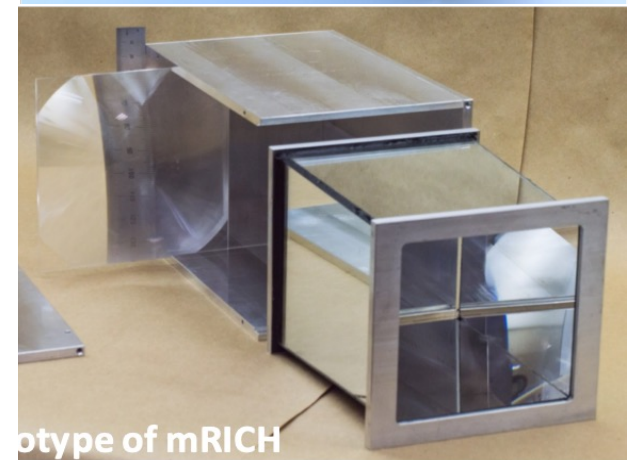
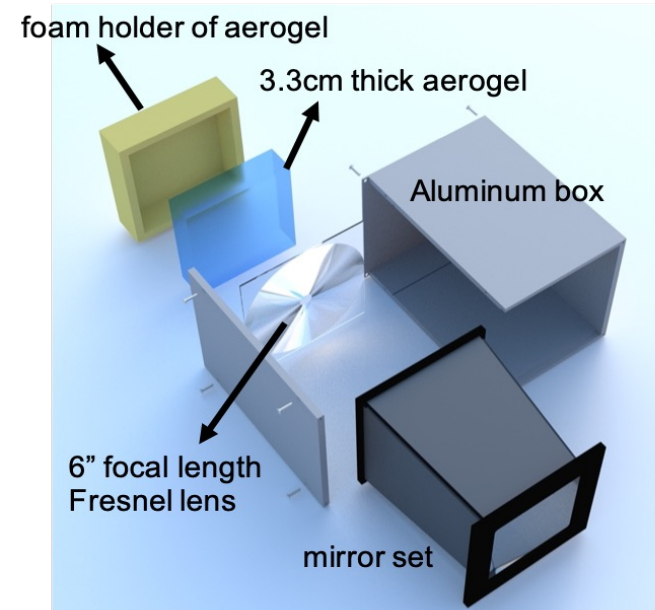
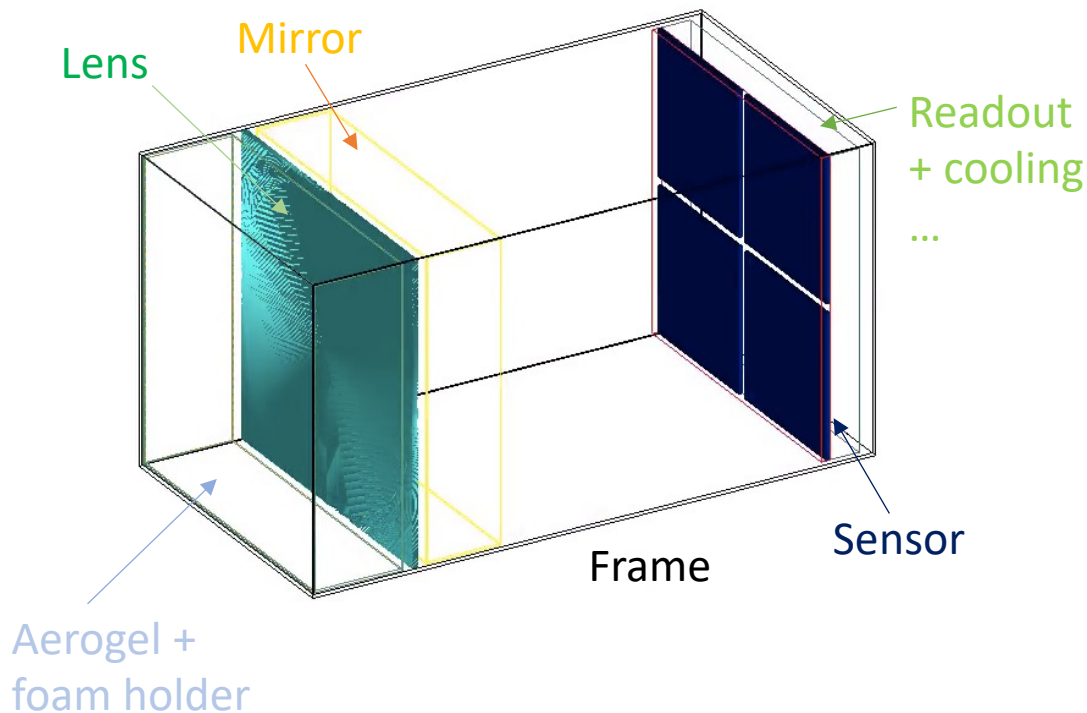


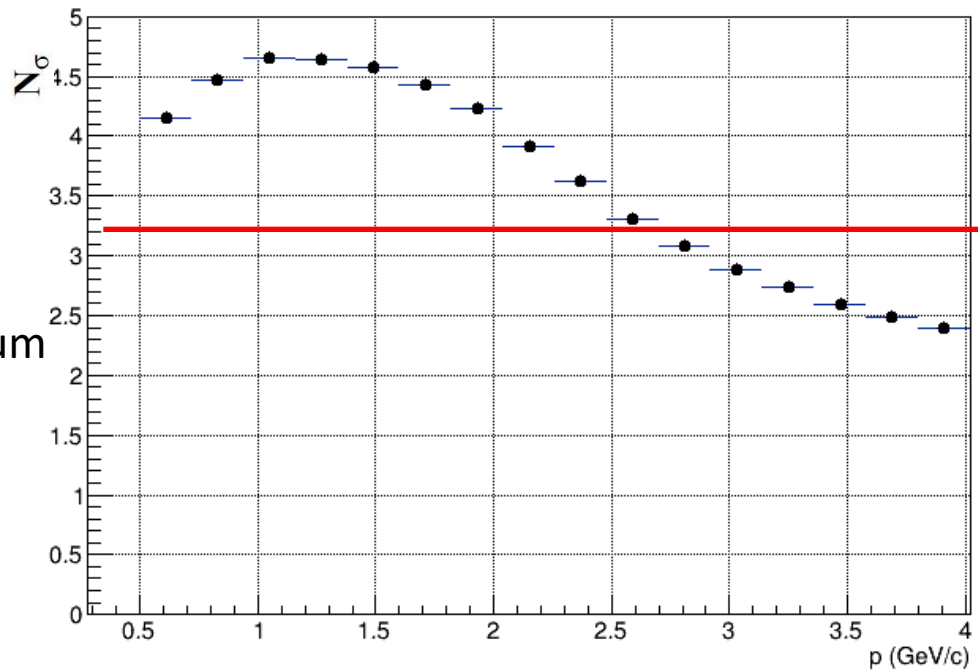
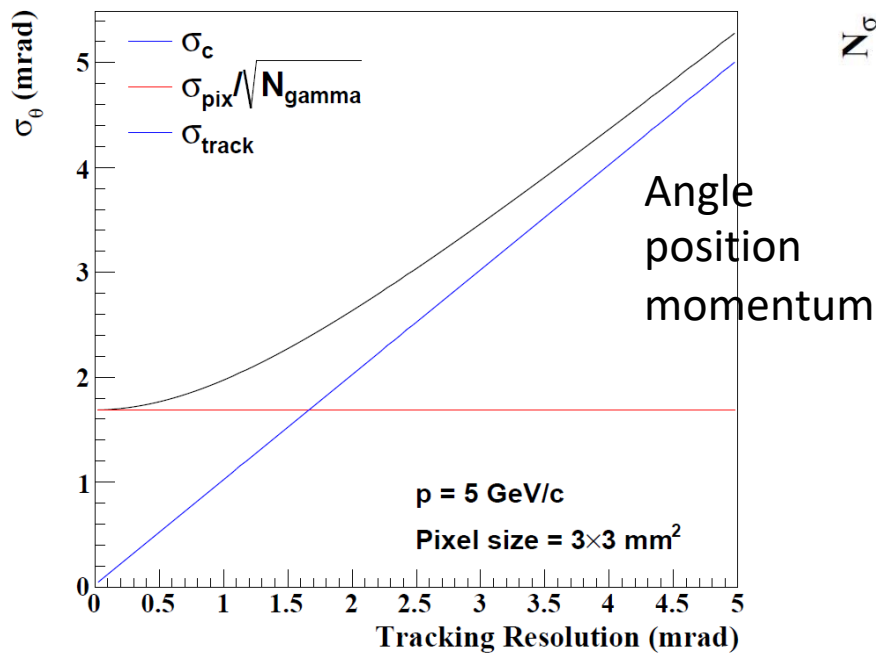
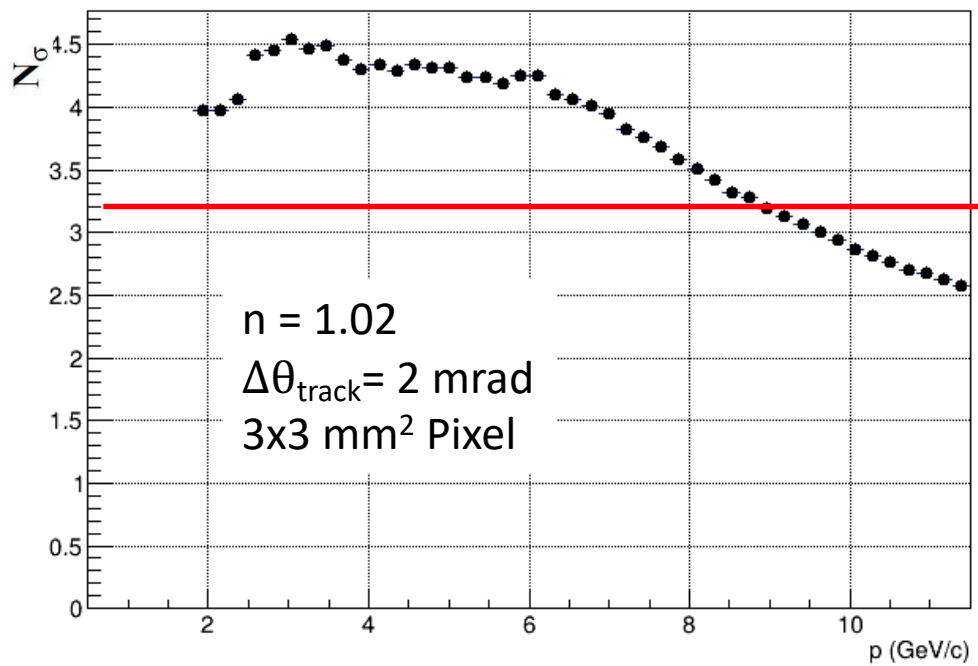
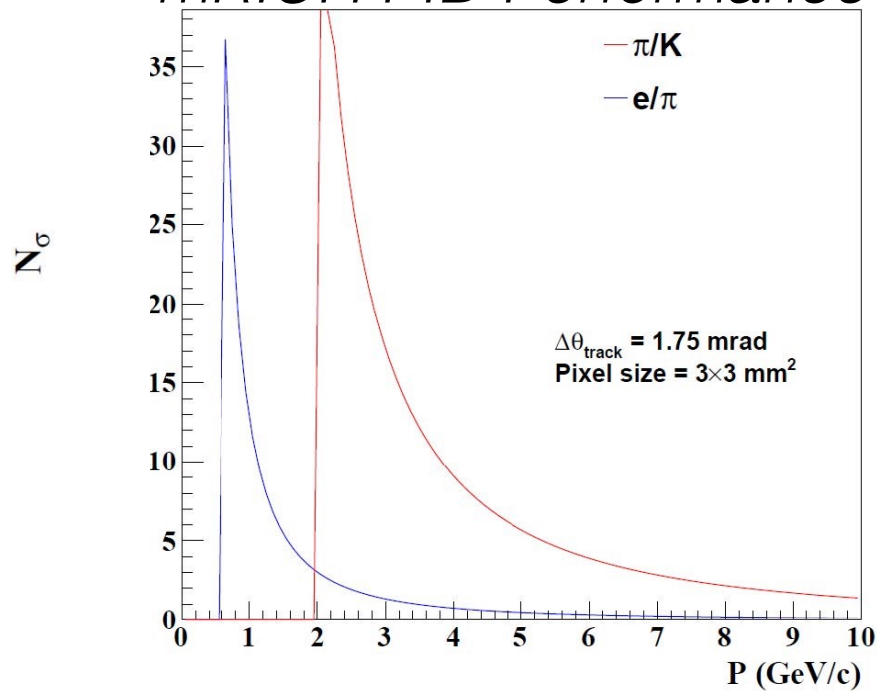
Modular Ring Imaging CHerenkov Detector (mRICH)

Murad Sarsour, GSU

August 26, 2022

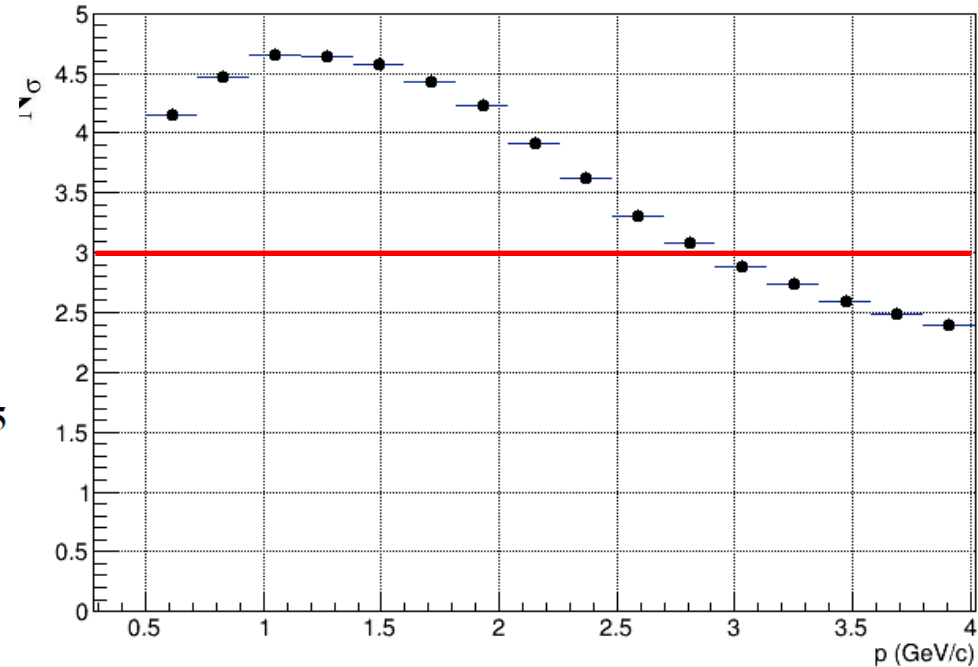
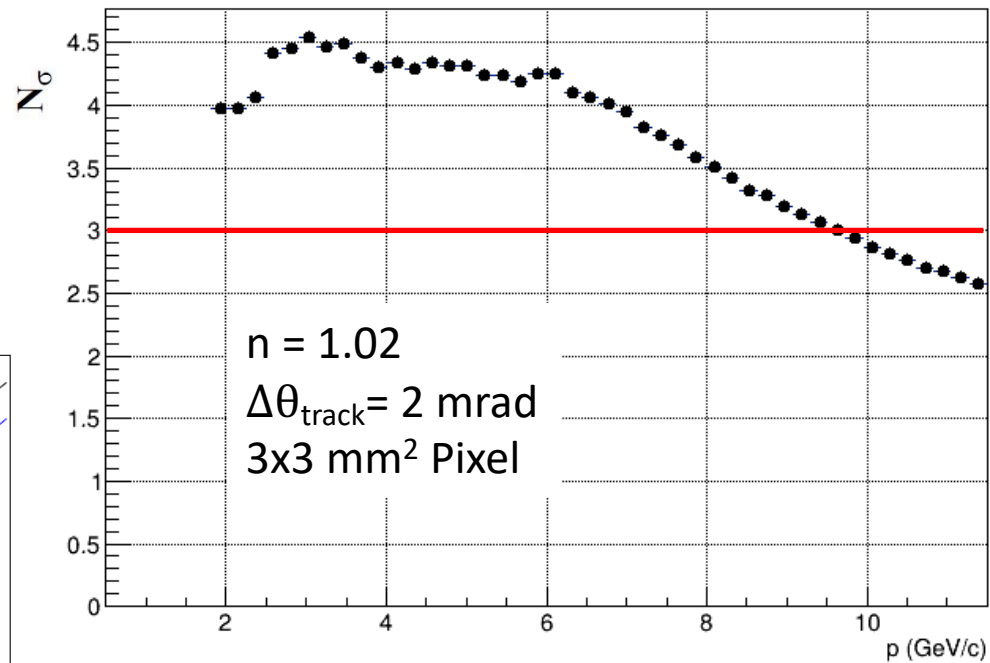
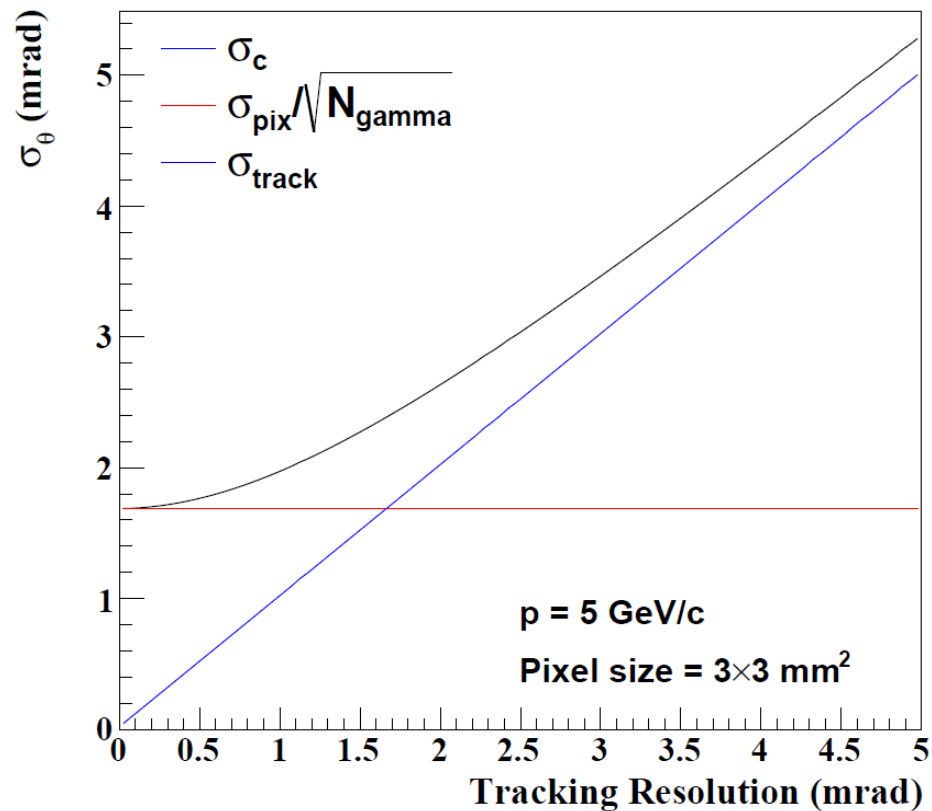


mRICH PID Performance



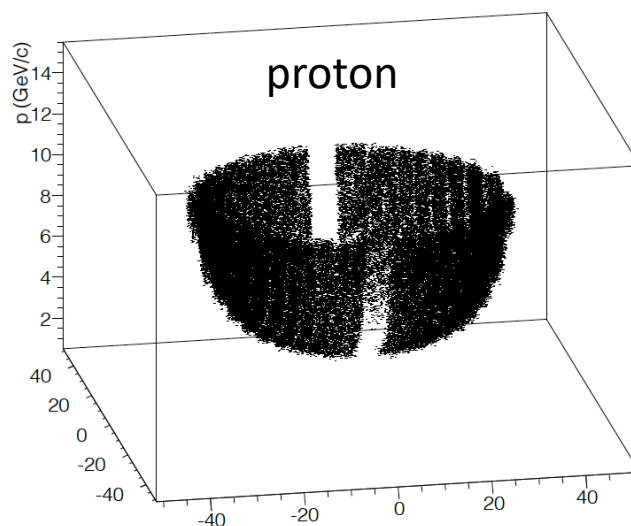
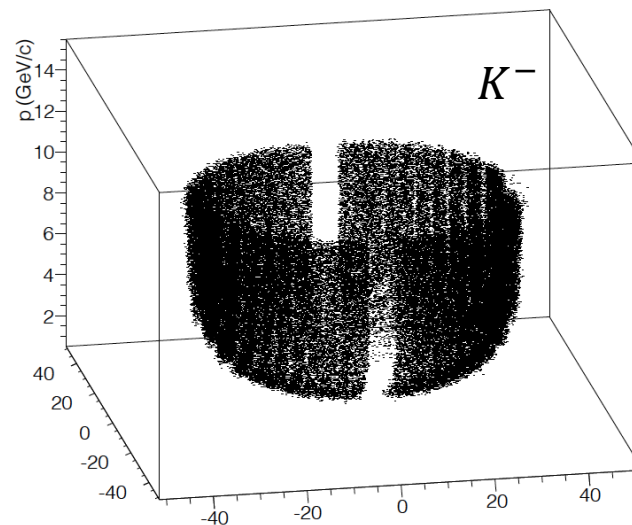
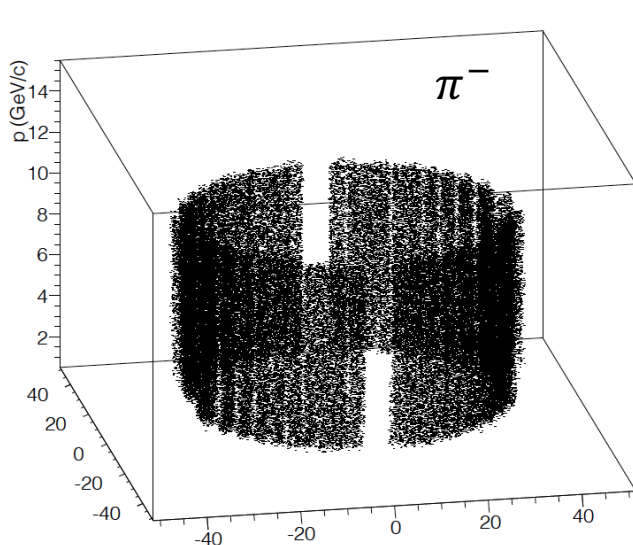
mRICH PID Performance

Angle, position and momentum



mRICH Performance: Analysis Code / PID

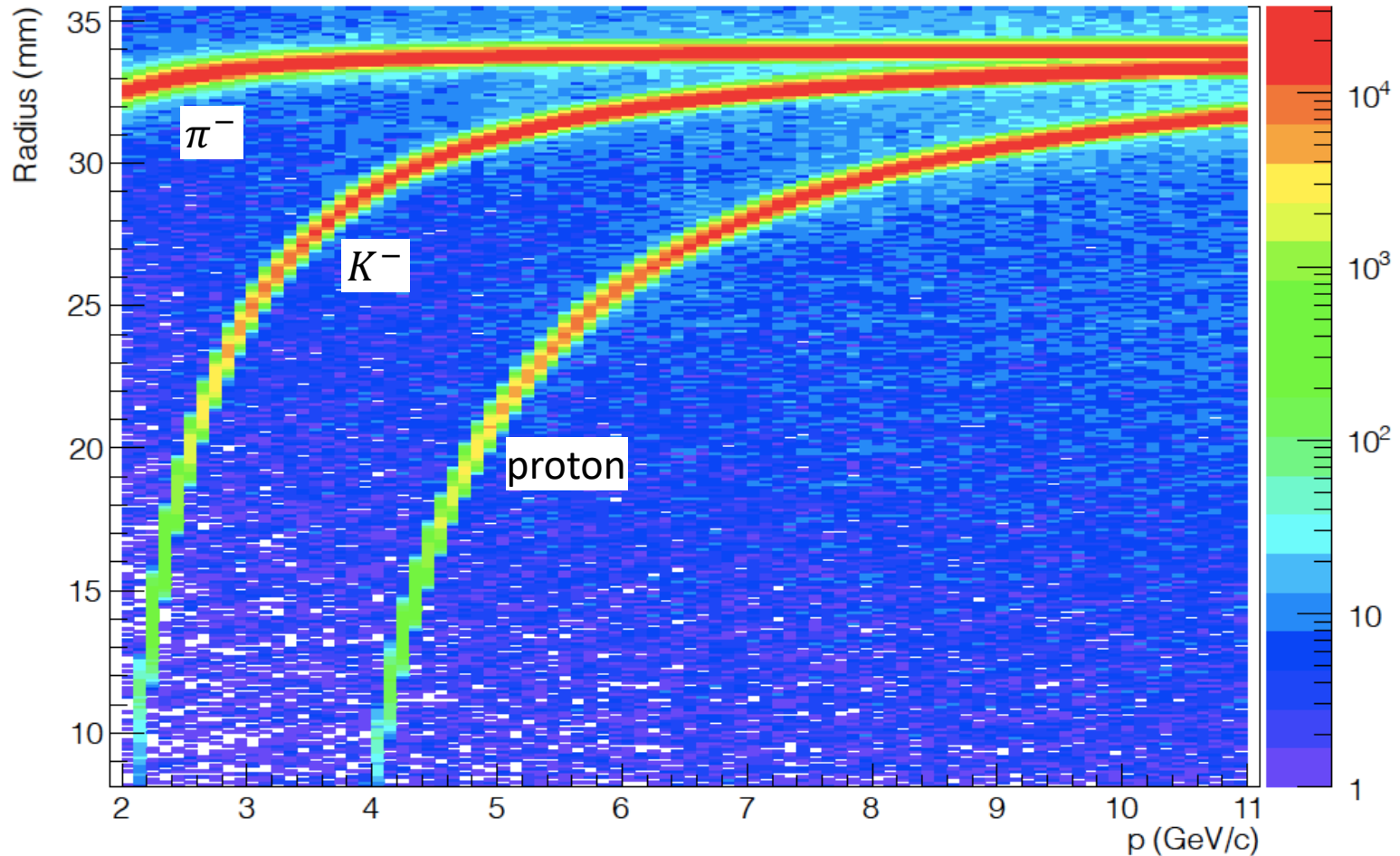
- ❖ Adding sensor pixelization complicates things! **Likelihood method**
 - ❖ Establish a DB and match patterns based on Likelihood!



Reconstruction/ PID

Focusing on a single module for performance studies!

❖ Ring radius without considering the sensor pixelization!



mRICH PID Performance

