

Status of the real LH pion and kaon selectors in FastSim

Burmistrov Leonid

—▶ SVT, DCH, DIRC

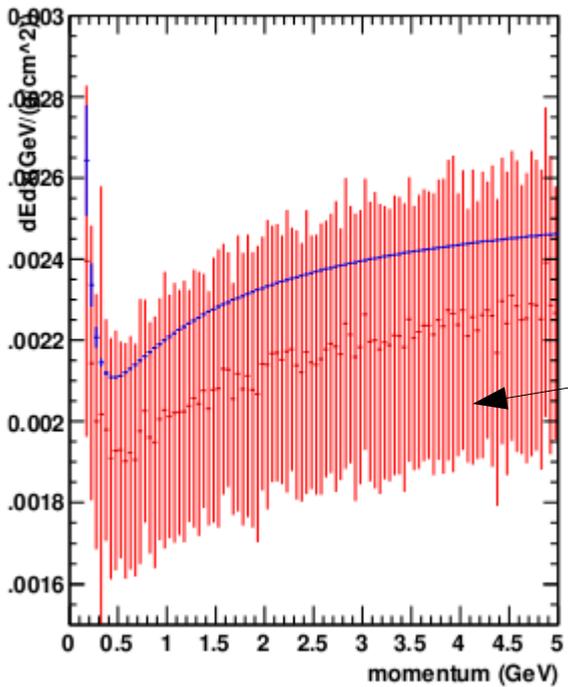
—▶ Tuning of the selectors

—▶ Pion

—▶ Kaon

SVT

Profile meas dedx svt 144<=Theta<162 for pion

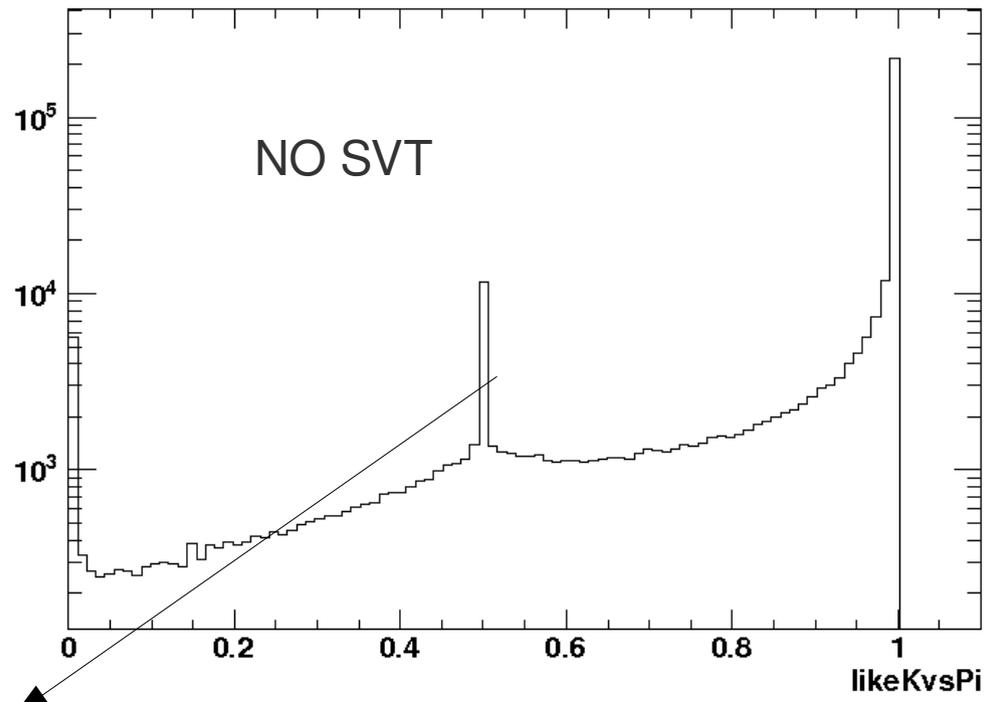
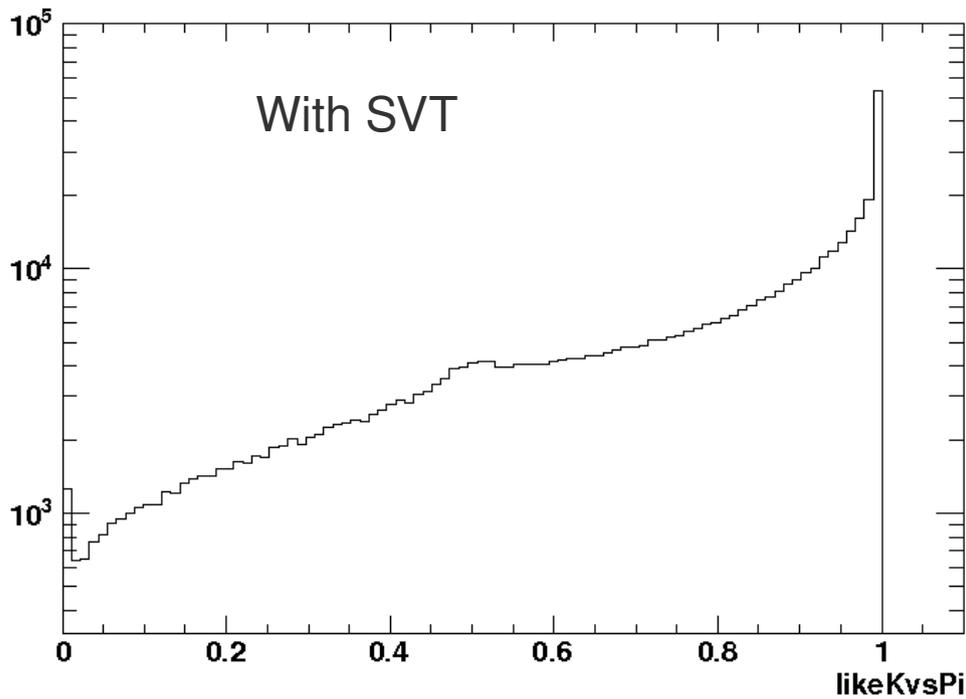


Due to the not negligible theta dependence of the measured dEdx it was removed from PID

likeKvsPi

likeKvsPi

likeKvsPi

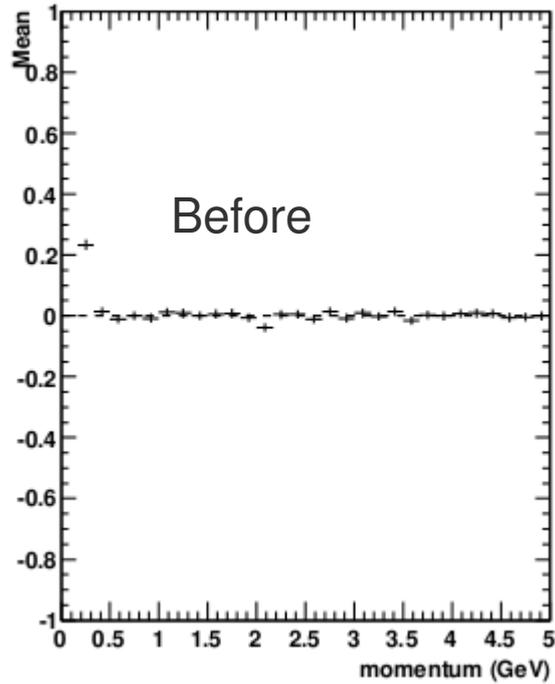


Low momentum trucks

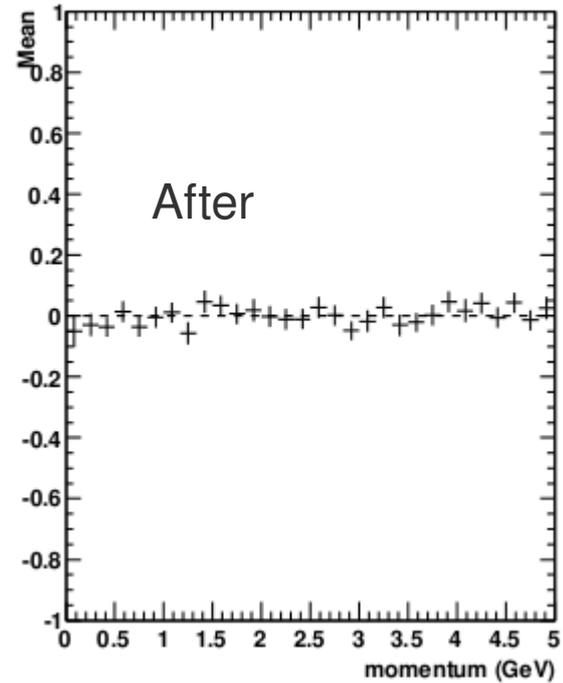
DCH

Discrepancies in Low momentum was removed partially by Matteo

Mean dch $72 \leq \Theta < 90$ for pion



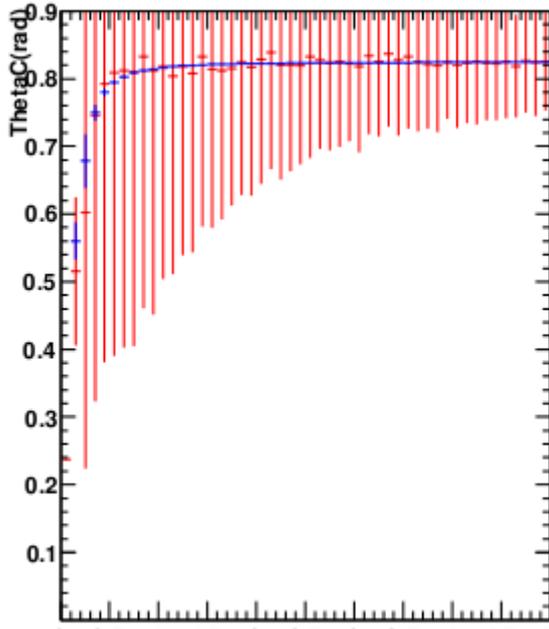
Mean dch $54 \leq \Theta < 72$ for pion



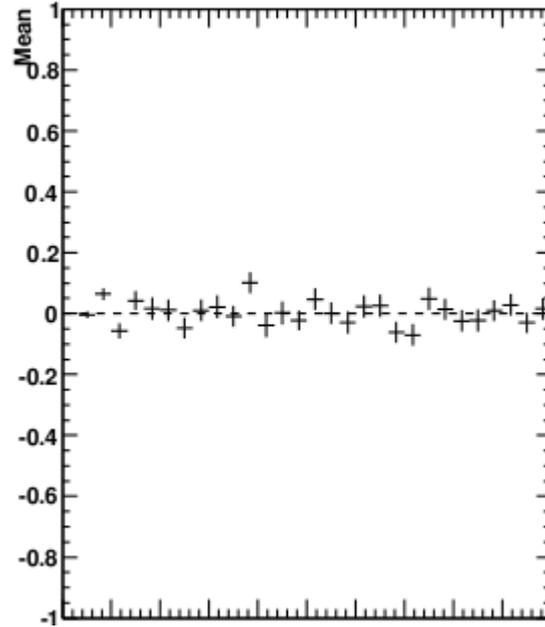
Mean of the pulls

DIRC

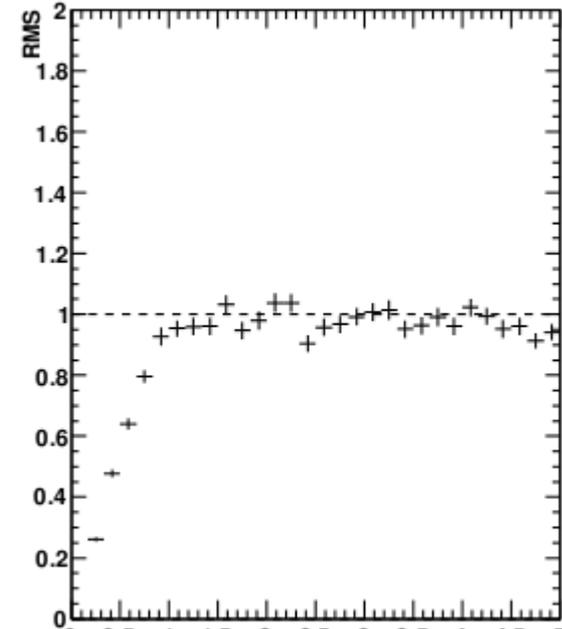
Profile meas ThetaC DRC 54<=Theta<72 for pion



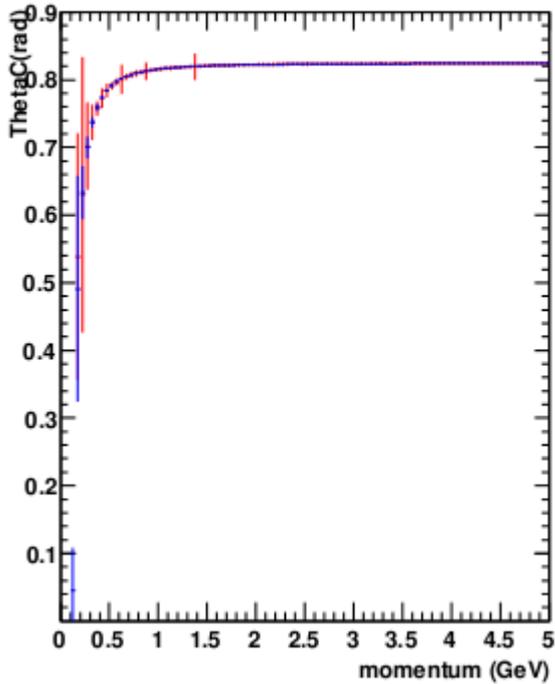
Mean thetac 72<=Theta<90 for pion



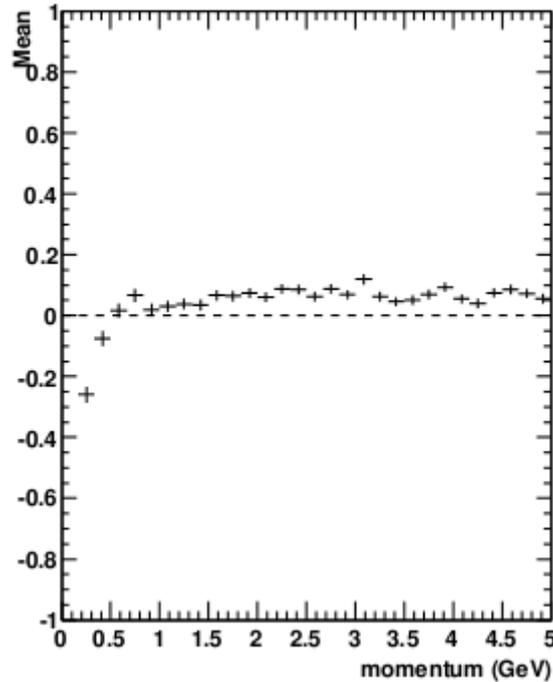
RMS thetac 72<=Theta<90 for pion



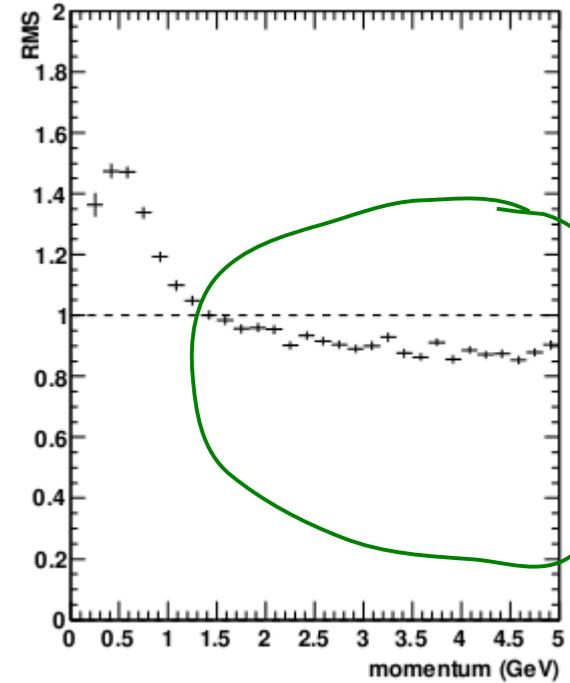
Profile meas ThetaC DRC 54<=Theta<72 for pion



Mean thetac 72<=Theta<90 for pion



RMS thetac 54<=Theta<72 for pion

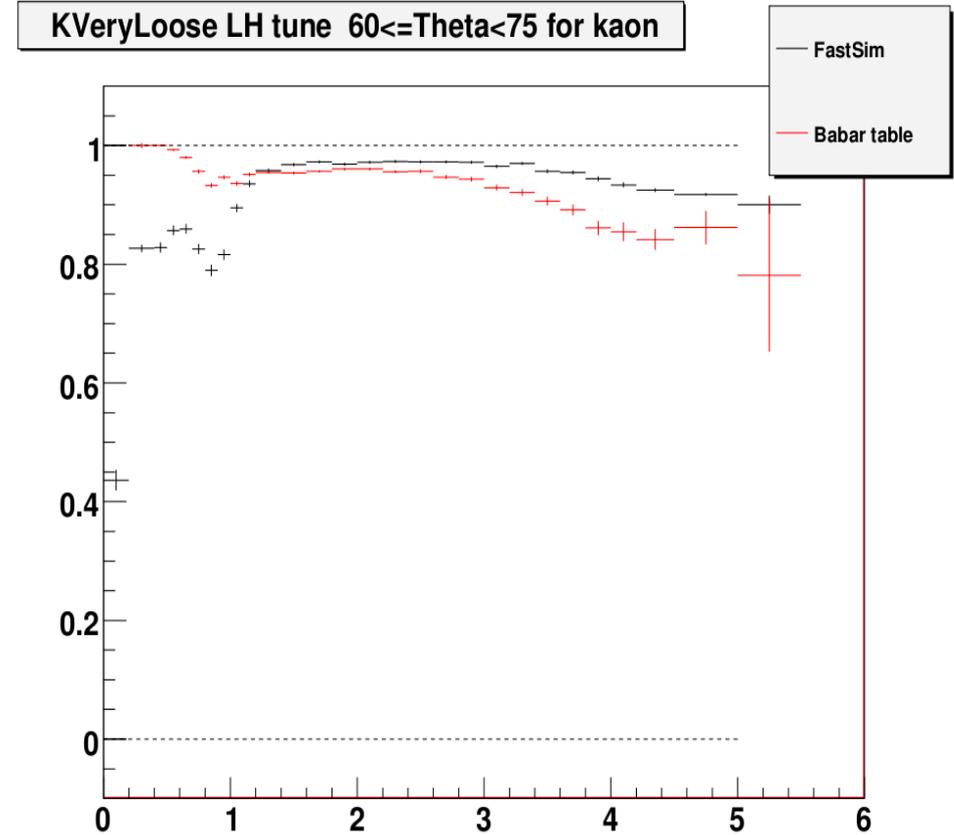
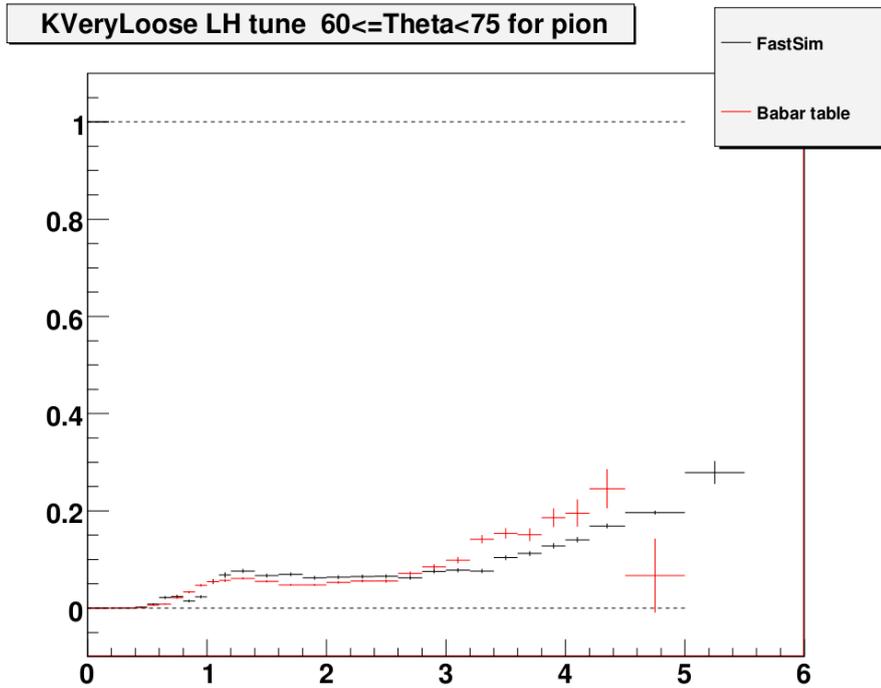


Simple model

Babar model

Tuning of the selectors

<http://www.slac.stanford.edu/~burmist/SelectorsReadyV0.2.1/>



DIRC is very “good ”

Spread of the theta Cerenkov is very small