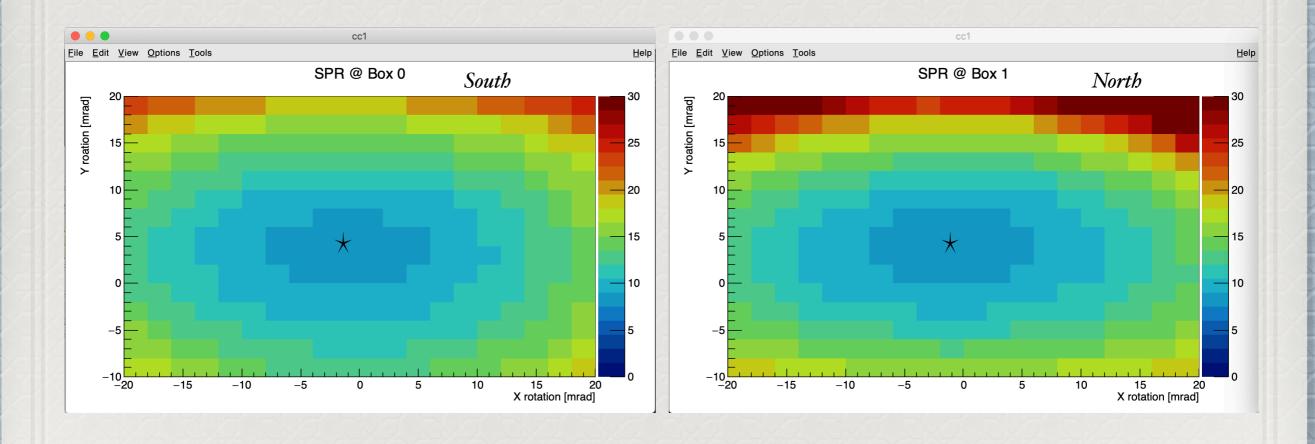
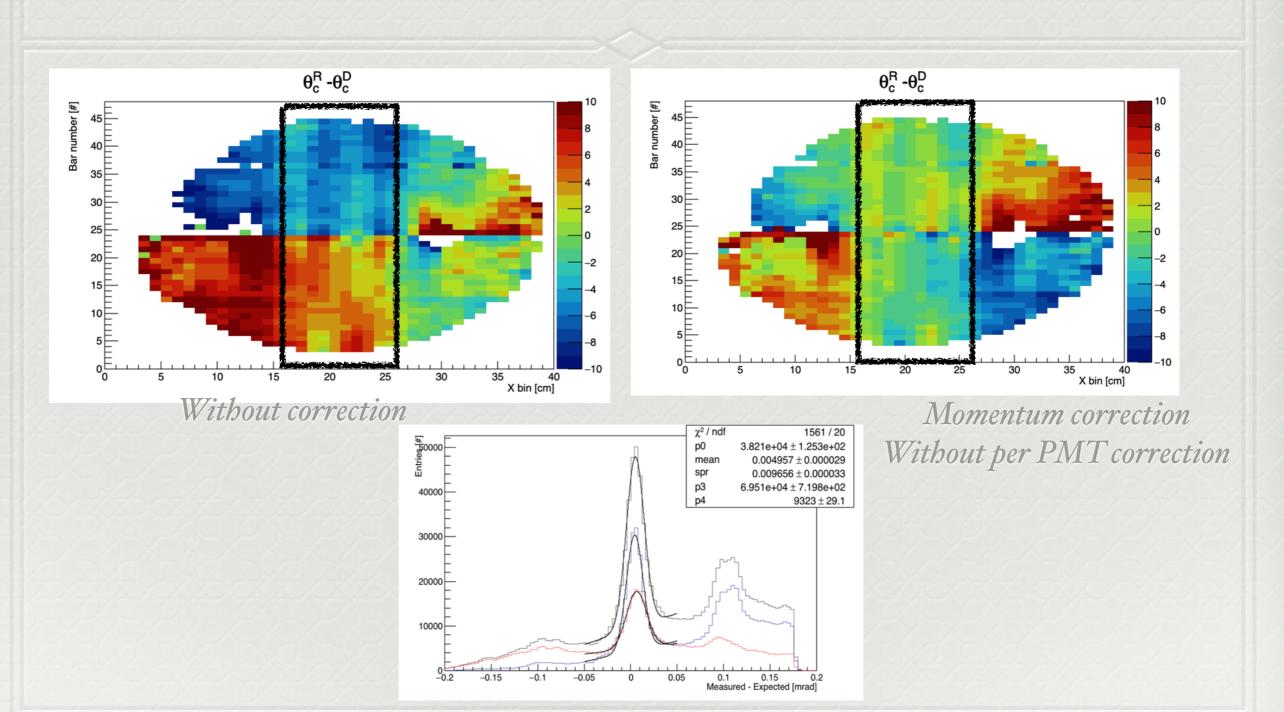
# GlueX DIRC Beam Data Momentum Correction

A.Ali 3 Aug 2020

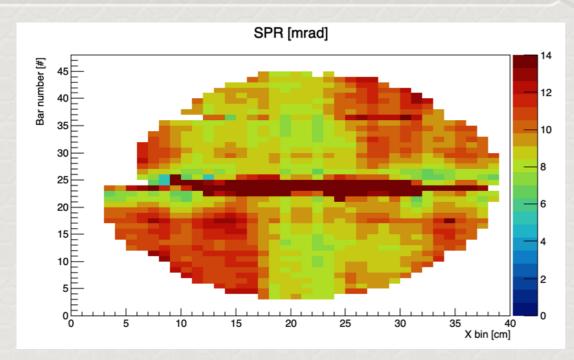
#### Momentum Correction



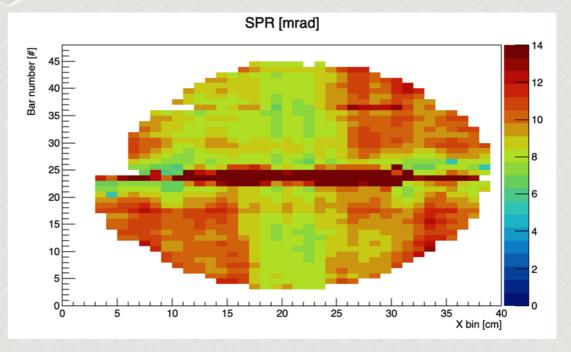
### Reflected / Direct Cherenkov angle difference



#### SPR



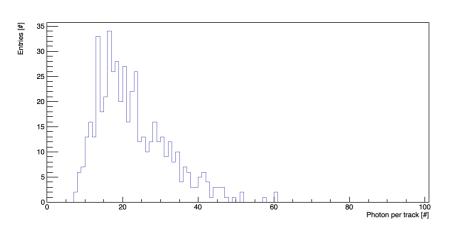
Without correction



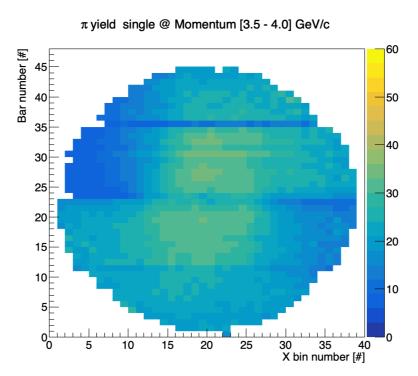
Momentum correction Without per PMT correction

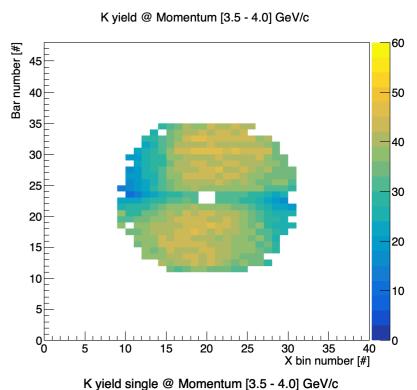
No important difference

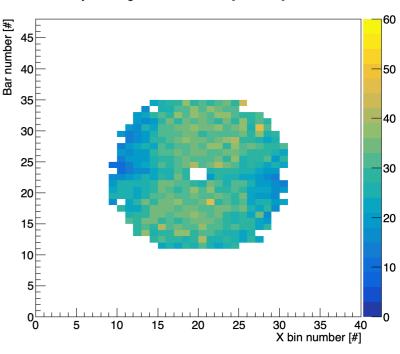
## Photon Yield Map Beam Data



 $\pi$  yield @ Momentum [3.5 - 4.0] GeV/c



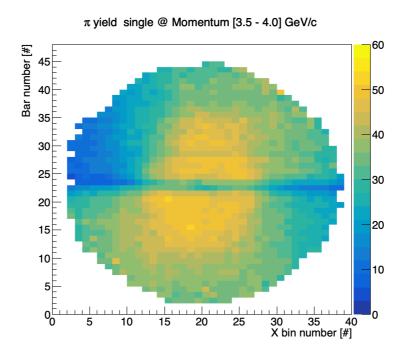


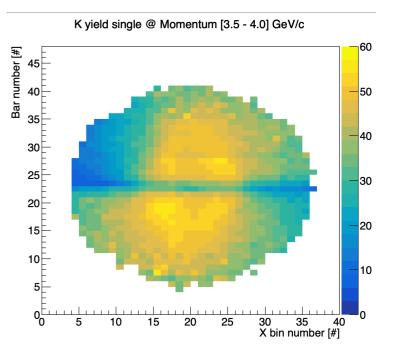


Single Track Events

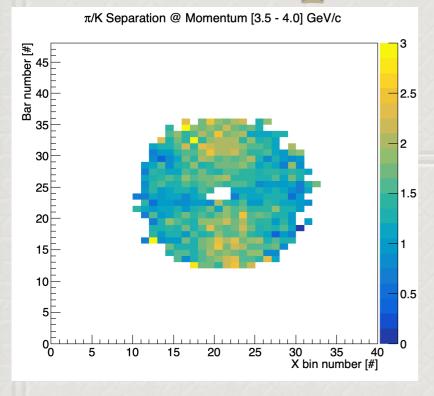
## Photon Yield Map Simulation

Single Track Events

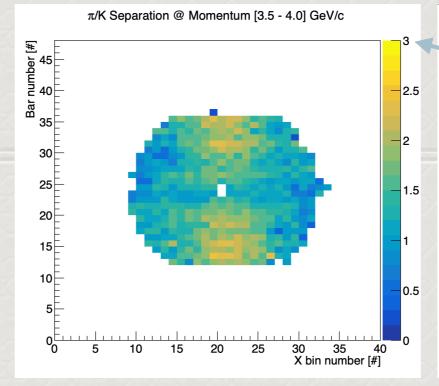




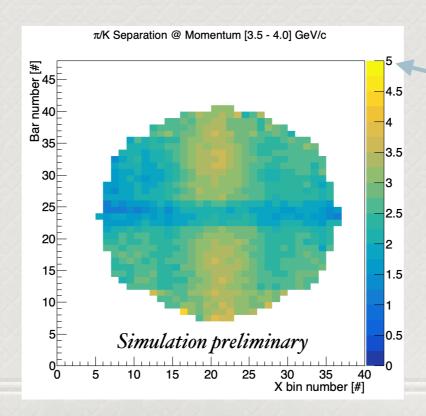
### Separation Power Sim

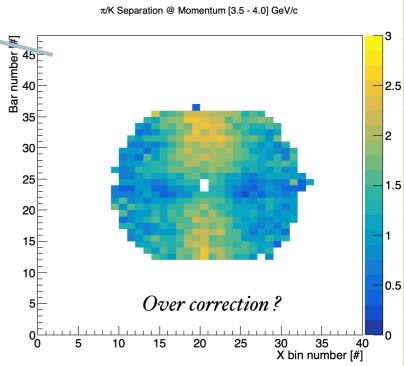


Without correction



Momentum correction Without per PMT correction





After Per PMT and Momentum correction