



# GlueX DIRC Commissioning Analyses

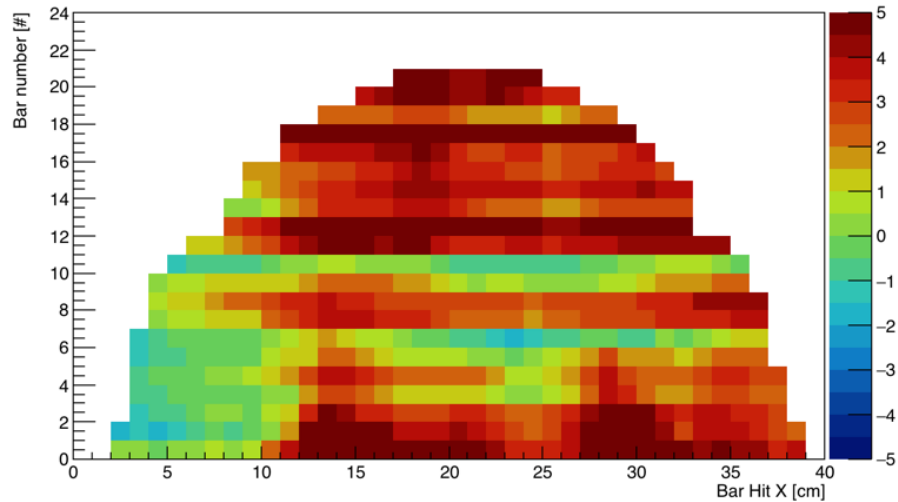
A.A

23 Jul 2019

GLueX DIRC Meeting

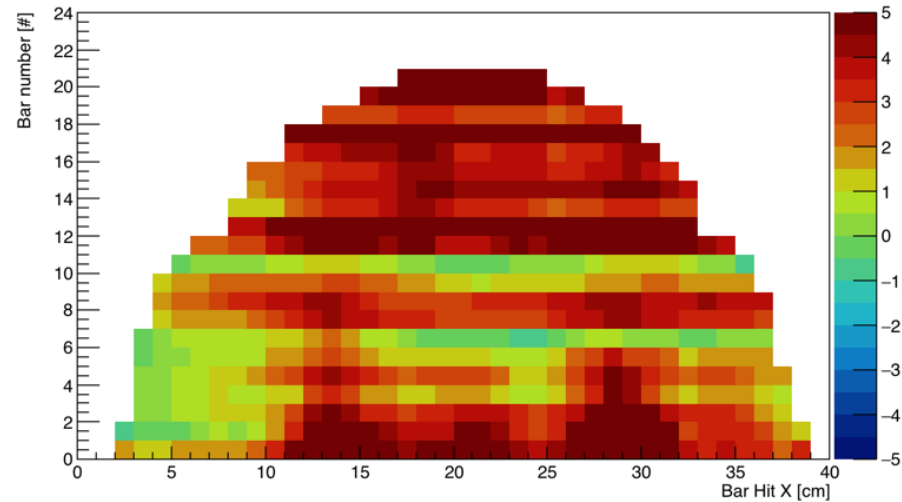
# Shift Survey Correction Study

$\theta_c$  Shift [mrad]



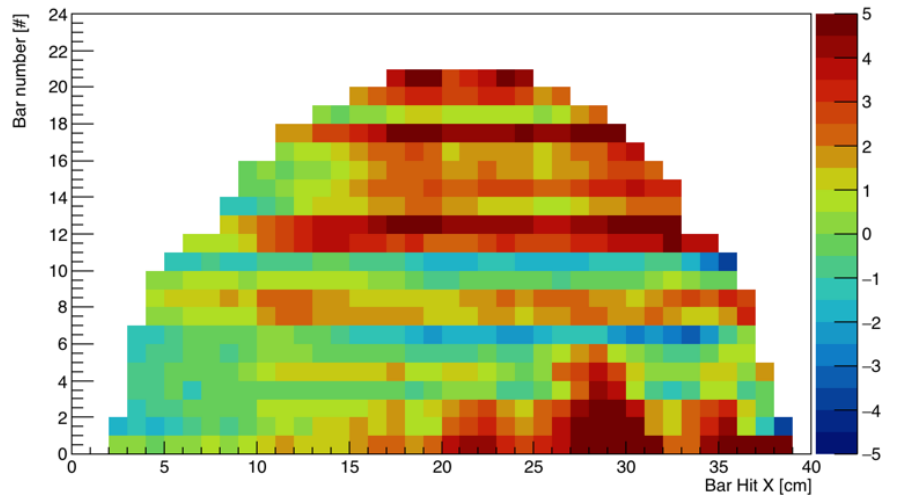
without correction

$\theta_c$  Shift [mrad]

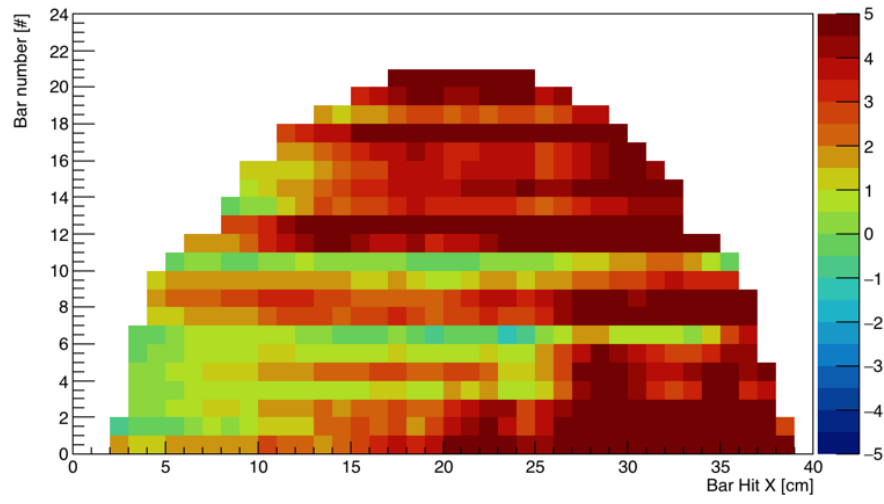


survey correction

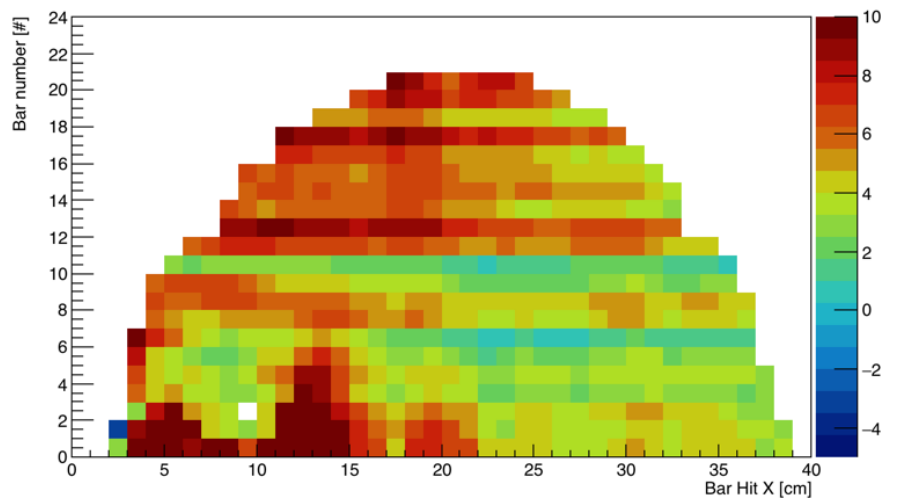
$\theta_c$  Shift Direct Photons [mrad]



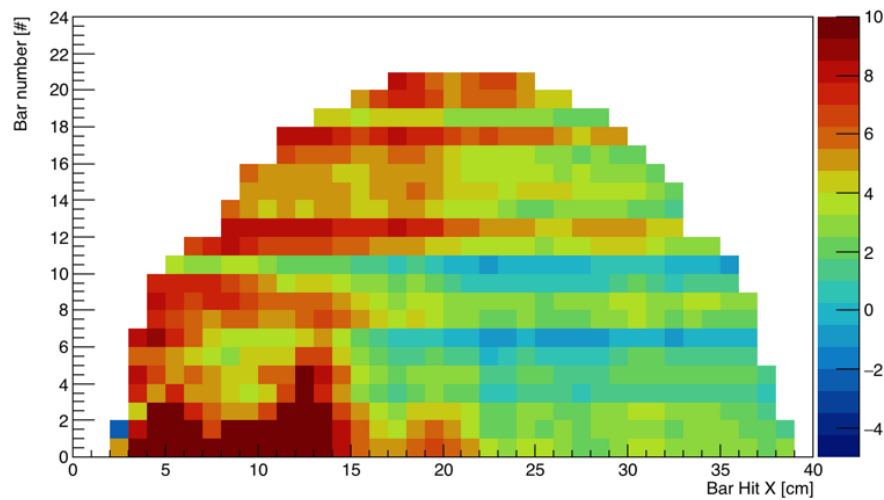
$\theta_c$  Shift Direct Photons [mrad]



$\theta_c$  Shift Reflected Photons [mrad]



$\theta_c$  Shift Reflected Photons [mrad]

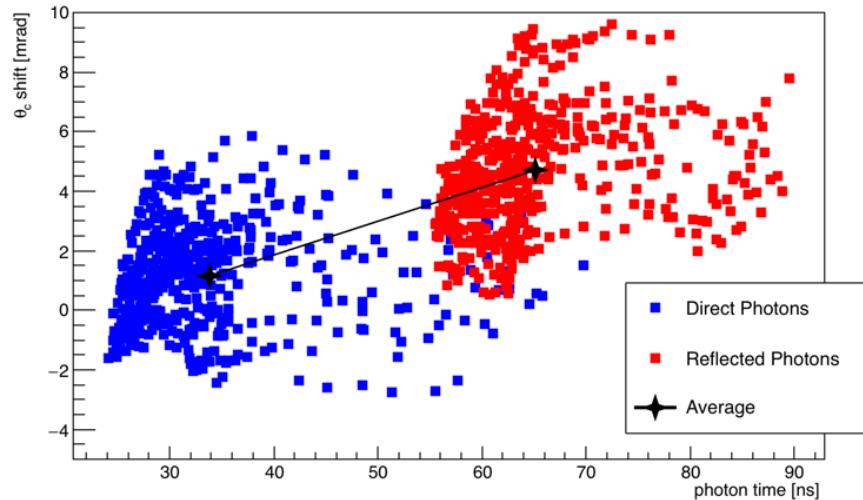


without correction

survey correction

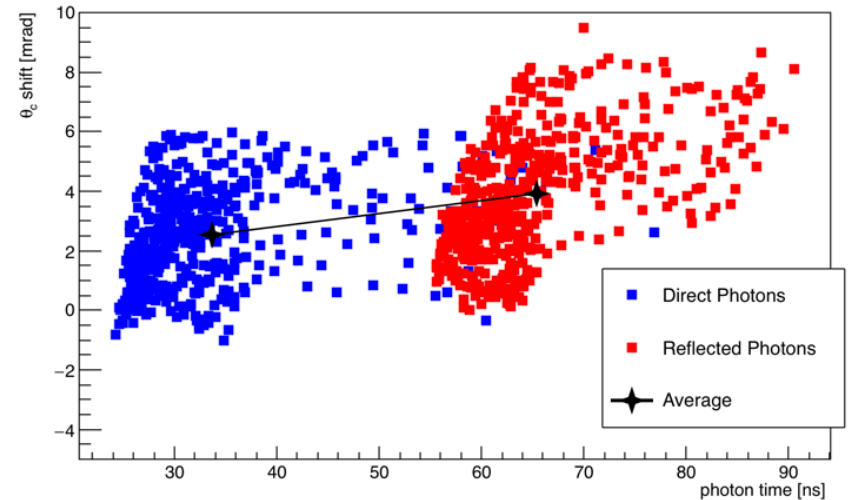
# Cherenkov Shift vs photon time

correlation between cherenkove shift and photon time



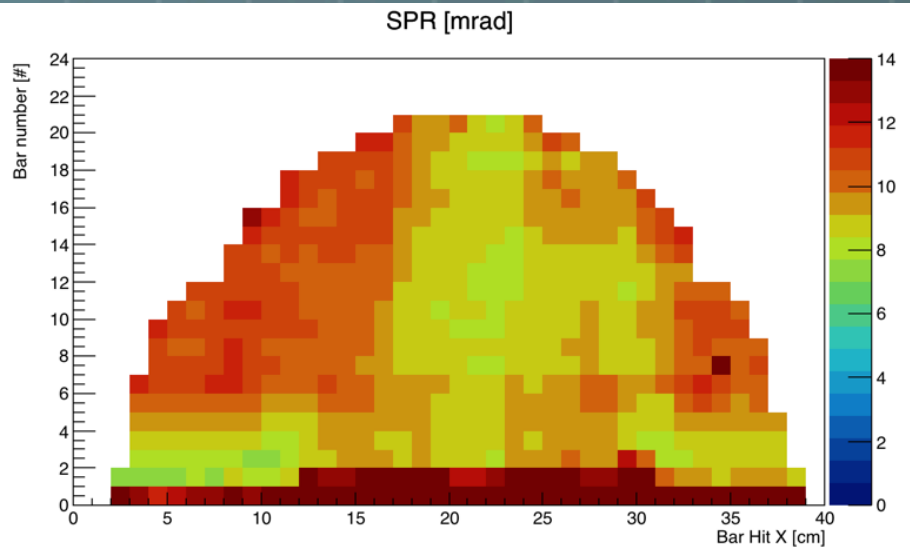
without correction

correlation between cherenkove shift and photon time

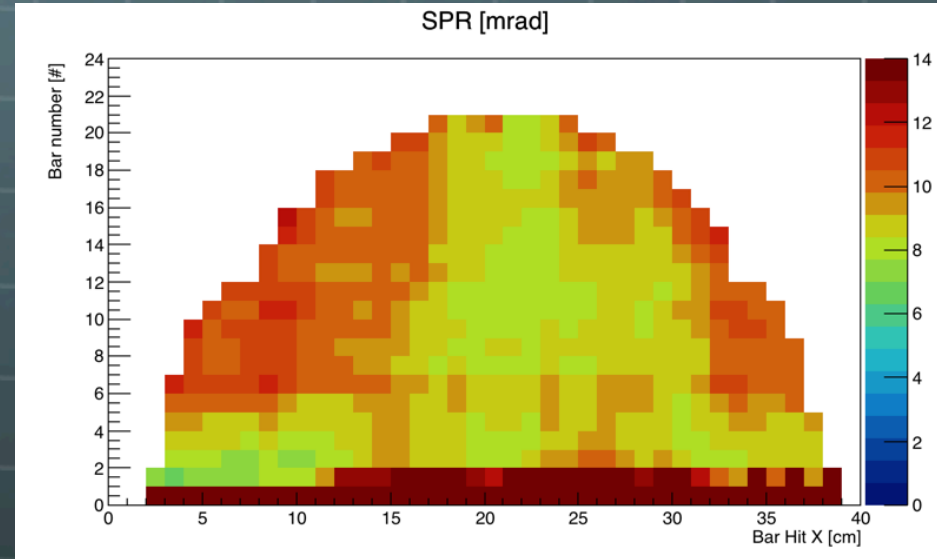


survey correction

# SPR Survey Correction Study

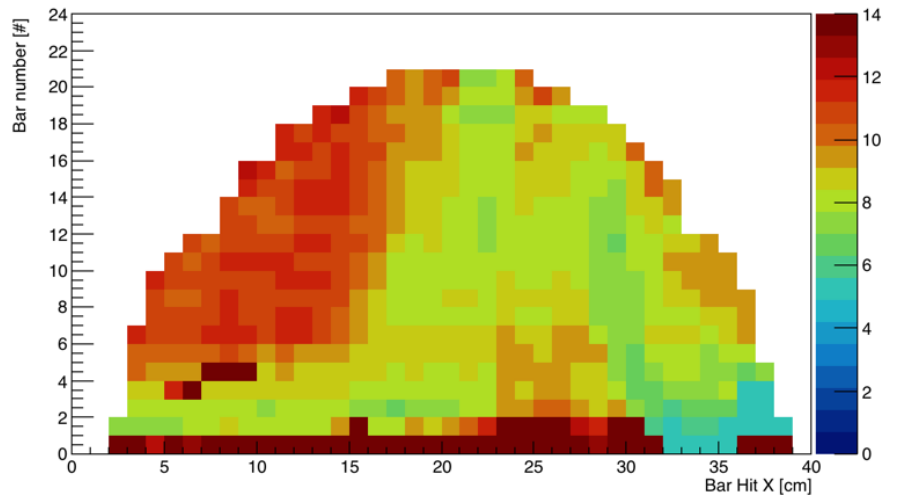


without correction

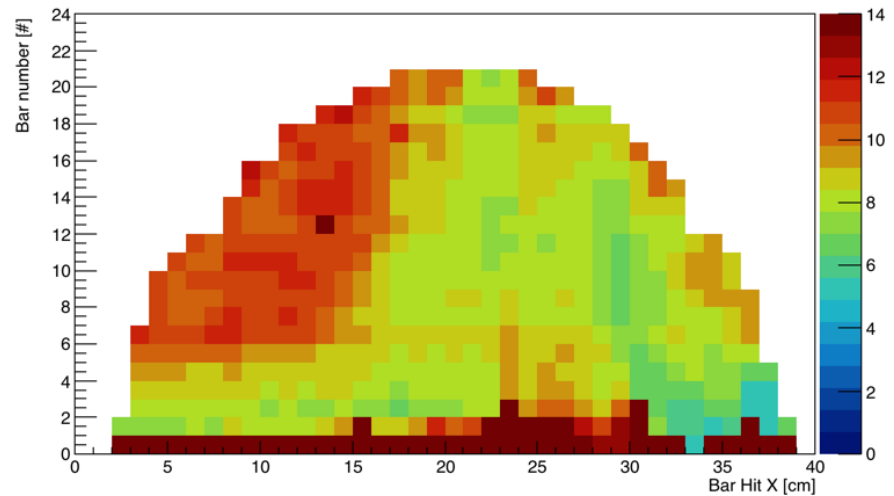


survey correction

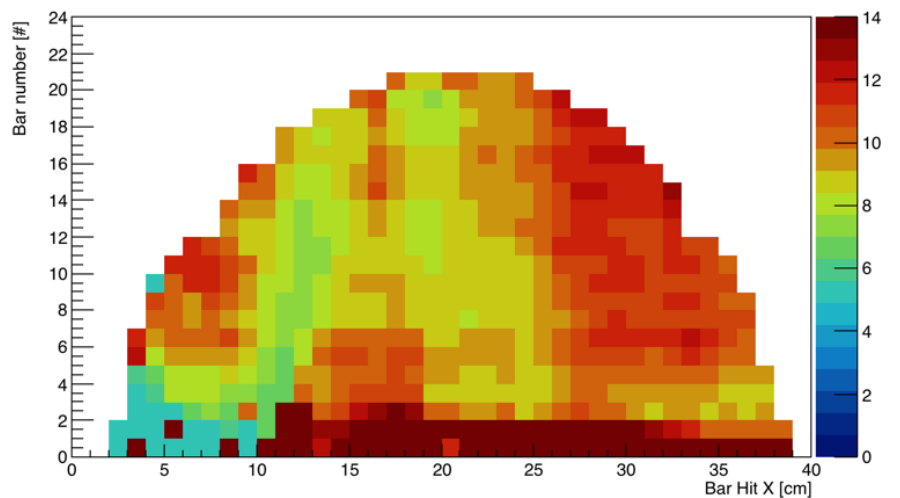
SPR Direct Photons [mrad]



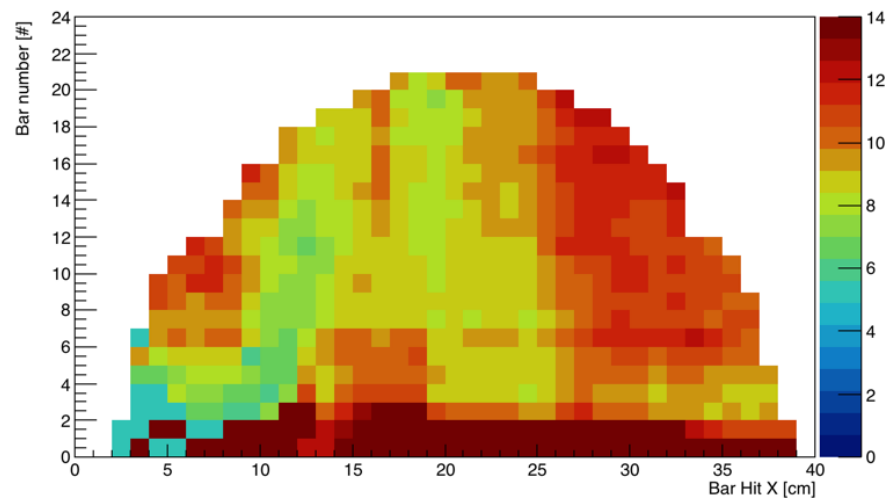
SPR Direct Photons [mrad]



SPR Reflected Photons [mrad]



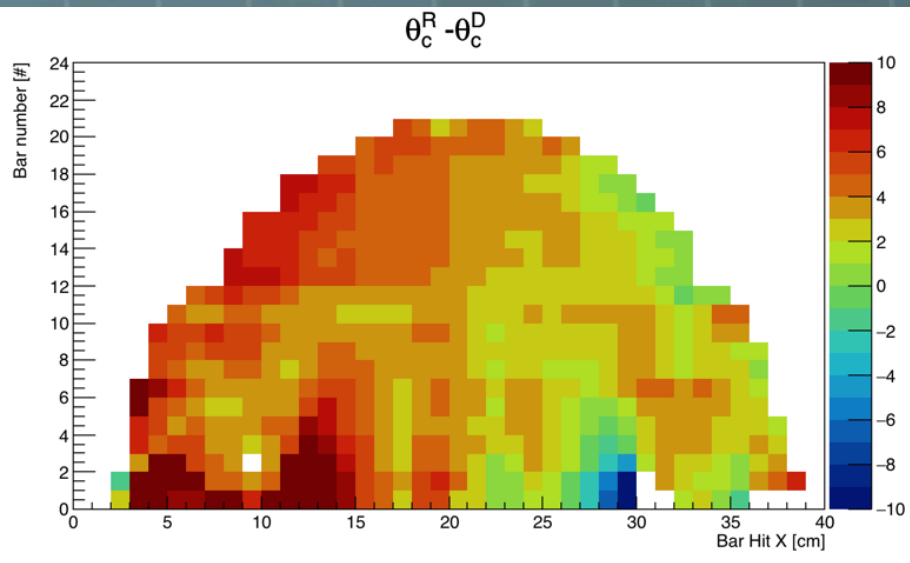
SPR Reflected Photons [mrad]



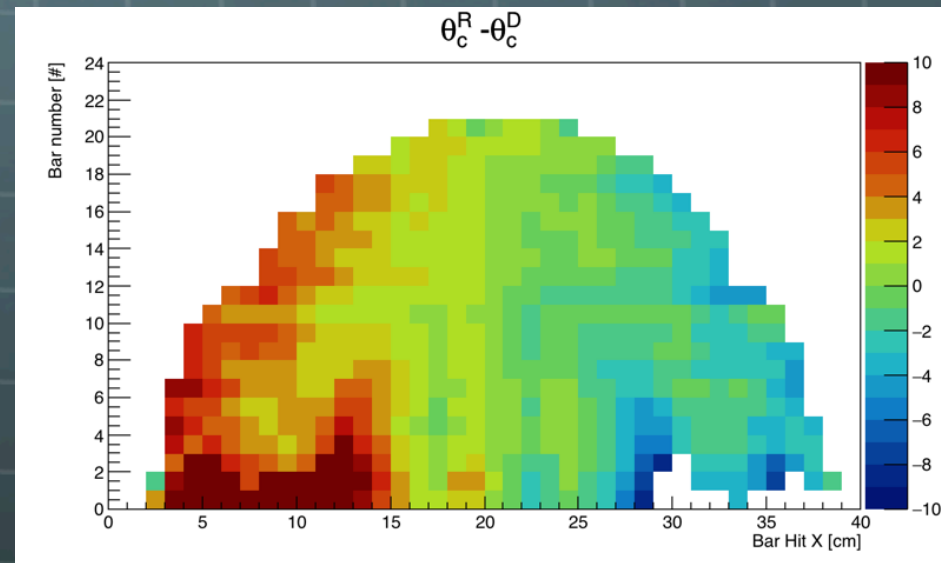
without correction

survey correction

# Cherenkov Reflected - Direct



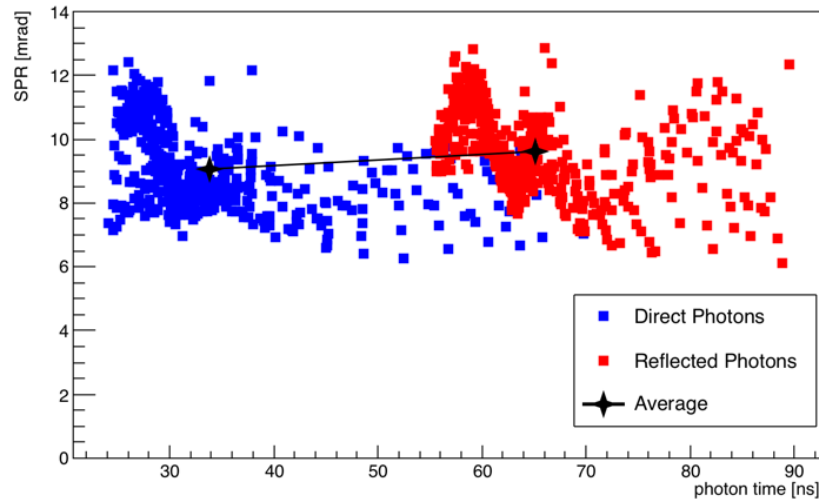
without correction



survey correction

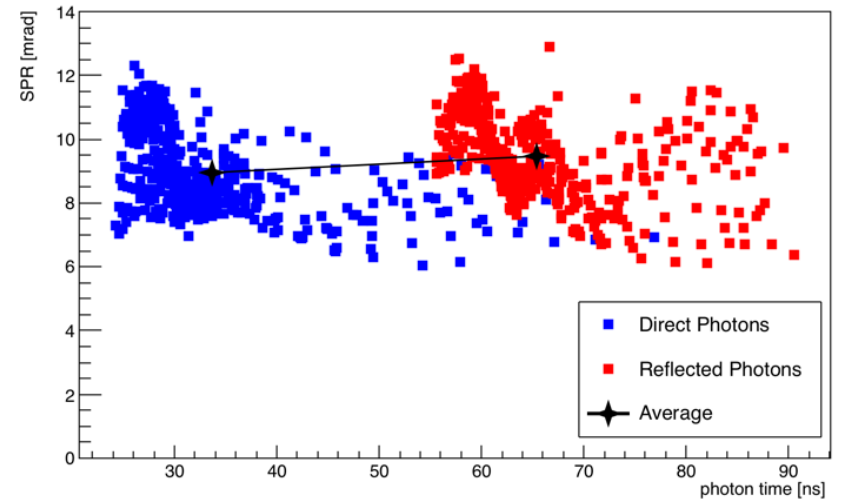
# SPR & Photon Time

correlation between SPR and photon time



without correction

correlation between SPR and photon time

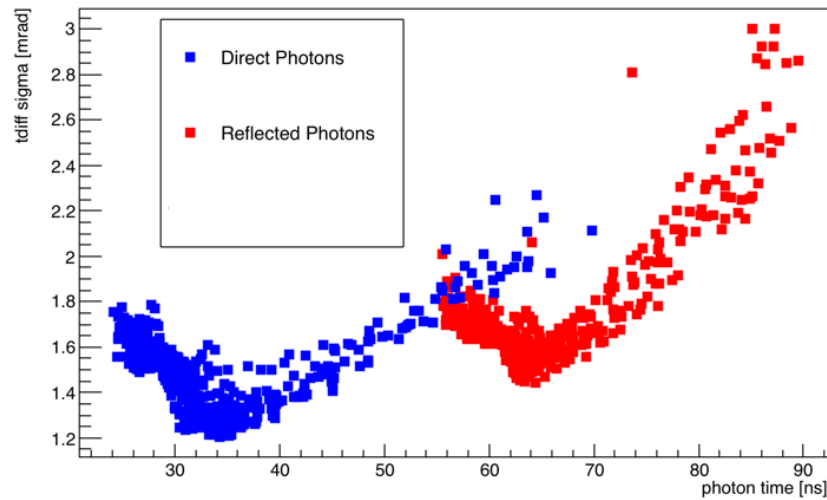


survey correction



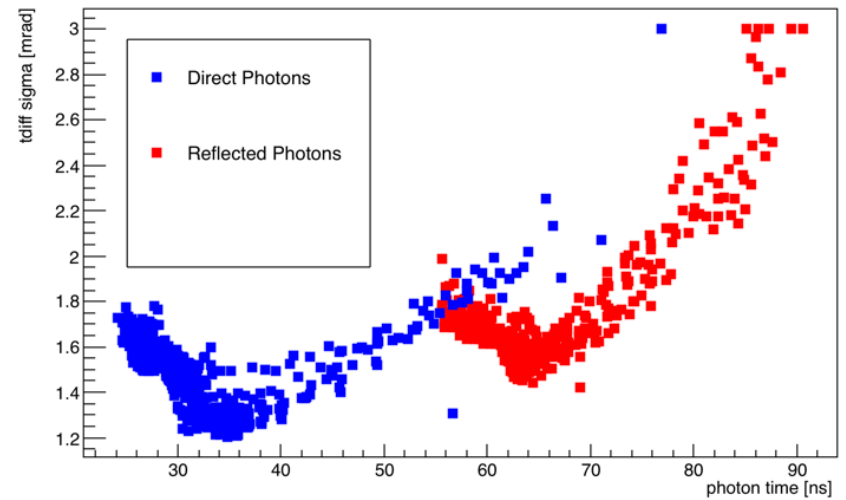
# Time Difference Sigma vs Photon Time

correlation between tdiff sigma and photon time



without correction

correlation between tdiff sigma and photon time

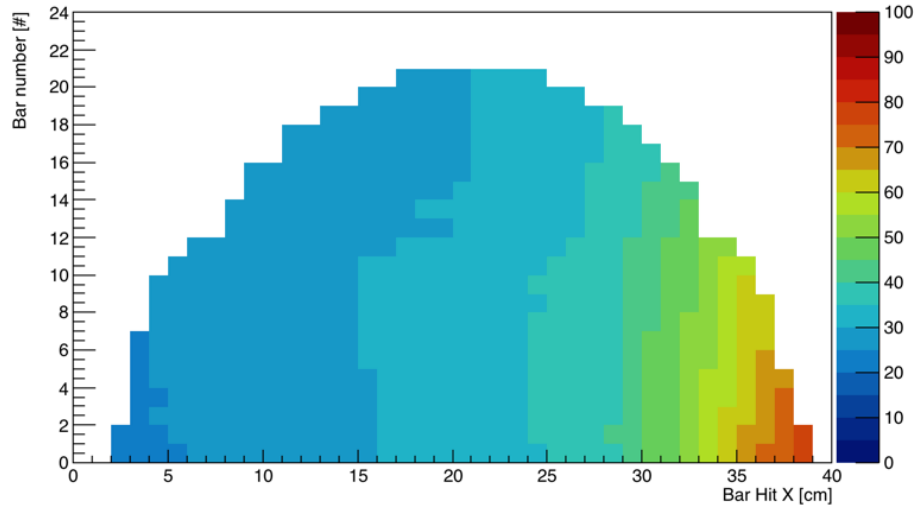


survey correction

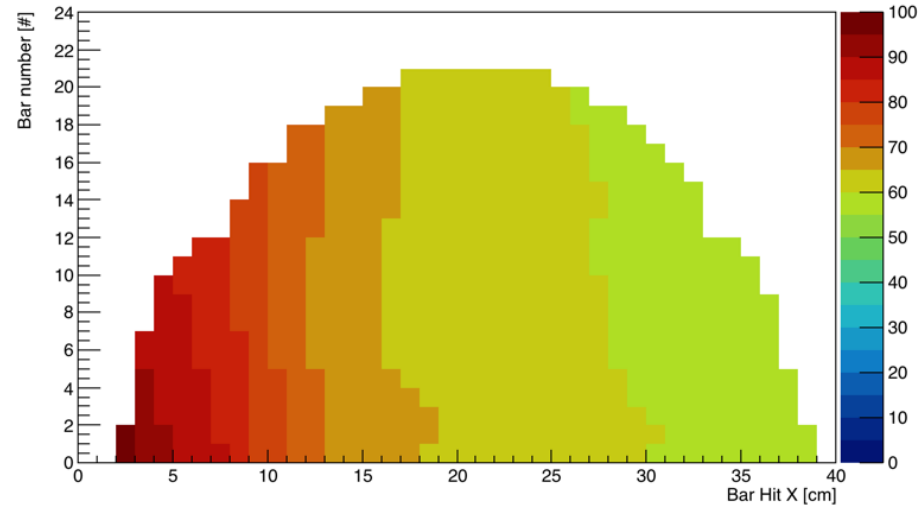
# Backup Slides

# Photon Time

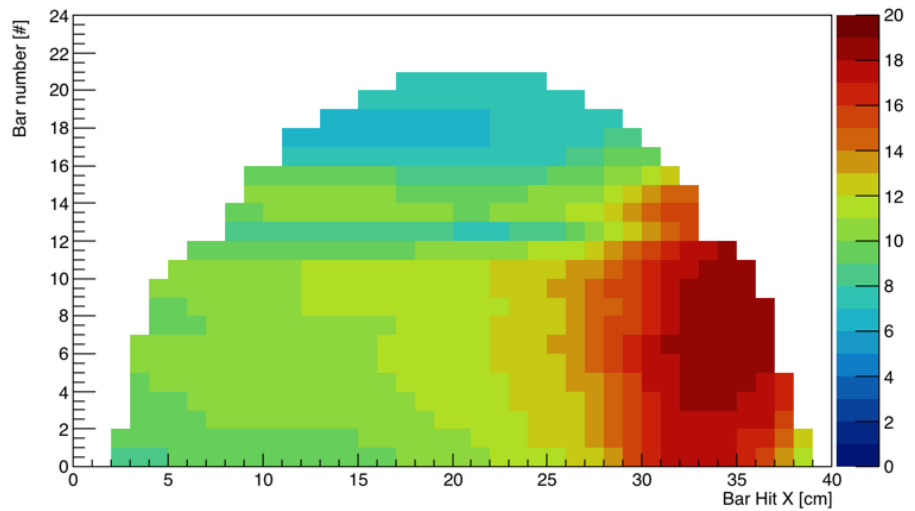
Time Spectrum Mean Direct Photons [ns]



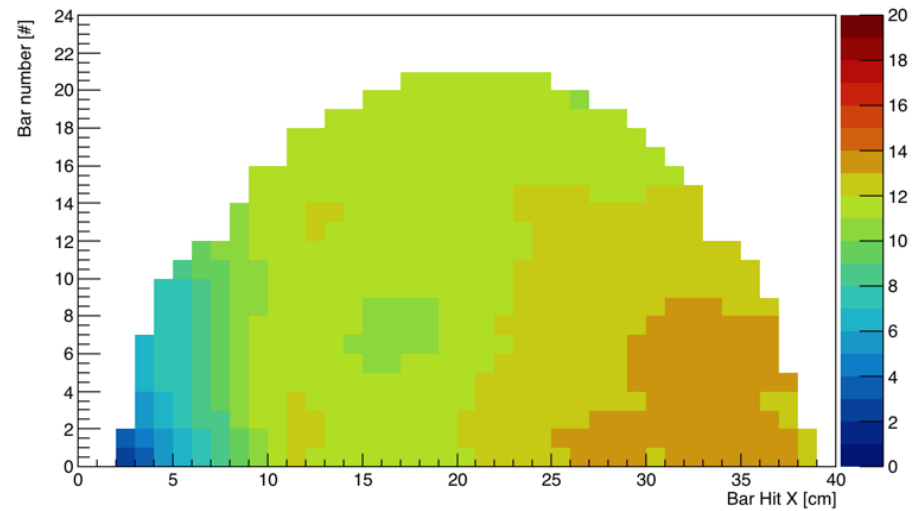
Time Spectrum Mean Reflected Photons [ns]



Time Spectrum RMS Direct Photons [ns]



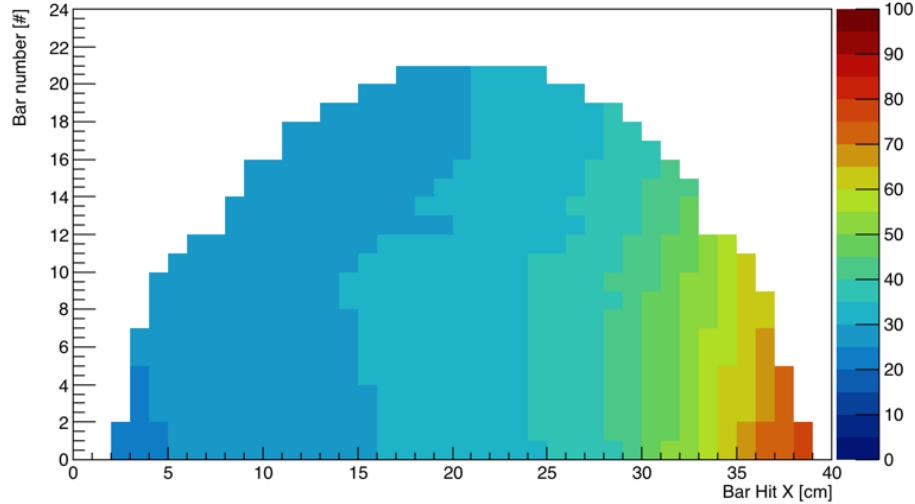
Time Spectrum RMS Reflected Photons [ns]



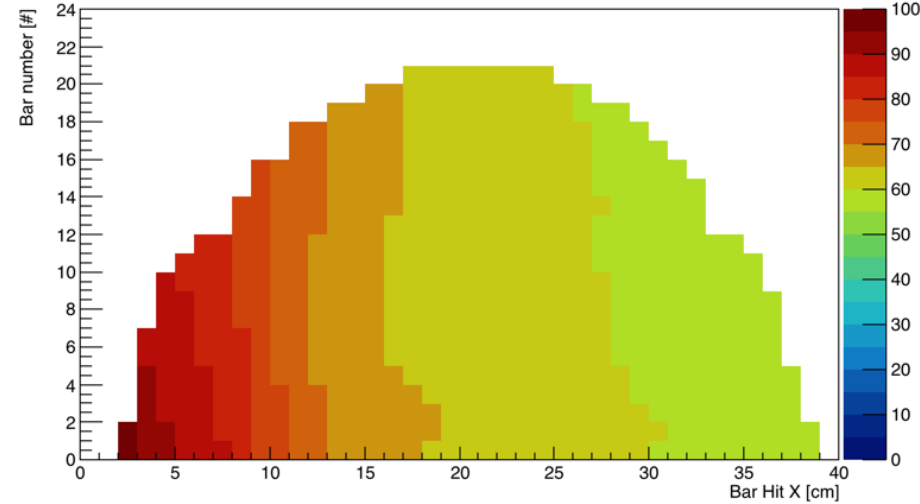
without correction

# Photon Time

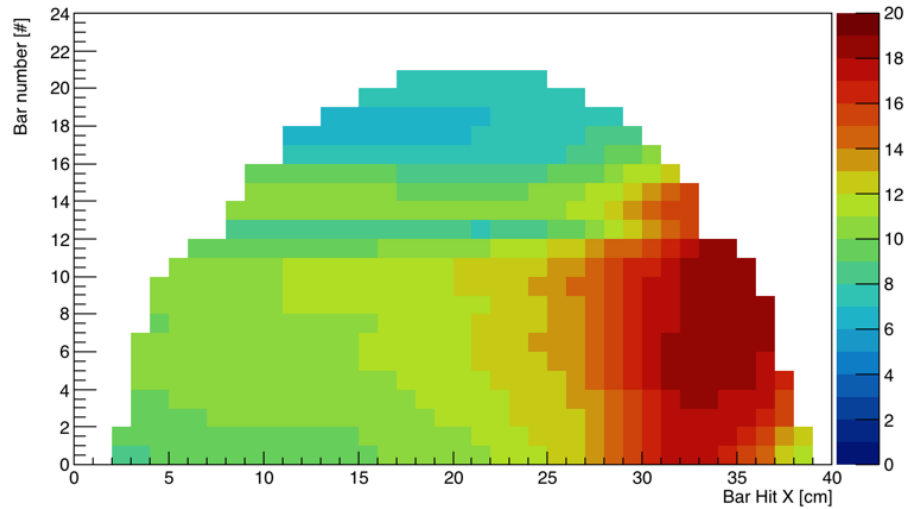
Time Spectrum Mean Direct Photons [ns]



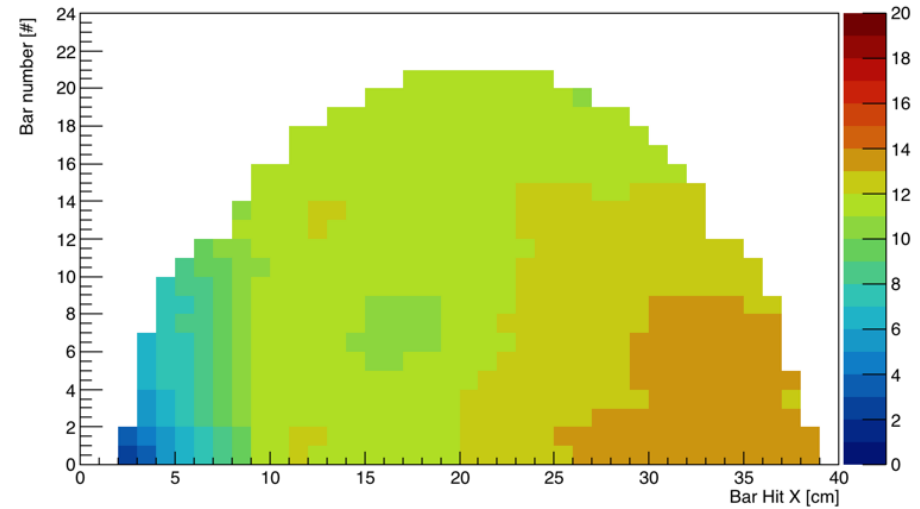
Time Spectrum Mean Reflected Photons [ns]



Time Spectrum RMS Direct Photons [ns]



Time Spectrum RMS Reflected Photons [ns]



Survey correction