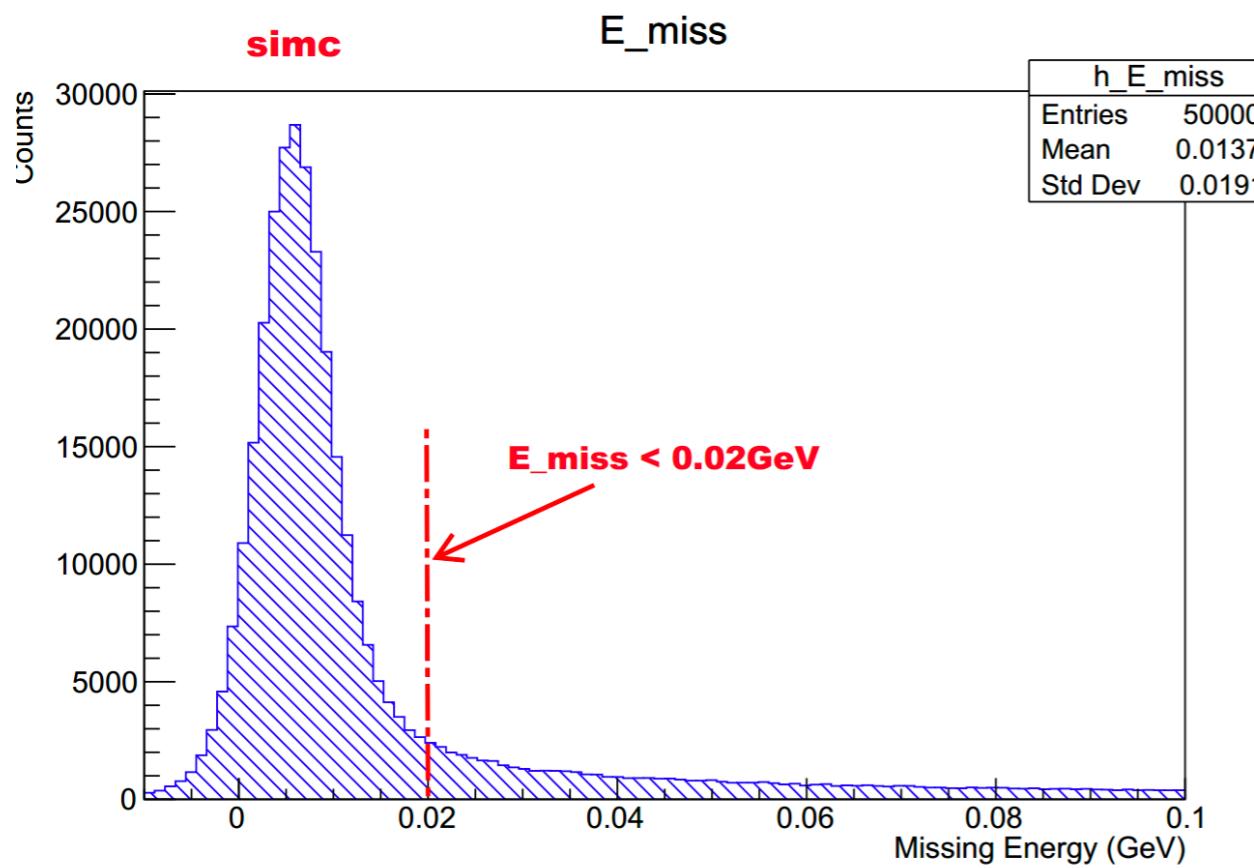
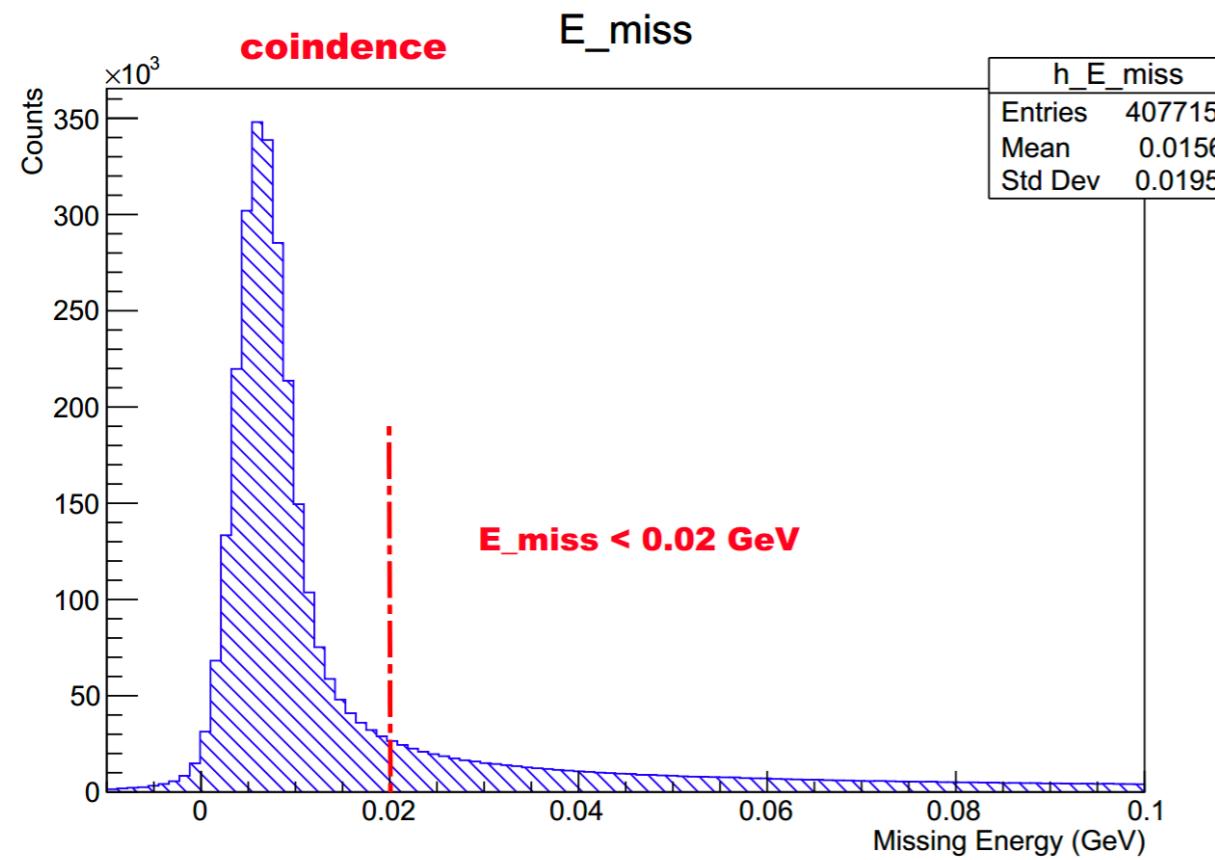
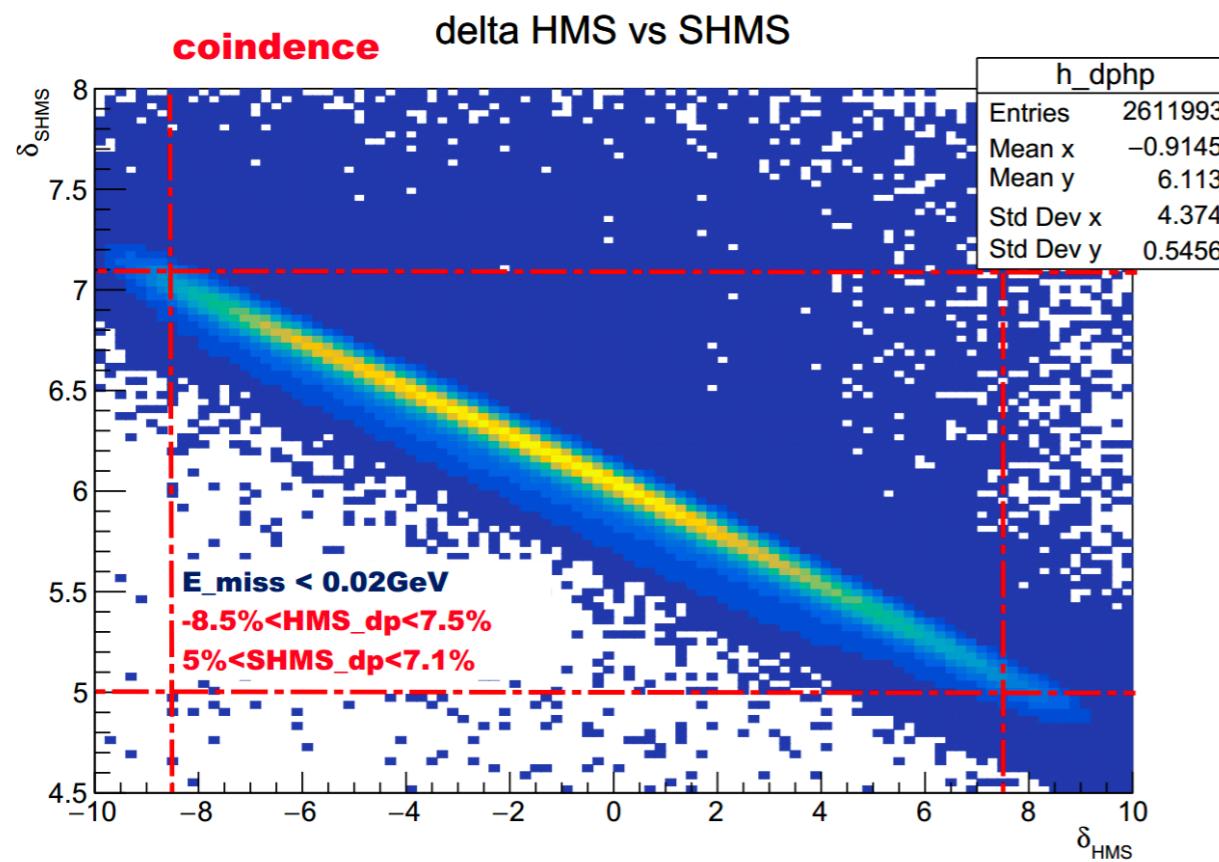


Proton Absorption

How many protons didn't form a HMS trigger?

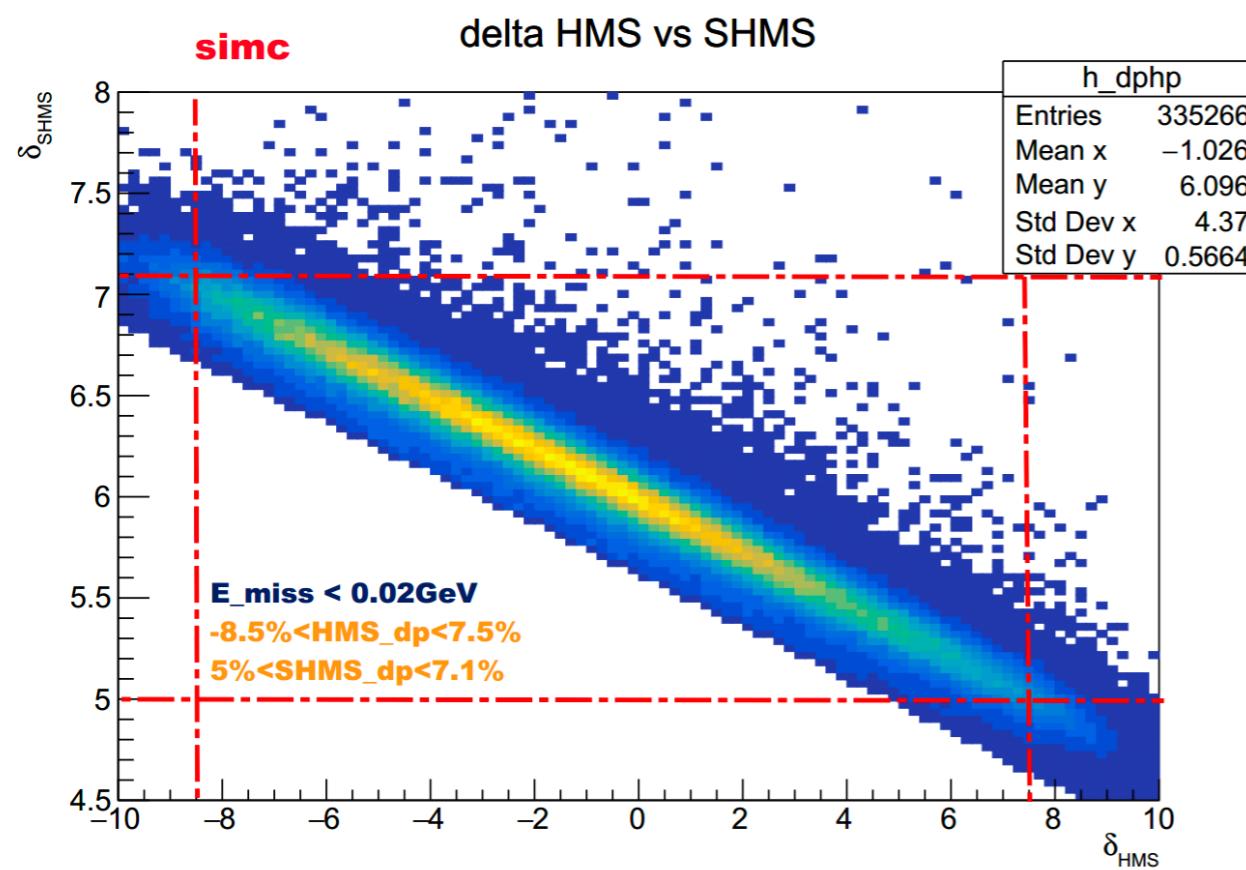


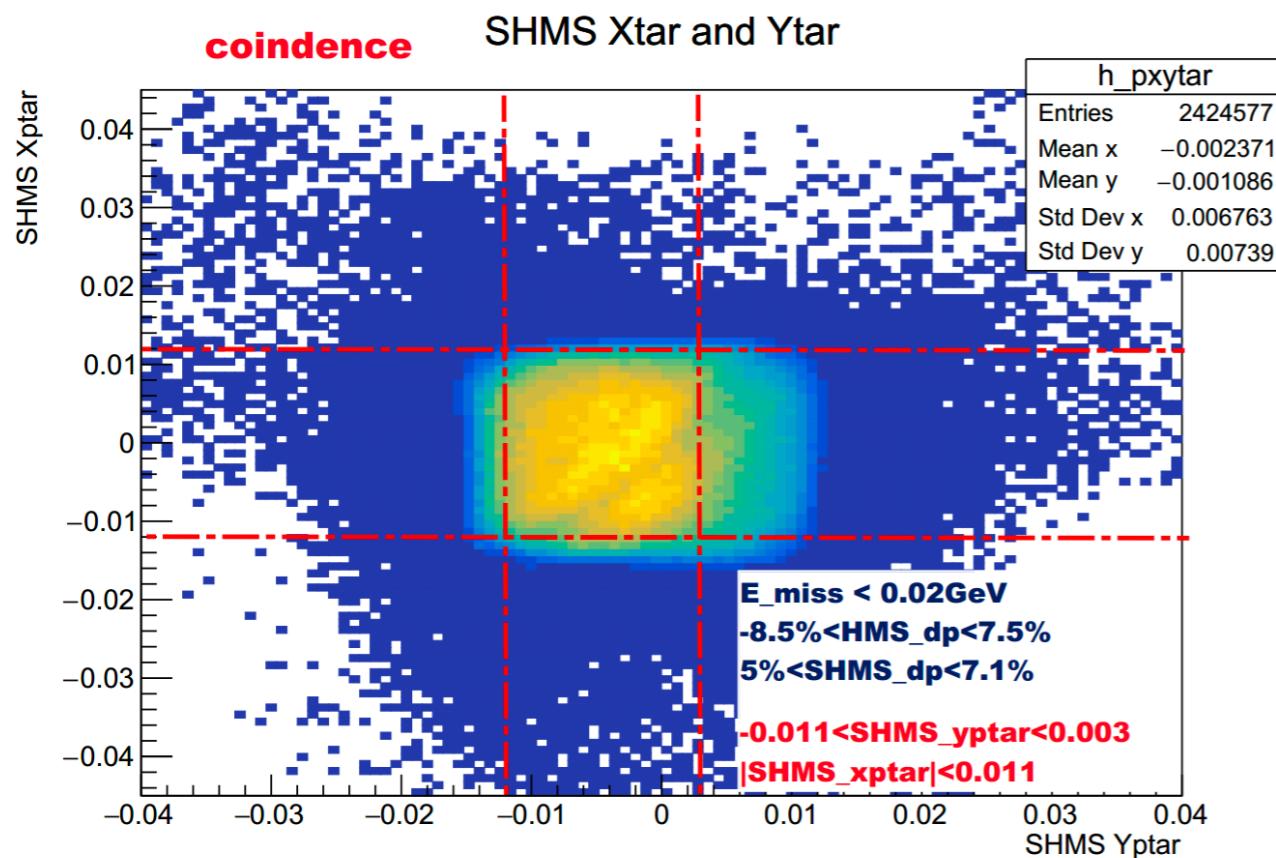


Before
|HMS_dp| < 9%
4.9% < SHMS_dp < 7.1%

↓

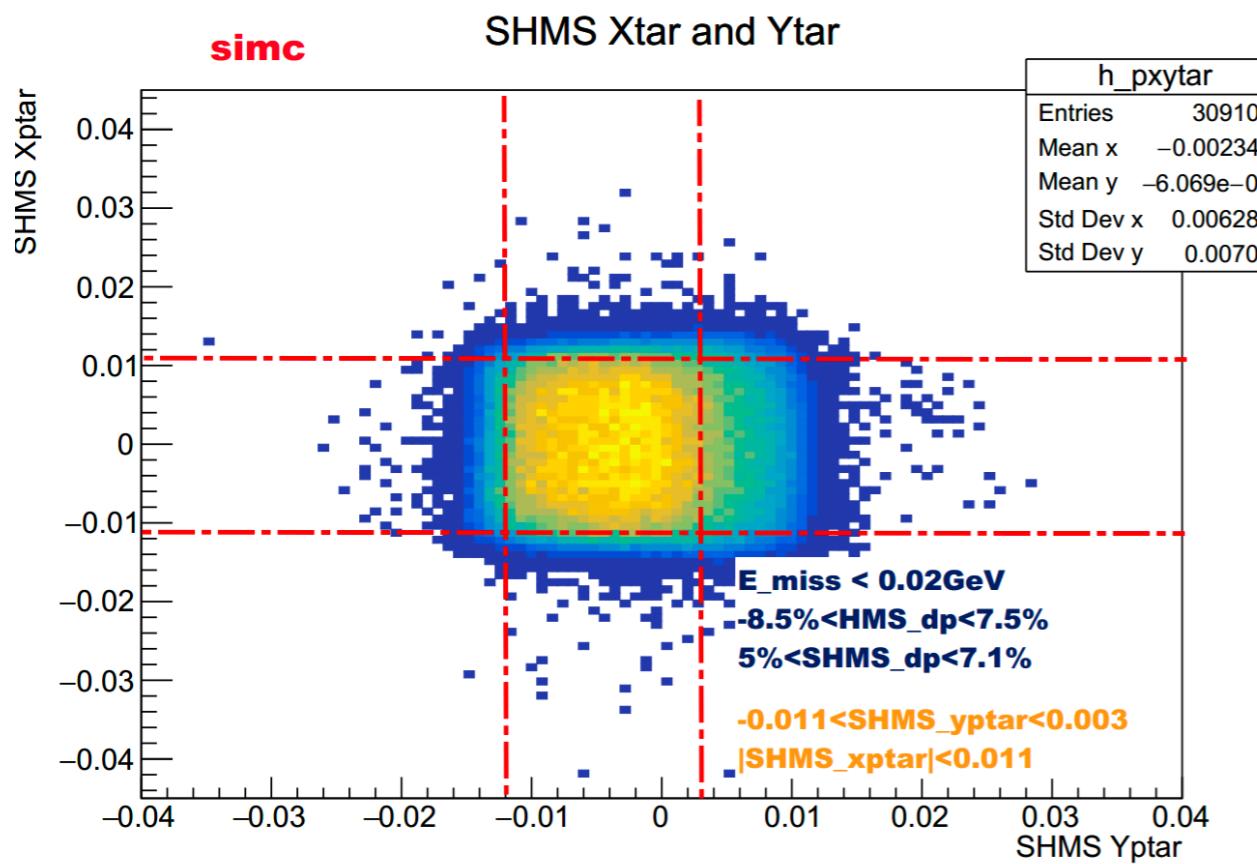
After
-8.5% < HMS_dp < 7.5%
5% < SHMS_dp < 7.1%

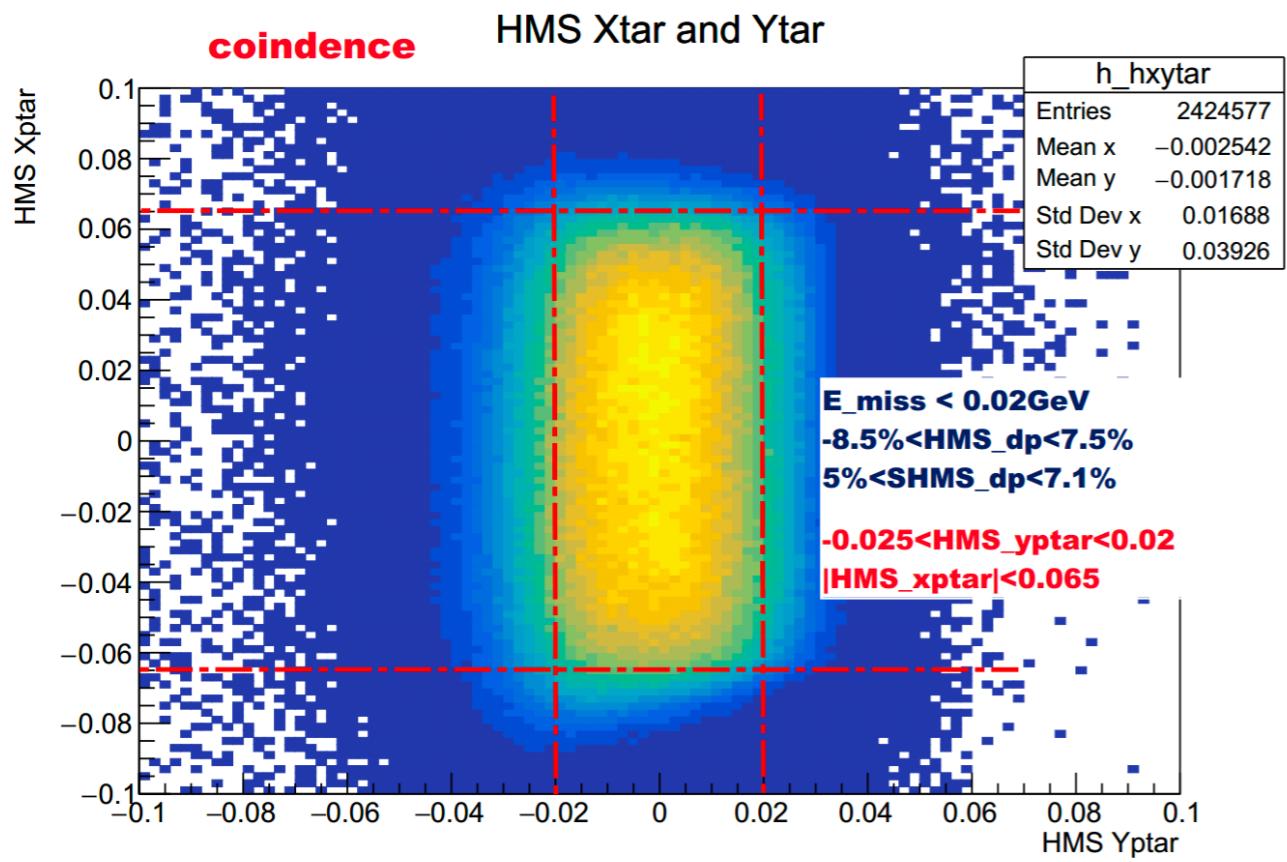




Before
 $-0.015 < \text{SHMS_yptar} < 0.013$
 $|\text{SHMS_xptar}| < 0.014$

After
 $-0.011 < \text{SHMS_yptar} < 0.003$
 $|\text{SHMS_xptar}| < 0.011$

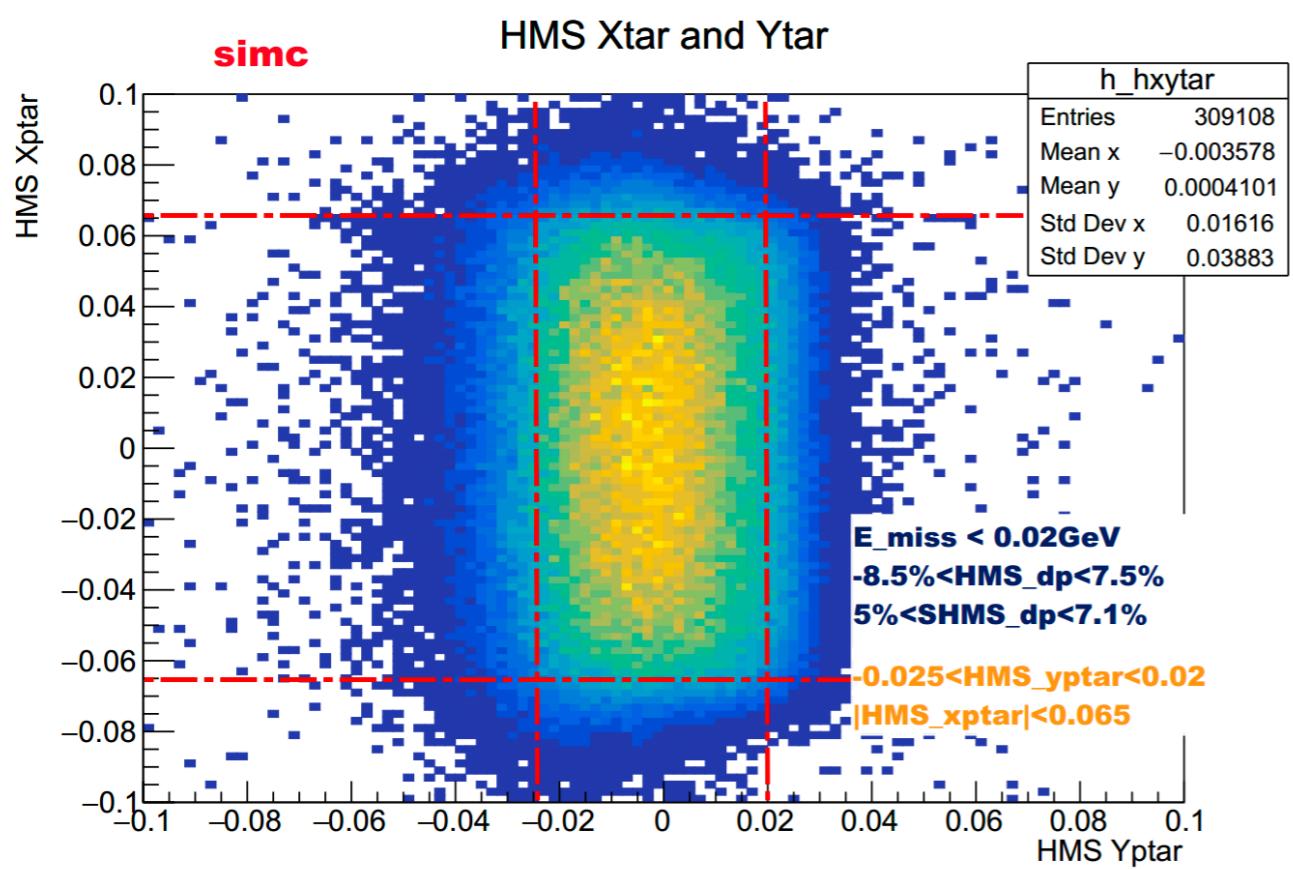


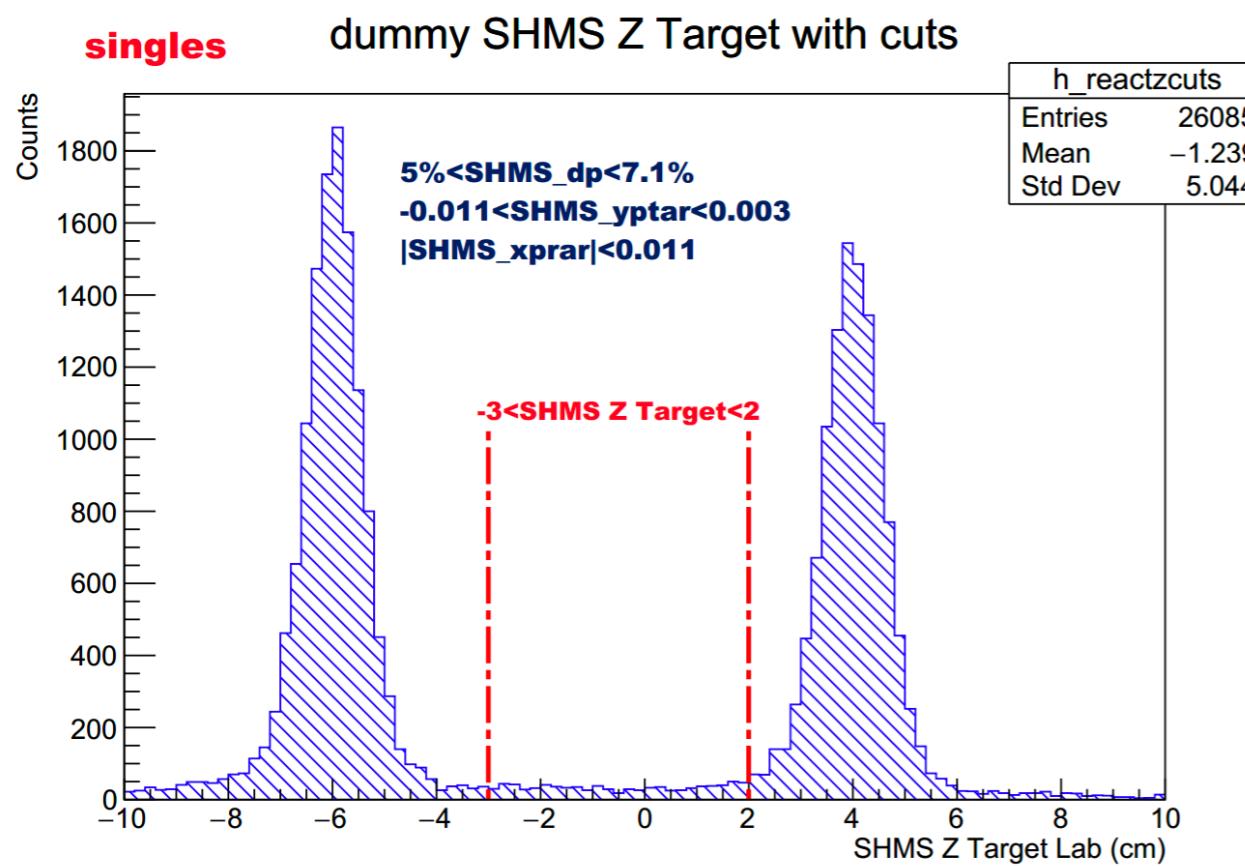
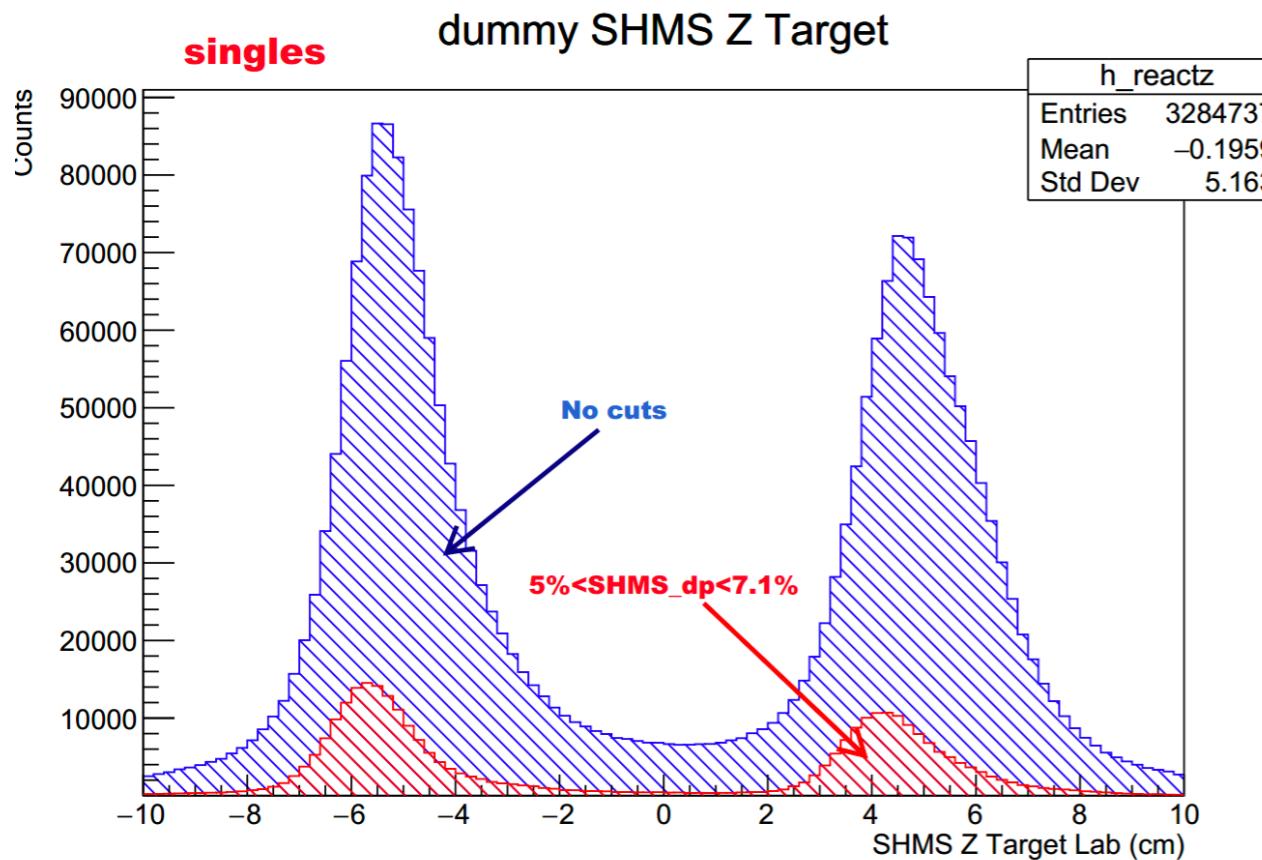


Before
 $|\text{HMS}_\text{yptar}| < 0.035$
 $|\text{HMS}_\text{xptar}| < 0.075$

↓

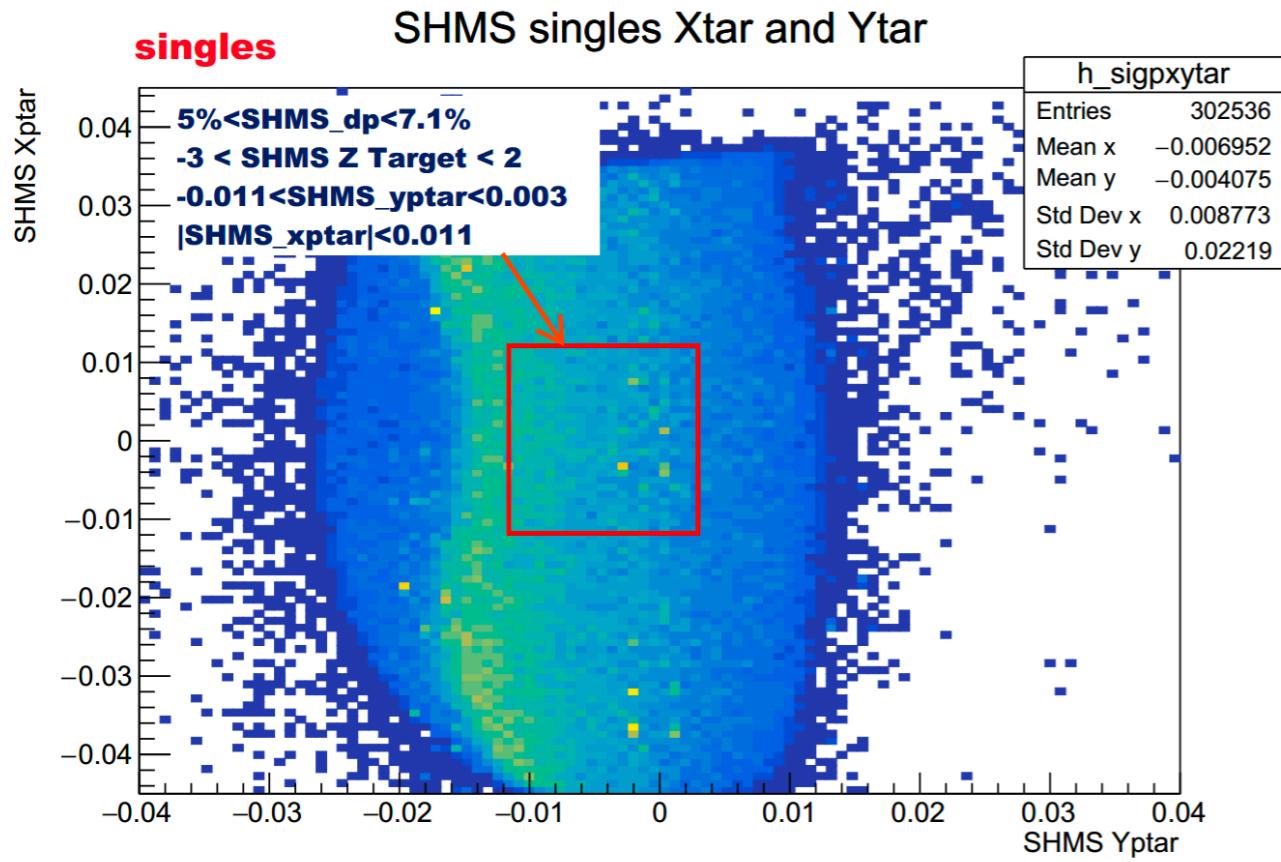
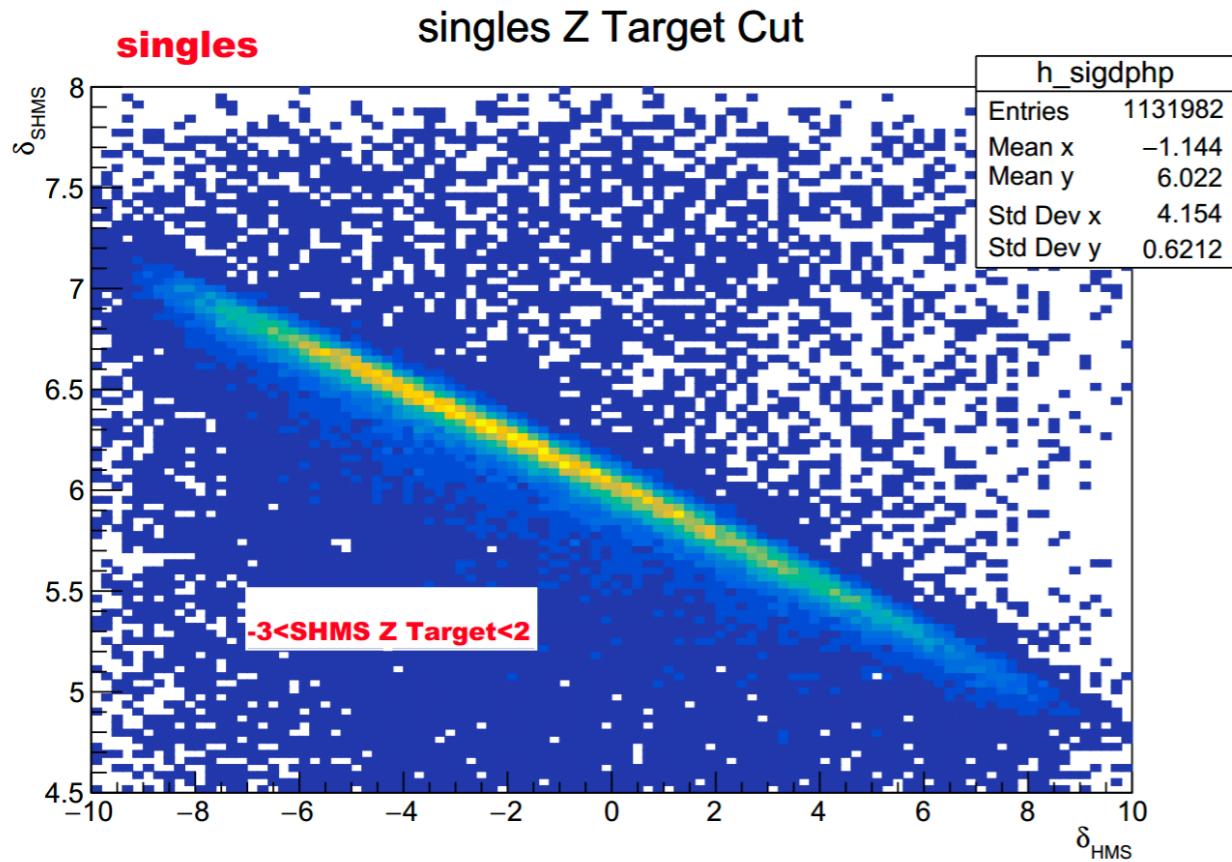
After
 $-0.025 < \text{HMS}_\text{yptar} < 0.02$
 $|\text{HMS}_\text{xptar}| < 0.065$





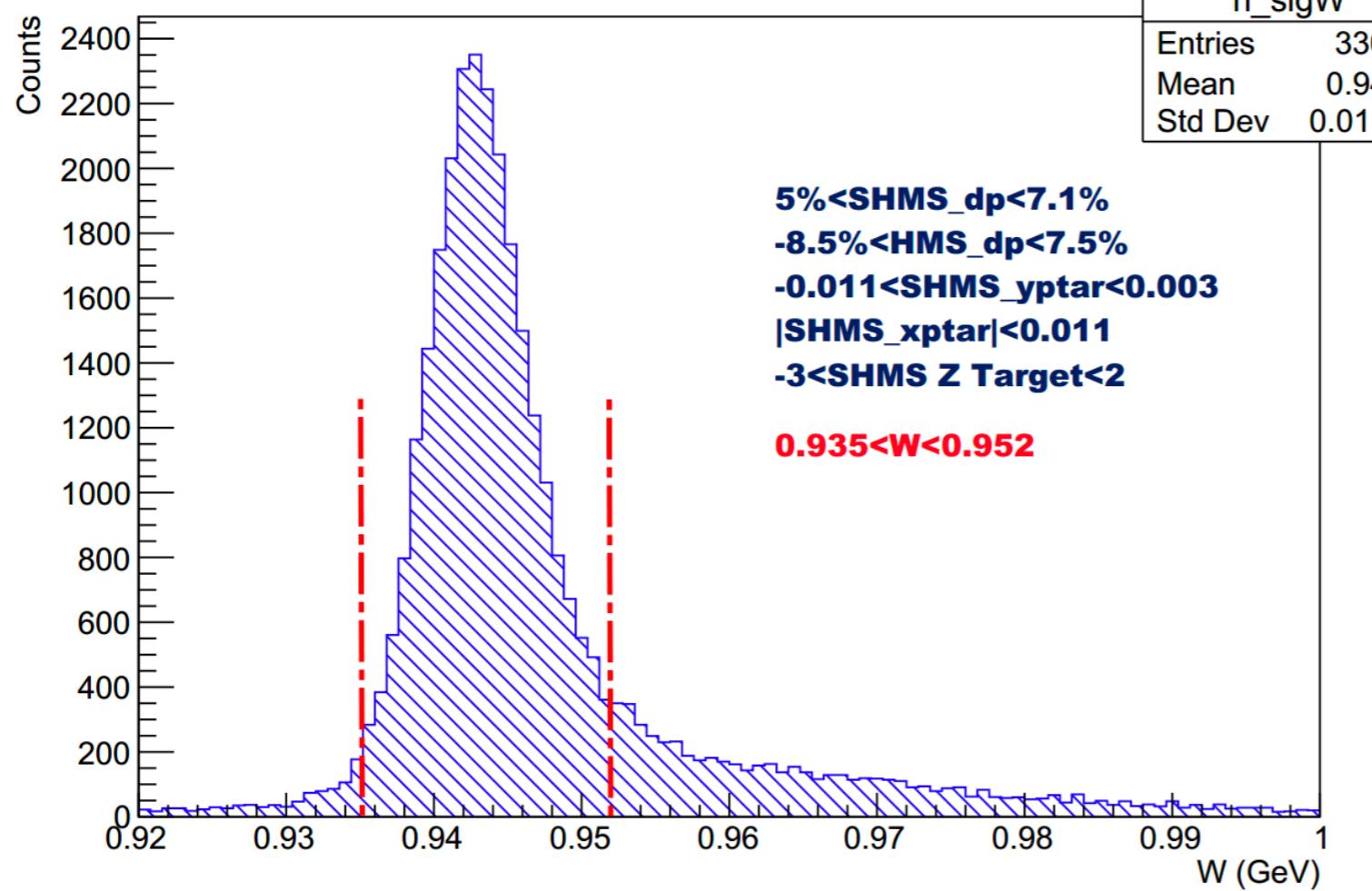
Before
 $-3.5 < \text{SHMS Z Target} < 1.5$

After
 $-3 < \text{SHMS Z Target} < 2$



singles

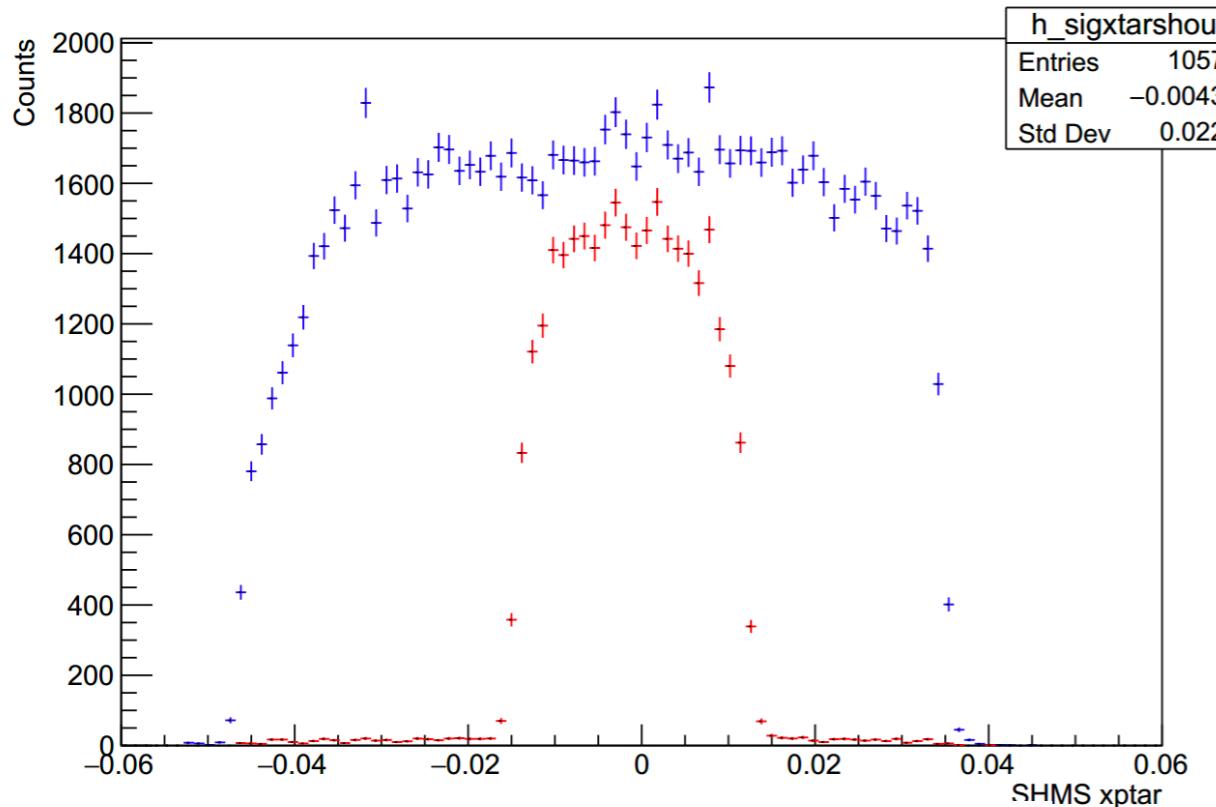
SHMS singles W



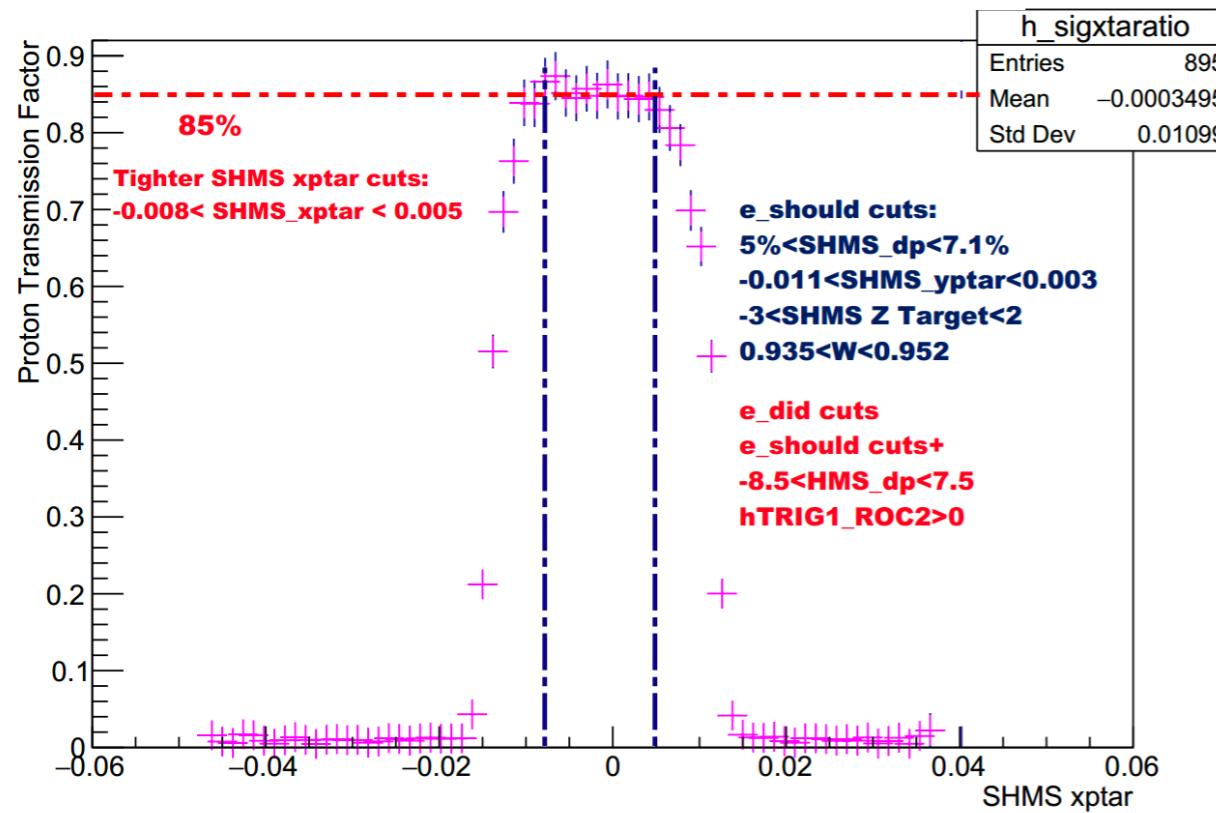
Before
 $0.932 < W < 0.97$

After
 $0.935 < W < 0.952$

SHMS Xptar e_should and e_did



SHMS Xptar e_did / e_should

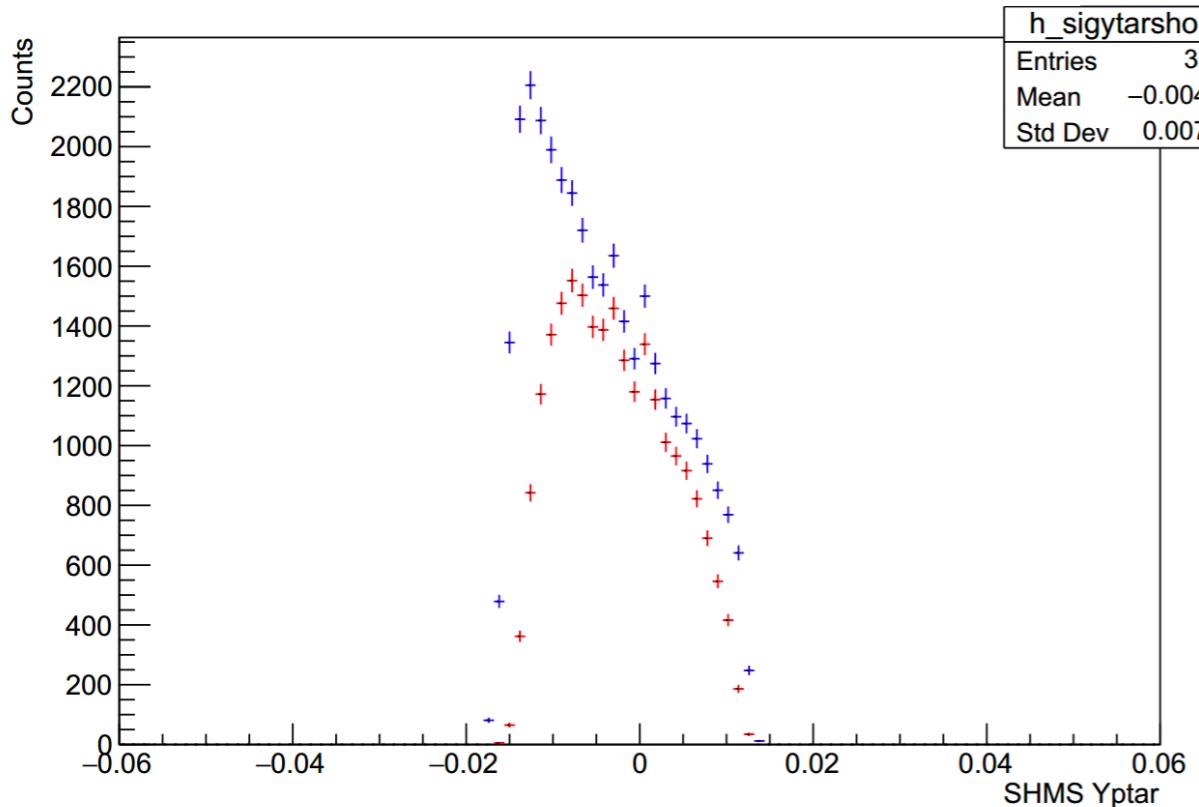


Before
 $-0.01 < \text{SHMS_xptar}$ tighter cut < 0.005

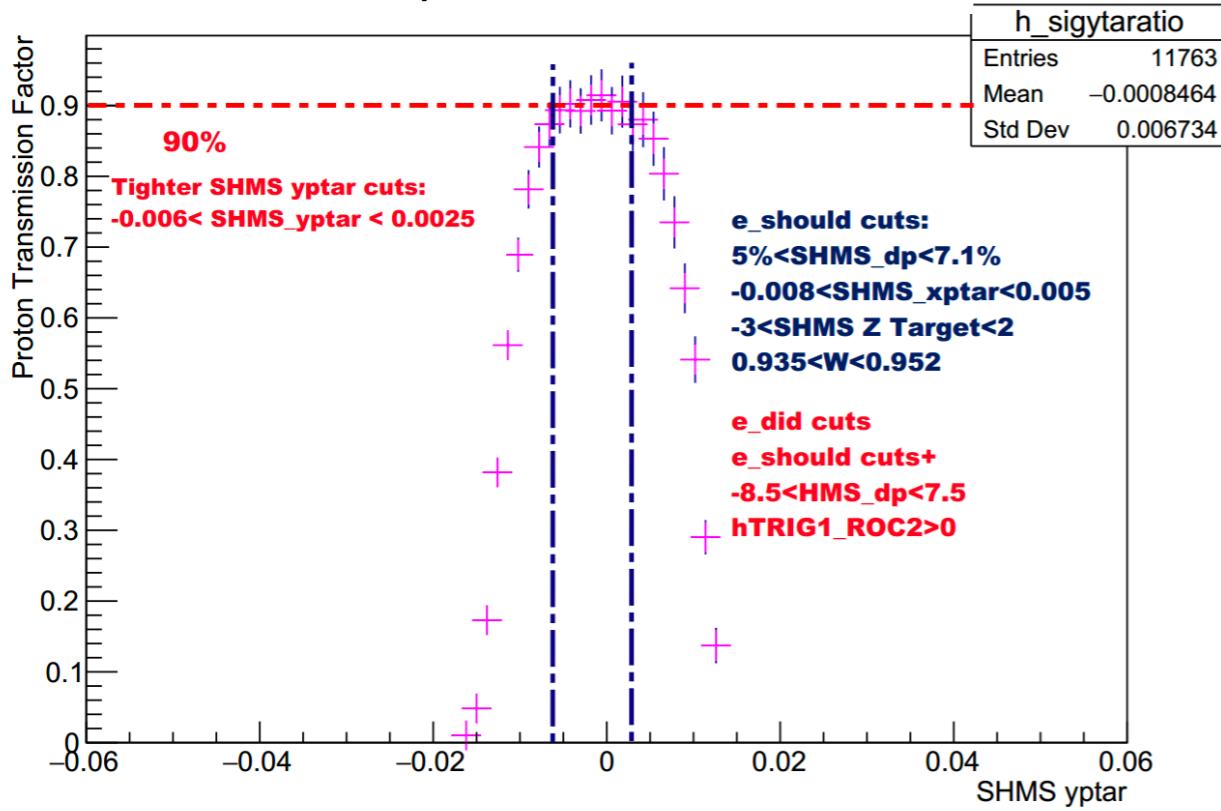
↓

After
 $-0.008 < \text{SHMS_xptar}$ tighter cut < 0.005

SHMS Yptar e_should and e_did



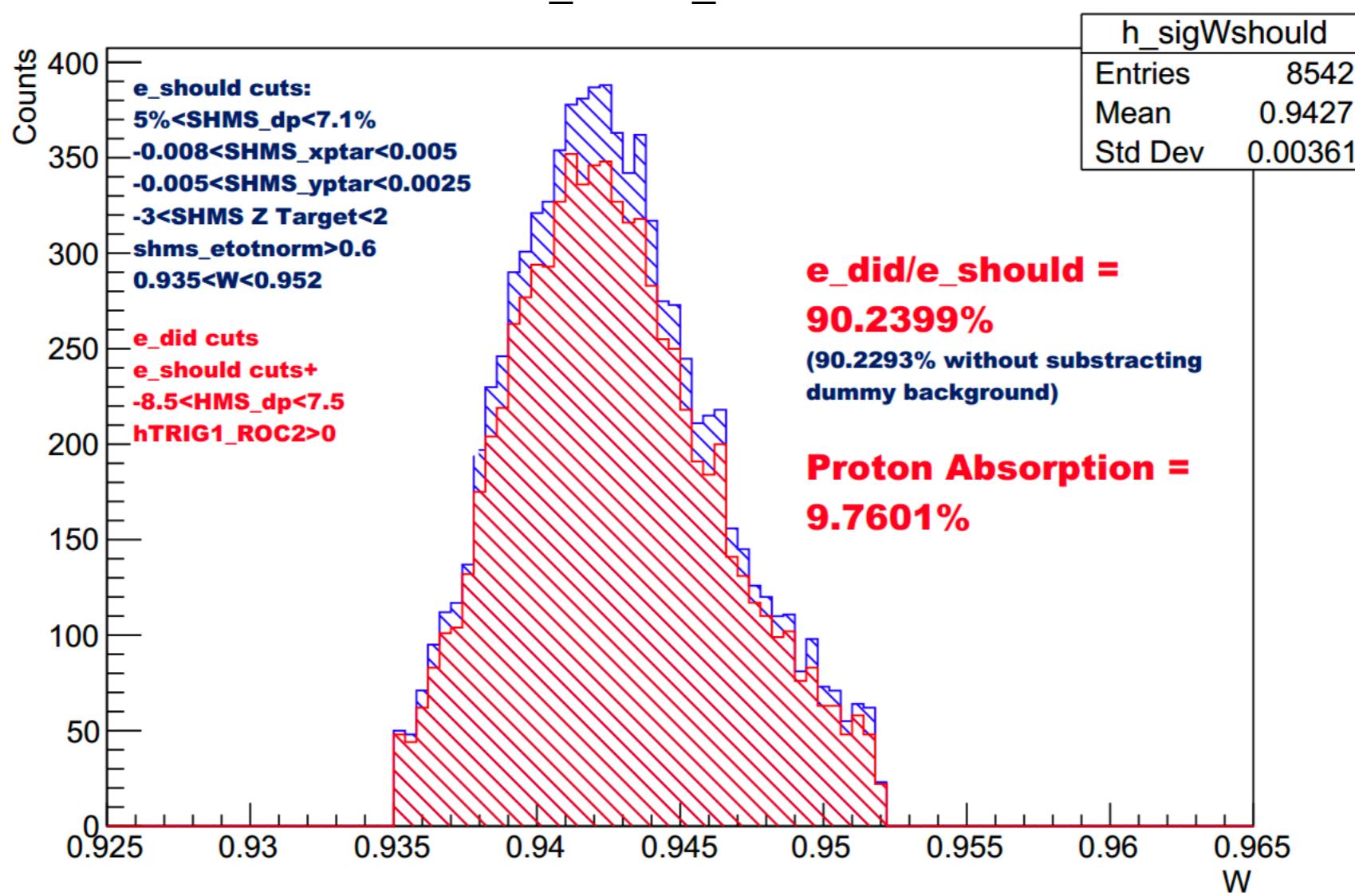
SHMS Yptar e_did /e_should



Before
 $0 < \text{SHMS_yptar}$ tighter cut < 0.007

After
 $-0.006 < \text{SHMS_yptar}$ tighter cut < 0.0025

W e_did /e_should



9.7601% Proton did NOT make it to form a trigger