

GlueX DIRC Commissioning Analyses

A.A

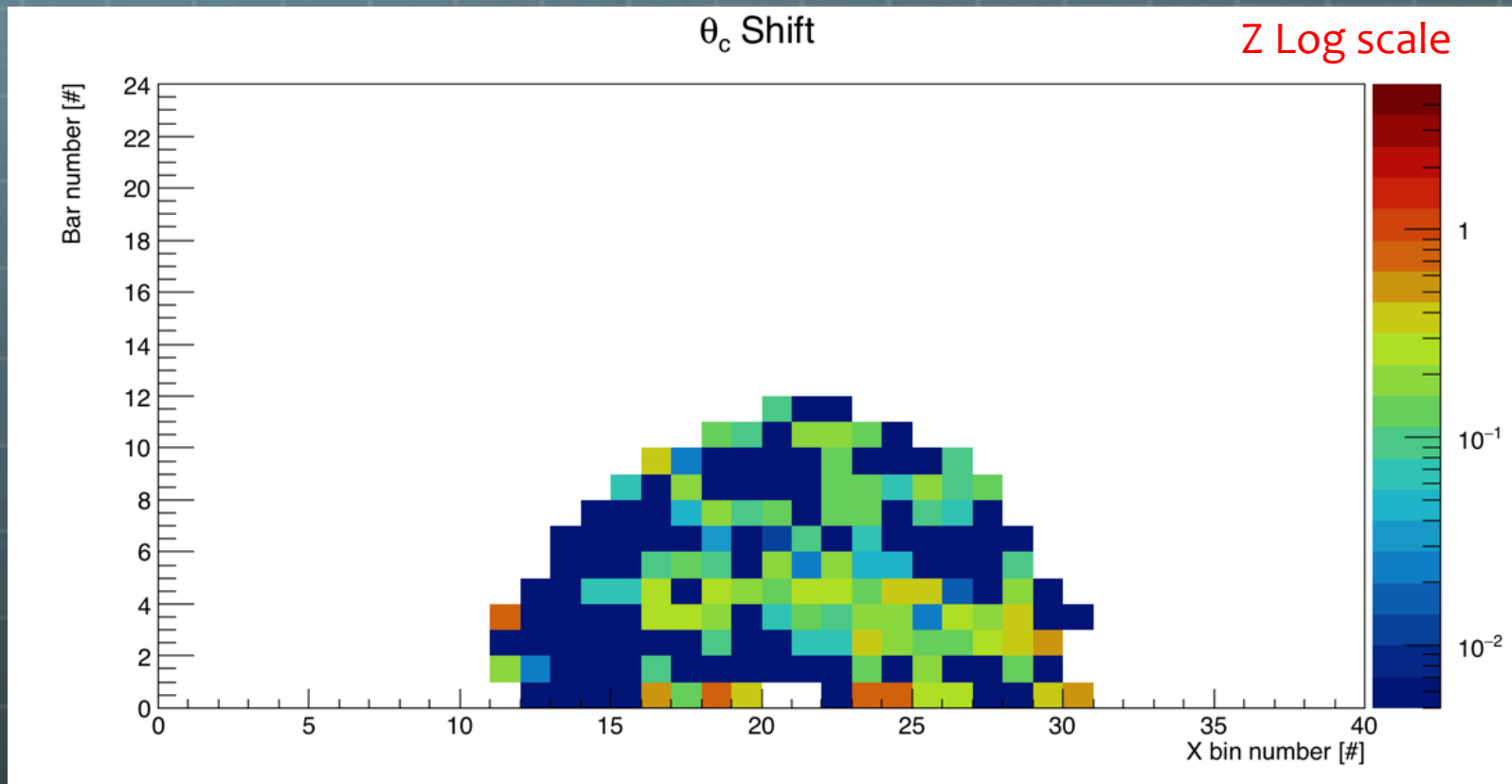
20 Aug 2019

GlueX DIRC Meeting

Next Steps

- 🌐 Apply Cherenkov angle Correction [per Bar per X bin per Direct/Reflected flag] since no correlation between the shift neither (yield nor SPR nor momentum)
- 🌐 Calculate Separation power
- 🌐 Calculate Tracking Resolution Map

Systematic Shift after correction

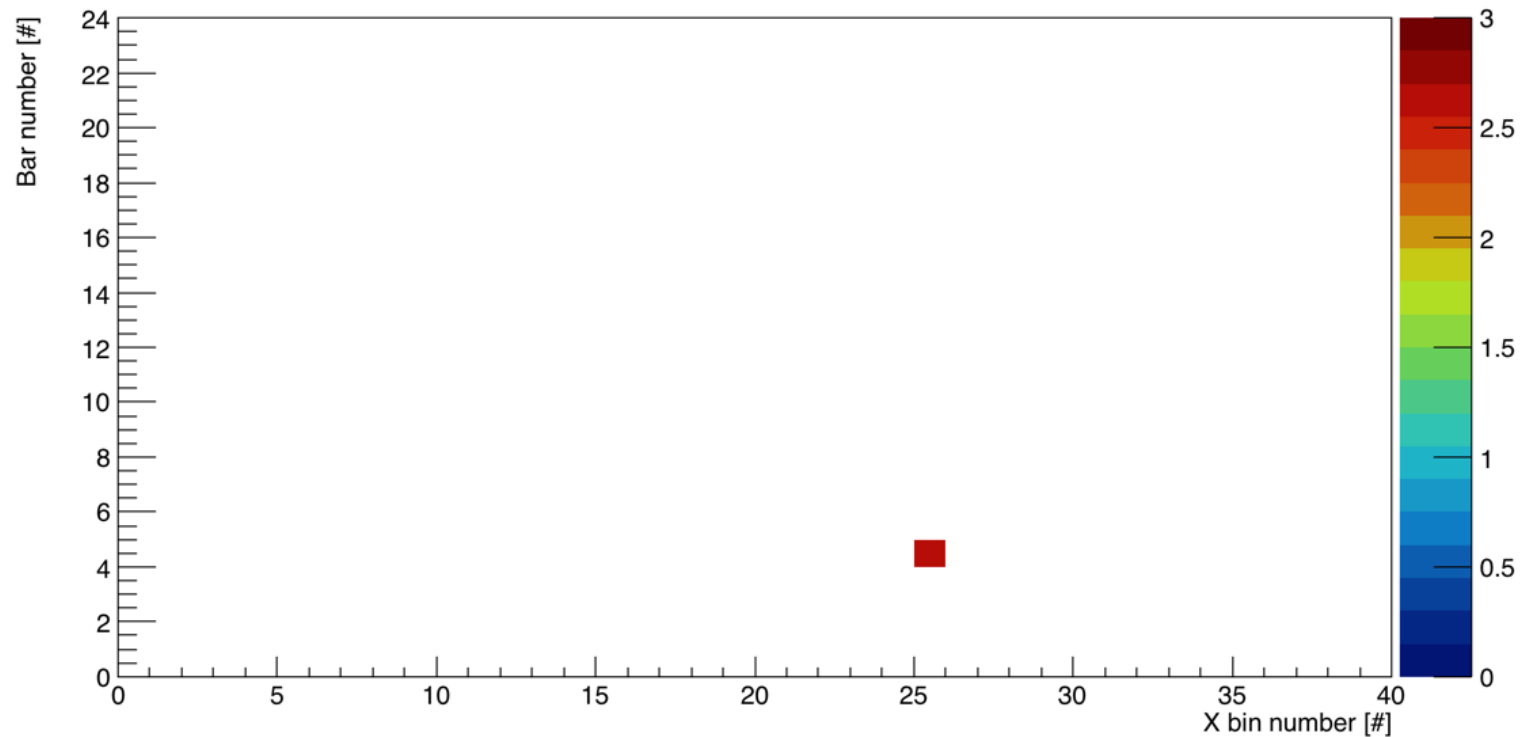


Log Likelihood difference

http://web-docs.gsi.de/~aali/ahmeddirc/pages/glx_sep_data_v1.html

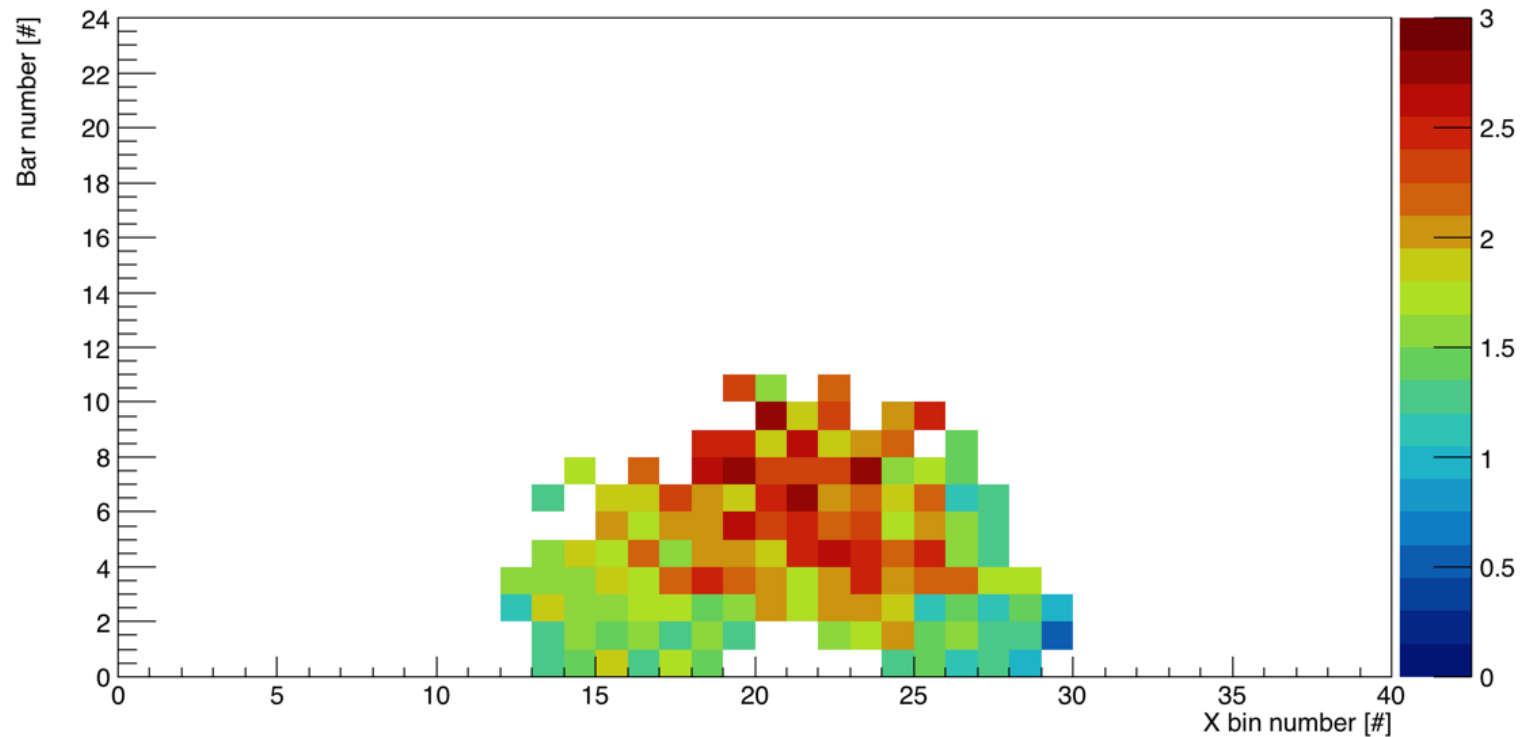
Separation power

π/K Separation @ Momentum [2.5 - 3.0] GeV/c



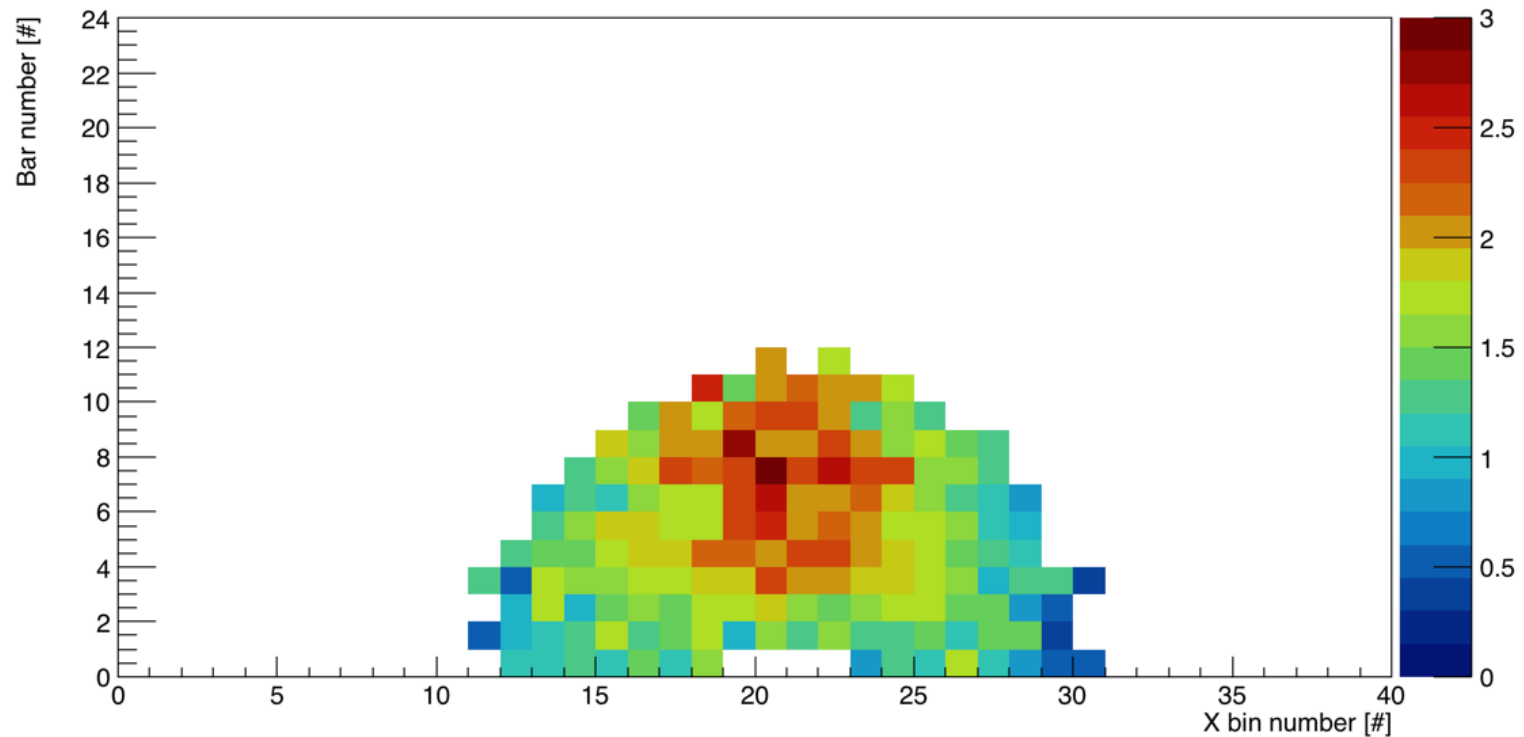
Separation power

π/K Separation @ Momentum [3.0 - 3.5] GeV/c



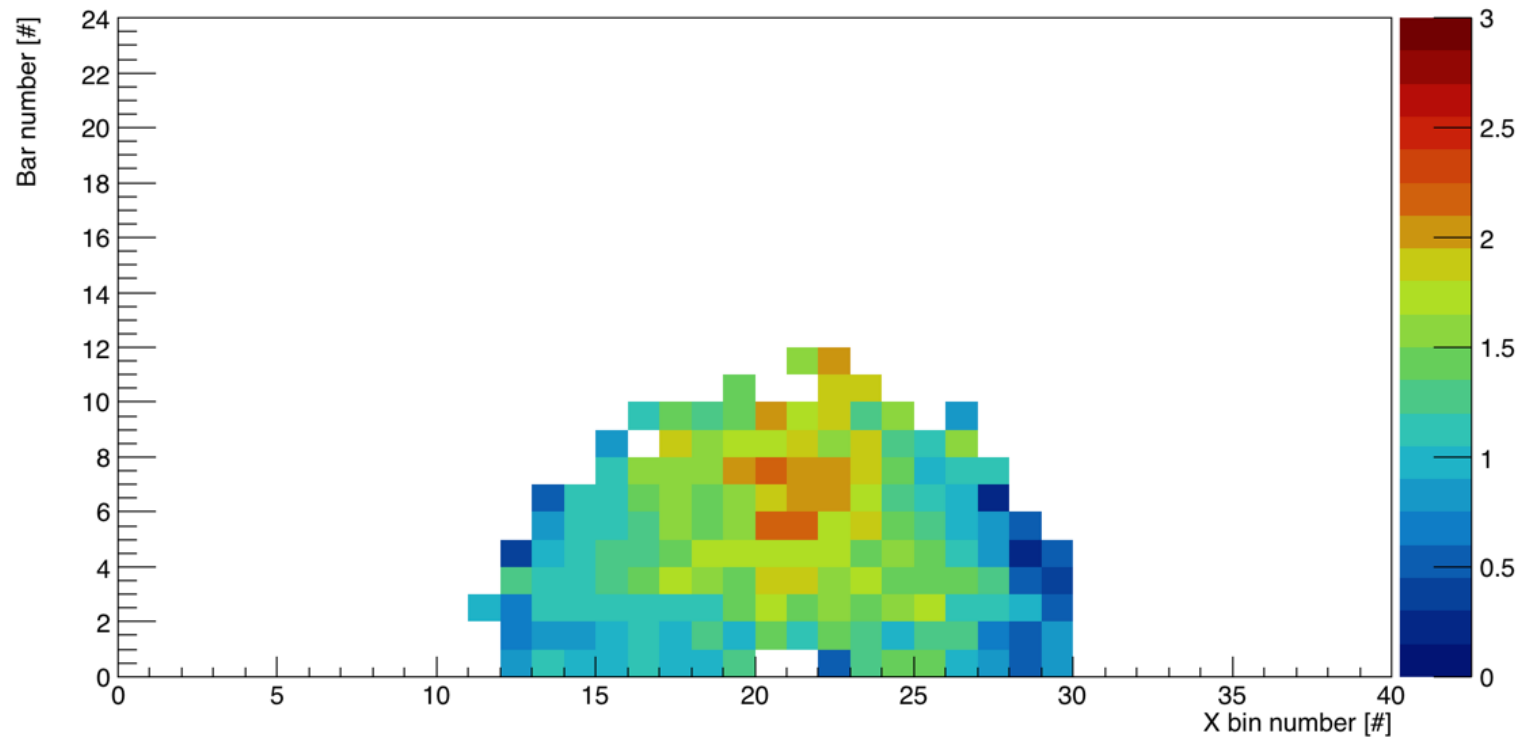
Separation power

π/K Separation @ Momentum [3.5 - 4.0] GeV/c



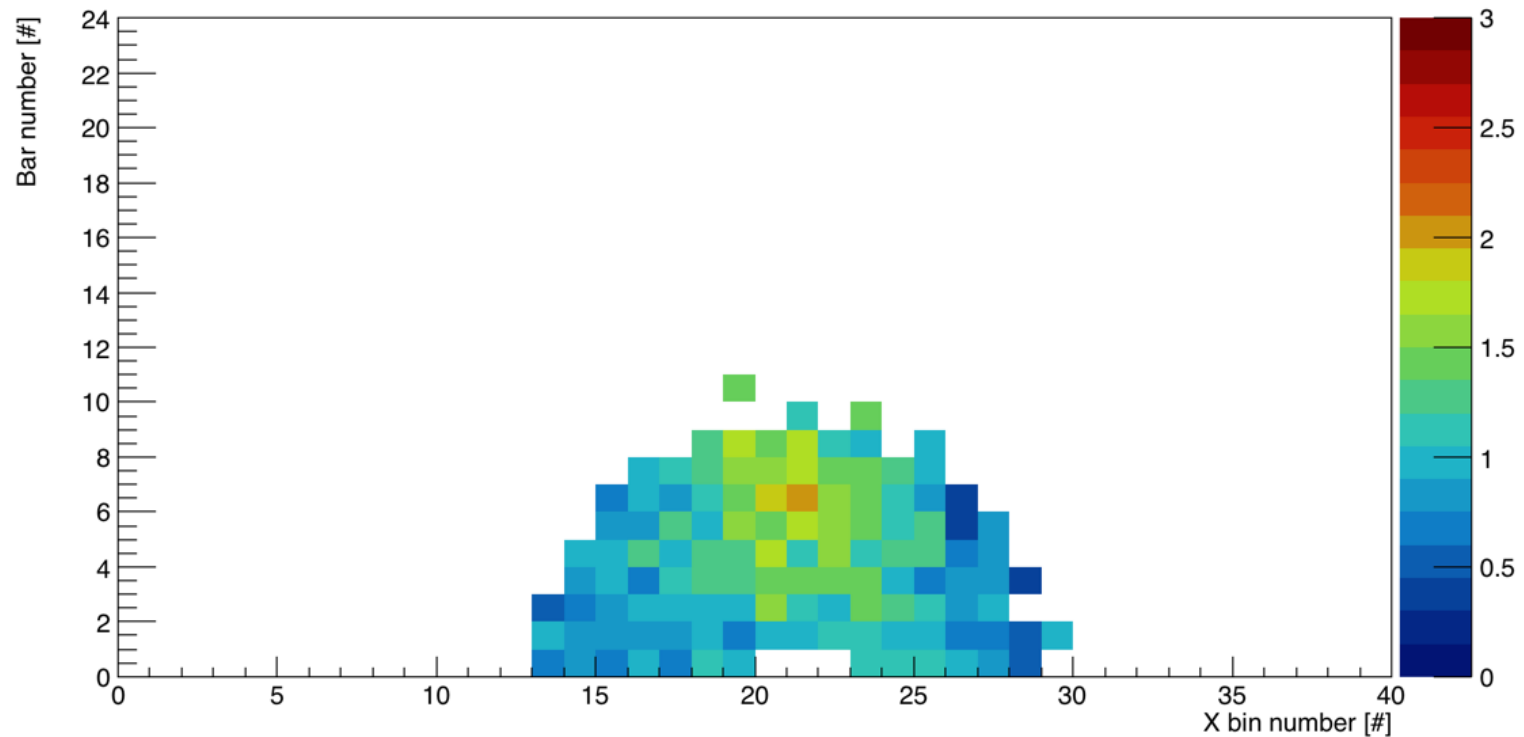
Separation power

π/K Separation @ Momentum [4.0 - 4.5] GeV/c



Separation power

π/K Separation @ Momentum [4.5 - 5.0] GeV/c



Separation power

π/K Separation @ Momentum [5.0 - 5.5] GeV/c

