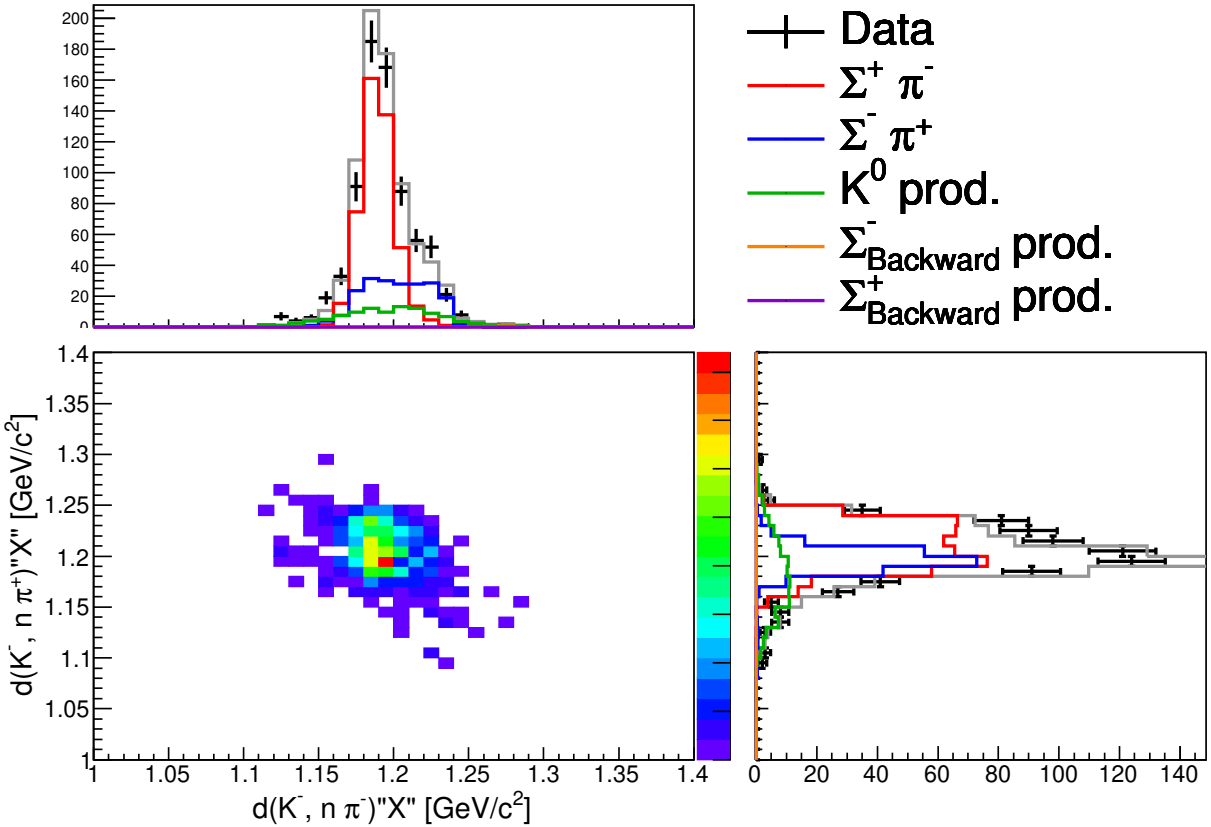
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"1430 \sim 1440[GeV/c^2]$



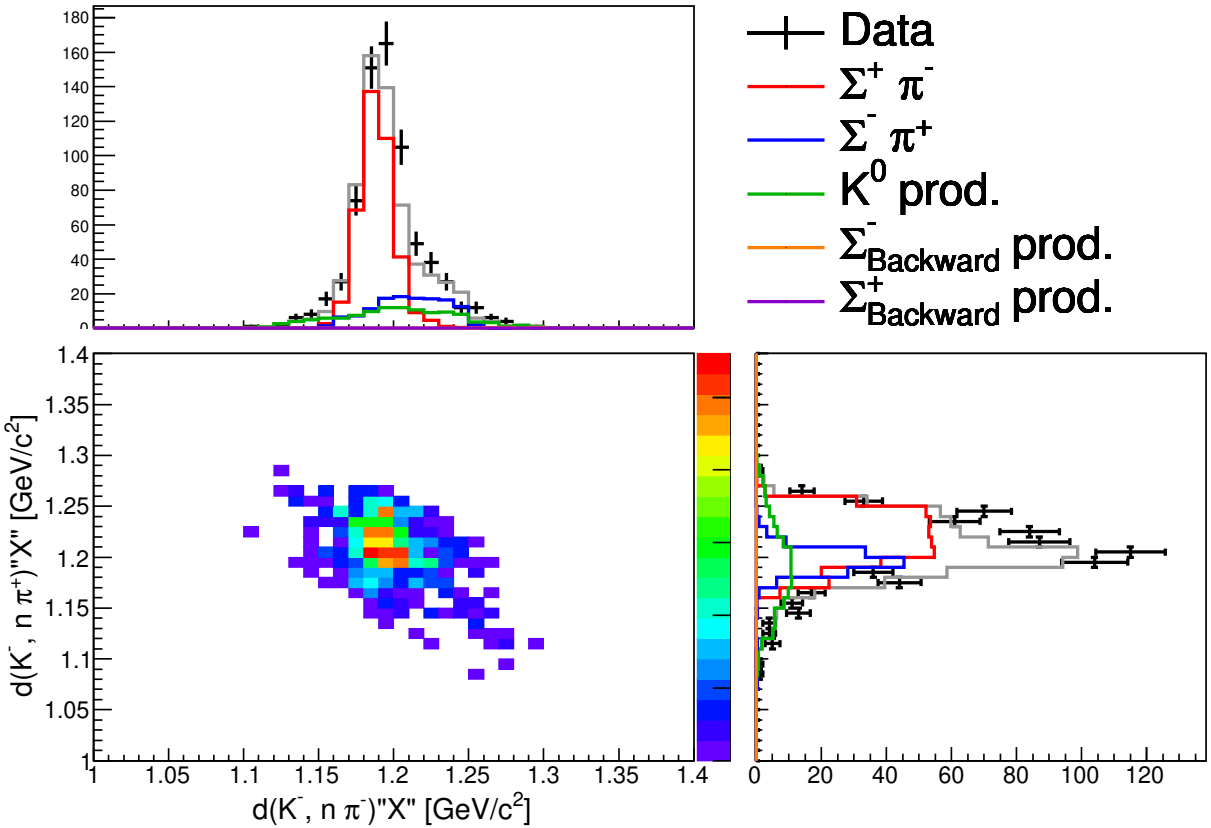
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1440 $\sim$ 1450$[GeV/c^2]$



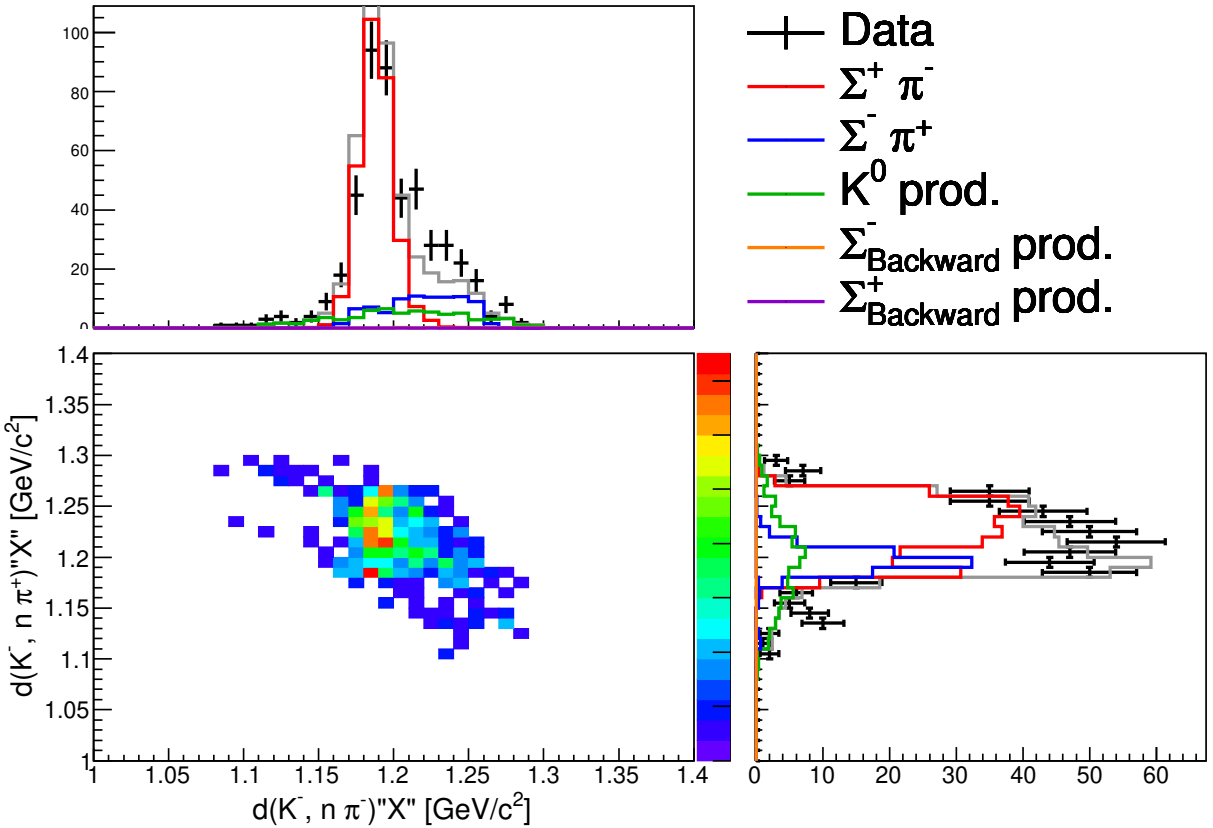
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1450 $\sim$ 1460$[GeV/c^2]$



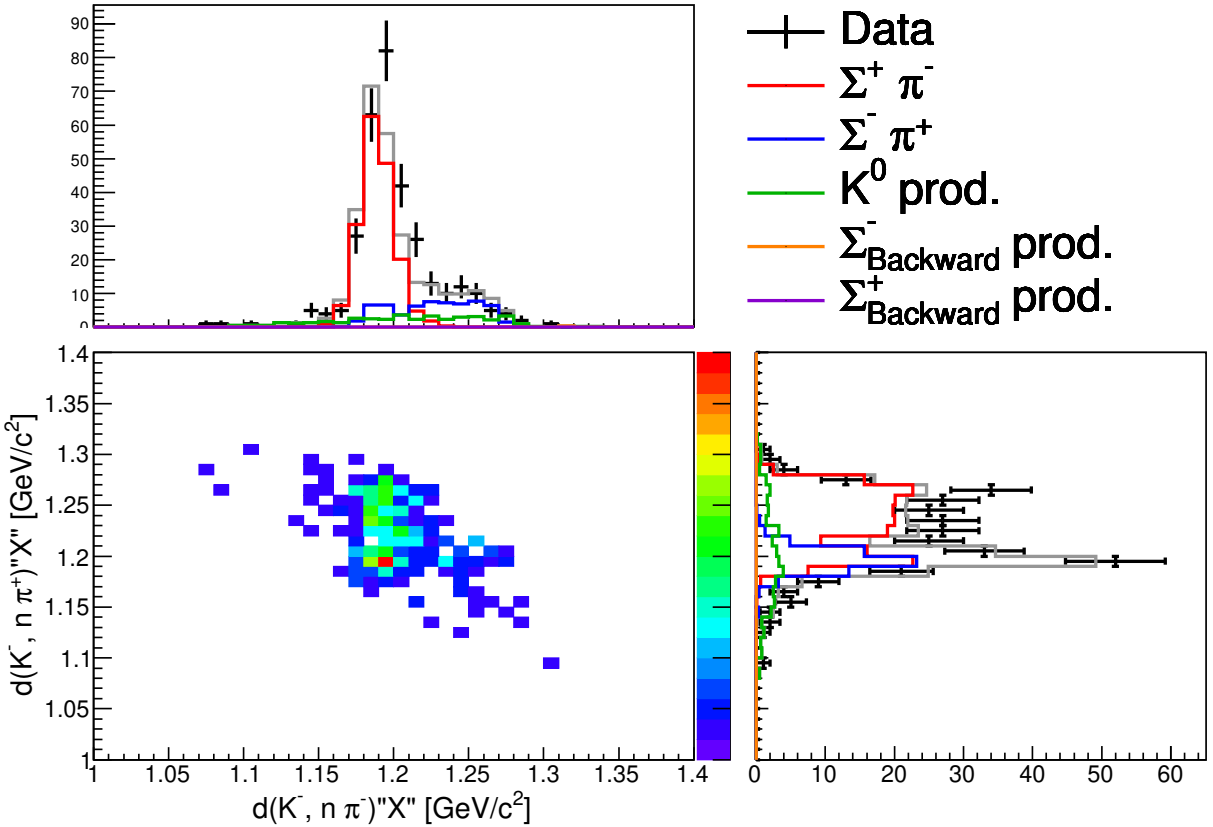
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1460 $\sim$ 1470$[GeV/c^2]$



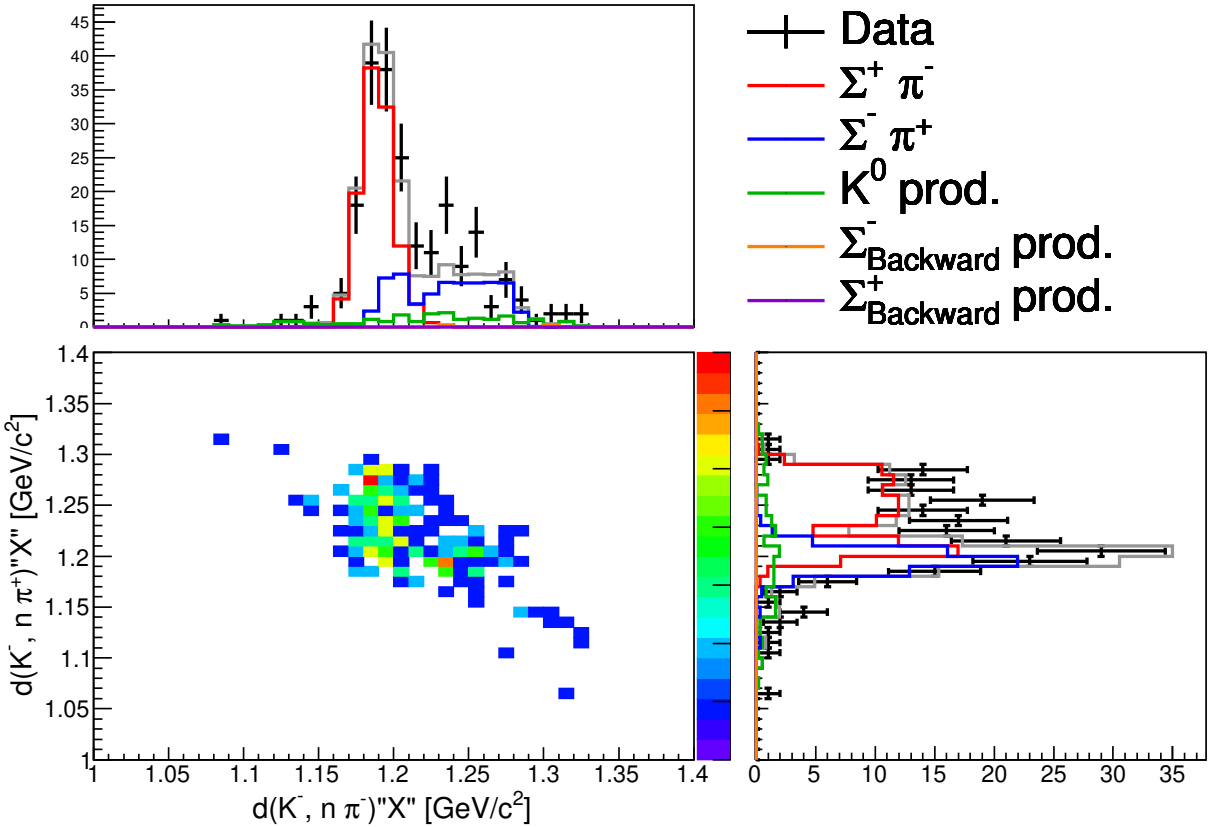
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1470 $\sim$ 1480$[GeV/c^2]$



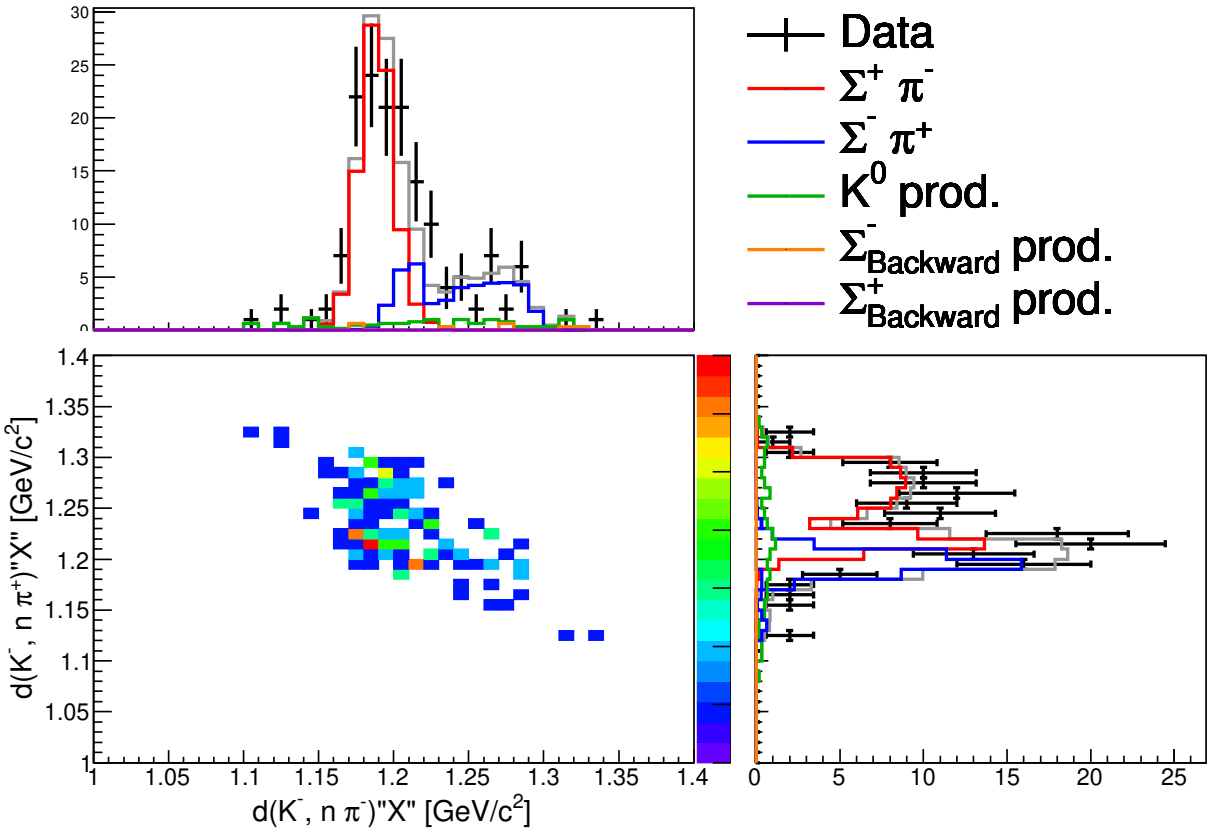
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1480 $\sim$ 1490$[GeV/c^2]$



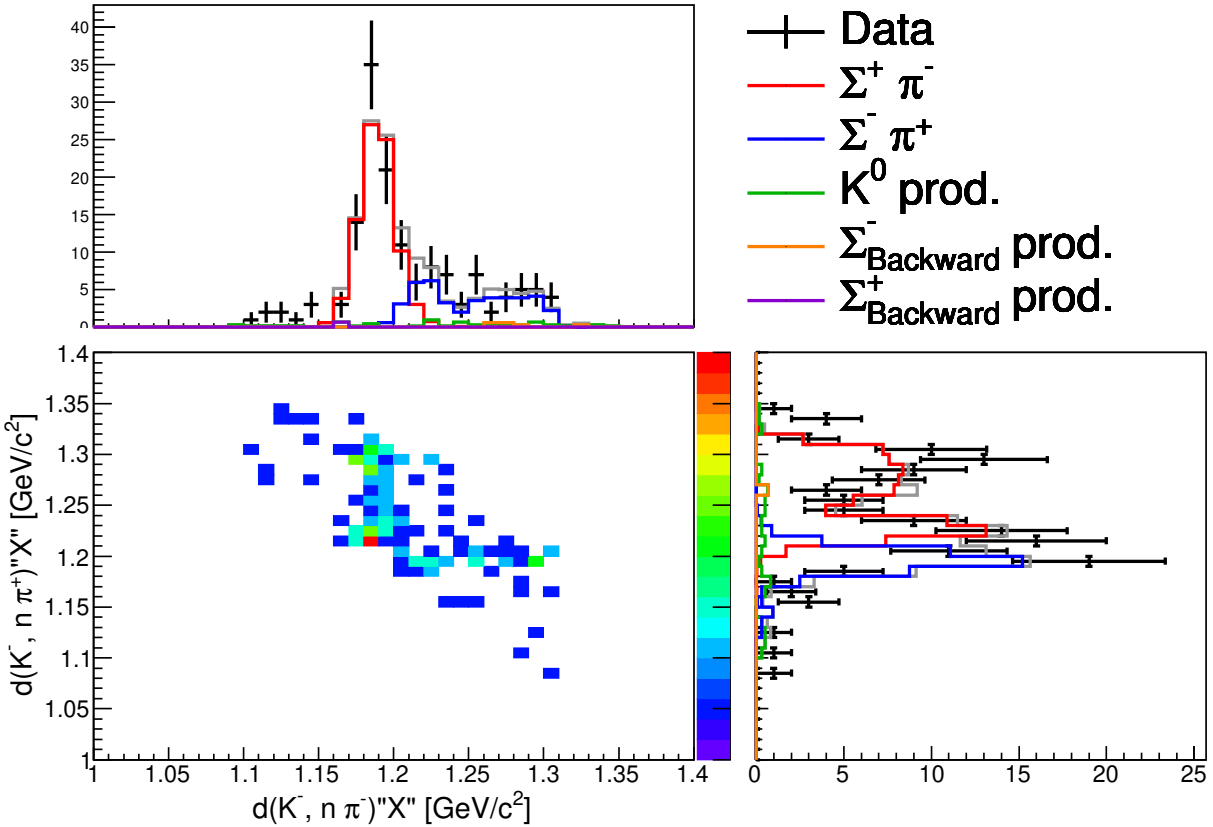
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1490 $\sim$ 1500$[GeV/c^2]$



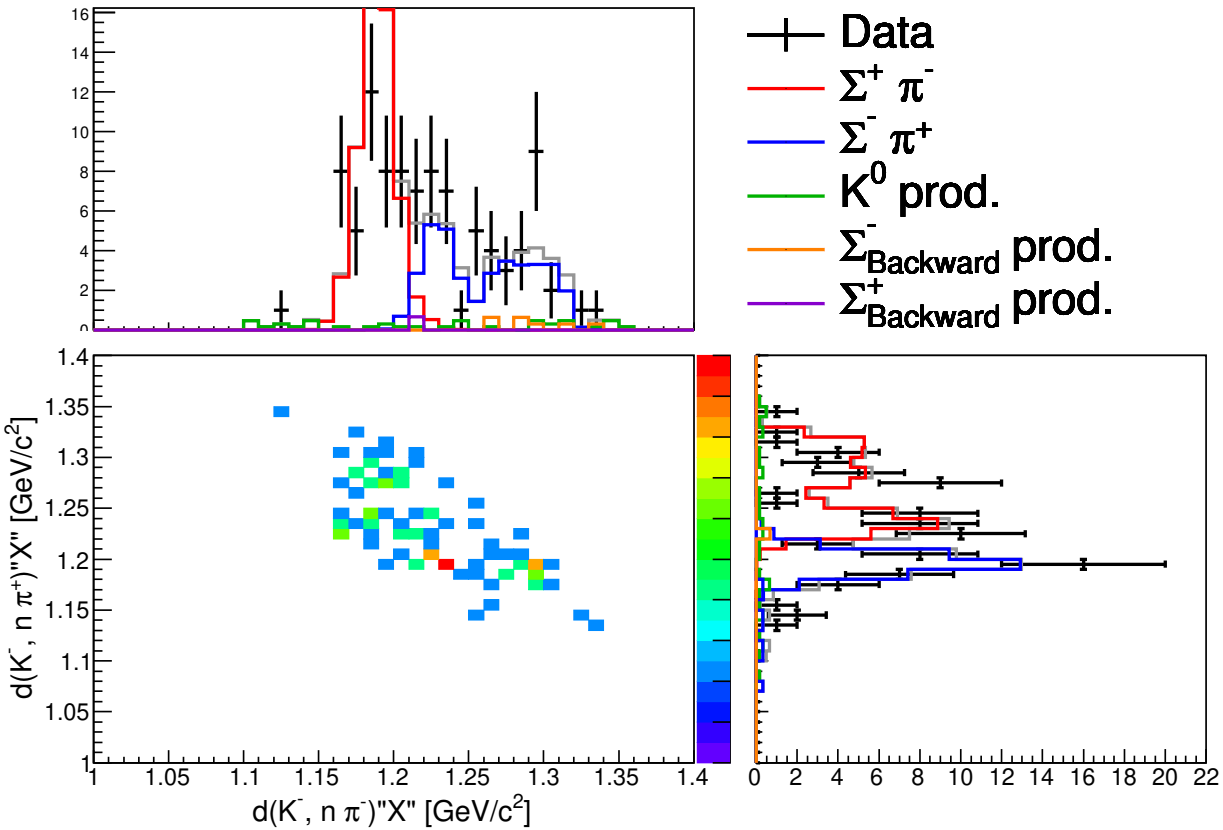
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"1500 \sim 1510[GeV/c^2]$



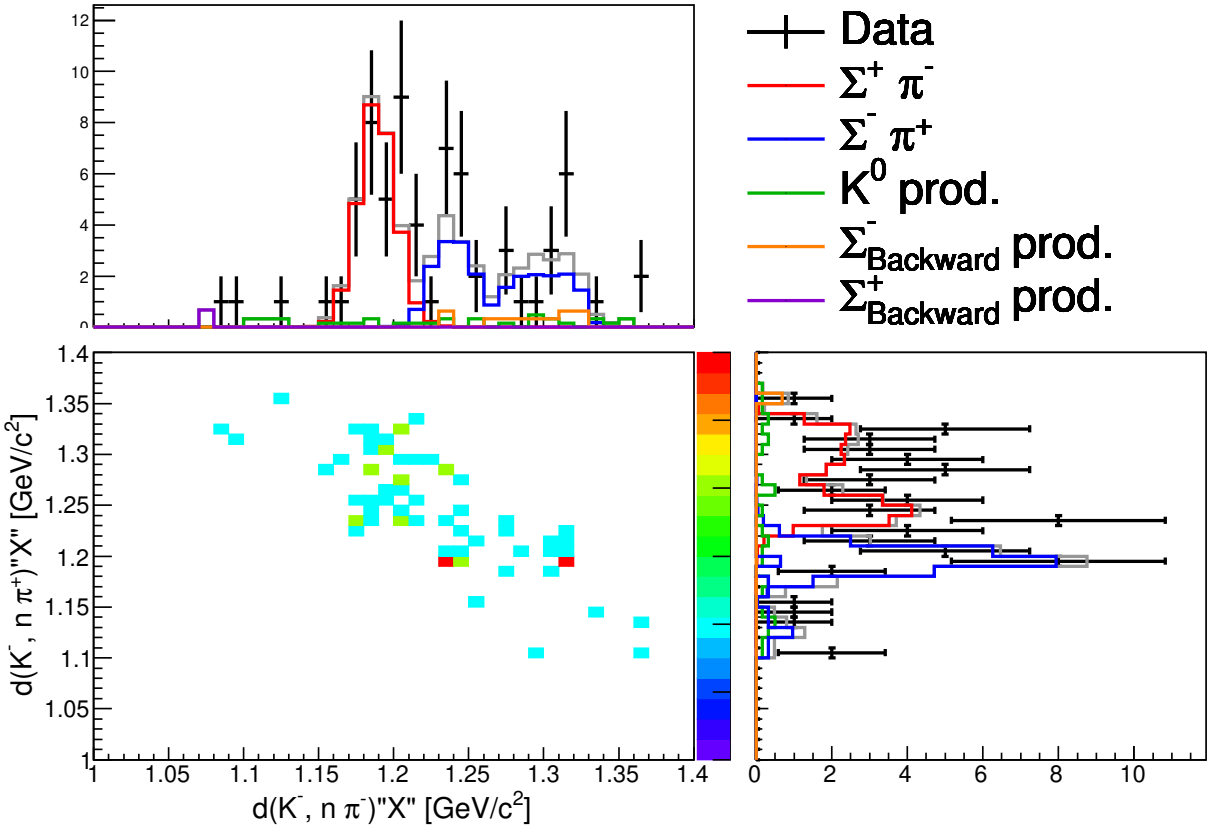
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1510 $\sim$ 1520$[GeV/c^2]$



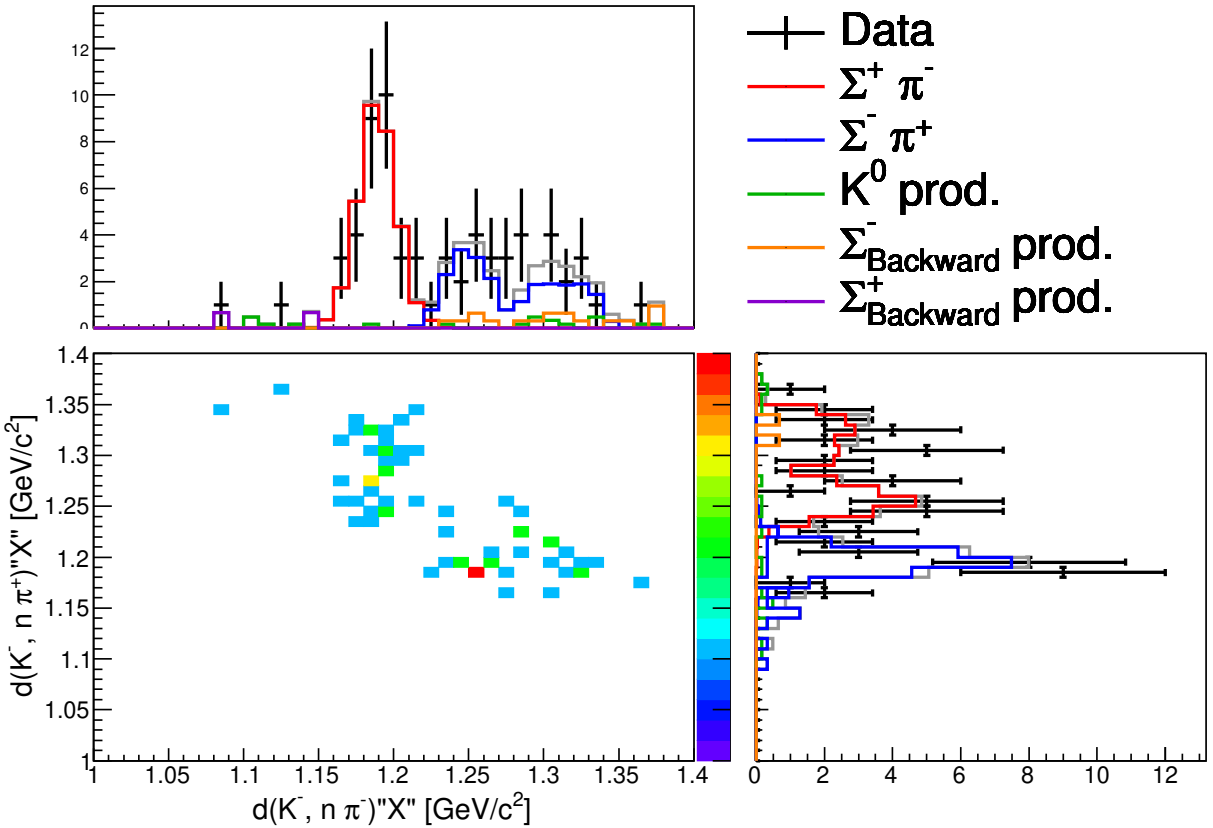
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1520 $\sim$ 1530$[GeV/c^2]$



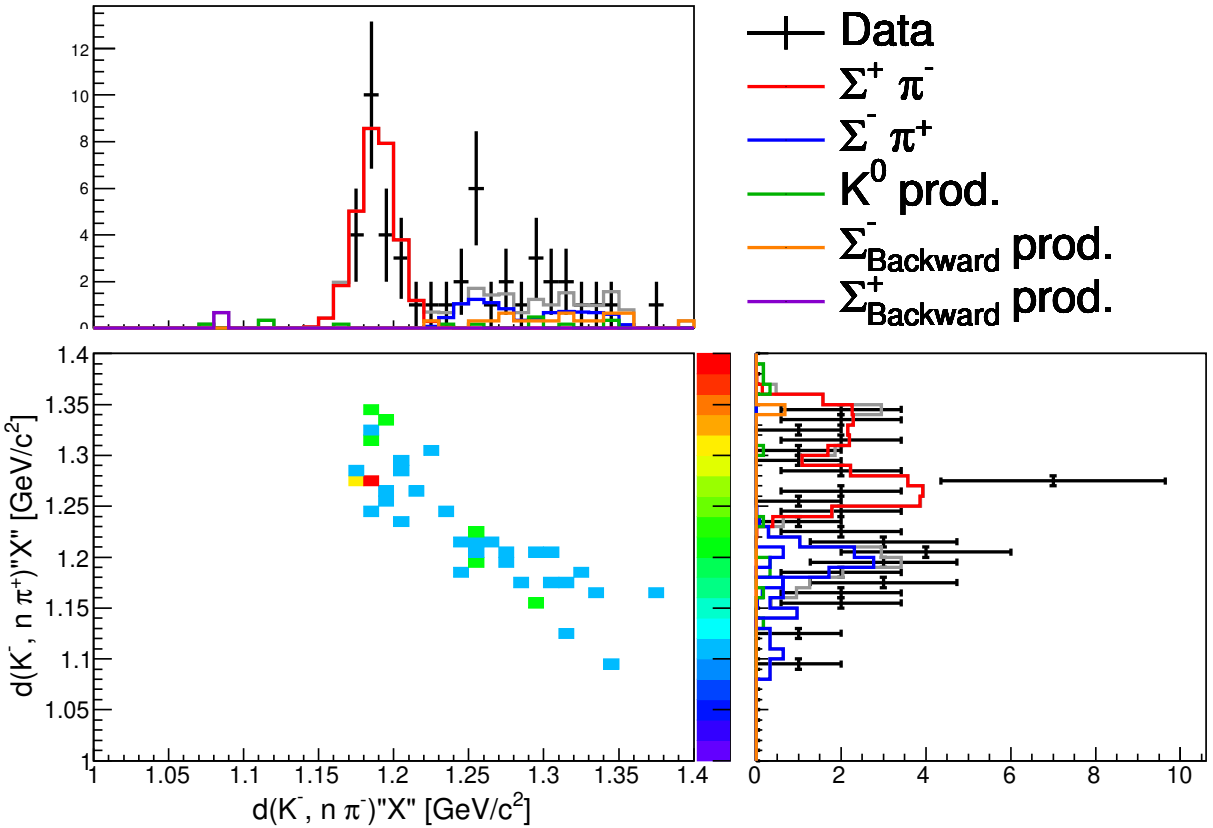
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"1530 \sim 1540[GeV/c^2]$



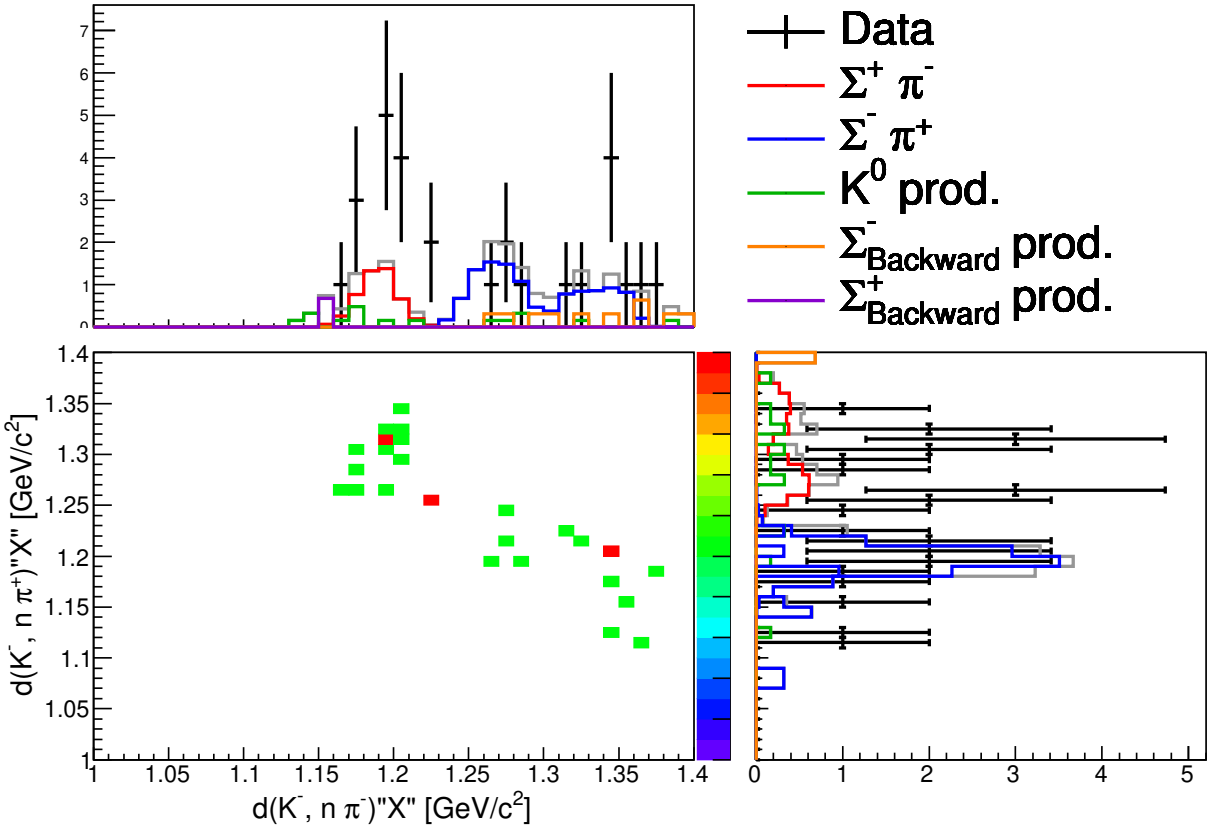
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1540 $\sim$ 1550$[GeV/c^2]$



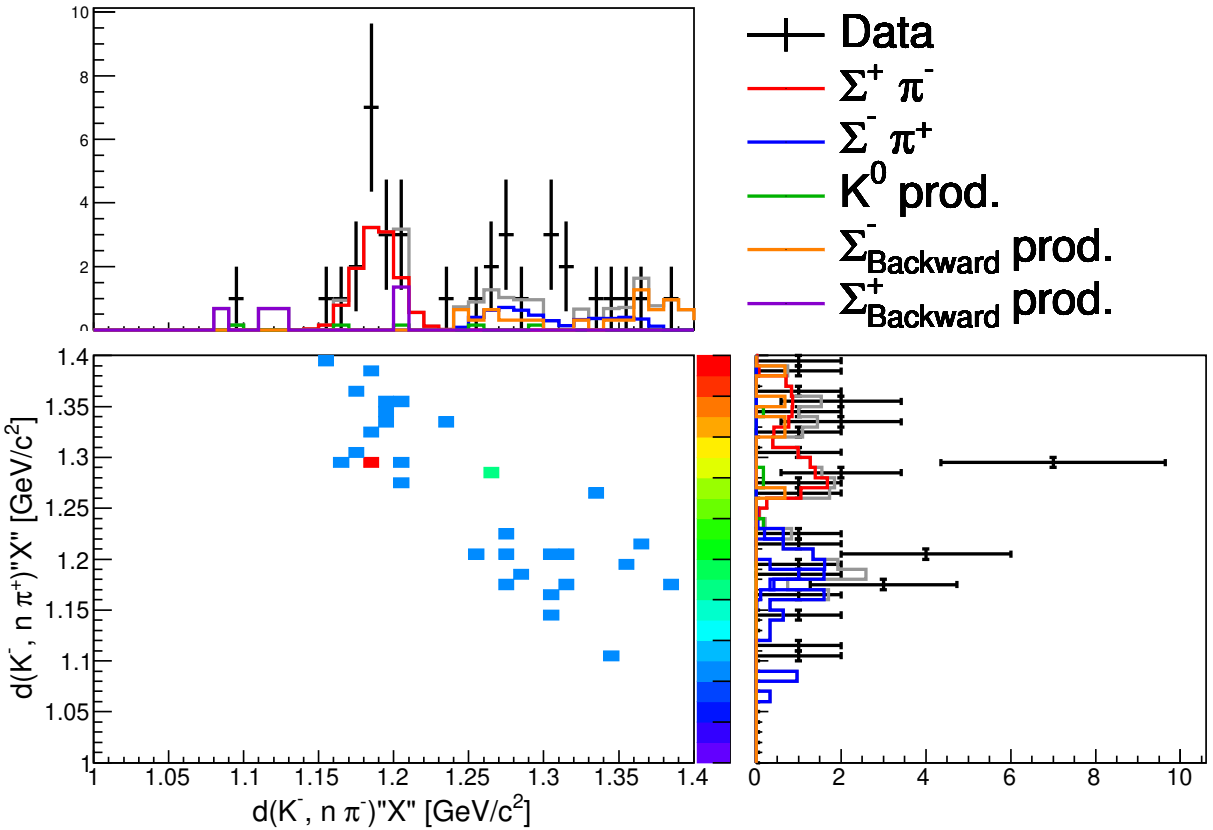
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1550 $\sim$ 1560$[GeV/c^2]$



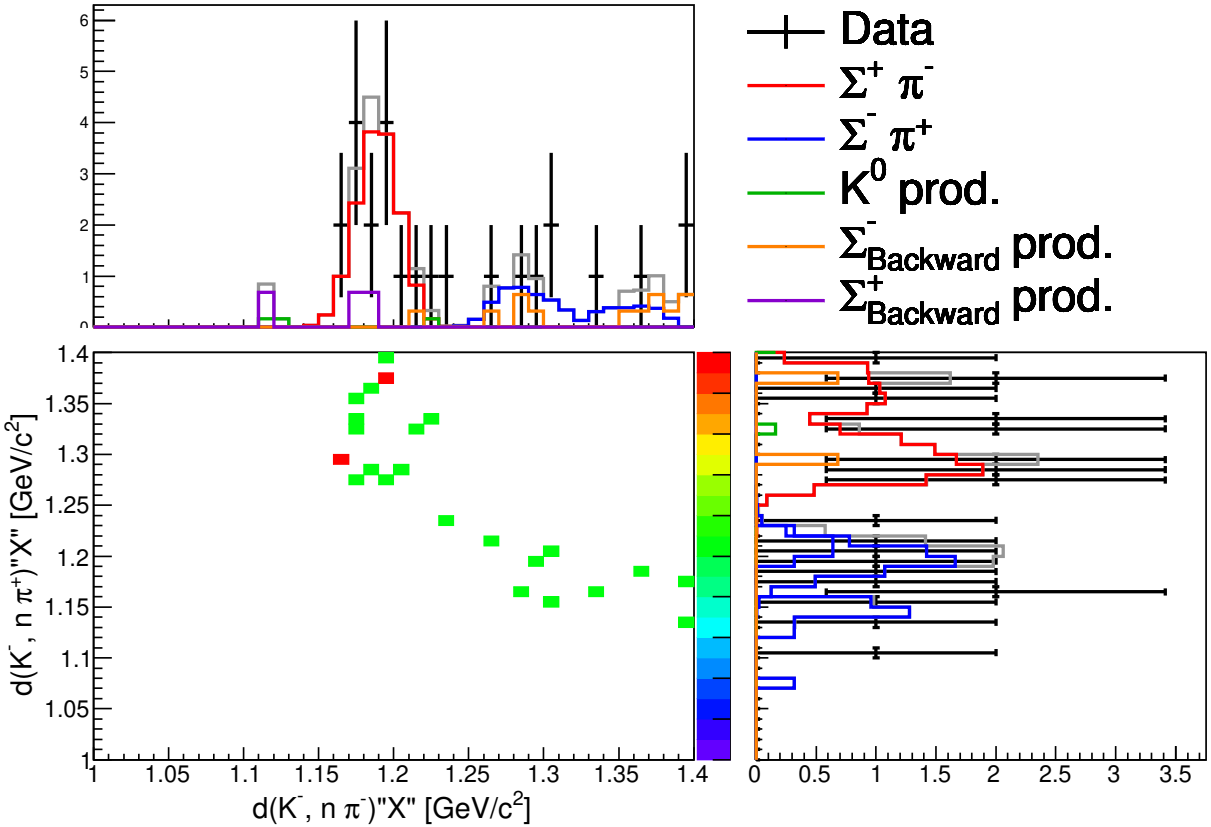
$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1560 $\sim$ 1570$[GeV/c^2]$



$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1570 $\sim$ 1580$[GeV/c^2]$



$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1580 $\sim$ 1590$[GeV/c^2]$



$d(K^-, n\pi^+)"X"$ vs $d(K^-, n\pi^-)"X"$ fitting
$d(K^-, n)"X"$ 1590 $\sim$ 1600$[GeV/c^2]$