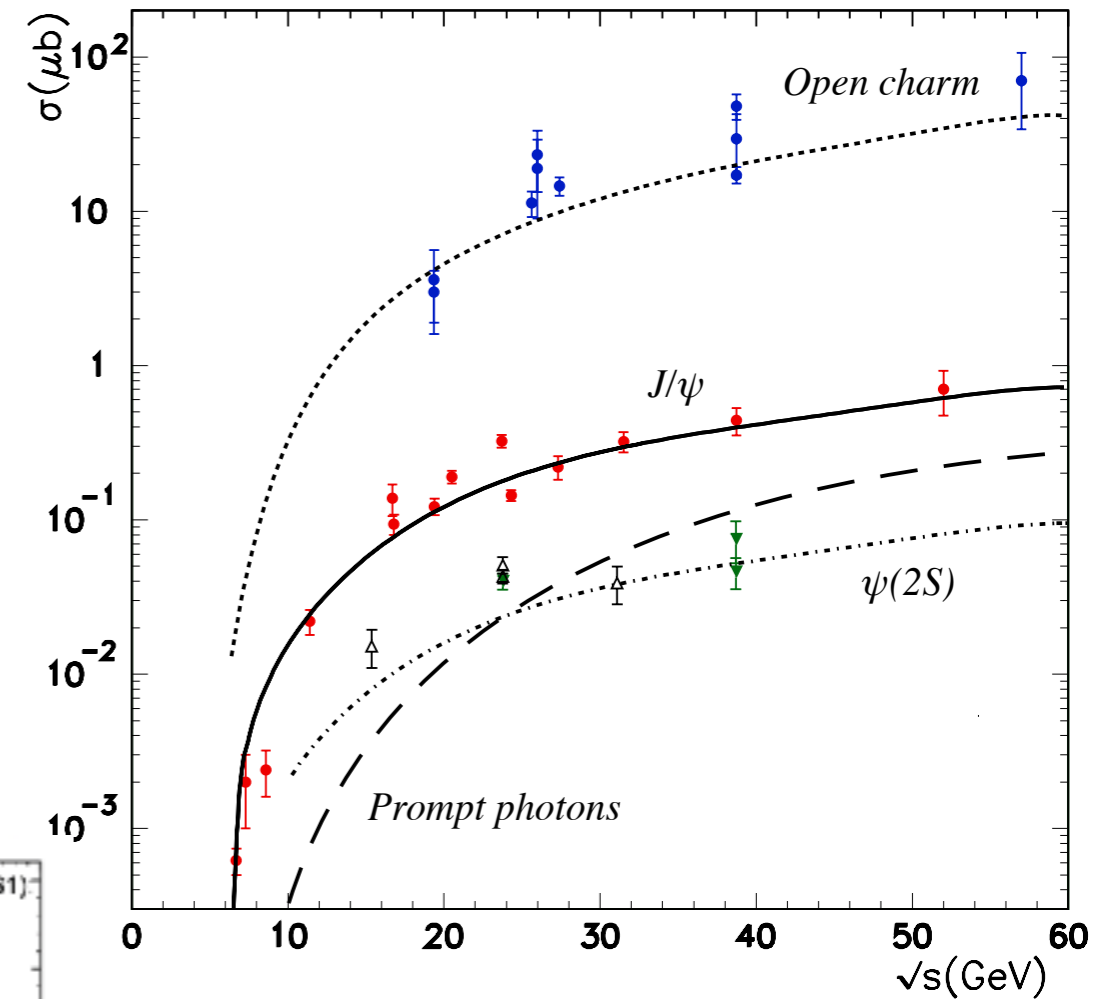
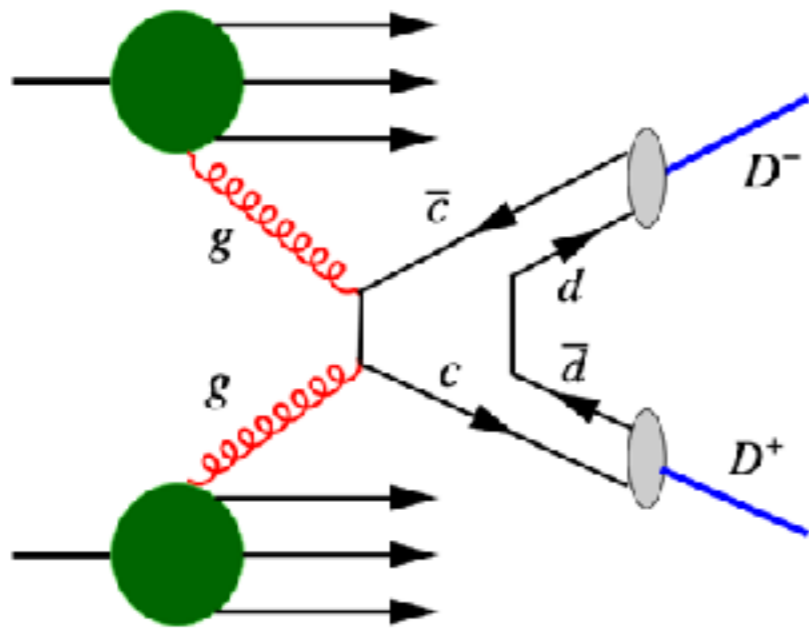
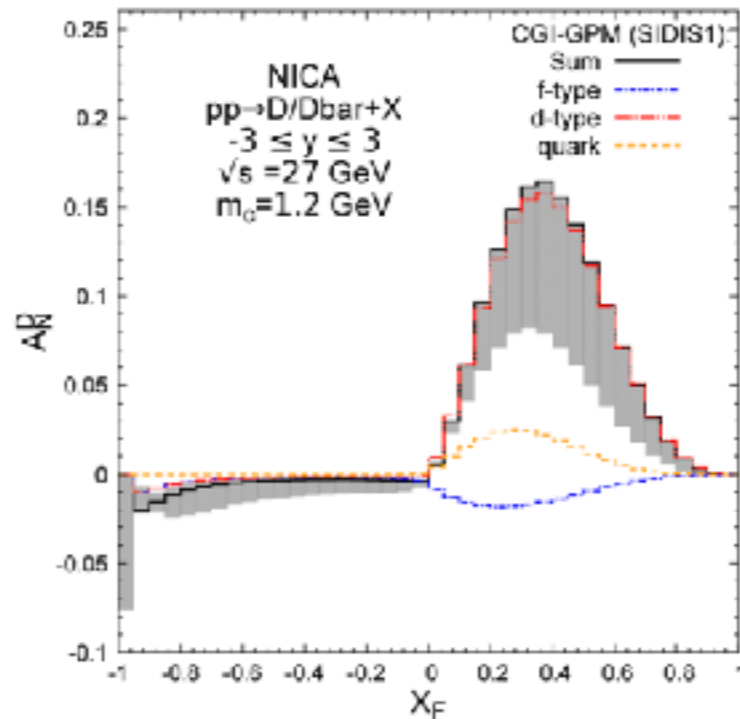
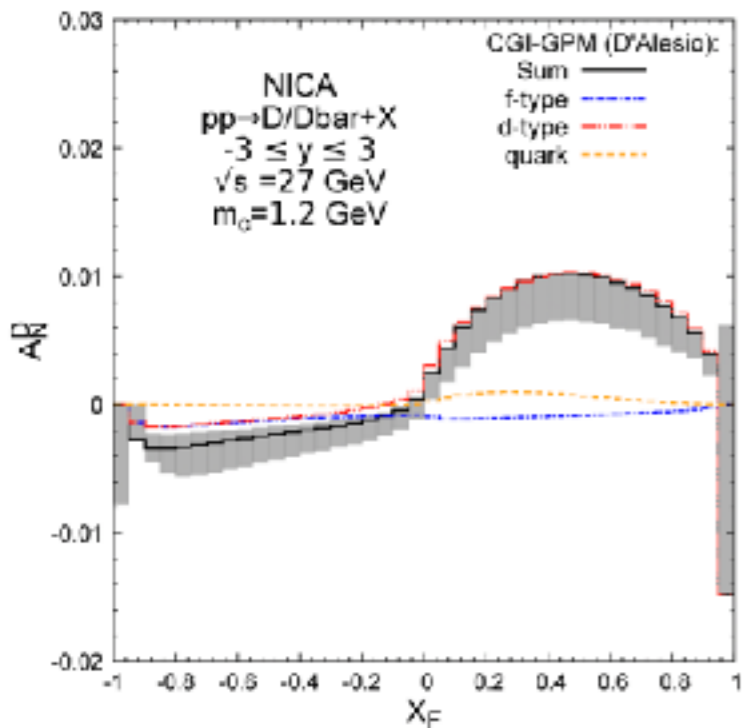


# **D-meson decays and PID at high momenta**

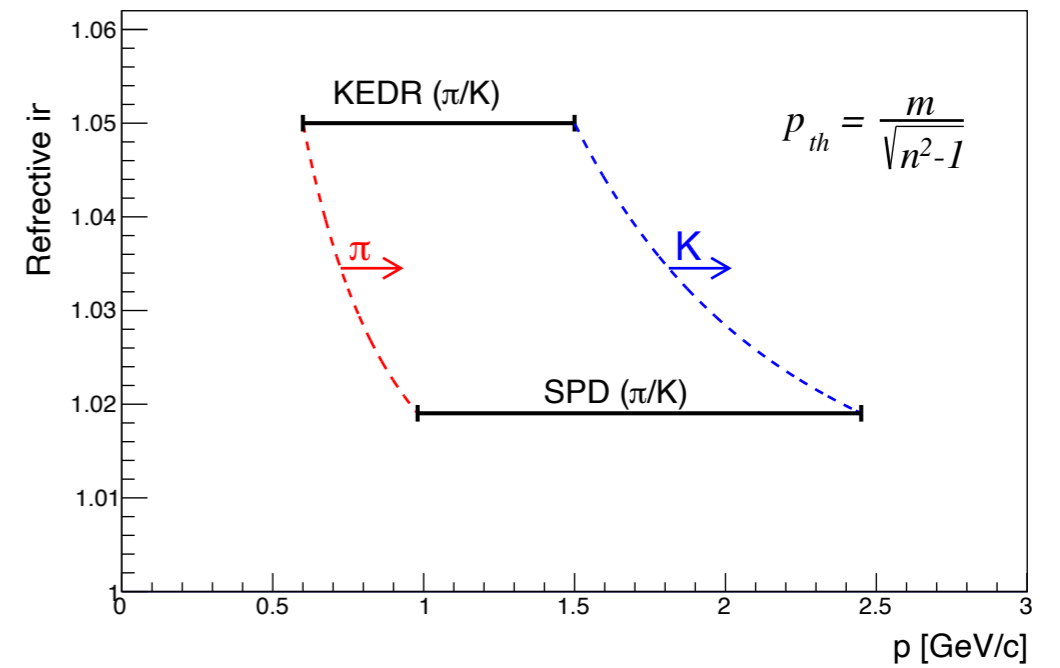
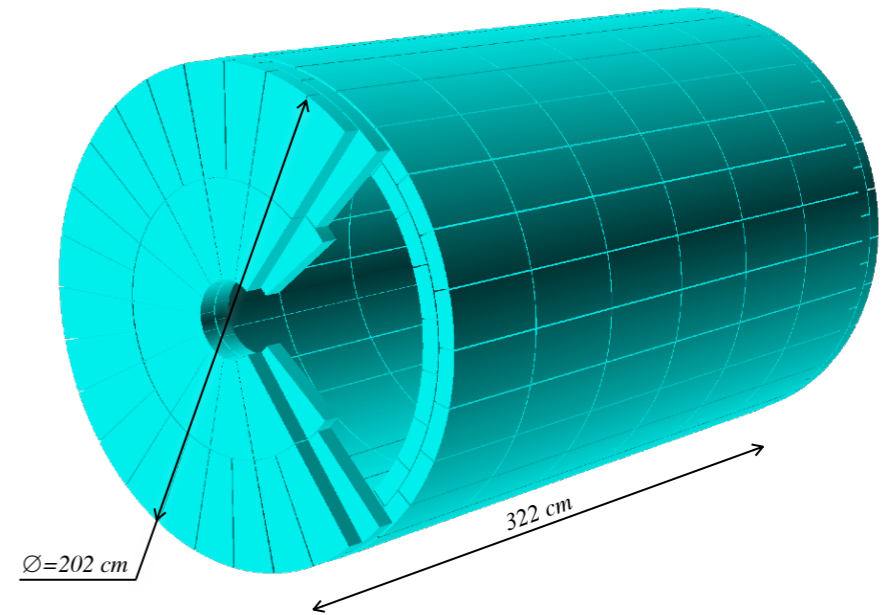
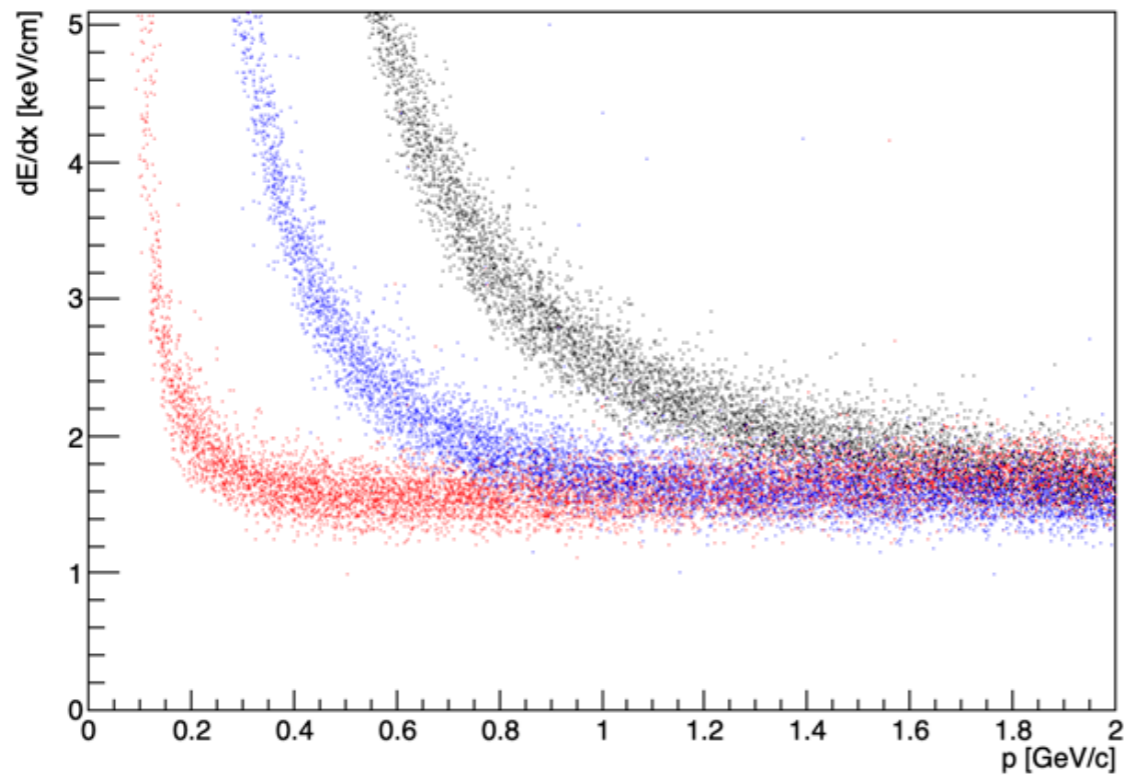
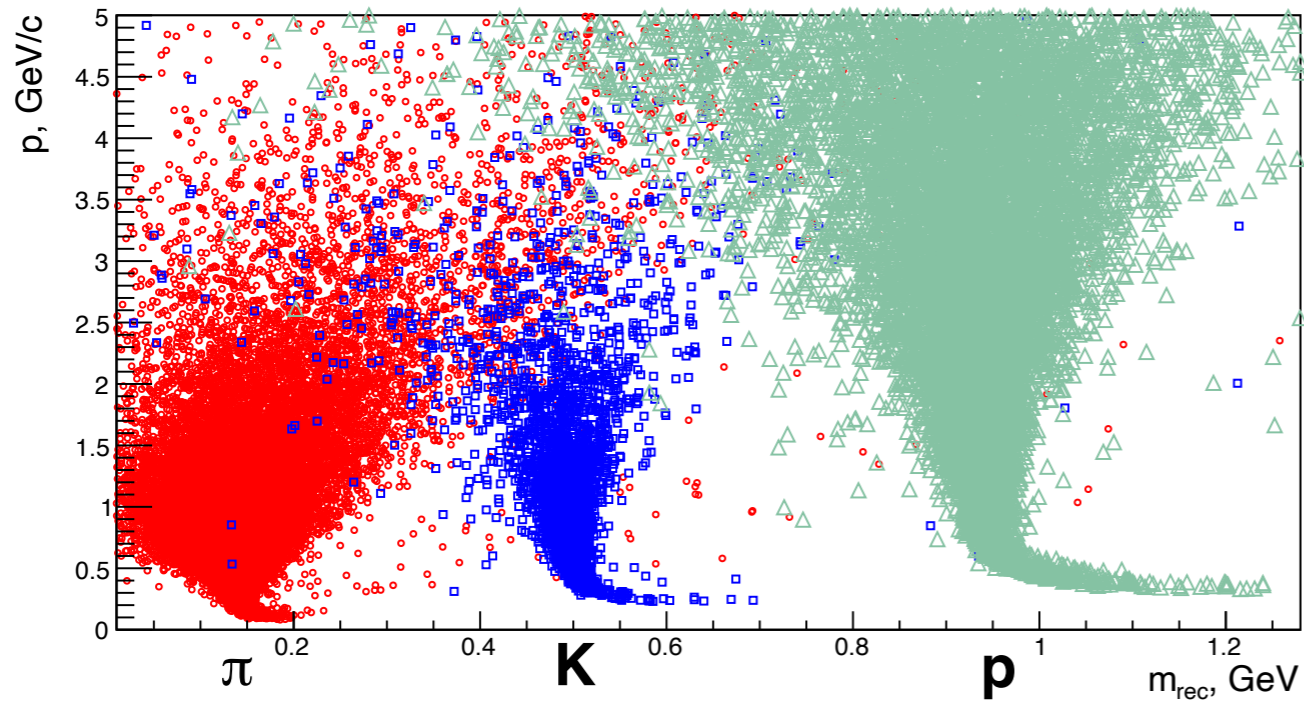
# Open charm as a way to access gluon content in nucleon



Saleev 2020



# PID at SPD



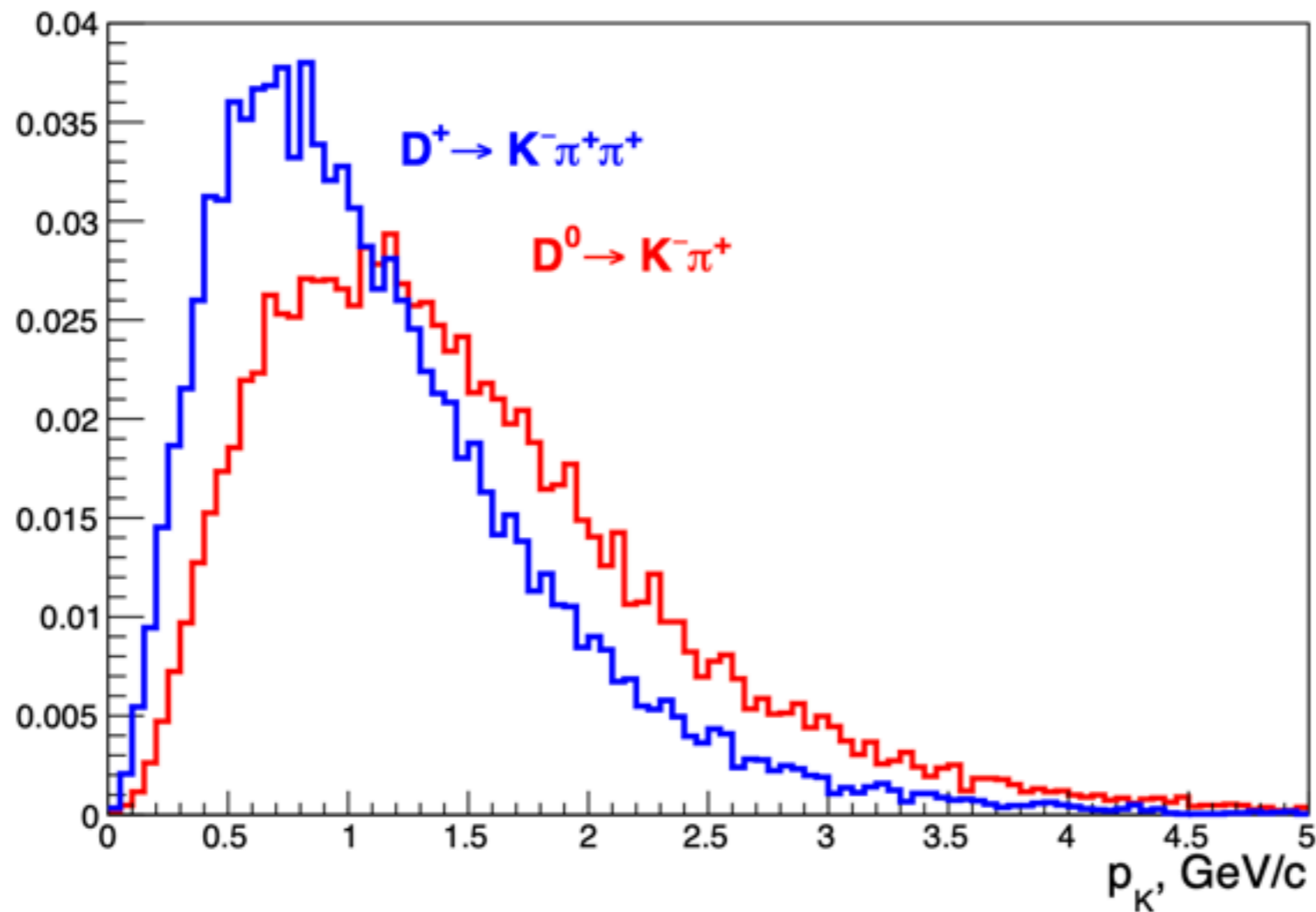
# “Golden” channels

$K^- 2\pi^+$

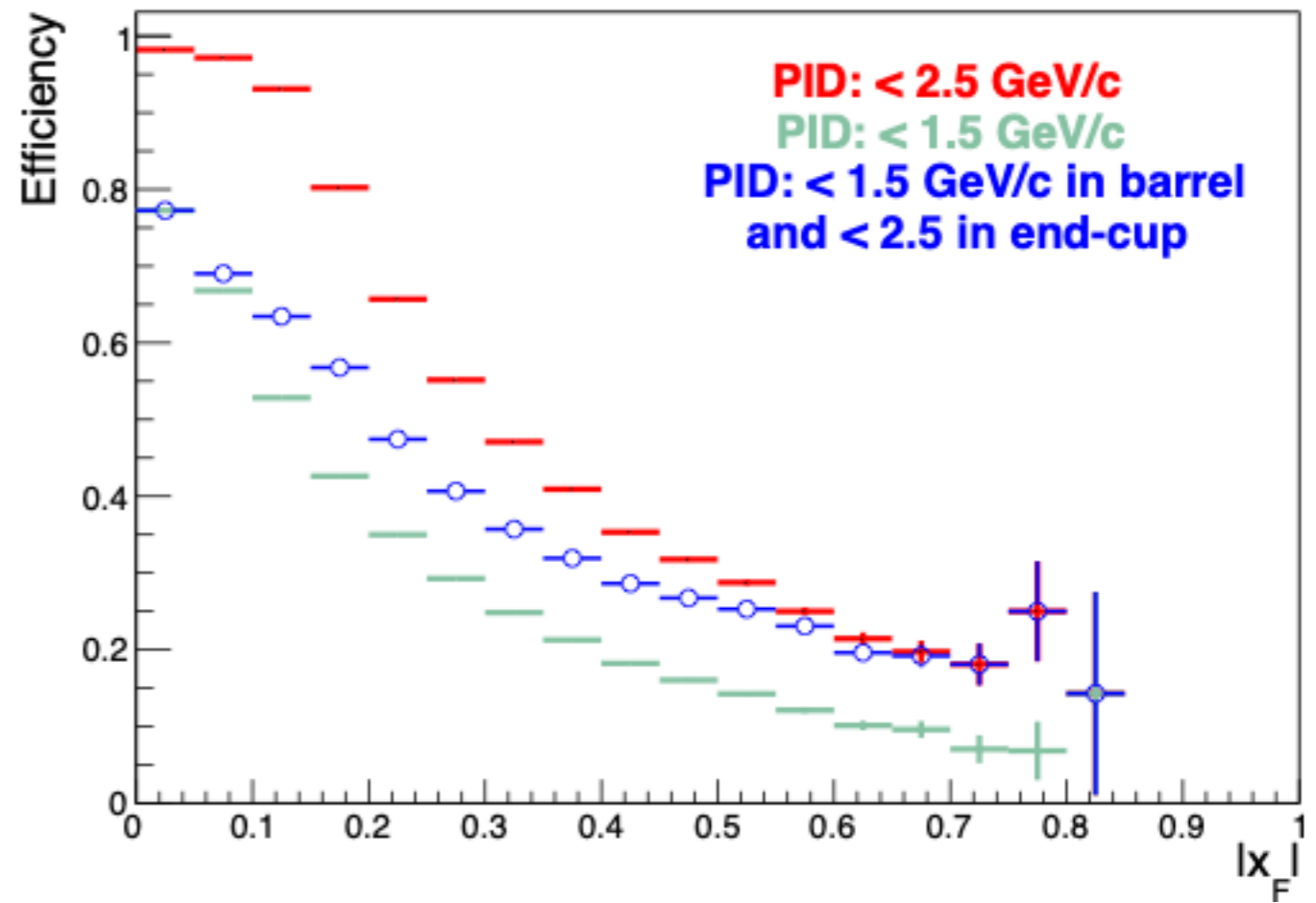
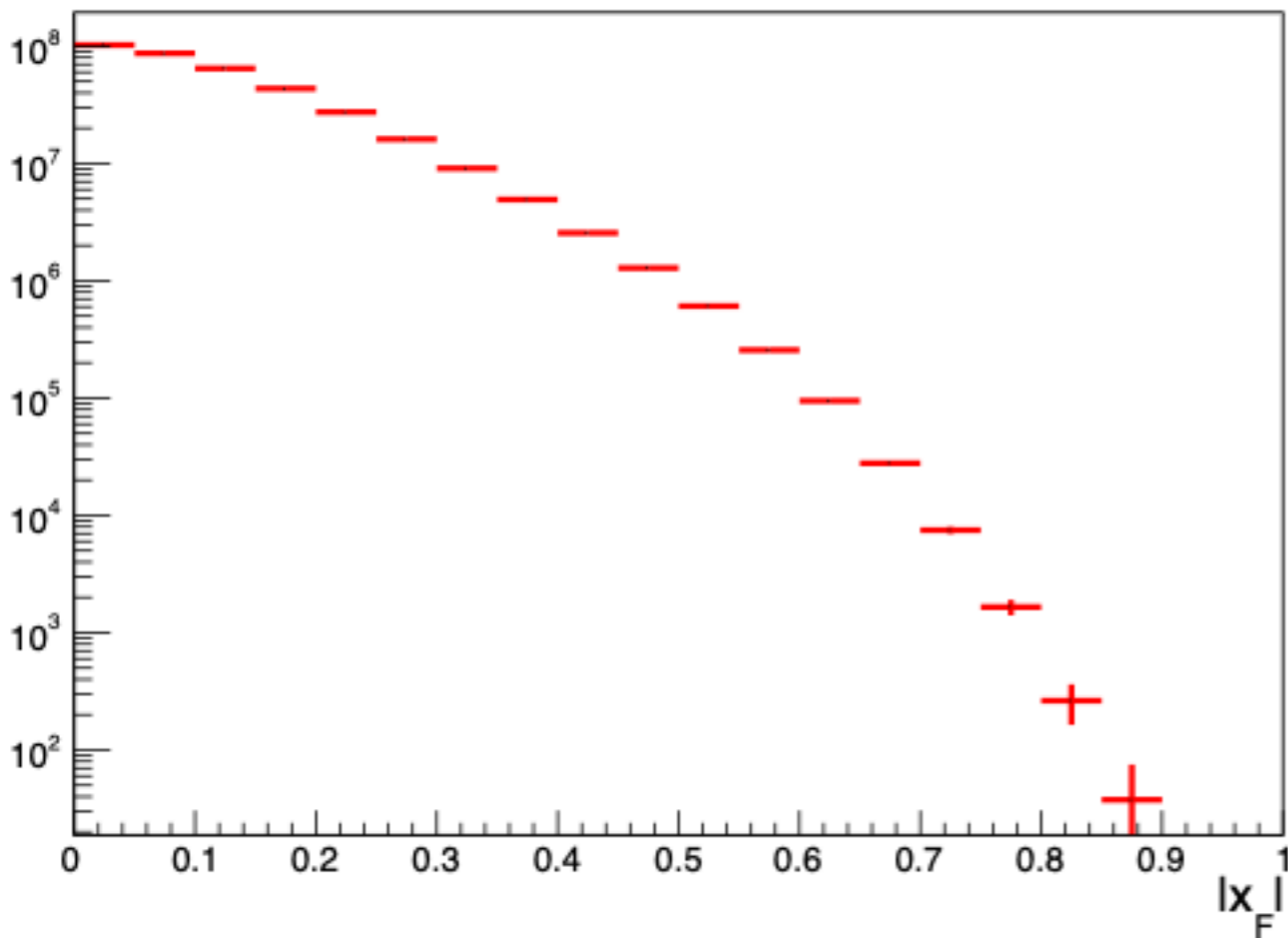
[c]  $( 9.38 \pm 0.16 ) \%$

$K^- \pi^+$

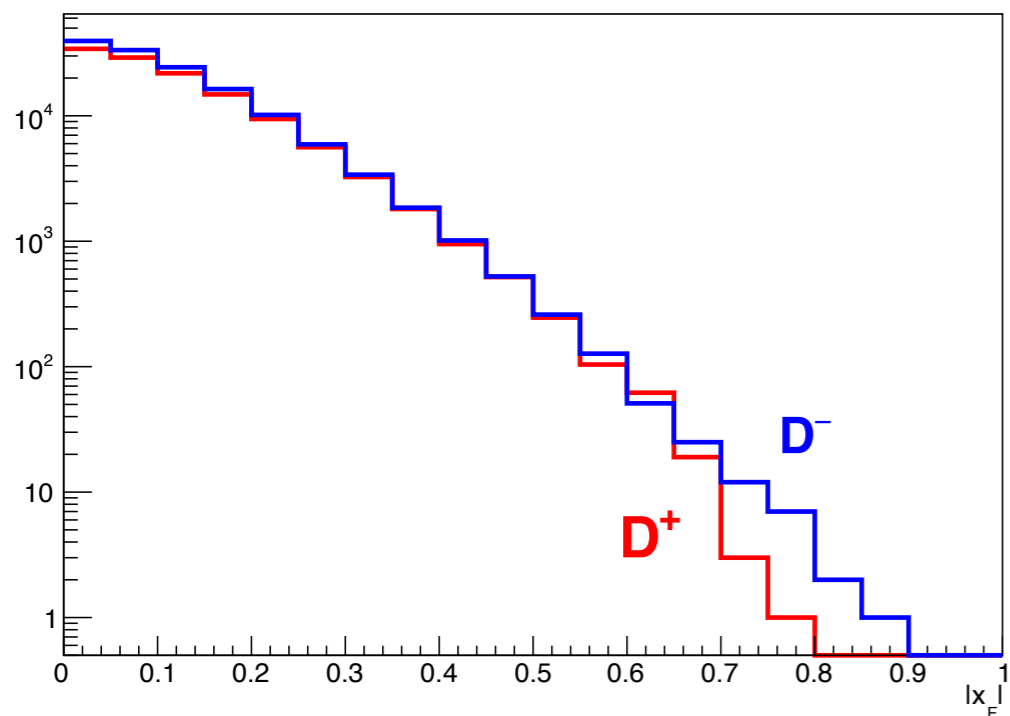
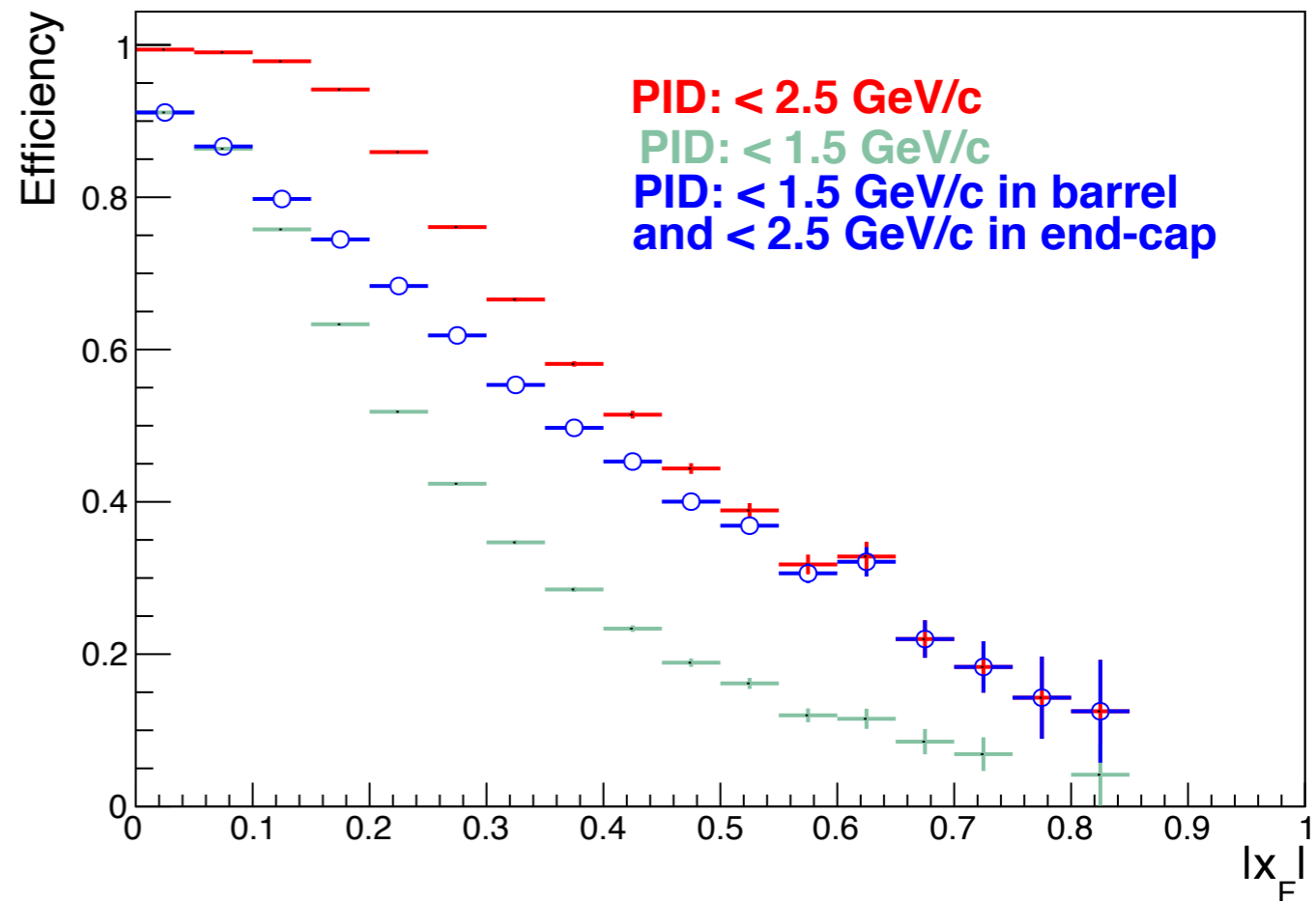
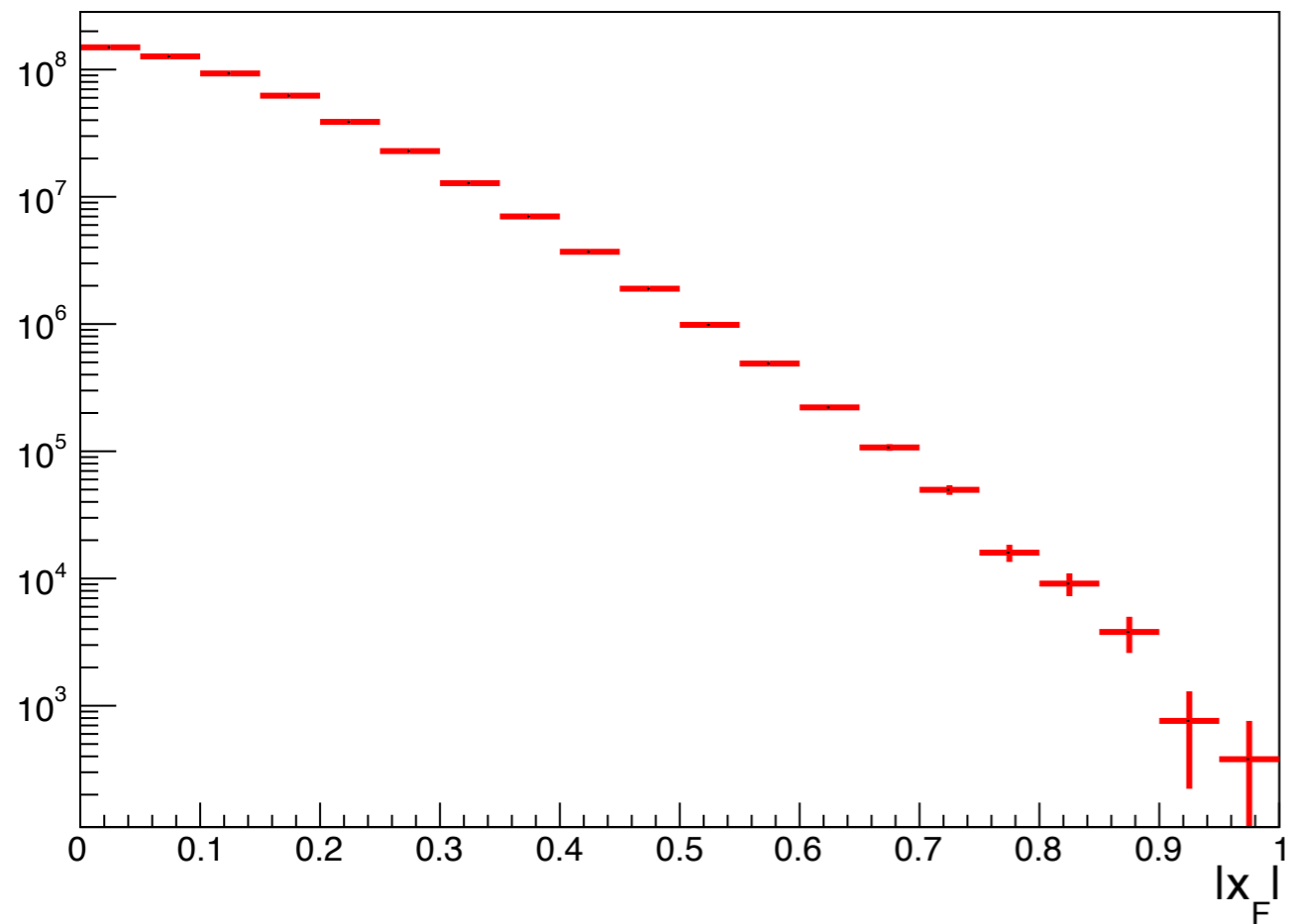
$( 3.950 \pm 0.031 ) \%$



# $D^0 \rightarrow K\pi$



# $D^\pm \rightarrow K\pi\pi$



due to valence d- quark

# Summary

- 1) it seems, aerogel counter in barrel is not very effective for the purpose of  $K/\pi$  separation from D-meson decay.
- 2) whether we need it also in end-cap?