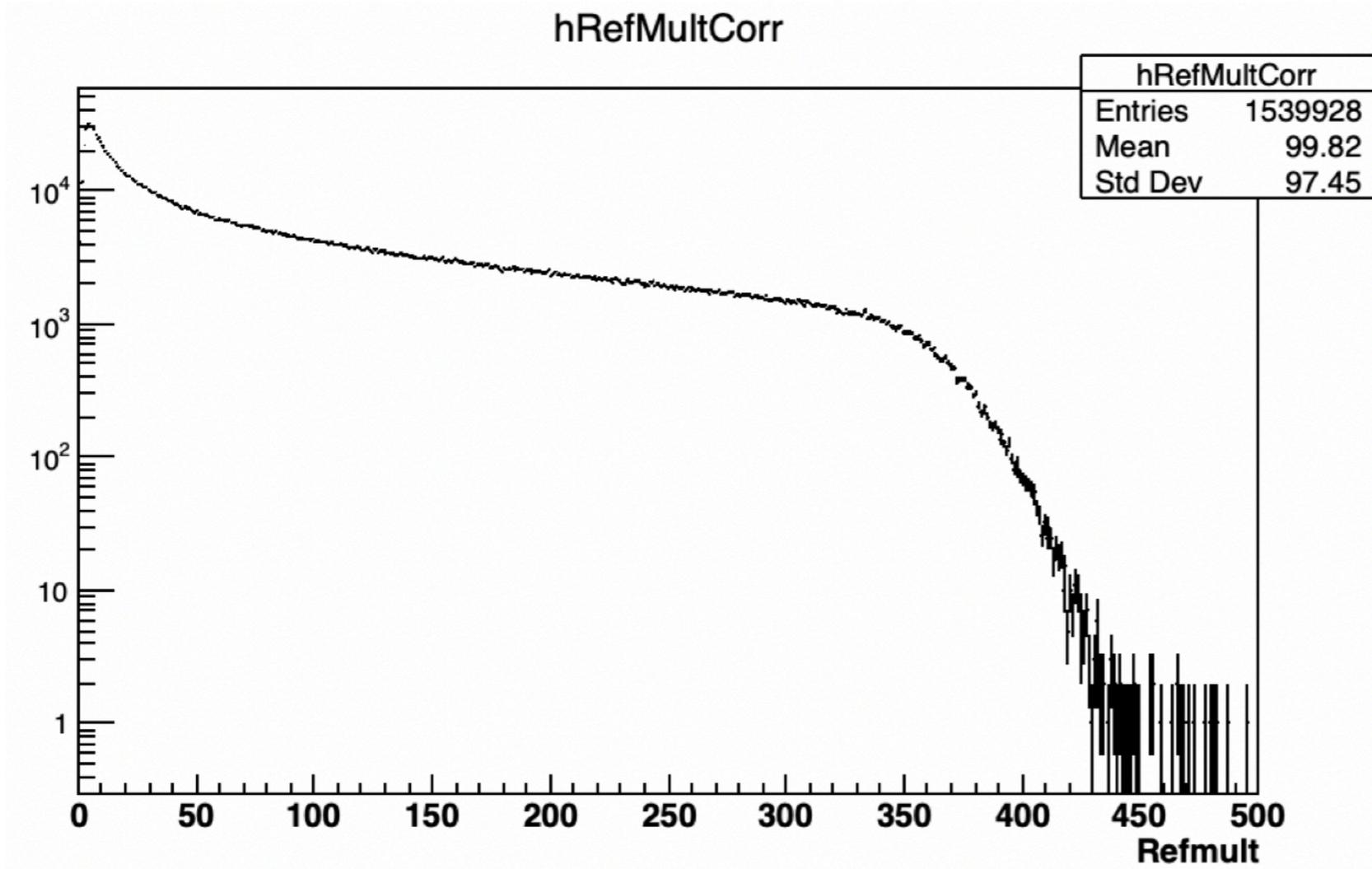
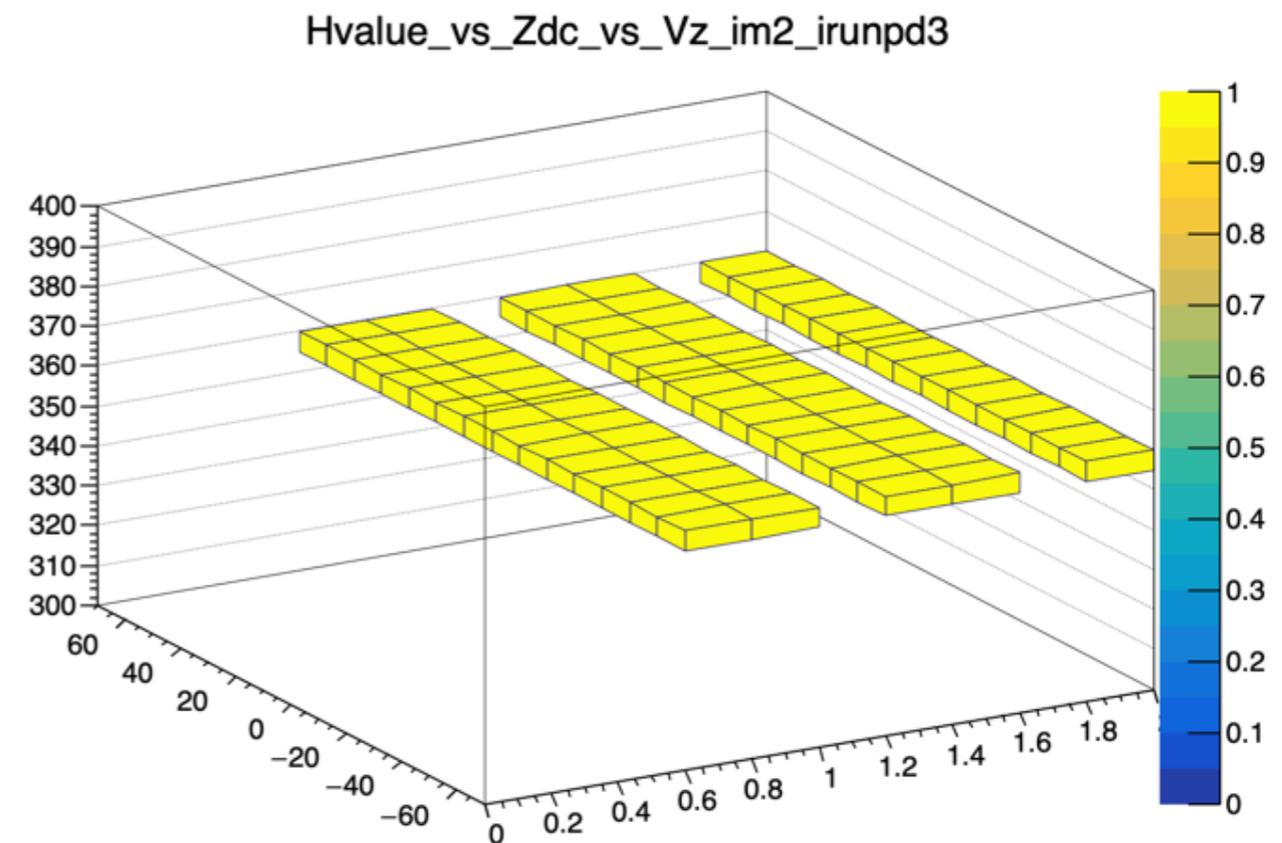
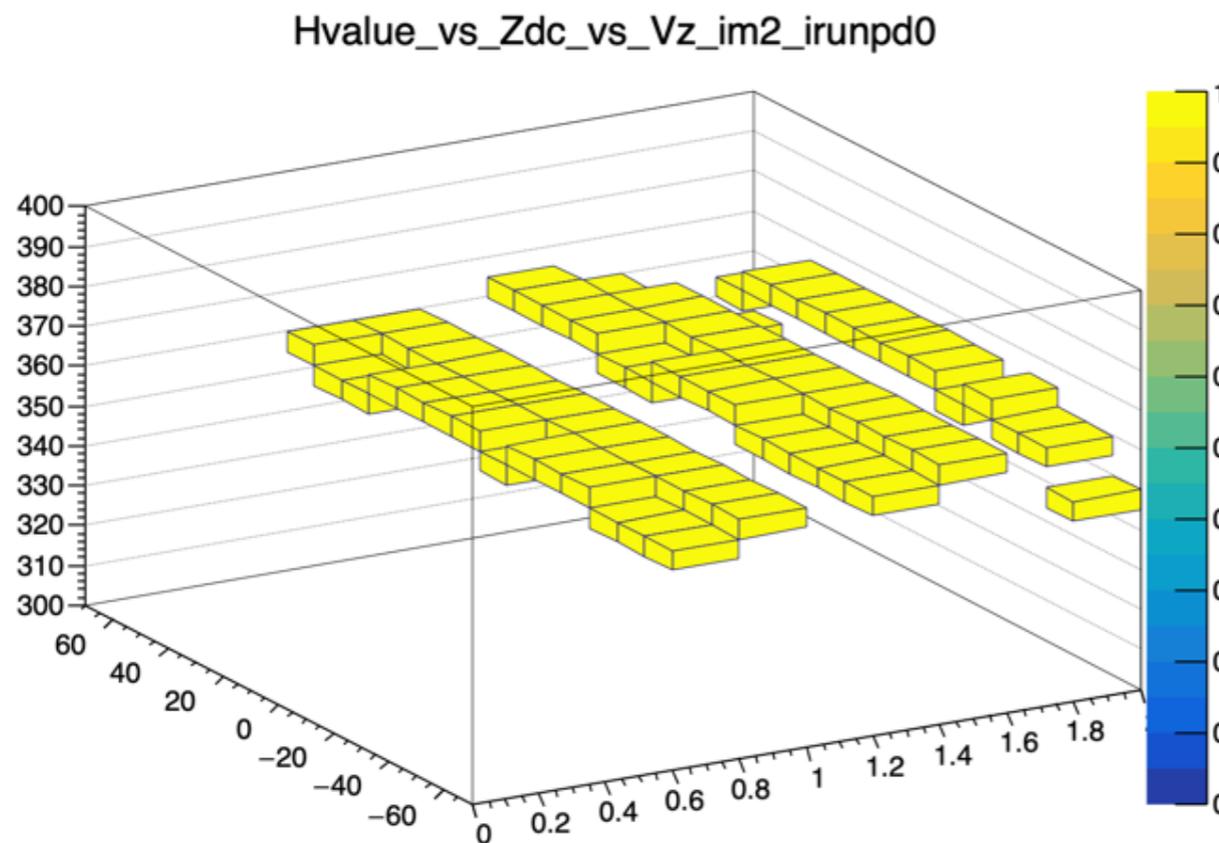


**AuAu 27 GeV Run18,
refmult h value dependence
on luminosity and vertex**

Yiding Han(Rice University)



$$f(\text{refmult}) = A * \text{erf}(-\sigma * (\text{refmult} - h)) + A$$



irun0: 19142027-19143017($1.28e+7$)

irun1:19144012-19144033(229143)

irun2: 19144036-19145031($1.1e+7$)

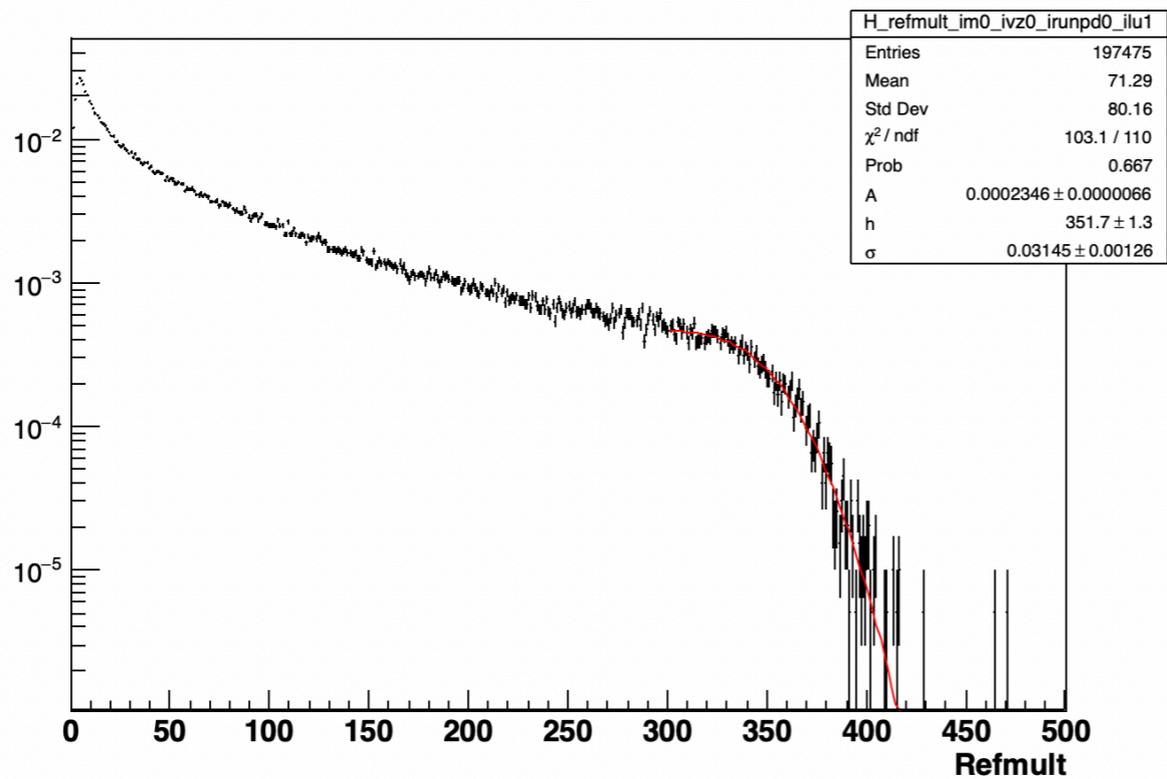
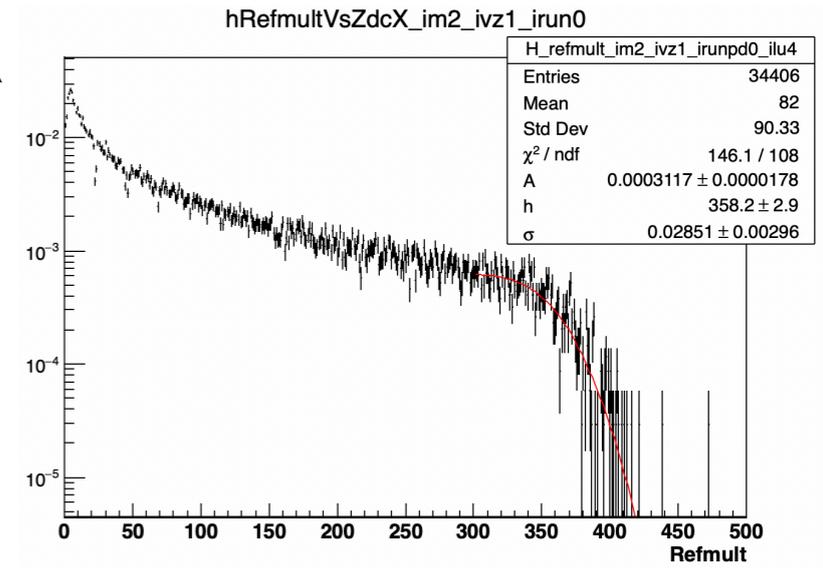
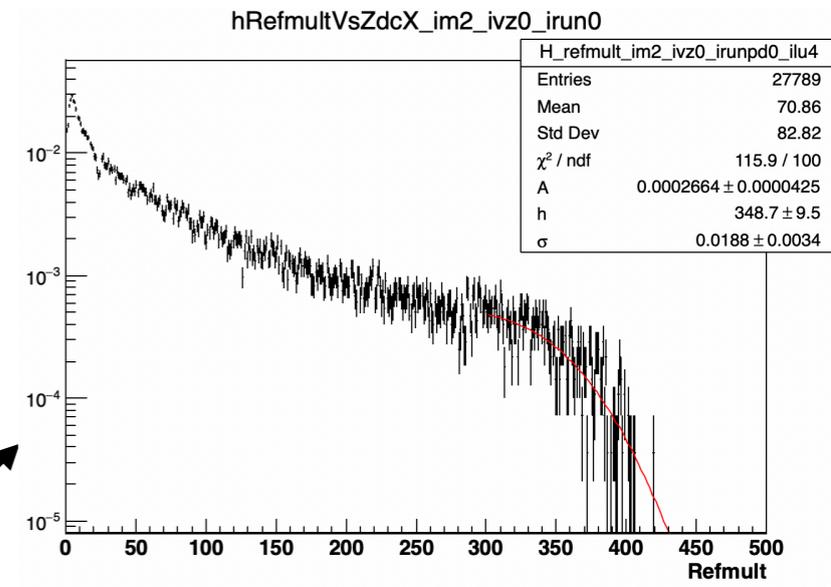
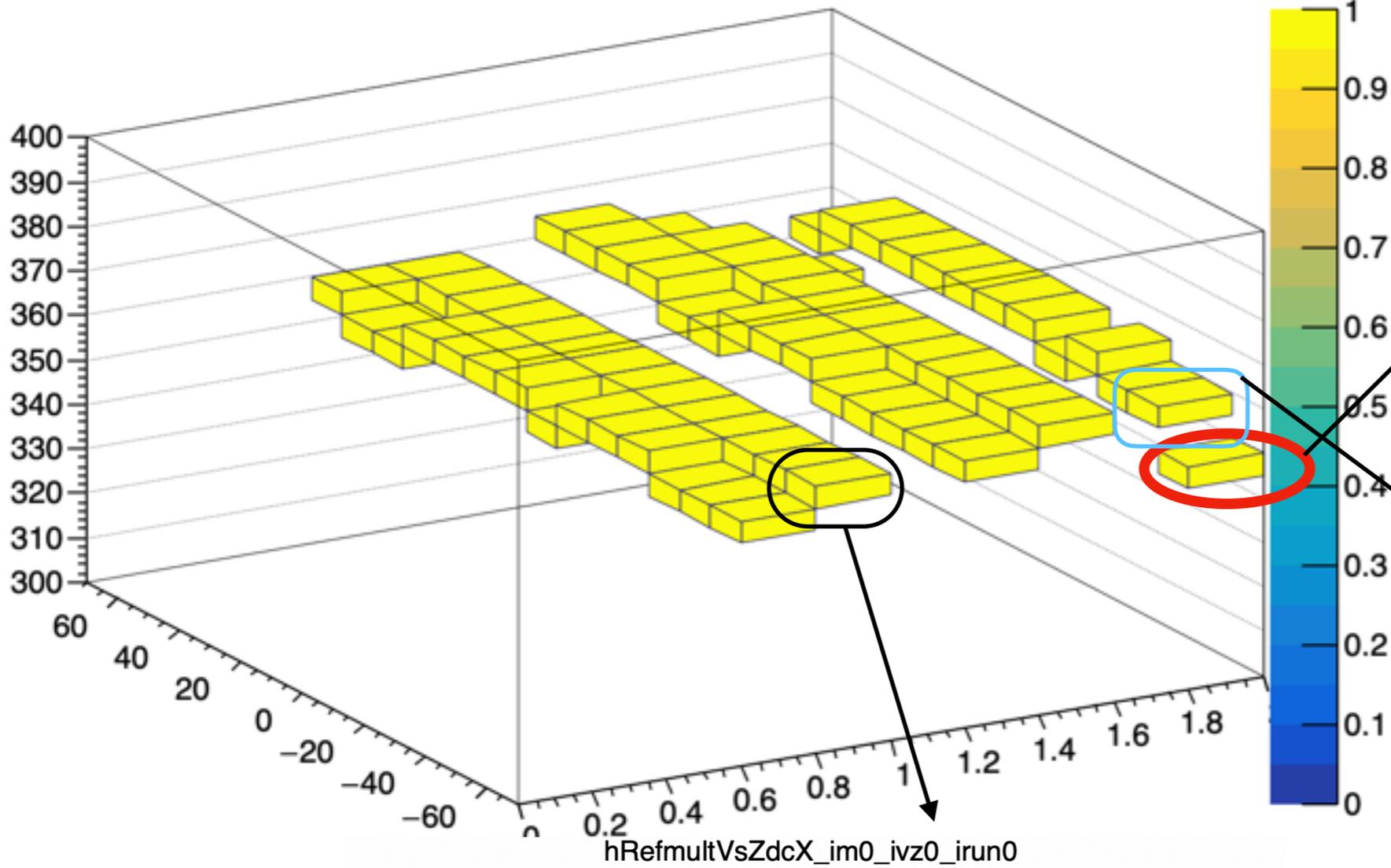
irun3:19145034-19168040($1.56e+8$)

im0: without any correction

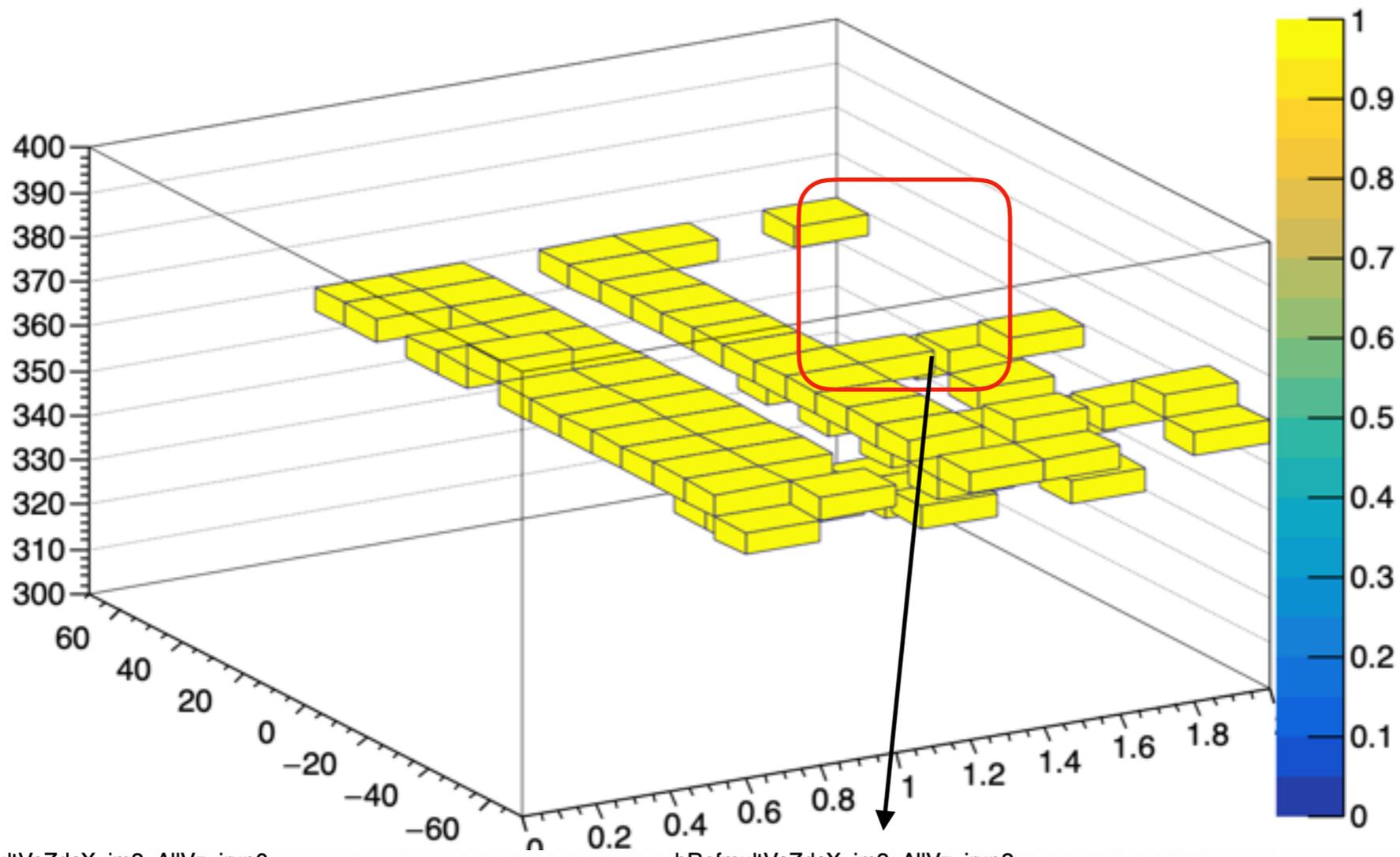
im1: with luminosity correction

im2:with luminosity and vertex correction

Hvalue_vs_Zdc_vs_Vz_im2_irunpd0



Hvalue_vs_Zdc_vs_Vz_im2_irunpd2



hRefmultVsZdcX_im2_AllVz_irun0

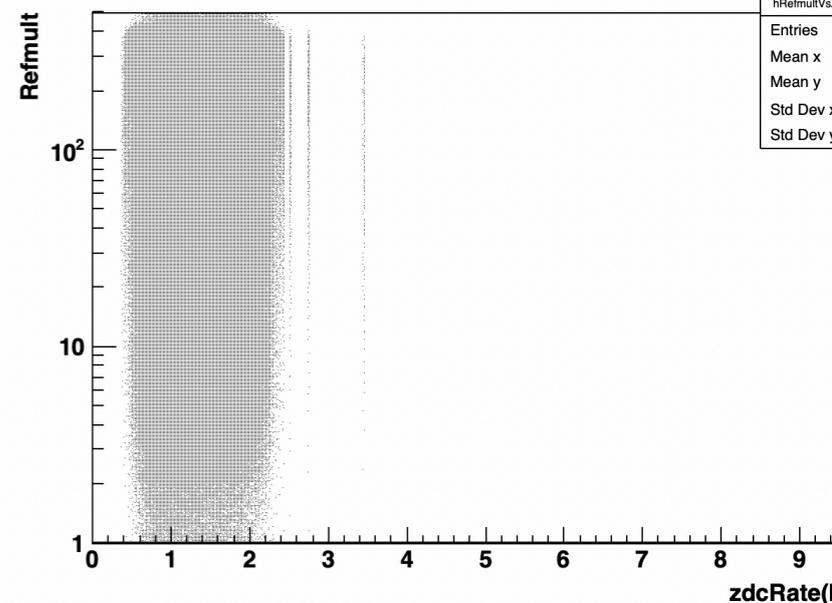
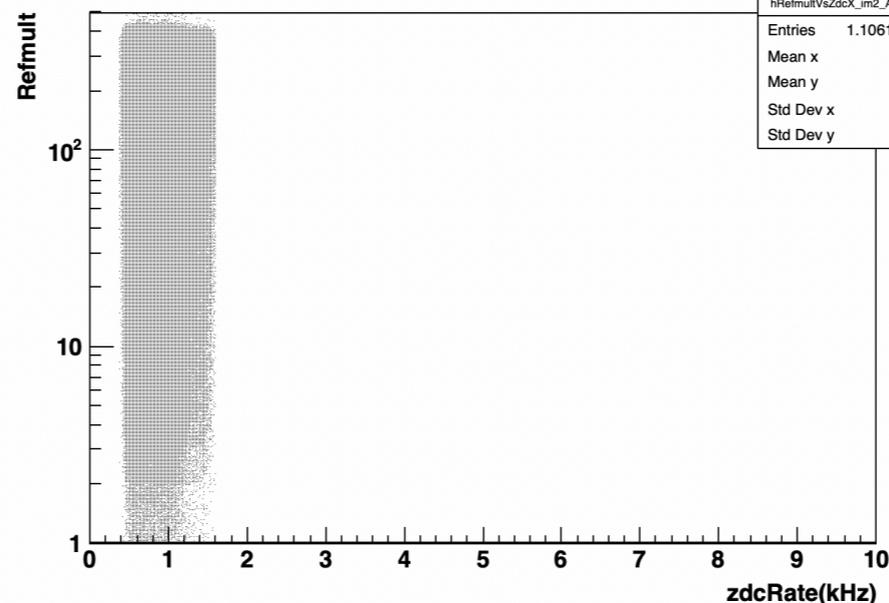
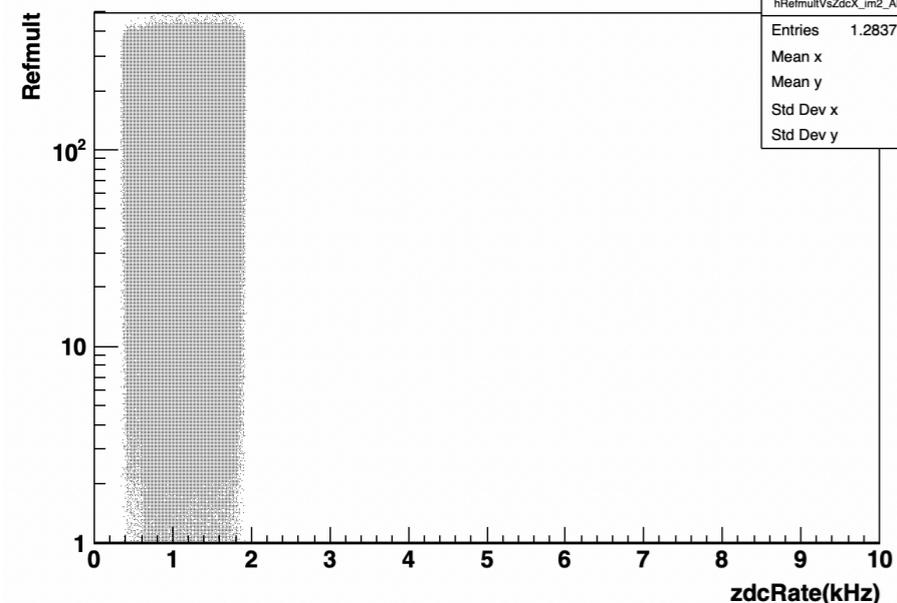
hRefmultVsZdcX_im2_AllVz_irun0	
Entries	1.283777e+07
Mean x	1.125
Mean y	92.13
Std Dev x	0.3362
Std Dev y	94.68

hRefmultVsZdcX_im2_AllVz_irun2

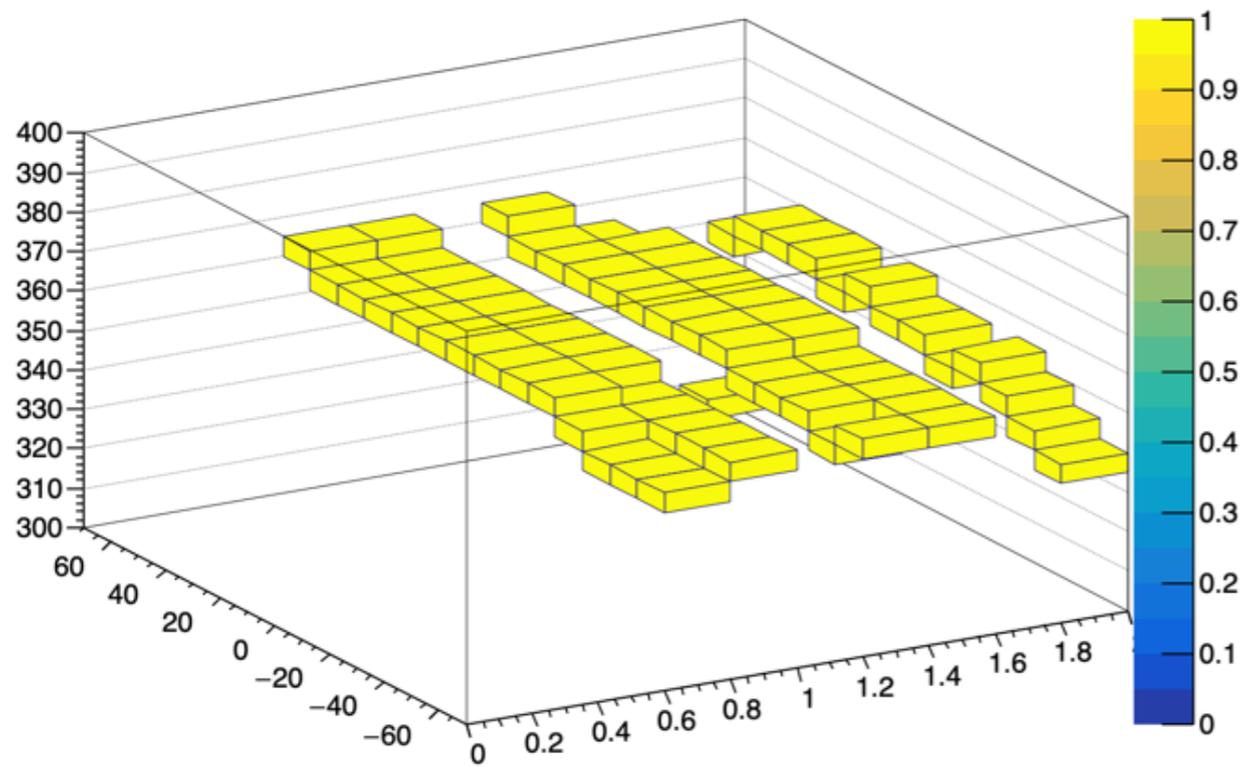
hRefmultVsZdcX_im2_AllVz_irun2	
Entries	1.106188e+07
Mean x	0.8308
Mean y	101.5
Std Dev x	0.2237
Std Dev y	96.7

hRefmultVsZdcX_im2_AllVz_irun3

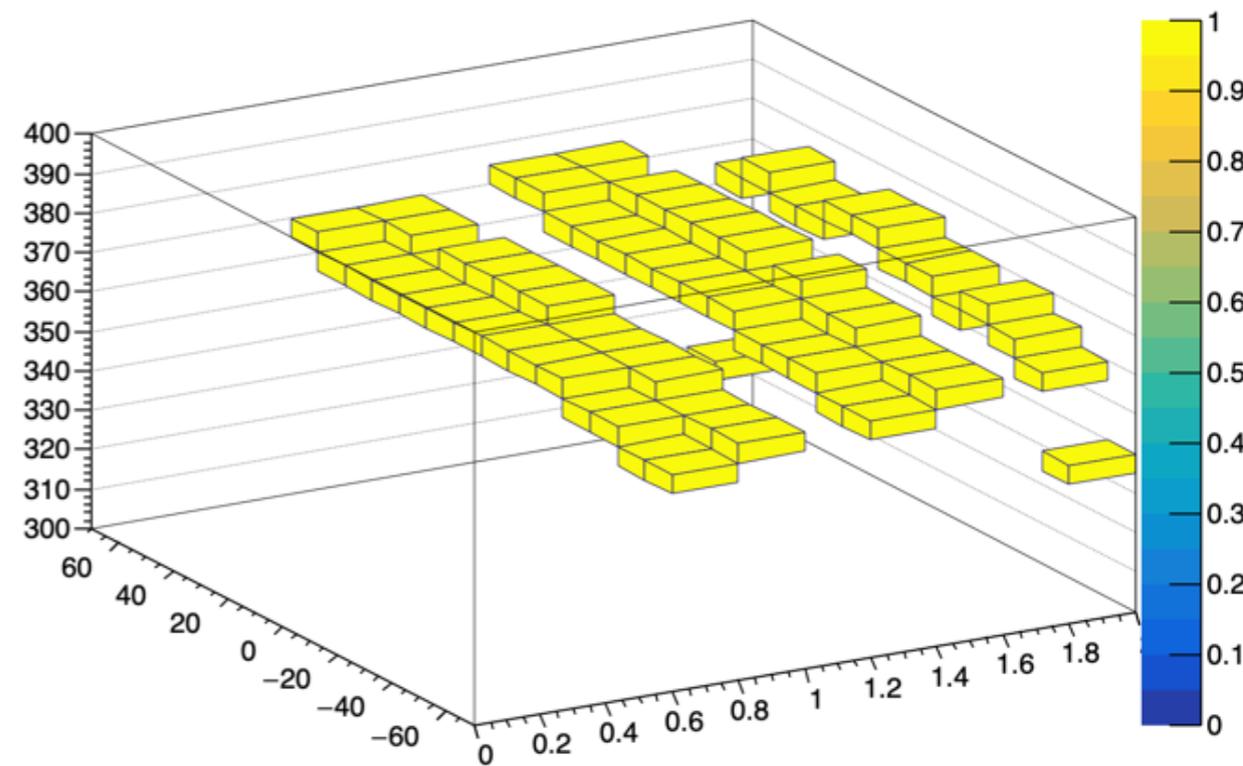
hRefmultVsZdcX_im2_AllVz_irun3	
Entries	
Mean x	
Mean y	
Std Dev x	
Std Dev y	



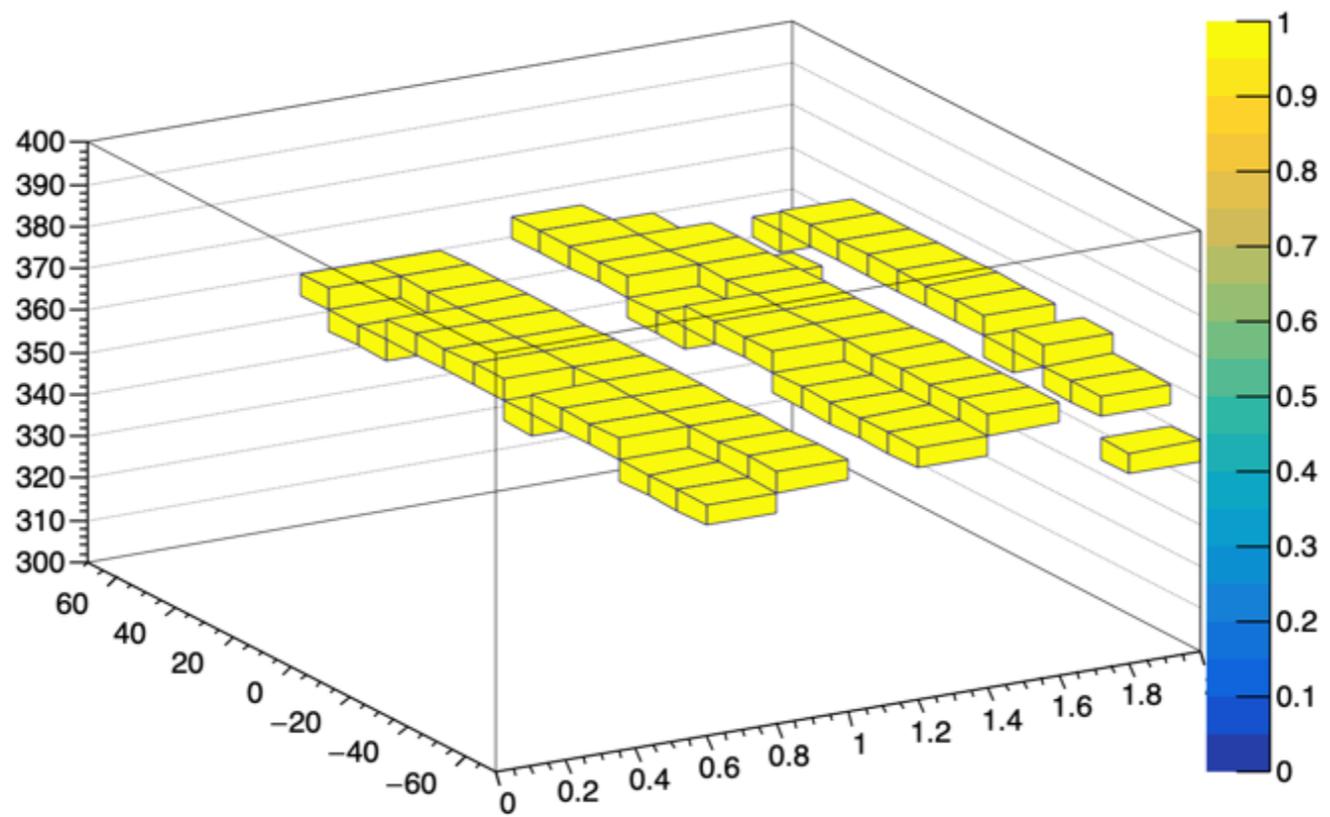
Hvalue_vs_Zdc_vs_Vz_im0_irunpd0



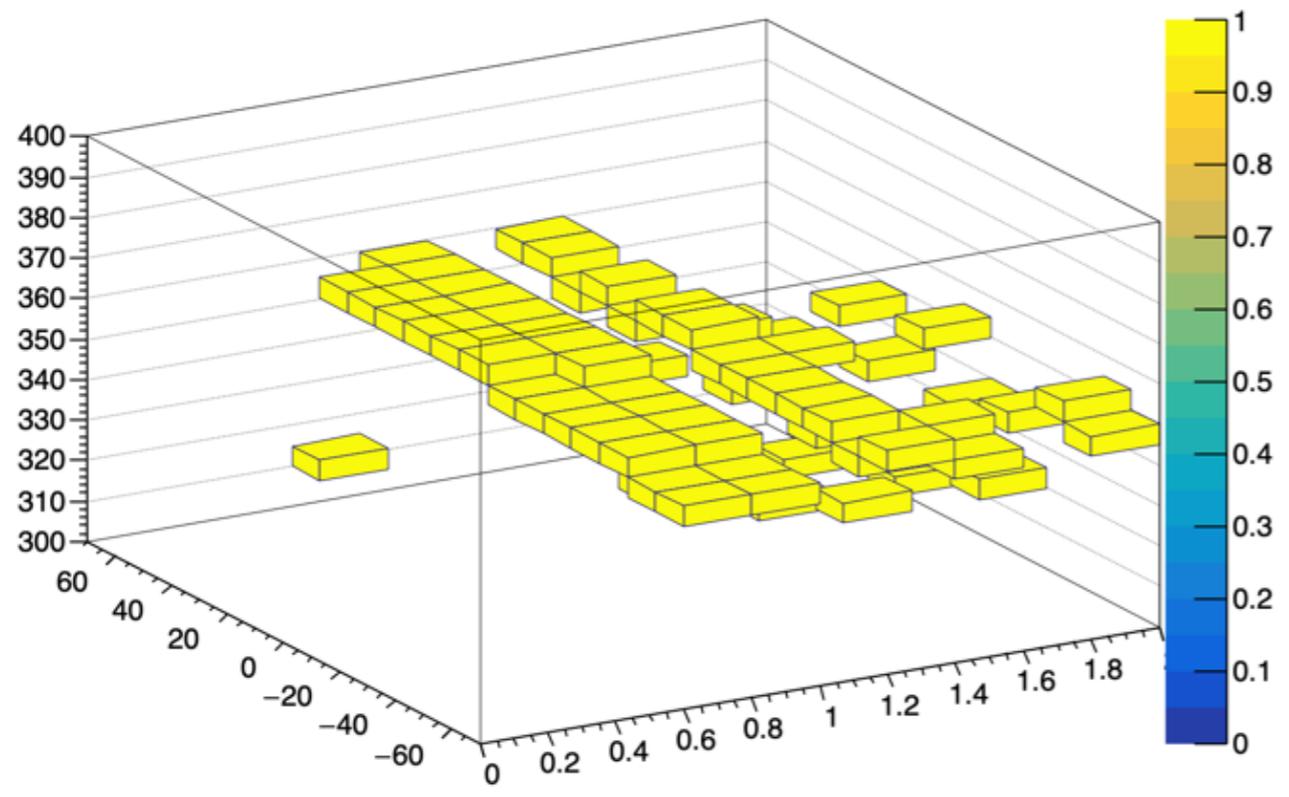
Hvalue_vs_Zdc_vs_Vz_im1_irunpd0



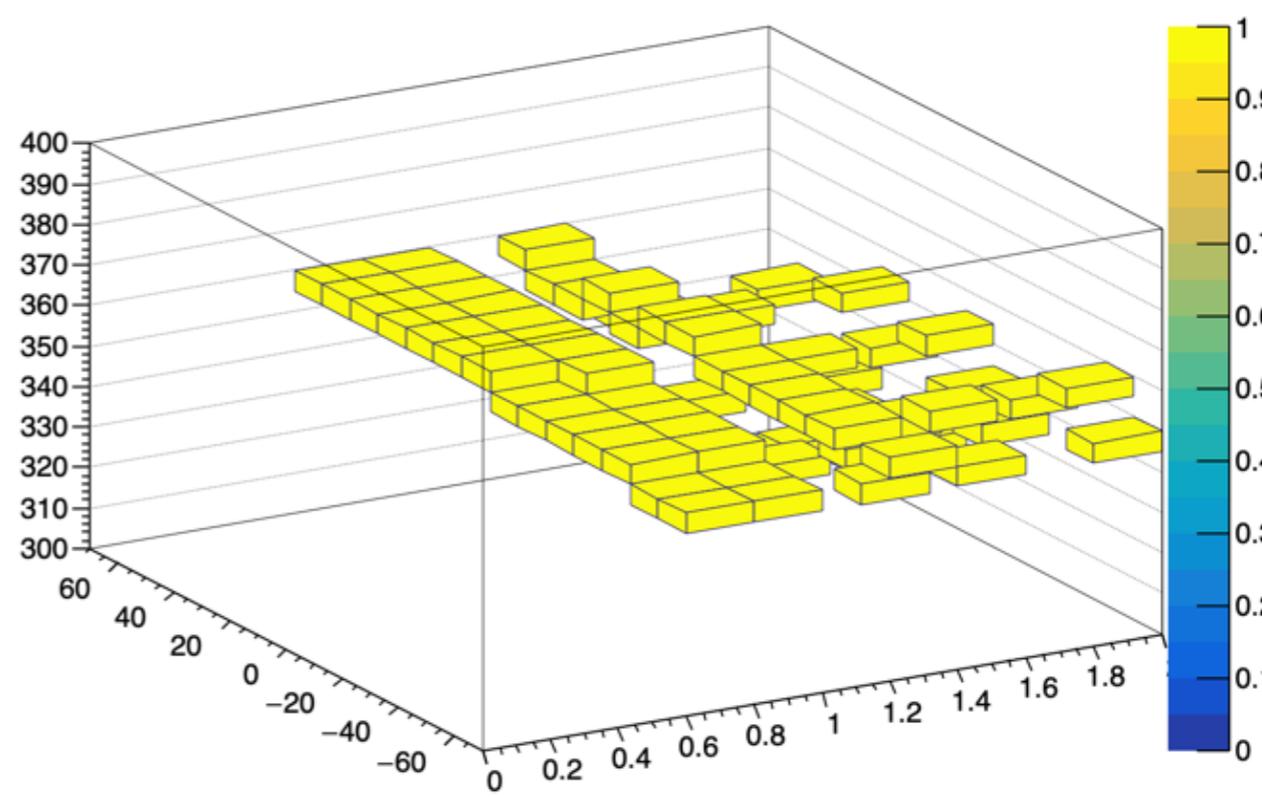
Hvalue_vs_Zdc_vs_Vz_im2_irunpd0



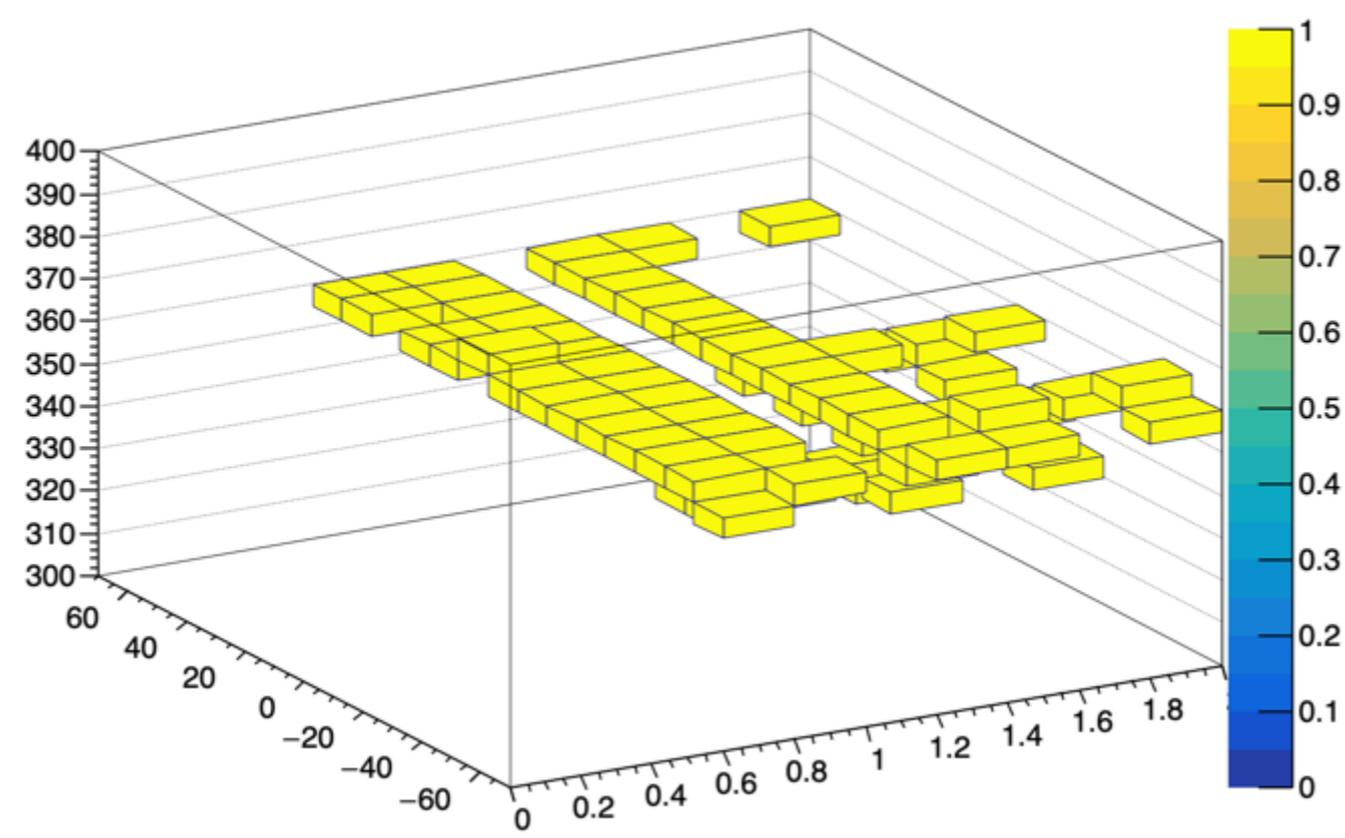
Hvalue_vs_Zdc_vs_Vz_im0_irunpd2



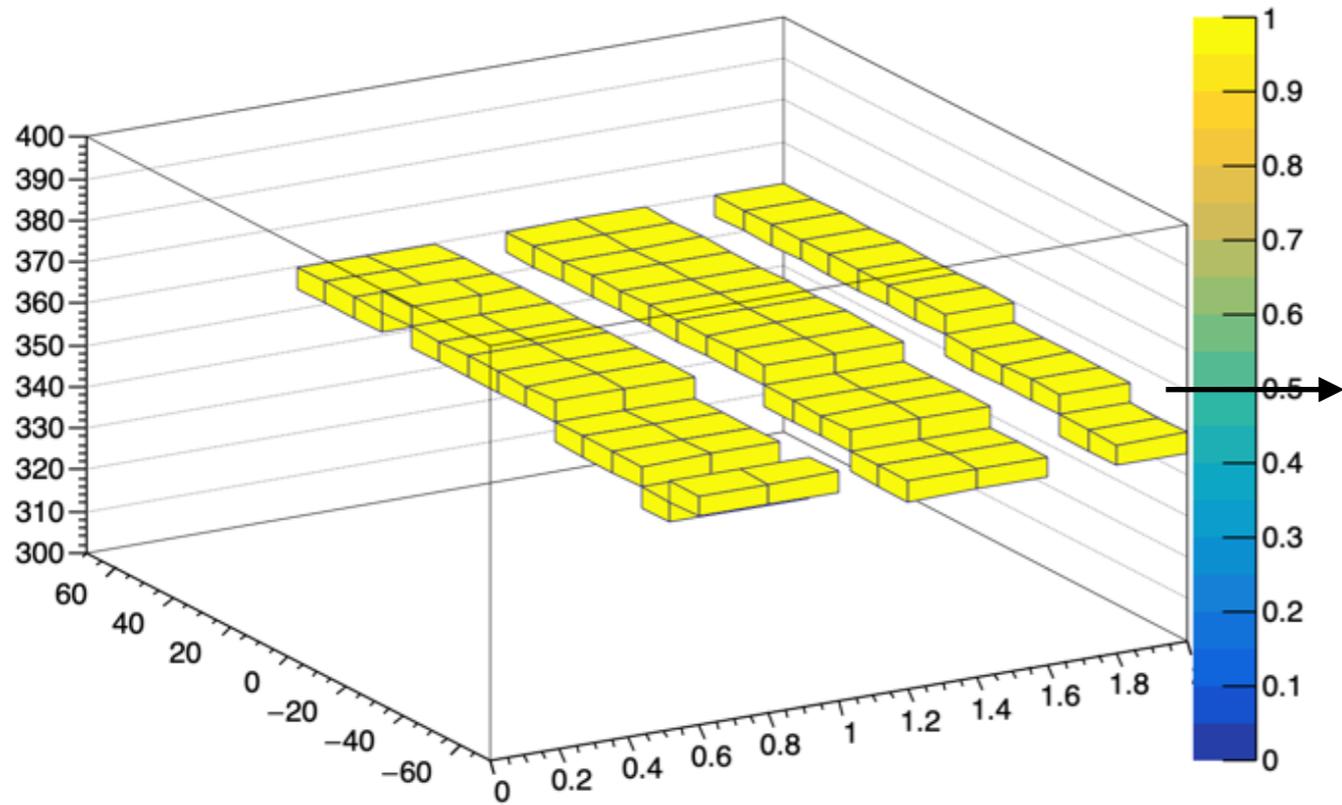
Hvalue_vs_Zdc_vs_Vz_im1_irunpd2



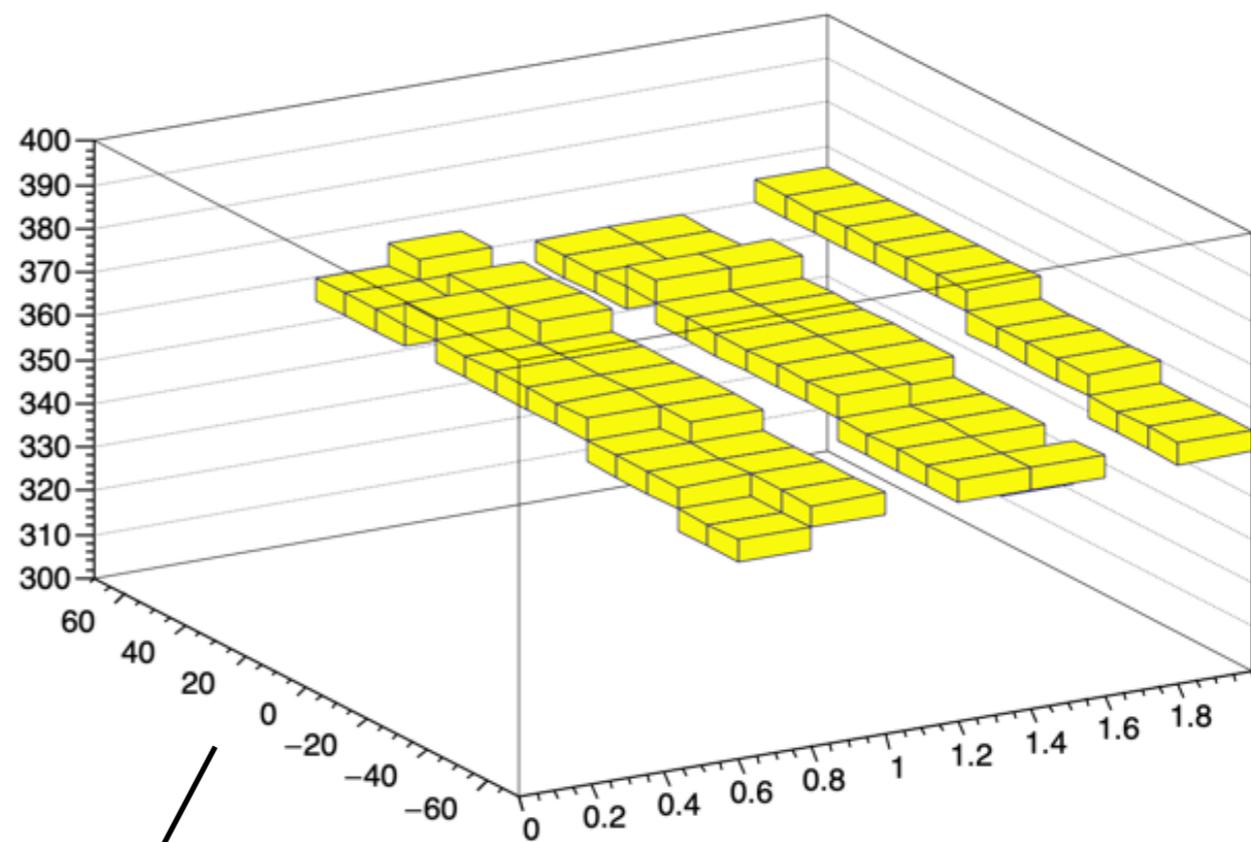
Hvalue_vs_Zdc_vs_Vz_im2_irunpd2



Hvalue_vs_Zdc_vs_Vz_im0_irunpd3



Hvalue_vs_Zdc_vs_Vz_im1_irunpd3



Hvalue_vs_Zdc_vs_Vz_im2_irunpd3

