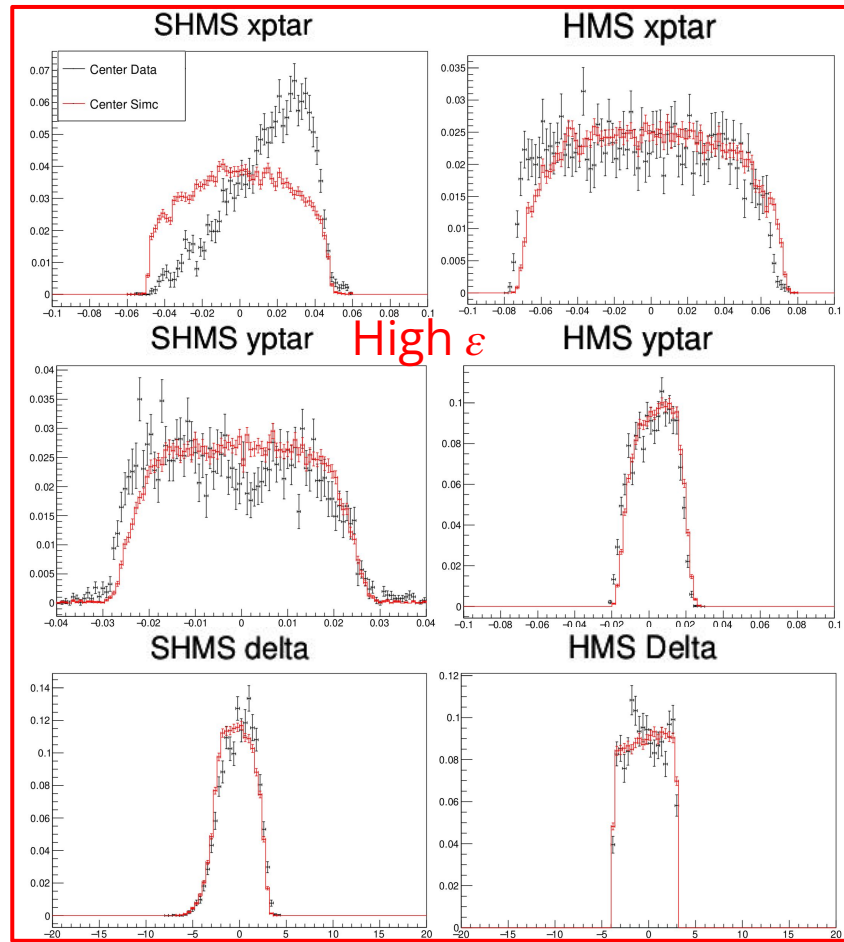
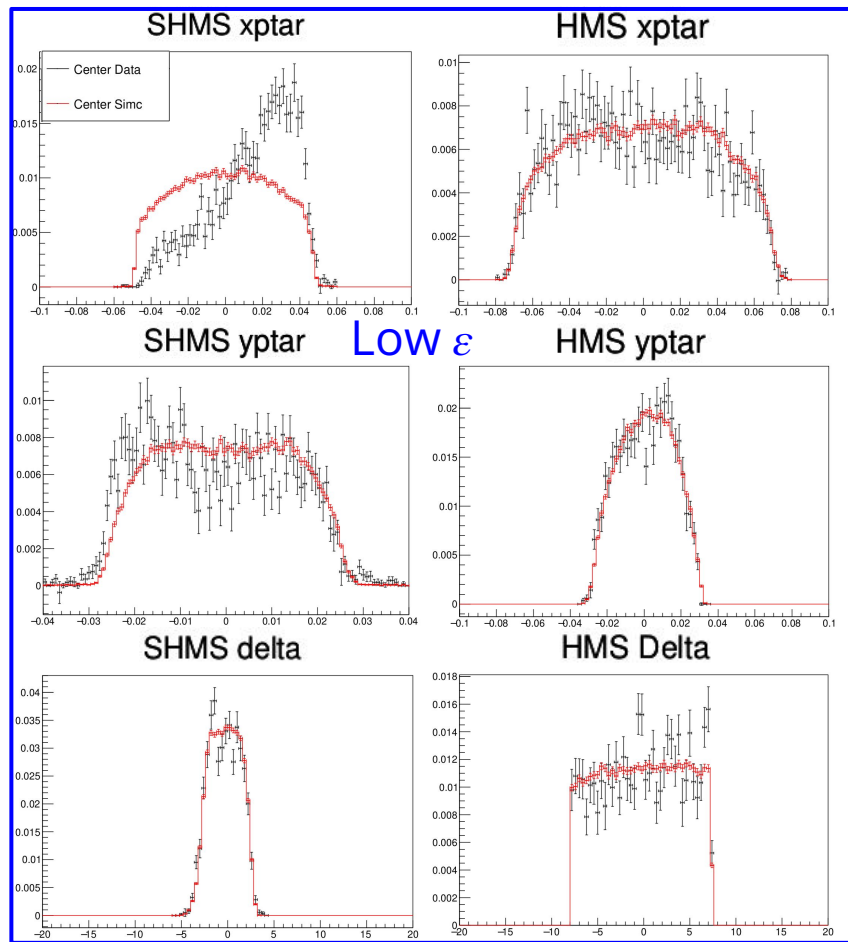


KaonLT Meeting

March 28th, 2024

Richard Trotta

$$\underline{Q^2=3.0, W=3.14}$$



4.9 HeeP, Q2=3.40

December 7, 2023

- Garth/Nacer Notes [mtg_23dec07.txt](#)

- Richard

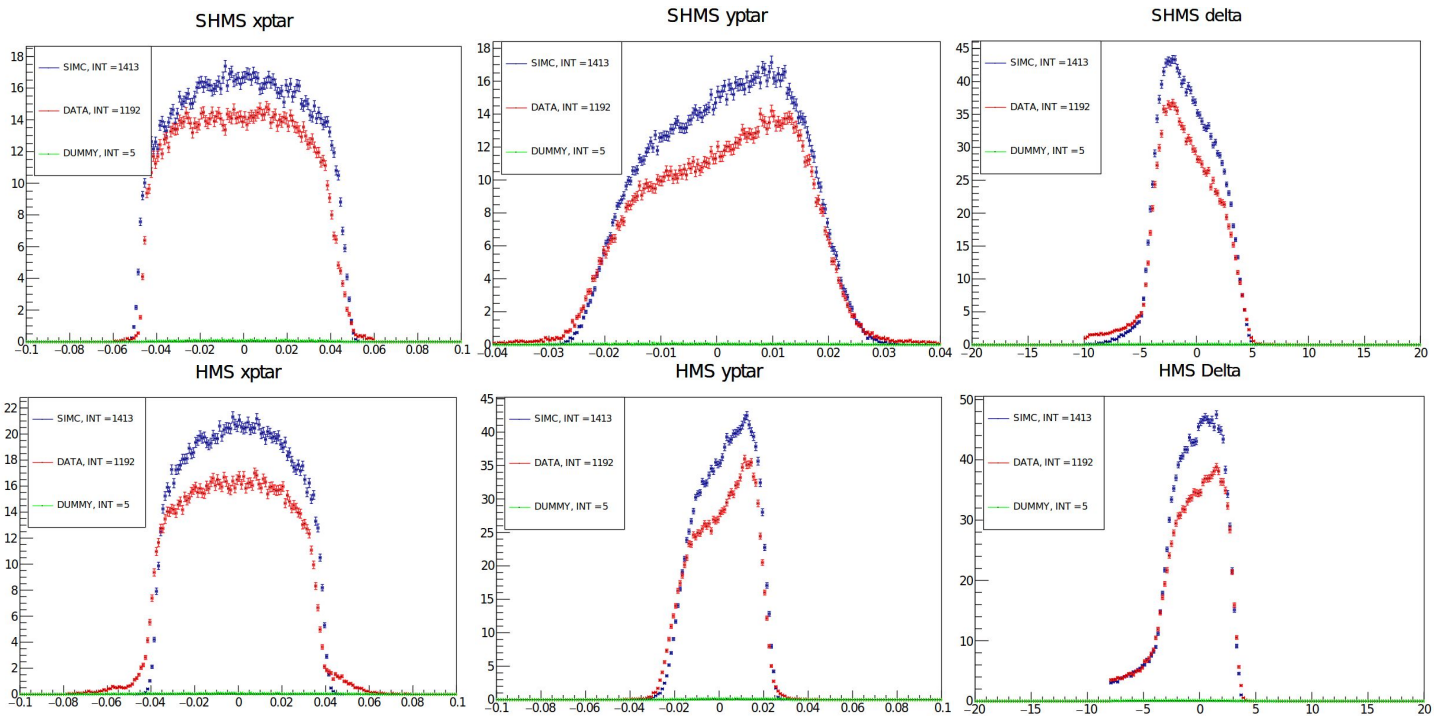
- [FinalHeepOffsets_v2.pdf](#)

- No Offsets: [10p6](#) [8p2](#) [6p2](#) [4p9](#) [3p8](#)

- Offsets: [10p6](#) [8p2](#) [6p2](#) [4p9](#) [3p8](#)

- There was an oversight in the BPM params and they were not pushed to the proper git repo. The offsets had to be redone and the new final offsets are implimented.

- Full Replay Pass 3 is underway.



10.6 HeeP, Q2=7.52

December 7, 2023

- Garth/Nacer Notes [mtg_23dec07.txt](#)

- Richard

- [FinalHeepOffsets_v2.pdf](#)

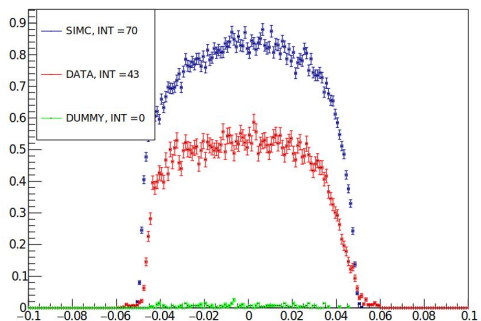
- No Offsets: ☐ 10p6 ☐ 8p2 ☐ 6p2 ☐ 4p9 ☐ 3p8

- Offsets: ☐ 10p6 ☐ 8p2 ☐ 6p2 ☐ 4p9 ☐ 3p8

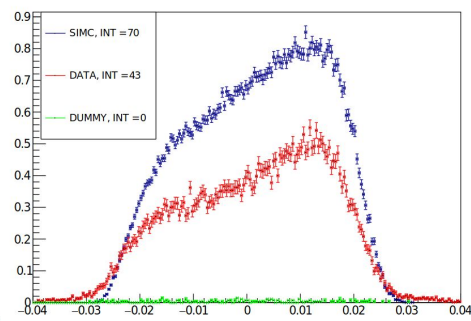
- There was an oversight in the BPM params and they were not pushed to the proper git repo. The offsets had to be redone and the new final offsets are implimented.

- Full Replay Pass 3 is underway.

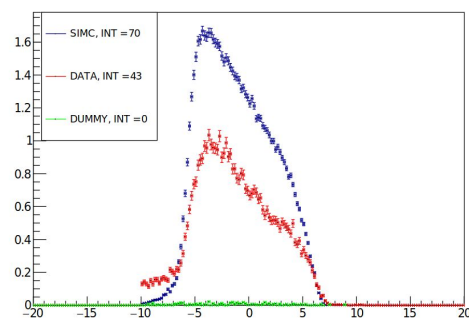
SHMS xptar



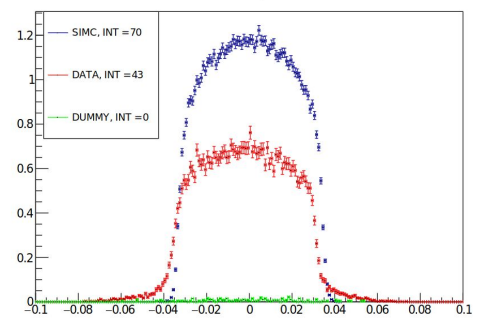
SHMS yptar



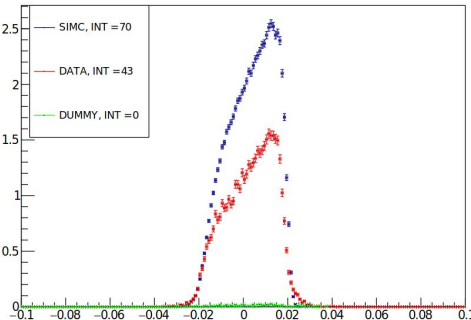
SHMS delta



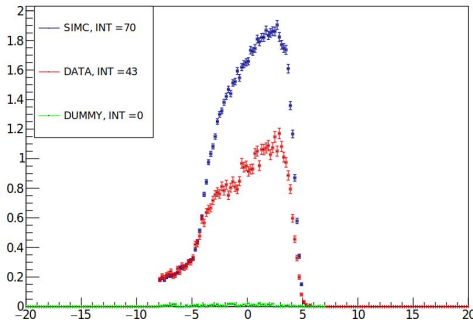
HMS xptar



HMS yptar

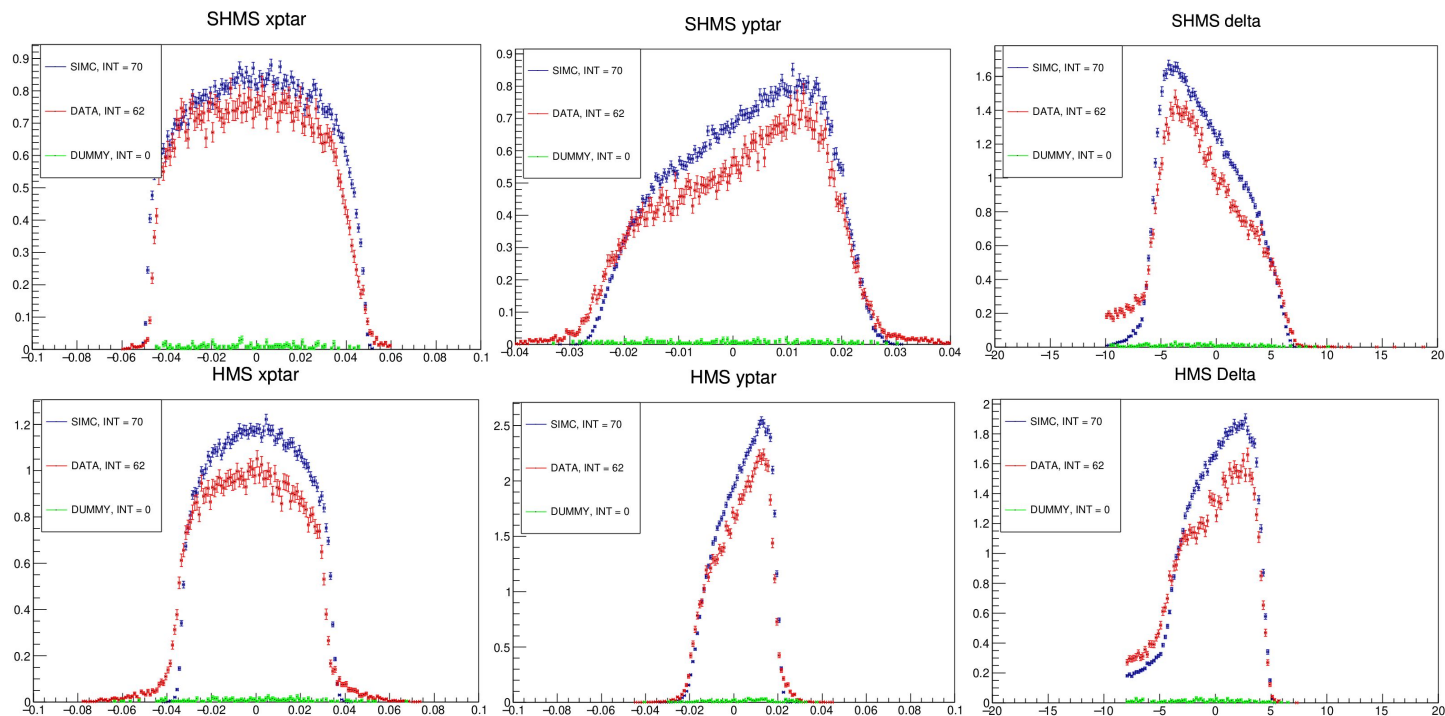


HMS Delta



10.6 HeeP, Q2=7.52

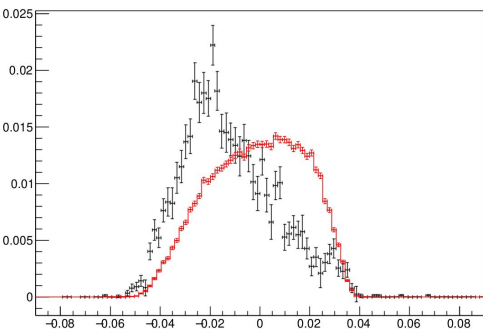
Reran HeeP replays



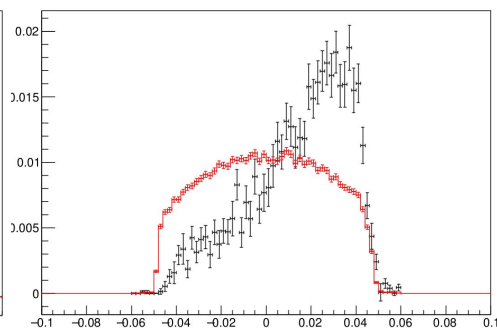
$$\underline{Q^2=3.0, W=3.14}$$

Low ε

SHMS xpfp

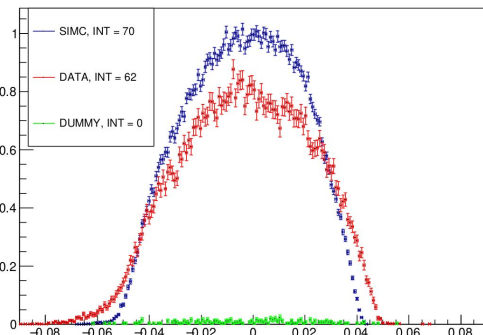


SHMS xptar

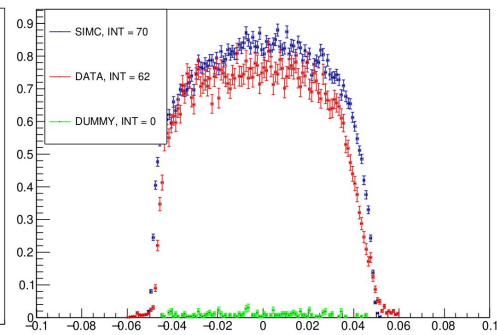


$$\underline{10.6 \text{ HeeP, } Q^2=7.52}$$

SHMS xpfp



SHMS xptar



hallc_replay_lt / PARAM / SHMS / GEN / KaonLT_PARAM / pcan.param

; SHMS Optics April 2020 (suggested by M. Jones for PION-LT 2021)
p_recon_coeff_filename = "DATFILES/shms_newfit_xptar_april2020.dat"

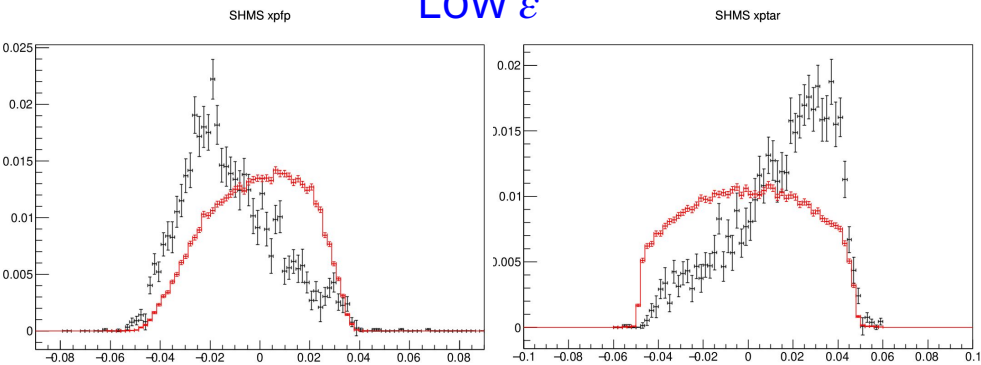
https://github.com/JeffersonLab/hallc_replay_lt/tree/master/DBASE/COIN/DB_KaonLT/KaonLT_Calib

```
; SHMS default cut parameter files
#include "PARAM/SHMS/NGCER/KaonLT_PARAM/pngcer cuts.param"
#include "PARAM/SHMS/DC/KaonLT_PARAM/pdc cuts Spring19.param"
#include "PARAM/SHMS/HODO/KaonLT_PARAM/Calibration/phodo cuts 8048.param"
#include "PARAM/SHMS/HGCER/KaonLT_PARAM/CALIB/phgcer cuts 8048.param"
#include "PARAM/SHMS/AERO/KaonLT_PARAM/CALIB/paero cuts 8048.param"
#include "PARAM/SHMS/CAL/KaonLT_PARAM/CALIB/pcal cuts 8048.param"
#include "PARAM/SHMS/NGCER/KaonLT_PARAM/pngcer cuts Autumn18.param"
#include "PARAM/SHMS/DC/KaonLT_PARAM/pdc cuts Autumn18.param"
#include "PARAM/SHMS/HODO/KaonLT_PARAM/Calibration/pdo cuts 4868.param"
#include "PARAM/SHMS/HGCER/KaonLT_PARAM/CALIB/phgcer cuts 4868.param"
#include "PARAM/SHMS/AERO/KaonLT_PARAM/CALIB/paero cuts 4868.param"
#include "PARAM/SHMS/CAL/KaonLT_PARAM/CALIB/pcal cuts 4868.param"

; SHMS default calibration parameter files
#include "PARAM/SHMS/NGCER/KaonLT_PARAM/pngcer calib Spring19.param"
#include "PARAM/SHMS/DC/KaonLT_PARAM/CALIB/pdc calib 8036.param"
#include "PARAM/SHMS/DC/KaonLT_PARAM/CALIB/pdc tzero per wire 8036.param"
#include "PARAM/SHMS/HODO/KaonLT_PARAM/phodo calib Spring19.param"
#include "PARAM/SHMS/HODO/KaonLT_PARAM/phodo TWcalib Spring19.param"
#include "PARAM/SHMS/HODO/KaonLT_PARAM/phodo Vpcalib Spring19.param"
#include "PARAM/SHMS/HGCER/KaonLT_PARAM/CALIB/phgcer calib 8031-8037.param"
#include "PARAM/SHMS/AERO/KaonLT_PARAM/paero calib Spring19.param"
#include "PARAM/SHMS/CAL/KaonLT_PARAM/pcal calib Spring19.param"
\ No newline at end of file
#include "PARAM/SHMS/NGCER/KaonLT_PARAM/pngcer calib.param"
#include "PARAM/SHMS/DC/KaonLT_PARAM/CALIB/pdc calib 4825.param"
#include "PARAM/SHMS/DC/KaonLT_PARAM/CALIB/pdc tzero per wire 4825.param"
#include "PARAM/SHMS/HODO/KaonLT_PARAM/phodo calib Autumn18.param"
#include "PARAM/SHMS/HODO/KaonLT_PARAM/phodo TWcalib Autumn18.param"
#include "PARAM/SHMS/HODO/KaonLT_PARAM/phodo Vpcalib Autumn18.param"
#include "PARAM/SHMS/HGCER/KaonLT_PARAM/CALIB/phgcer calib 4865-4868.param"
#include "PARAM/SHMS/AERO/KaonLT_PARAM/paero calib Autumn18.param"
#include "PARAM/SHMS/CAL/KaonLT_PARAM/pcal calib Autumn18.param"
```

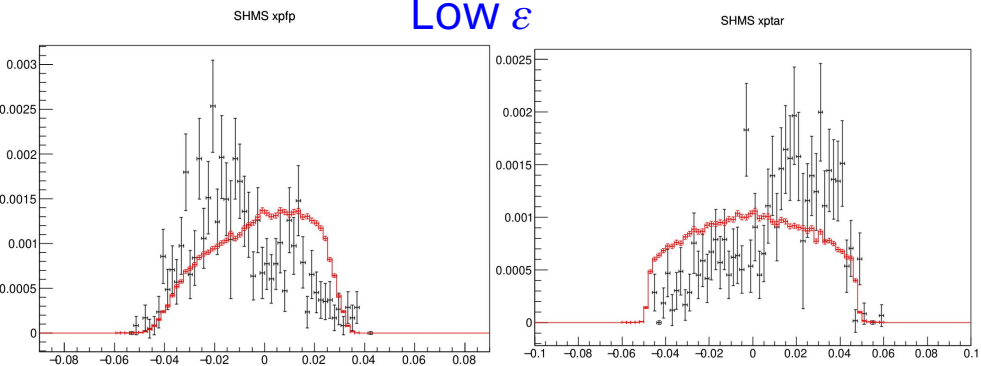
$$\underline{Q^2=3.0}, \underline{W=3.14}$$

Low ε



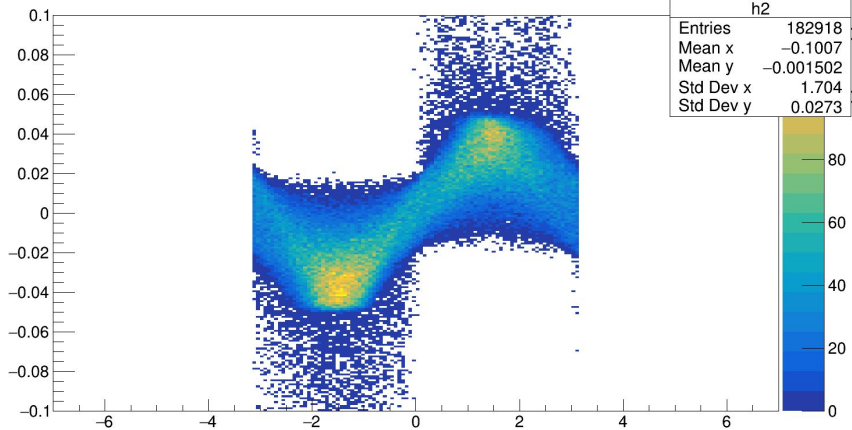
$$\underline{Q^2=5.5}, \underline{W=3.02}$$

Low ε



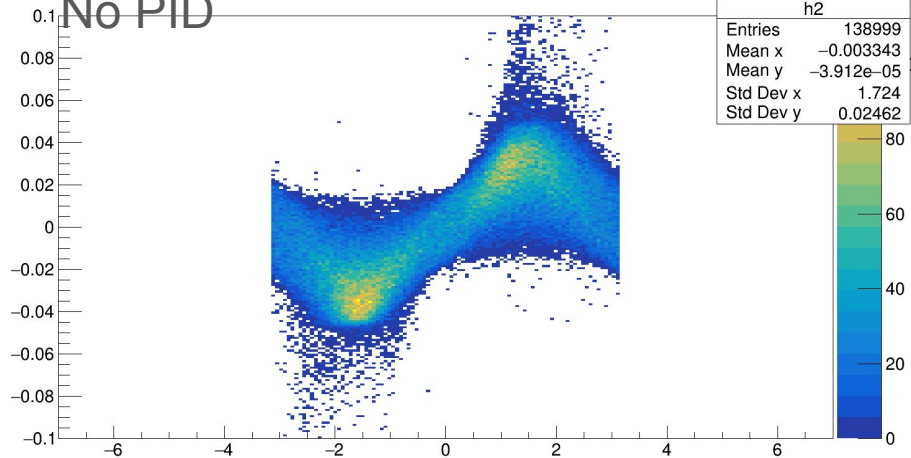
No RF

ssxptar:phipq



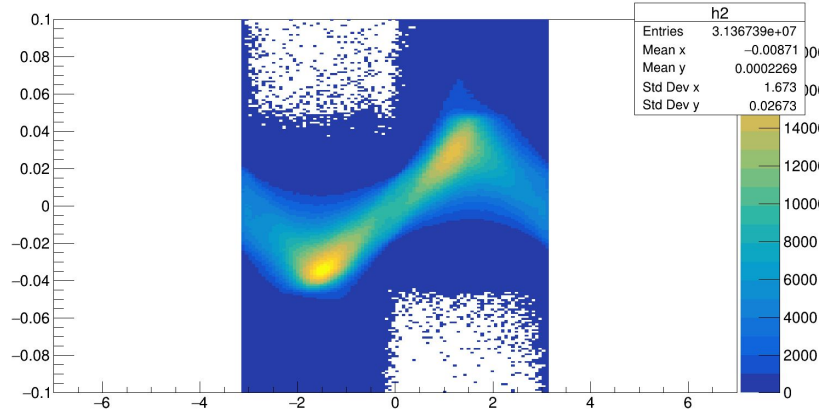
No PID

ssxptar:ph_q



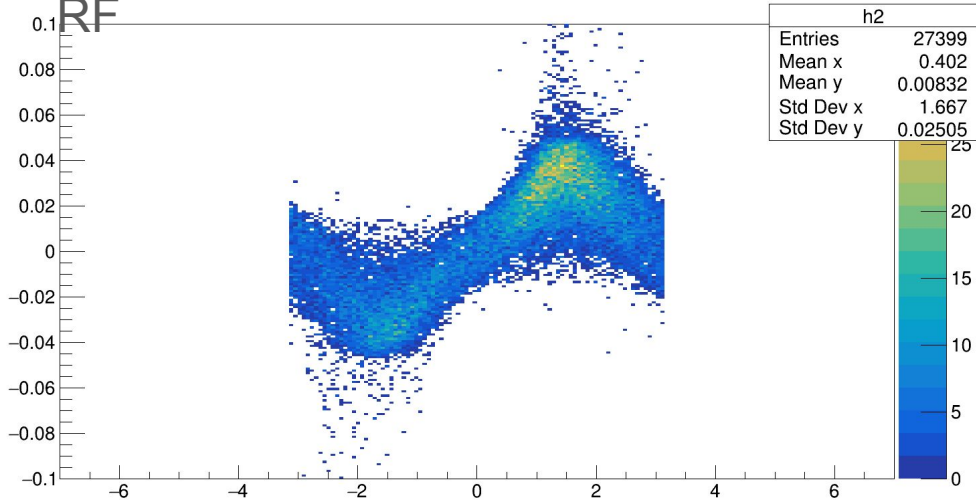
SIMC

ssxptar:ph_q



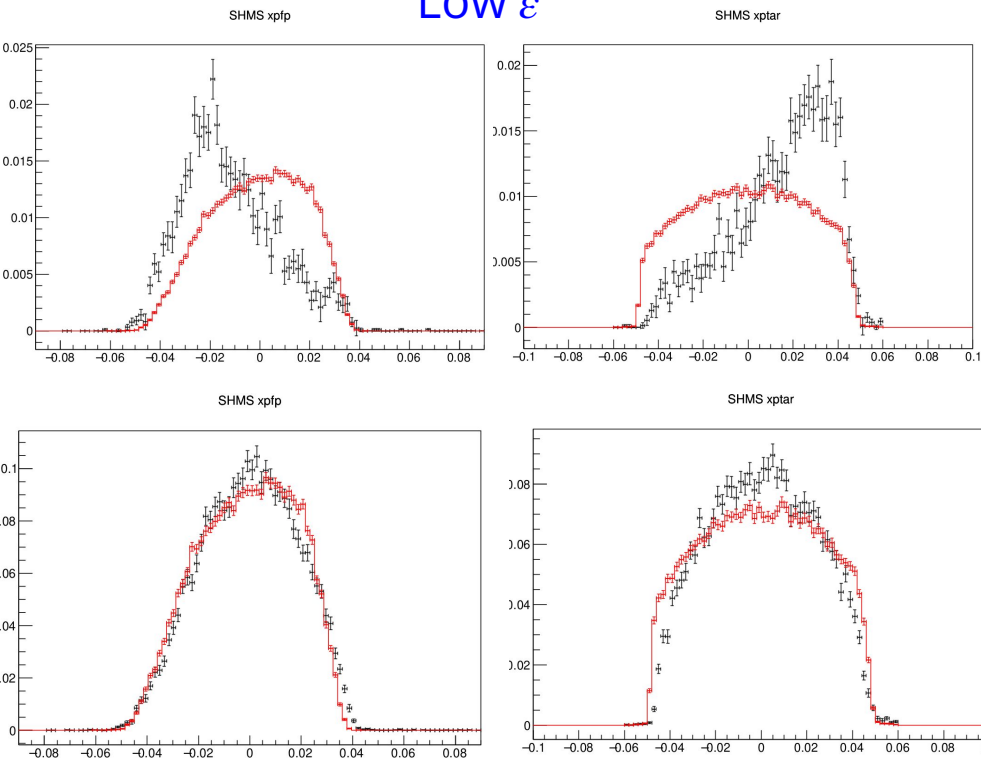
RF

ssxptar:ph_q



$$\underline{Q^2=3.0, W=3.14}$$

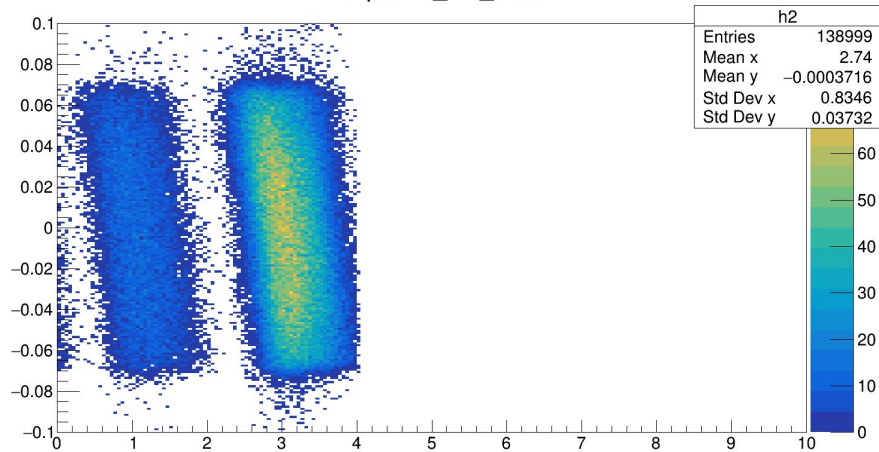
Low ε



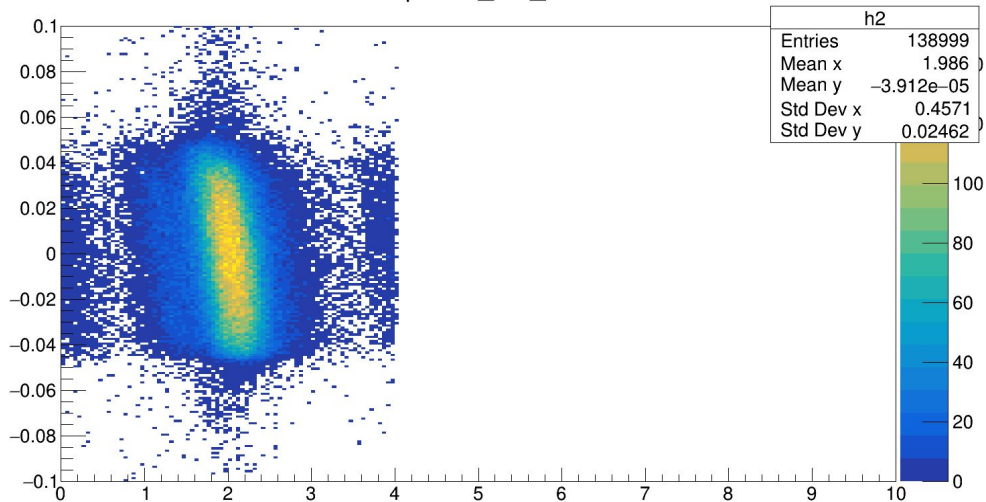
RF

No RF

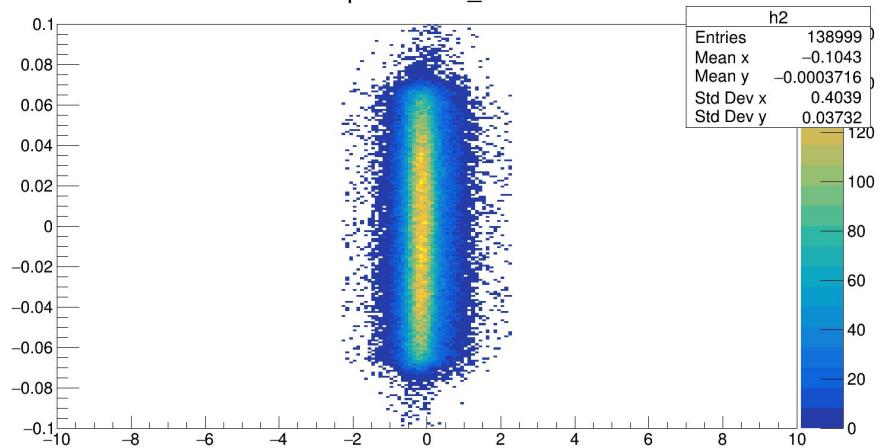
hsxptar:H_RF_Dist



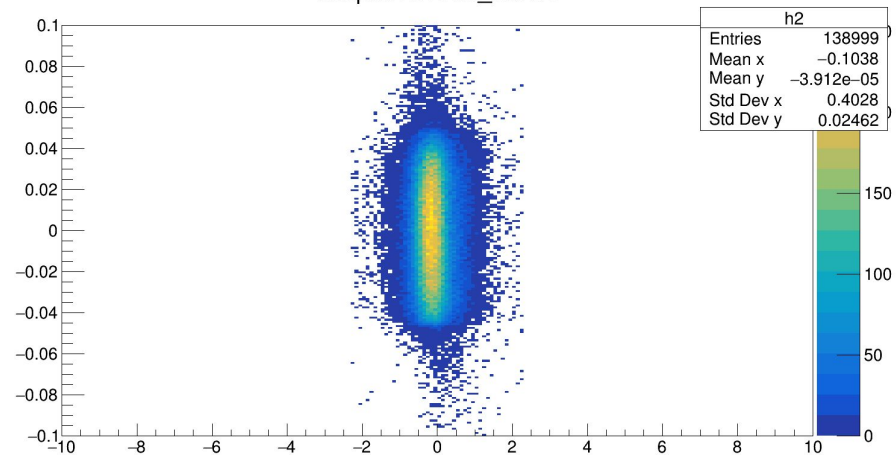
ssxptar:P_RF_Dist



hsxptar:CTime_ROC1



ssxptar:CTime_ROC1



MM:P_RF_Dist

