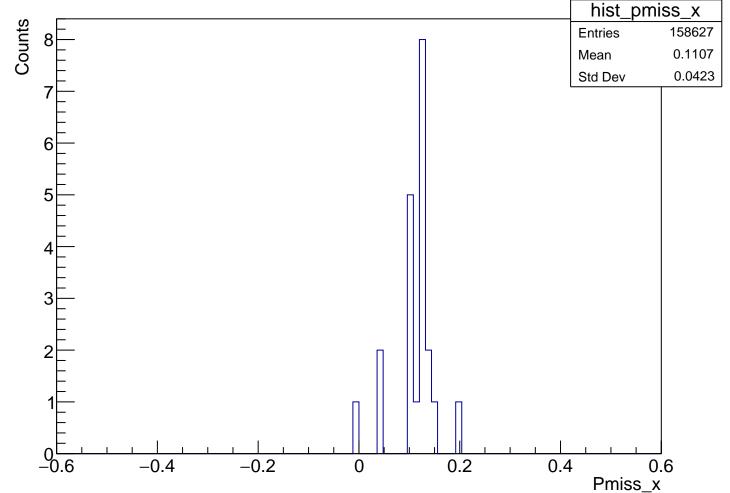
Run 2900: H.kin.W2 hist\_w2 Counts 158627 **Entries** 0 Mean Std Dev 0 8.0 0.6 0.4 0.2 0, 0.05 0.15 0.2 0.25 0.3 0.35 0.4 0.1 W2

Run 2900: H.kin.x\_bj hist\_x\_bj Counts 158627 Entries 0.9288 Mean Std Dev 0.07378 6 5 4 3 2 1.2 x\_bj 0.7 8.0 0.9 1.1

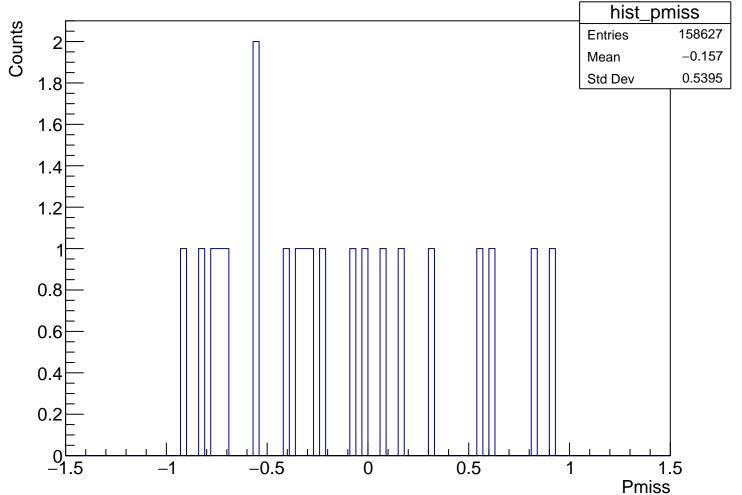
Run 2900: NPS.kin.secondary.pmiss\_x



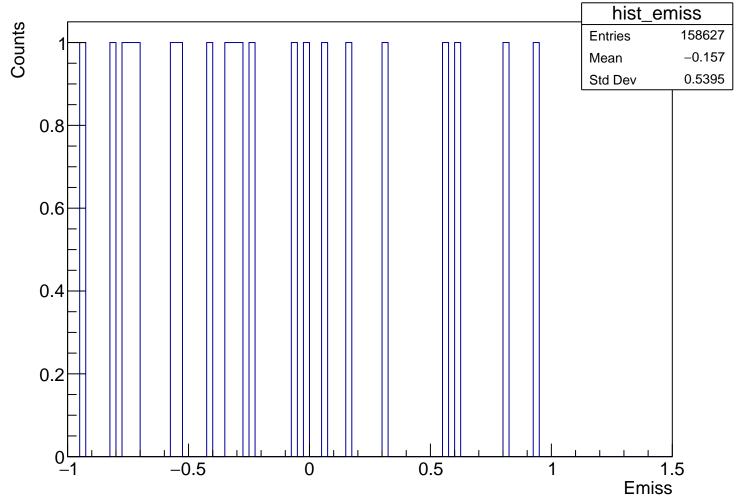
Run 2900: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts **Entries** 158627 -0.3689Mean Std Dev 0.04733 2.5 2 1.5 0.5 -0.4-0.20.2 0.4 0.6 Pmiss\_y

Run 2900: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z Counts **Entries** 158627 0.2701 Mean Std Dev 0.5468 3.5 3 2.5 1.5 0.5 0 -10 8 0 6 10 Pmiss\_z

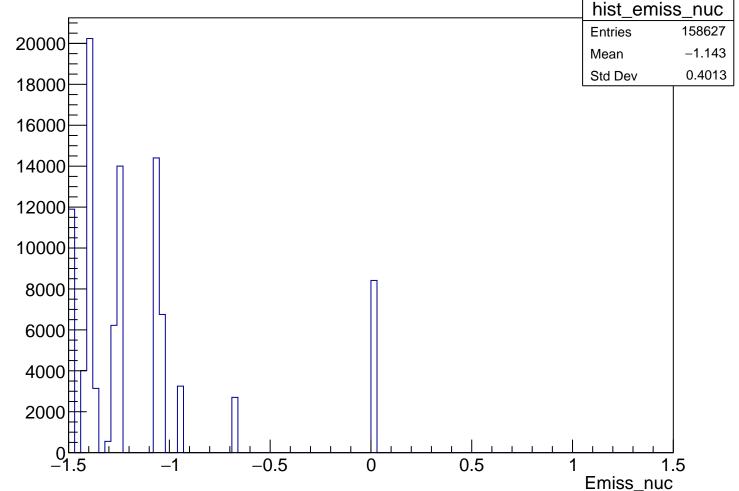
Run 2900: NPS.kin.secondary.pmiss



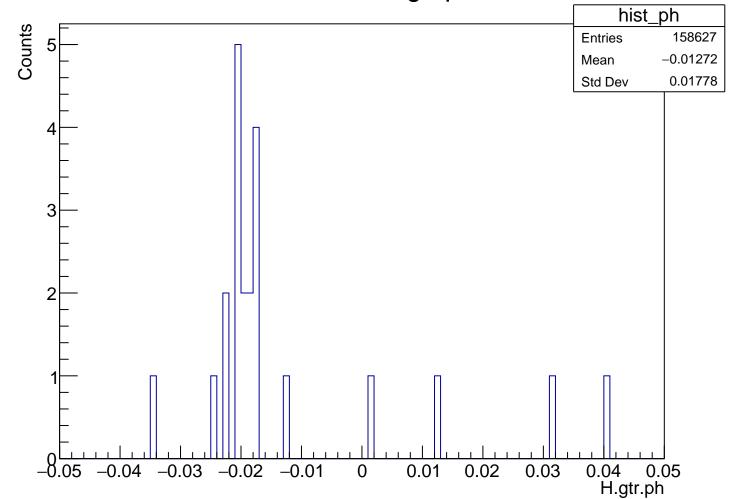
Run 2900: NPS.kin.secondary.emiss



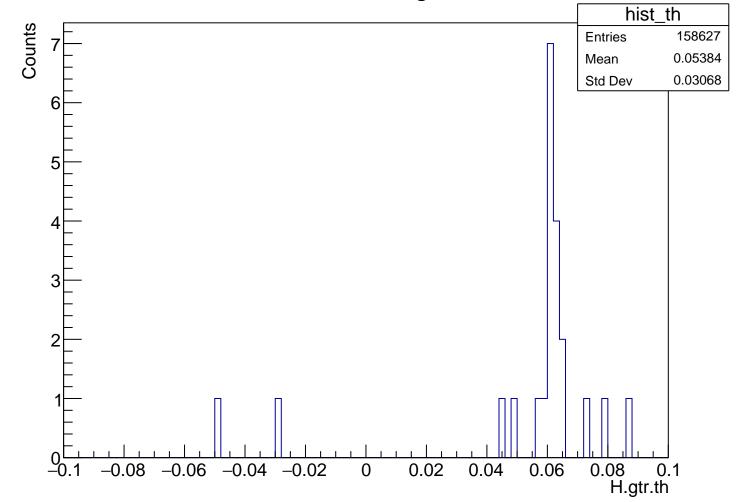
Run 2900: NPS.kin.secondary.emiss\_nuc



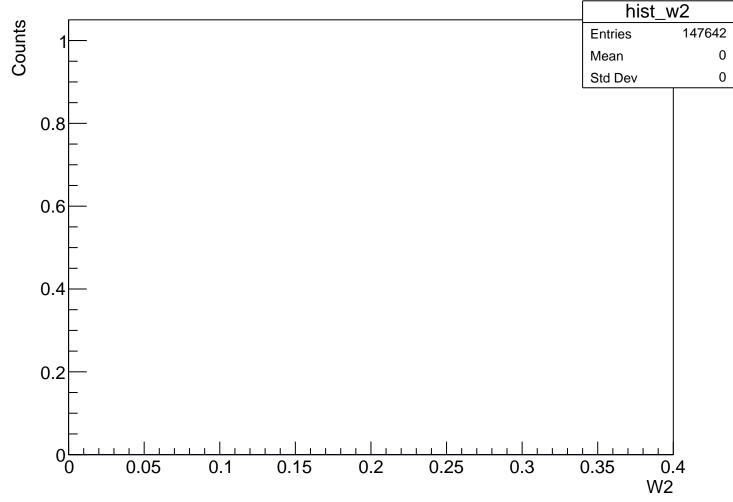
Run 2900: H.gtr.ph



Run 2900: H.gtr.th

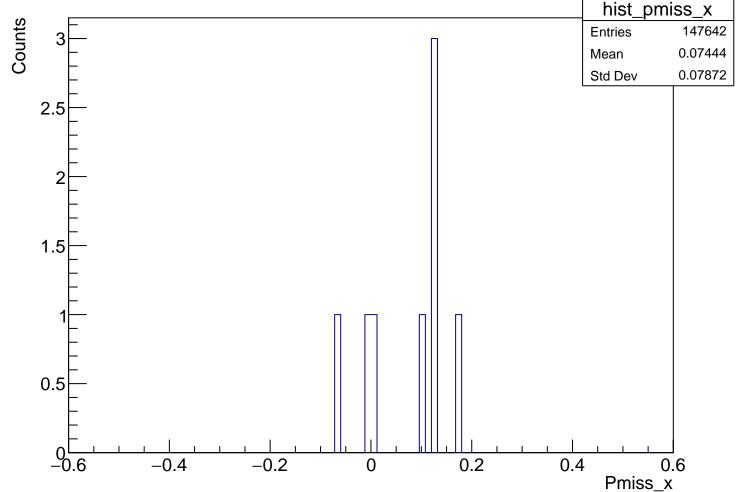


Run 2901: H.kin.W2



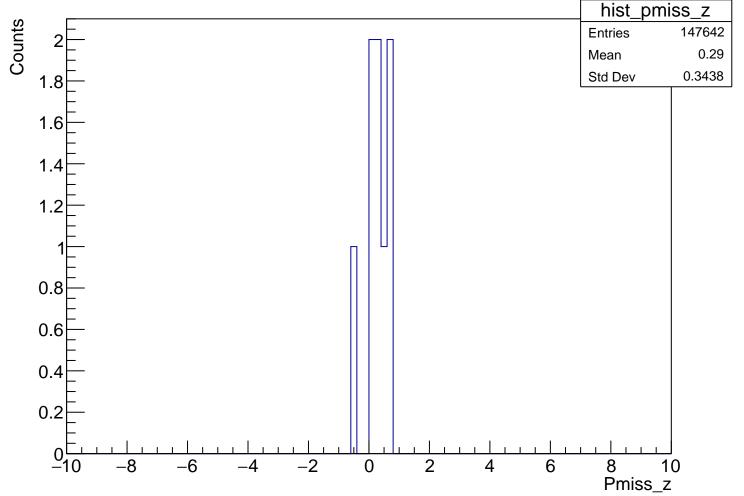
Run 2901: H.kin.x\_bj hist\_x\_bj Counts Entries 147642 0.897 Mean Std Dev 0.09172 3.5 3 2.5 1.5 0.5 1.2 x\_bj 0.7 8.0 0.9 1.1

Run 2901: NPS.kin.secondary.pmiss\_x

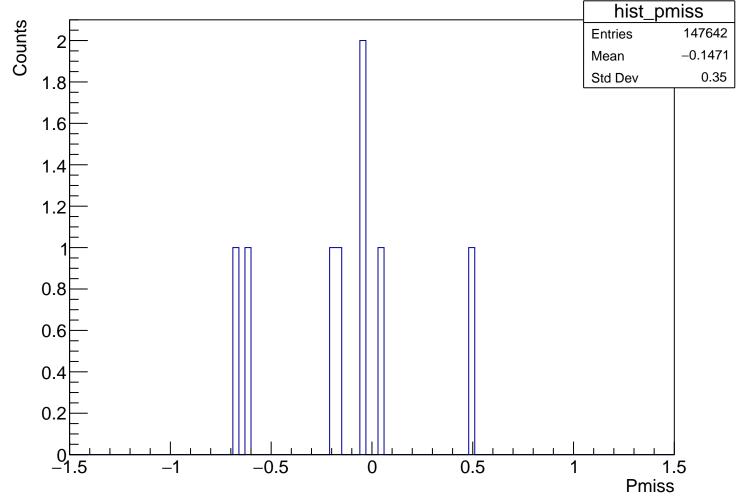


Run 2901: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts 147642 **Entries** -0.4083Mean Std Dev 0.1085 8.0 0.6 0.4 0.2 -0.4-0.20.2 0.4 0 0.6 Pmiss\_y

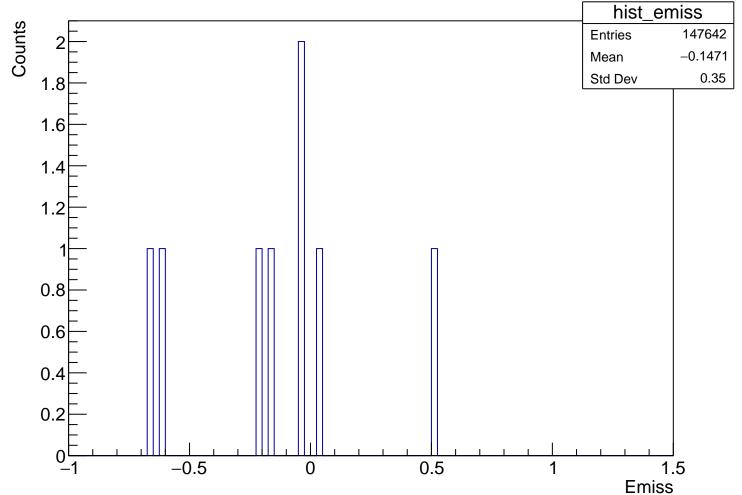
Run 2901: NPS.kin.secondary.pmiss\_z



Run 2901: NPS.kin.secondary.pmiss

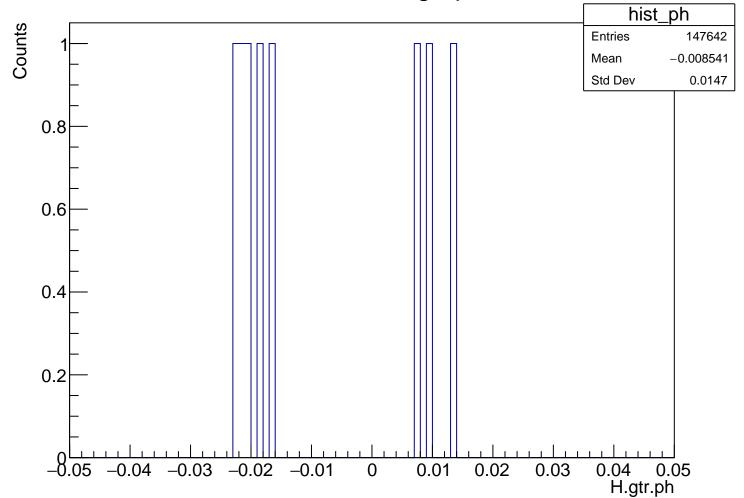


Run 2901: NPS.kin.secondary.emiss

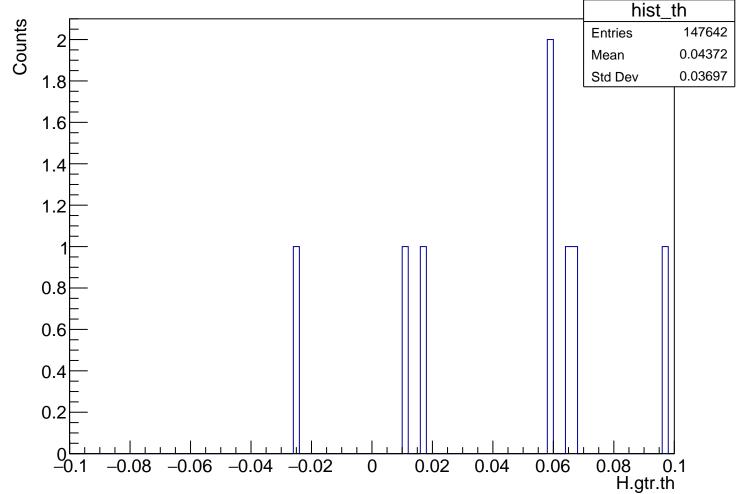


Run 2901: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc 147642 **Entries** -0.5407Mean 50000 0.6279 Std Dev 40000 30000 20000 10000 -0.50.5 Emiss\_nuc

Run 2901: H.gtr.ph



Run 2901: H.gtr.th



Run 2902: H.kin.W2 hist\_w2 Counts Entries 4098 Mean 0 Std Dev 0 8.0 0.6 0.4 0.2 0, 0.05 0.15 0.2 0.25 0.3 0.35 0.4 0.1

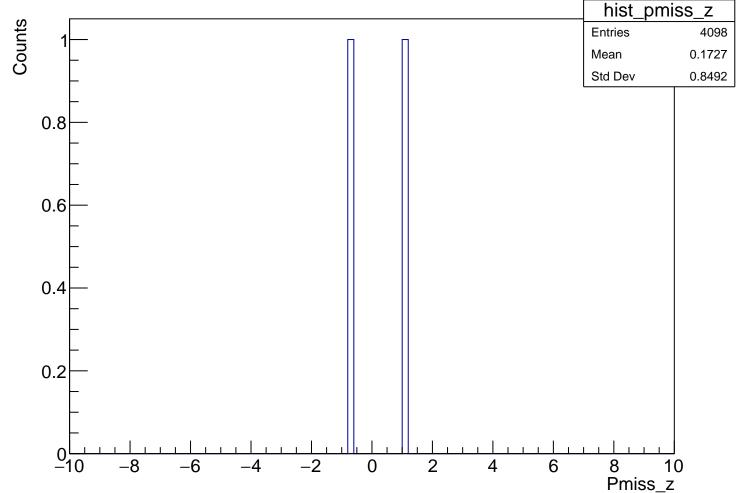
W2

Run 2902: H.kin.x\_bj hist\_x\_bj Counts Entries 4098 Mean 0.9501 Std Dev 0.01011 0.8 0.6 0.4 0.2 1.2 x\_bj 8.6 0.7 8.0 0.9 1.1

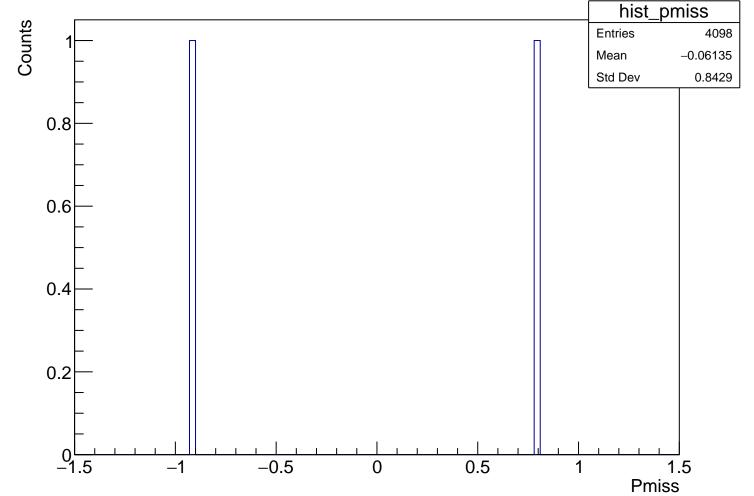
Run 2902: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x Counts **Entries** 4098 0.1282 Mean Std Dev 0.0223 8.0 0.6 0.4 0.2 -0.4-0.20.2 0.4 0.6 Pmiss\_x

Run 2902: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts **Entries** 4098 Mean -0.2936Std Dev 0.05278 8.0 0.6 0.4 0.2 0<u>└</u> -0.6 -0.4-0.20.2 0.4 0.6 Pmiss\_y

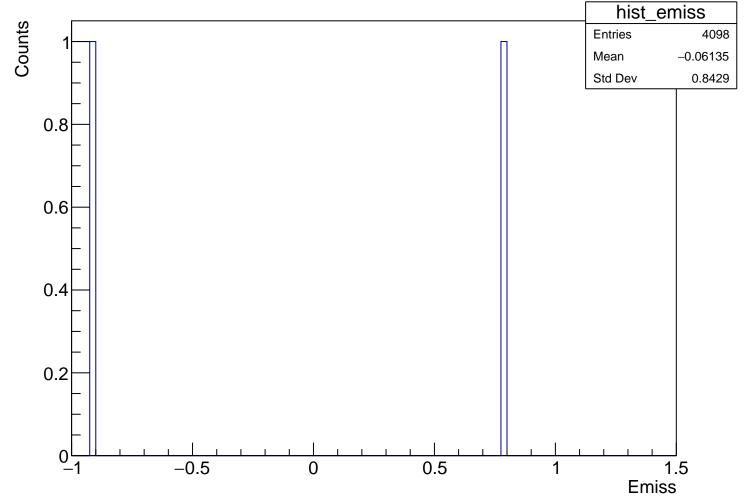
Run 2902: NPS.kin.secondary.pmiss\_z



Run 2902: NPS.kin.secondary.pmiss

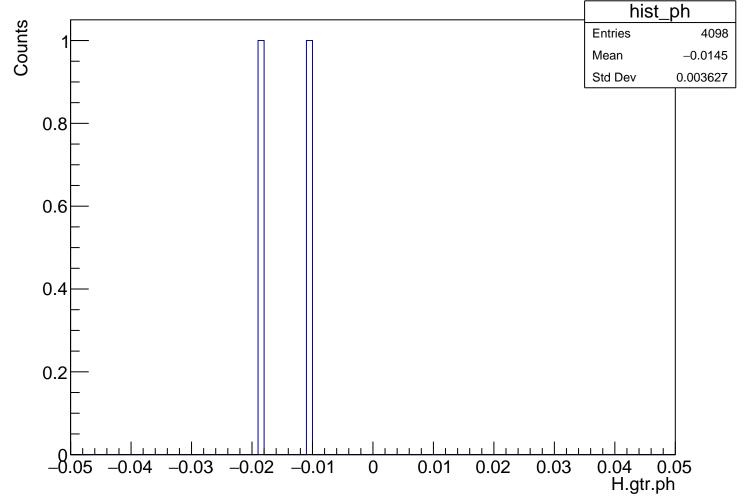


Run 2902: NPS.kin.secondary.emiss

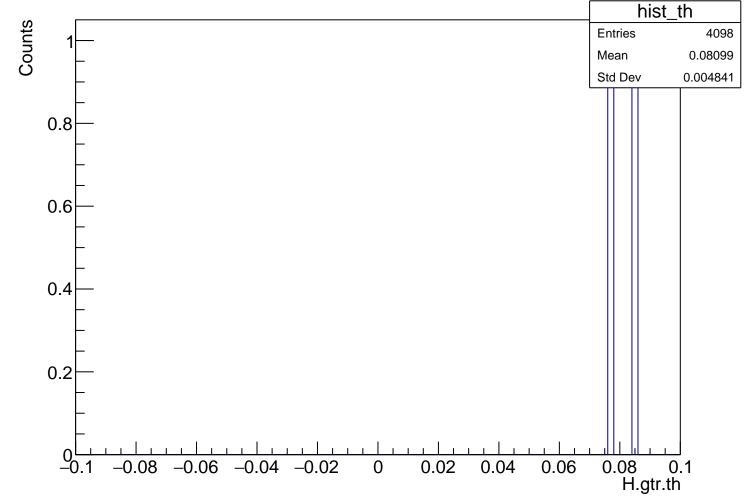


Run 2902: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc **Entries** 4098 3000 -0.5374Mean Std Dev 0.2449 2500 2000 1500 1000 500 -0.50.5 Emiss\_nuc

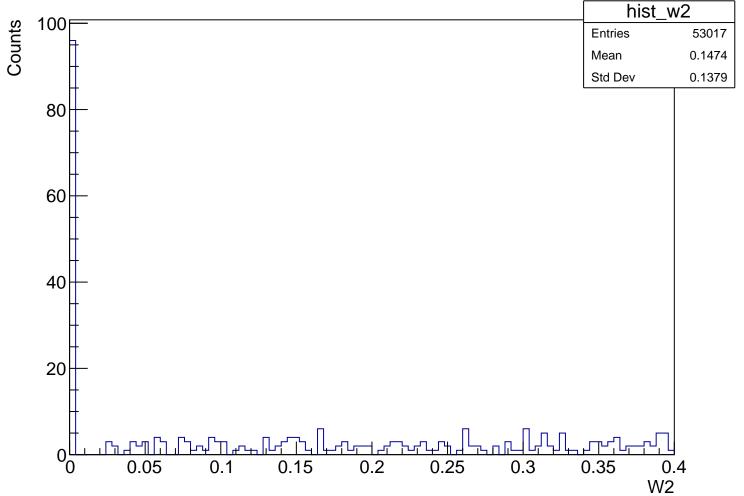
Run 2902: H.gtr.ph

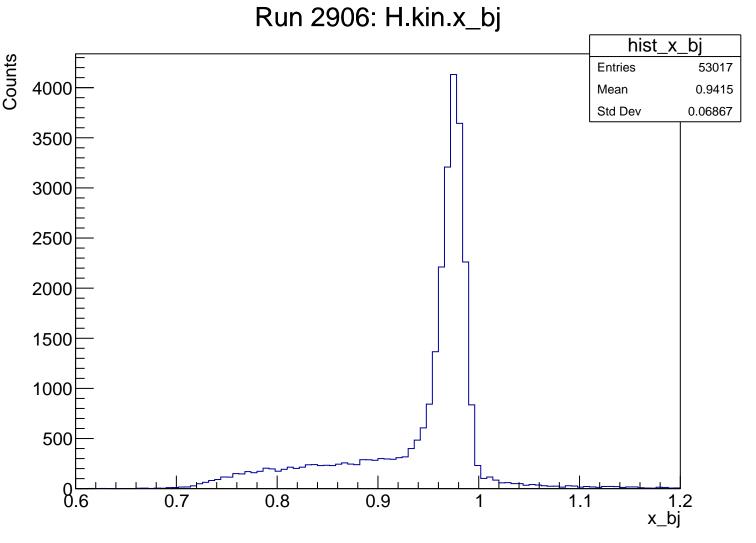


Run 2902: H.gtr.th



Run 2906: H.kin.W2





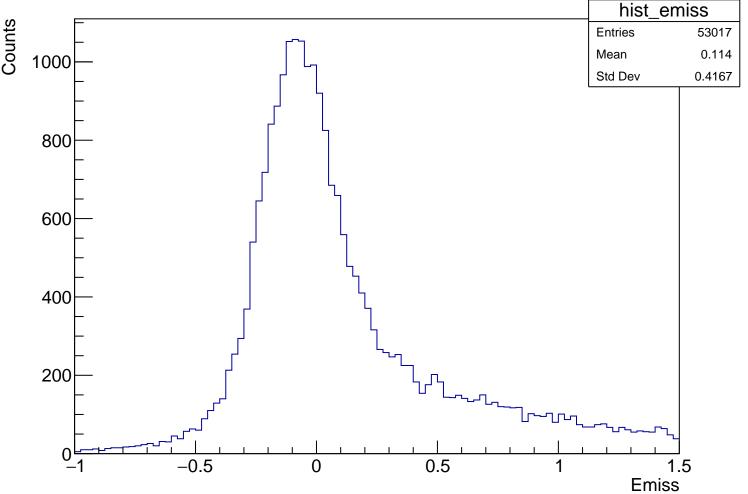
Run 2906: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 1400 **Entries** 53017 -0.04425Mean Std Dev 0.1451 1200 1000 800 600 400 200 -0.2-0.40.2 0.4 0.6 Pmiss\_x

Run 2906: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts **Entries** 53017 900 -0.009018Mean Std Dev 0.1948 800 700 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss\_y

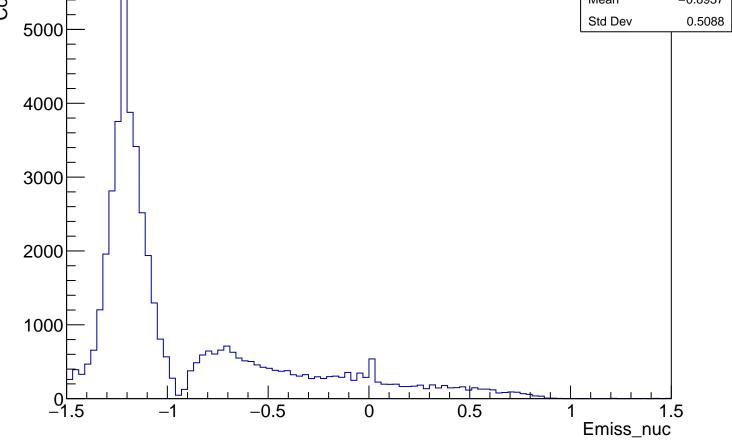
Run 2906: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z **Entries** 53017 7000 -0.5956Mean Std Dev 1.45 6000 5000 4000 3000 2000 1000 0 -10 8 6 10 Pmiss\_z

Run 2906: NPS.kin.secondary.pmiss hist\_pmiss **Entries** 53017 0.1097 Mean 1200 Std Dev 0.4225 1000 800 600 400 200 -0.50.5 **Pmiss** 

Run 2906: NPS.kin.secondary.emiss



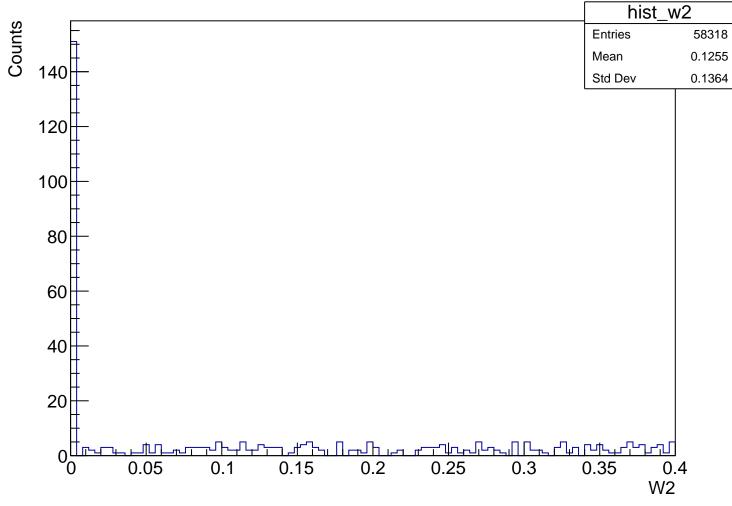
Run 2906: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc **Entries** 53017 Mean -0.8937Std Dev 0.5088

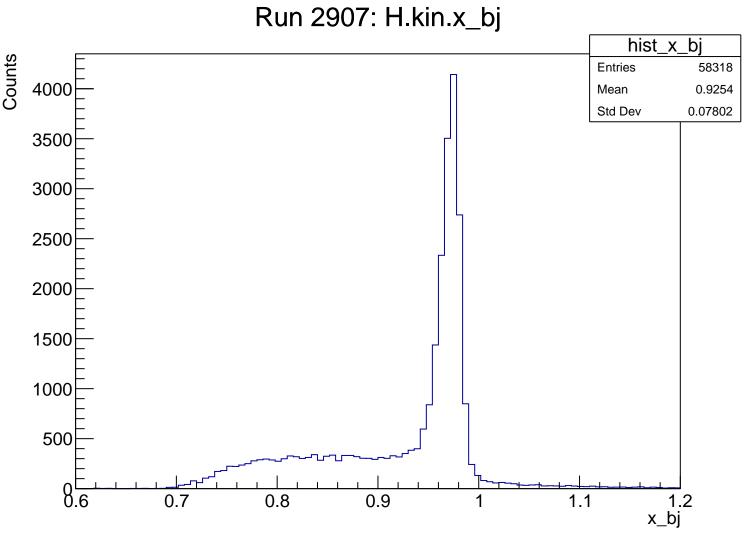


Run 2906: H.gtr.ph hist\_ph Counts Entries 53017 0.0009498 Mean 600 Std Dev 0.01561 500 400 300 200 100 0.04 0.0 H.gtr.ph -0.03-0.020.02 -0.010.01 0.03 0.05 -0.040

Run 2906: H.gtr.th hist\_th Counts **Entries** 53017 -0.003167Mean 500 Std Dev 0.03597 400 300 200 100 0.08 0. H.gtr.th -0.06-0.04 -0.020.02 0.04 0.06 0

## Run 2907: H.kin.W2





Run 2907: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x **Entries** 58318 -0.1403Mean 1200 Std Dev 0.1418 1000 800 600 400 200 -0.4-0.20.2 0.4 0.6 Pmiss\_x

Run 2907: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts 800 **Entries** 58318 -0.008228Mean Std Dev 0.1977 700 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss\_y

Run 2907: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z **Entries** 58318 -0.6121Mean 6000 Std Dev 1.4 5000 4000 3000 2000 1000 0 -10 8 6 10 Pmiss\_z

Run 2907: NPS.kin.secondary.pmiss hist\_pmiss 1200 **Entries** 58318 0.1129 Mean Std Dev 0.4205 1000 800 600 400 200 -0.50.5 **Pmiss** 

Run 2907: NPS.kin.secondary.emiss hist\_emiss 1000F **Entries** 58318 0.1138 Mean Std Dev 0.4194 800 600 400 200 -0.50.5

**Emiss** 

Run 2907: NPS.kin.secondary.emiss\_nuc hist emiss nuc **Entries** 58318 4500 Mean -0.898Std Dev 0.5473 4000 3500 3000 2500 2000 1500 1000 500

0.5

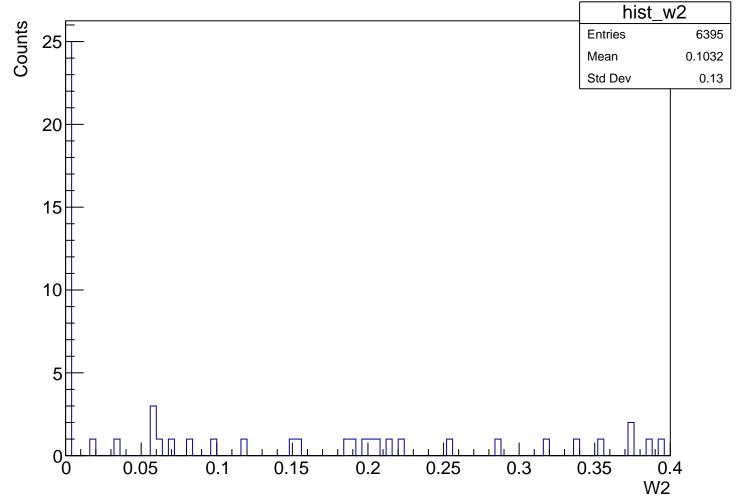
Emiss\_nuc

-0.5

Run 2907: H.gtr.ph hist\_ph Counts Entries 58318 -0.002493Mean 700 Std Dev 0.01479 600 500 400 300 200 100 0.04 0.0 H.gtr.ph -0.03-0.02-0.010.01 0.02 0.03 0.05 0

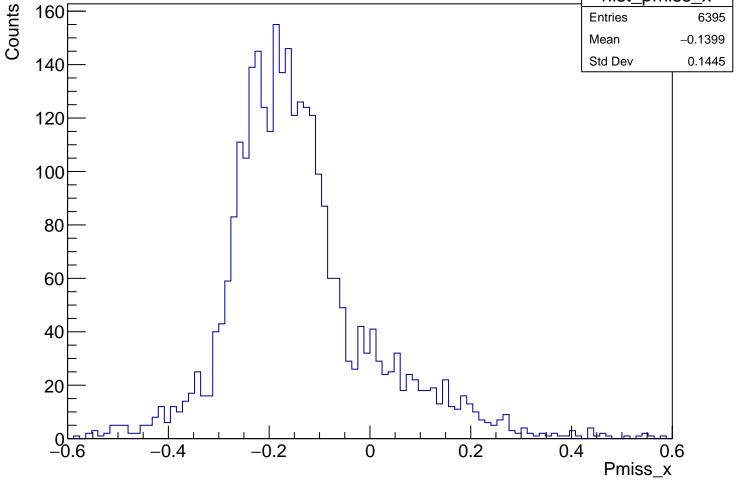
Run 2907: H.gtr.th hist th Counts **Entries** 58318 500 -0.004591Mean Std Dev 0.03752 400 300 200 100 -0.08 -0.06-0.04 -0.0280.0 0.02 0.04 0.06 0 H.gtr.th

Run 2908: H.kin.W2



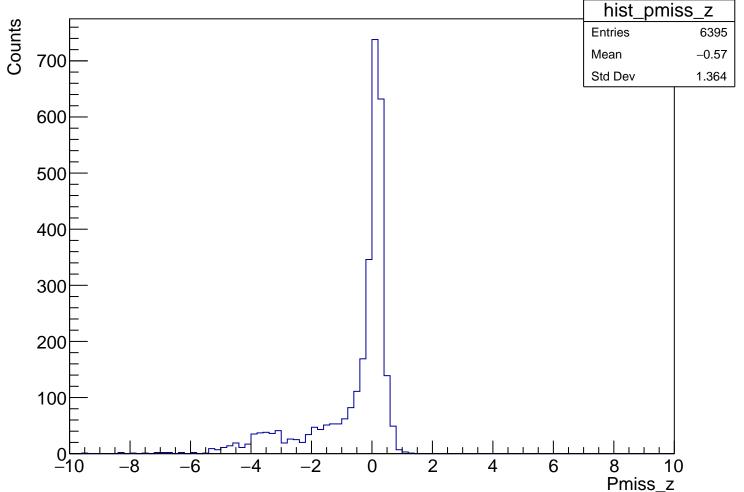
Run 2908: H.kin.x\_bj hist\_x\_bj Counts Entries 6395 450 Mean 0.9272 Std Dev 0.07653 400 350 300 250 200 150 100 50 \_^~~ 1.2 x\_bj 0.7 8.0 0.9

Run 2908: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x **Entries** 6395 Mean -0.1399 Std Dev 0.1445

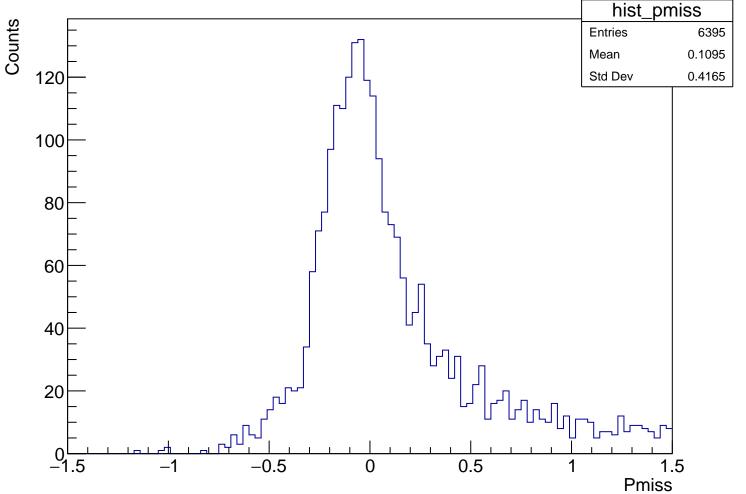


Run 2908: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts **Entries** 6395 Mean -0.0122990 Std Dev 0.1955 80 70 60 50 40 30 20 10 -0.4-0.20.2 0.4 0.6 Pmiss\_y

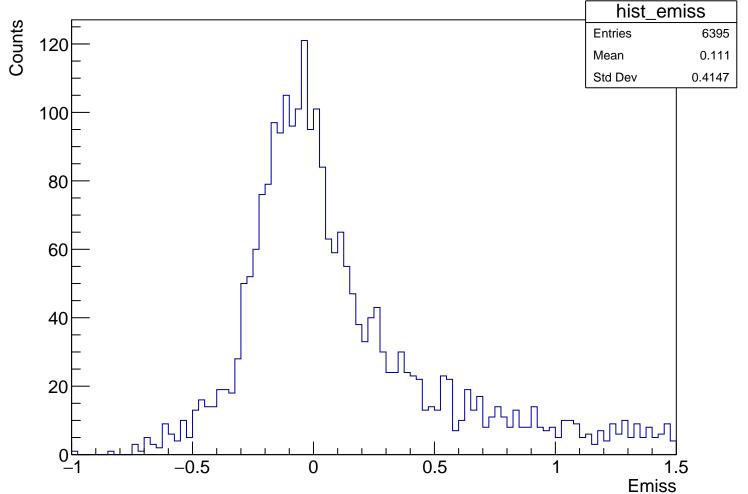
Run 2908: NPS.kin.secondary.pmiss\_z



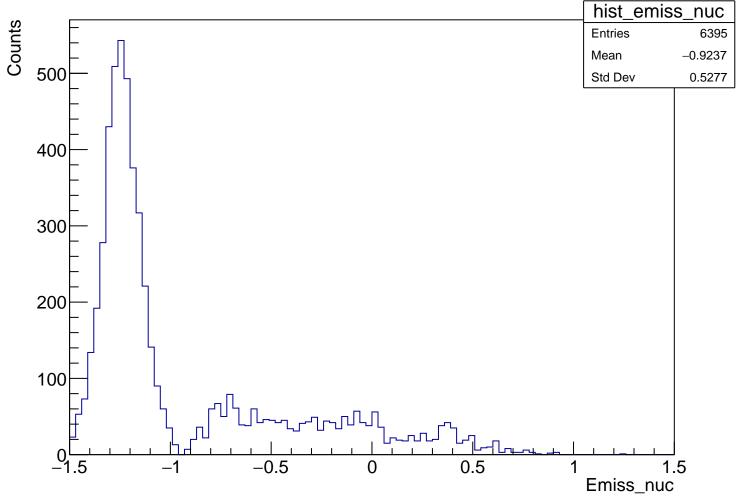
Run 2908: NPS.kin.secondary.pmiss

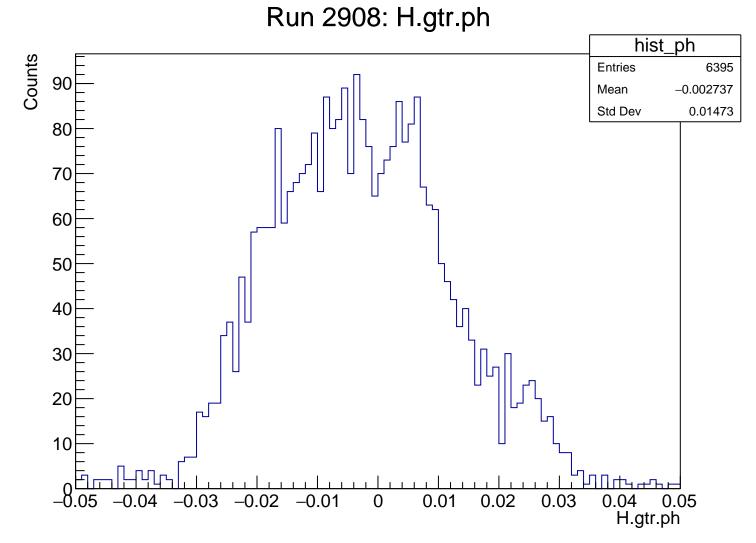


Run 2908: NPS.kin.secondary.emiss



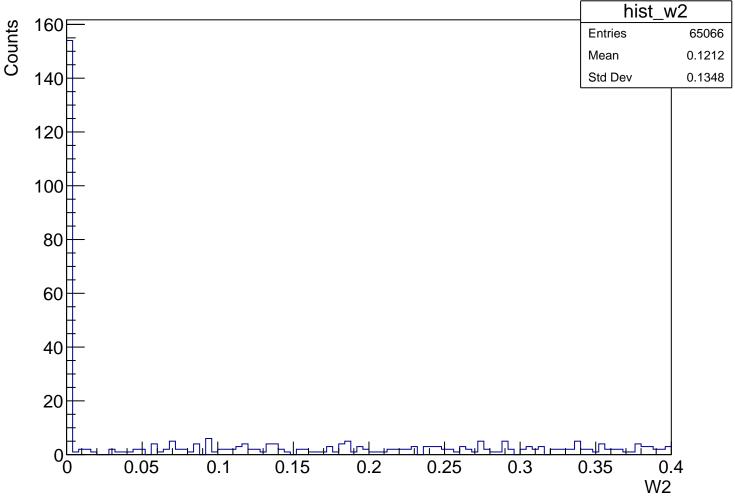
Run 2908: NPS.kin.secondary.emiss\_nuc

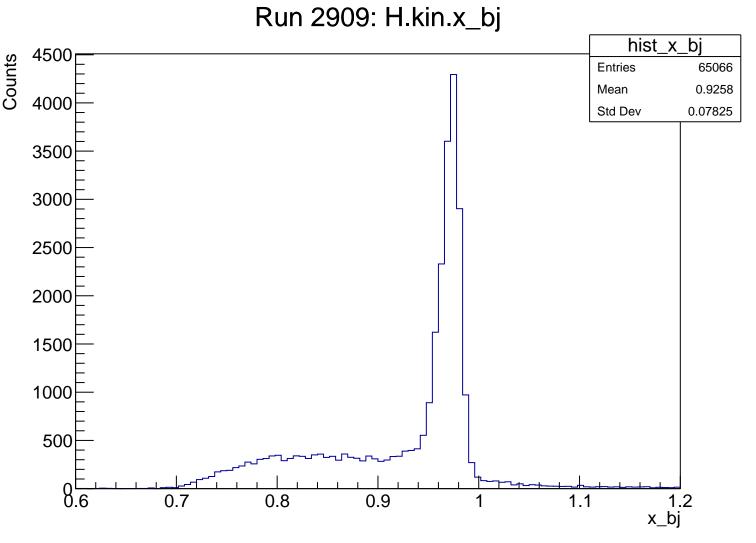




Run 2908: H.gtr.th hist\_th Counts Entries 6395 -0.004281 Mean 70 Std Dev 0.03748 60 50 40 30 20 10 0.08 0.1 H.gtr.th -0.08 -0.06 -0.04 -0.020.02 0.04 0.06 0

Run 2909: H.kin.W2





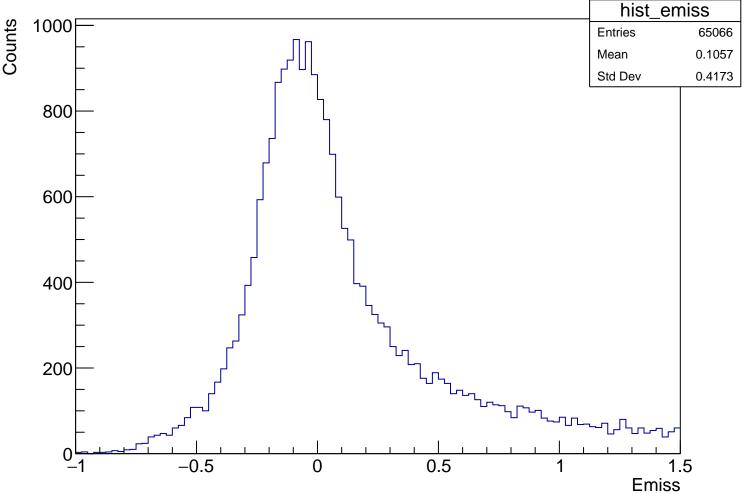
Run 2909: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 1400 **Entries** 65066 -0.1396Mean Std Dev 0.1415 1200 1000 800 600 400 200 -0.20.2 -0.40.4 0.6 Pmiss\_x

Run 2909: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y 800f Counts **Entries** 65066 -0.009562Mean 700 Std Dev 0.1977 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss\_y

Run 2909: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z 7000F **Entries** 65066 -0.6085Mean Std Dev 1.401 6000 5000 4000 3000 2000 1000 0 -10 8 6 10 Pmiss\_z

Run 2909: NPS.kin.secondary.pmiss hist\_pmiss 1200F **Entries** 65066 0.1047 Mean Std Dev 0.4187 1000 800 600 400 200 -0.50.5 **Pmiss** 

Run 2909: NPS.kin.secondary.emiss

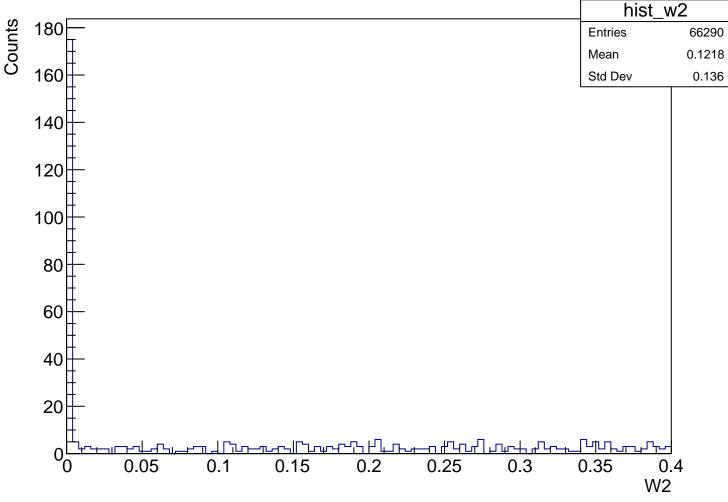


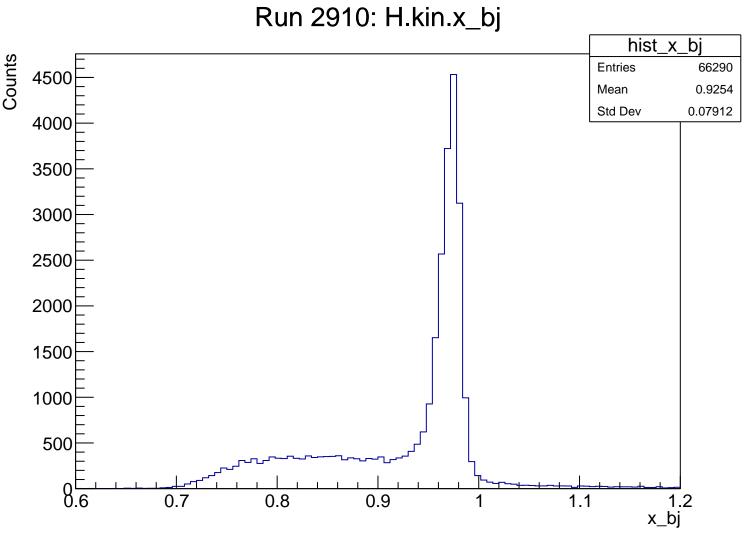
Run 2909: NPS.kin.secondary.emiss\_nuc hist emiss nuc **Entries** 65066 8000 Mean -0.9102Std Dev 0.5422 7000 6000 5000 4000 3000 2000 1000 -0.50.5 Emiss\_nuc

Run 2909: H.gtr.ph hist\_ph Counts Entries 65066 -0.002433Mean 800 Std Dev 0.01476 700 600 500 400 300 200 100 -0.03 0.04 0.0 H.gtr.ph -0.020.02 -0.04-0.010.01 0.03 0.05 0

Run 2909: H.gtr.th hist th Counts **Entries** 65066 -0.004012Mean 500 Std Dev 0.03731 400 300 200 100 -0.08 -0.0680.0 -0.04-0.020.02 0.04 0.06 0 0.1 H.gtr.th

## Run 2910: H.kin.W2





Run 2910: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x **Entries** 66290 1400 -0.1412Mean Std Dev 0.142 1200 1000 800 600 400 200 -0.20.2 -0.40.6 0.4 Pmiss\_x

Run 2910: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts **Entries** 66290 800 -0.01013Mean Std Dev 0.2007 700 600 500 400 300 200 100 -0.4-0.20.2 0.4 0.6 Pmiss\_y

Run 2910: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z **Entries** 66290 7000 -0.5986Mean Std Dev 1.387 6000 5000 4000 3000 2000 1000 0 -10 8 6 10 Pmiss\_z

Run 2910: NPS.kin.secondary.pmiss hist\_pmiss **Entries** 66290 1200 0.1086 Mean Std Dev 0.4181 1000 800 600 400 200 -0.50.5 **Pmiss** 

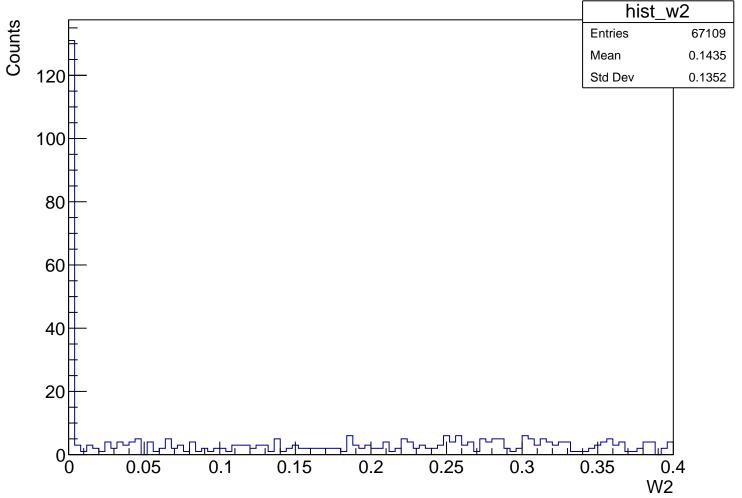
Run 2910: NPS.kin.secondary.emiss hist\_emiss **Entries** 66290 1000 0.1095 Mean Std Dev 0.4168 800 600 400 200 -0.50.5 **Emiss** 

Run 2910: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc **Entries** 66290 -0.9118Mean Std Dev 0.5411 5000 4000 3000 2000 1000 -0.50.5 Emiss\_nuc

Run 2910: H.gtr.ph hist\_ph Counts Entries 66290 800 -0.002363Mean Std Dev 0.01481 700 600 500 400 300 200 100 0.04 0.0 H.gtr.ph -0.03-0.020.02 0.03 -0.04-0.010.01 0.05 0

Run 2910: H.gtr.th hist th Counts **Entries** 66290 -0.004179Mean Std Dev 500 0.03734 400 300 200 100 -0.06-0.02-0.08 -0.040.02 0.04 0.06 80.0 0 H.gtr.th

Run 2911: H.kin.W2



Run 2911: H.kin.x\_bj hist\_x\_bj 5000 Entries 67109 Mean 0.9417 Std Dev 0.06864 4000 3000 2000 1000 8.0 0.9 0.7

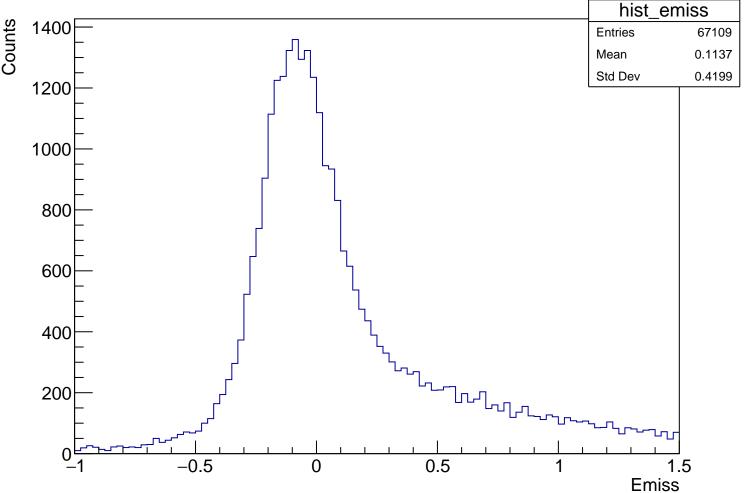
Run 2911: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x **Entries** 67109 1400 -0.0454Mean Std Dev 0.1469 1200 1000 800 600 400 200 -0.4-0.20.2 0.4 0.6 Pmiss\_x

Run 2911: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts **Entries** 67109 Mean -0.009771800 Std Dev 0.1972 700 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss\_y

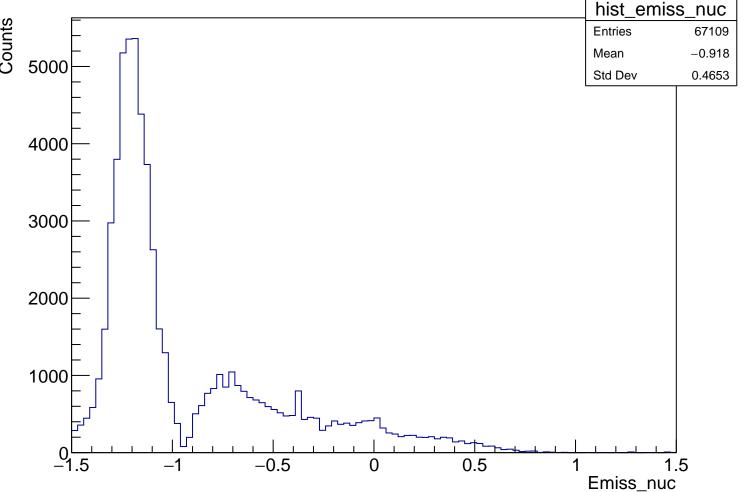
Run 2911: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z **Entries** -0.4519Mean Std Dev 1.226 -10 Pmiss\_z

Run 2911: NPS.kin.secondary.pmiss hist\_pmiss **Entries** 67109 1600 0.1086 Mean Std Dev 0.4267 1400 1200 1000 800 600 400 200 -0.50.5 **Pmiss** 

Run 2911: NPS.kin.secondary.emiss



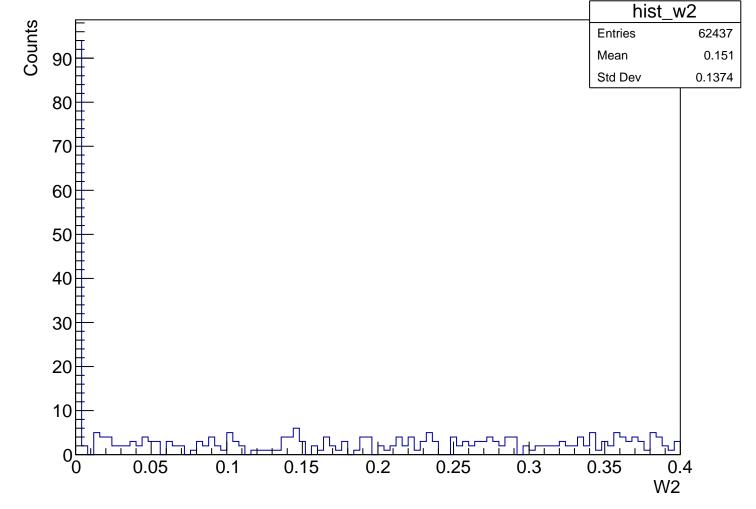
Run 2911: NPS.kin.secondary.emiss\_nuc **Entries** 

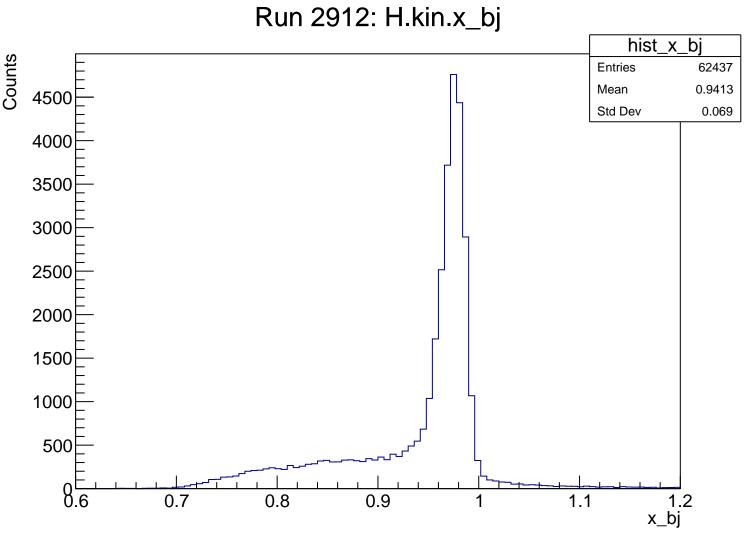


Run 2911: H.gtr.ph hist\_ph Counts Entries 67109 800 0.0007711 Mean Std Dev 0.01546 700 600 500 400 300 200 100 0.04 0.0 H.gtr.ph -0.03 -0.02 0.02 -0.04-0.010.01 0.03 0.05 0

Run 2911: H.gtr.th hist\_th 700 Counts Entries 67109 Mean -0.003108Std Dev 0.03606 600 500 400 300 200 100 0.08 0.1 H.gtr.th -0.08 -0.06-0.04 -0.020.02 0.04 0.06 0

Run 2912: H.kin.W2





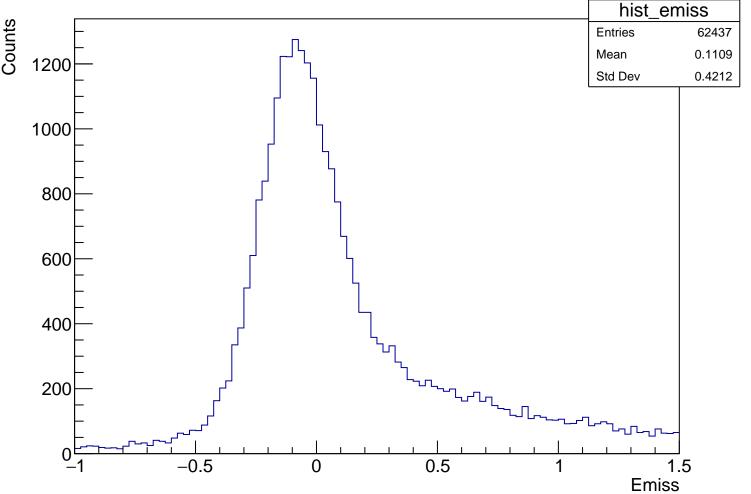
Run 2912: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 1400F **Entries** 62437 -0.04558Mean Std Dev 0.1465 1200 1000 800 600 400 200 -0.20.2 -0.40.4 0.6 Pmiss\_x

Run 2912: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts 800 **Entries** 62437 -0.008966Mean Std Dev 0.1977 700 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss\_y

Run 2912: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z **Entries** -0.4555Mean Std Dev 1.228 -10 Pmiss\_z

Run 2912: NPS.kin.secondary.pmiss hist\_pmiss **Entries** 62437 0.1053 Mean 1400 Std Dev 0.4288 1200 1000 800 600 400 200 -0.50.5 **Pmiss** 

Run 2912: NPS.kin.secondary.emiss



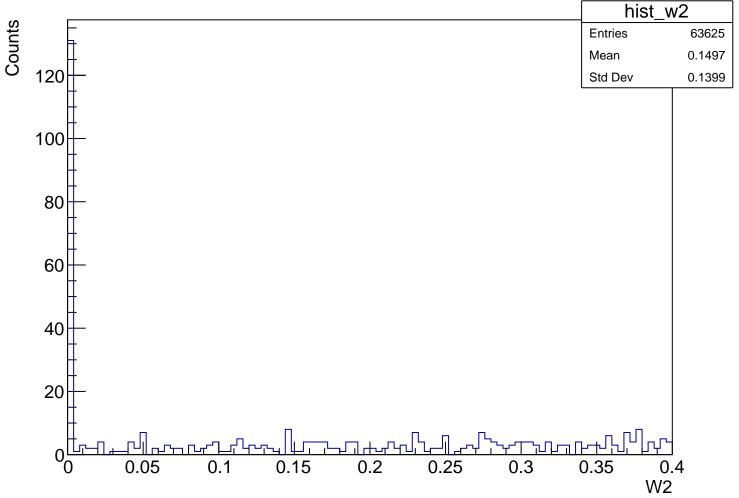
Run 2912: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc **Entries** 62437 -0.9155Mean 5000 Std Dev 0.4723 4000 3000 2000 1000 -0.50.5

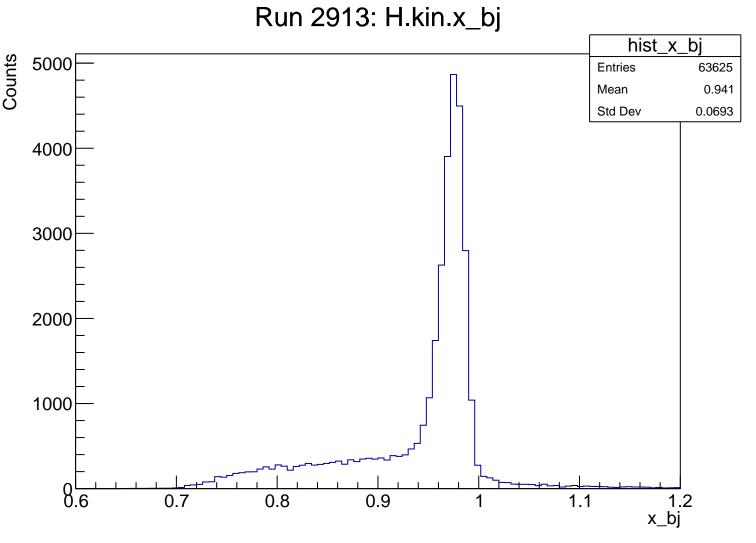
Emiss\_nuc

Run 2912: H.gtr.ph hist\_ph Counts 800 Entries 62437 0.001011 Mean Std Dev 0.01551 700 600 500 400 300 200 100 0.04 0.0 H.gtr.ph -0.03-0.02-0.010.01 0.02 0.03 0.05 -0.040

Run 2912: H.gtr.th hist th Counts Entries 62437 600 -0.00289Mean Std Dev 0.03602 500 400 300 200 100 -0.08 -0.06-0.04 -0.020.02 0.04 0.06 80.0 0 0.1 H.gtr.th

Run 2913: H.kin.W2





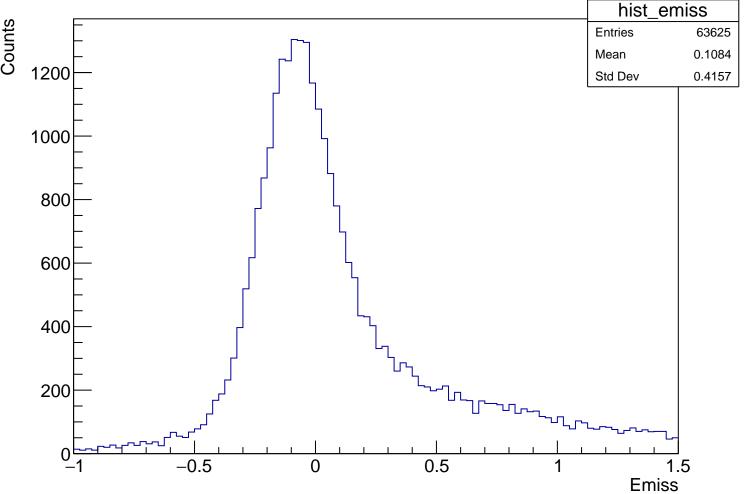
Run 2913: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 1400 **Entries** 63625 -0.04575Mean Std Dev 0.1473 1200 1000 800 600 400 200 -0.20.2 -0.40.4 0.6 Pmiss\_x

Run 2913: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts 900 **Entries** 63625 Mean -0.008679800 Std Dev 0.1985 700 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss\_y

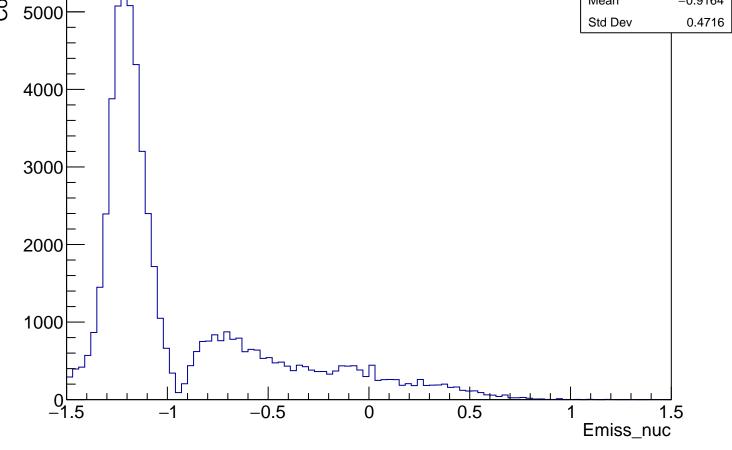
Run 2913: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z **Entries** -0.4516Mean Std Dev 1.22 -10 Pmiss\_z

Run 2913: NPS.kin.secondary.pmiss hist\_pmiss **Entries** 63625 1600 0.104 Mean Std Dev 0.4219 1400 1200 1000 800 600 400 200 -0.50.5 **Pmiss** 

Run 2913: NPS.kin.secondary.emiss



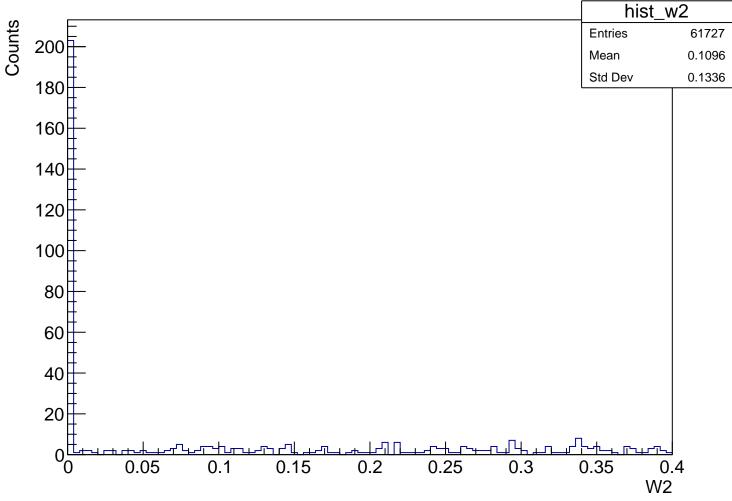
Run 2913: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc **Entries** 63625 -0.9164Mean Std Dev 0.4716



Run 2913: H.gtr.ph hist\_ph Counts 800 **Entries** 63625 0.0008689 Mean Std Dev 0.01551 700 600 500 400 300 200 100 -0.03-0.02-0.010.01 0.02 0.03 0.05 -0.040 0.04 H.gtr.ph

Run 2913: H.gtr.th hist th Counts **Entries** 63625 -0.00318Mean 600 Std Dev 0.03607 500 400 300 200 100 -0.08 -0.06-0.04 -0.0280.0 0.02 0.04 0.06 0 0.1 H.gtr.th

## Run 2914: H.kin.W2



Run 2914: H.kin.x\_bj hist\_x\_bj 4500E Entries 61727 0.9255 Mean 4000 Std Dev 0.07874 3500 3000 2500 2000 1500 1000 500 1.2 x\_bj 8.0 0.7 0.9

Run 2914: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 1400 **Entries** 61727 -0.1407Mean Std Dev 0.1397 1200 1000 800 600 400 200 -0.20.2 -0.40.6 0.4 Pmiss\_x

Run 2914: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts 800 **Entries** 61727 Mean -0.0103Std Dev 0.2007 700 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss\_y

Run 2914: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z 7000 **Entries** 61727 -0.6006Mean Std Dev 1.393 6000 5000 4000 3000 2000 1000 0 -10 8 6 10 Pmiss\_z

Run 2914: NPS.kin.secondary.pmiss hist\_pmiss 1200 **Entries** 61727 0.1044 Mean Std Dev 0.4161 1000 800 600 400 200 -0.50.5 **Pmiss** 

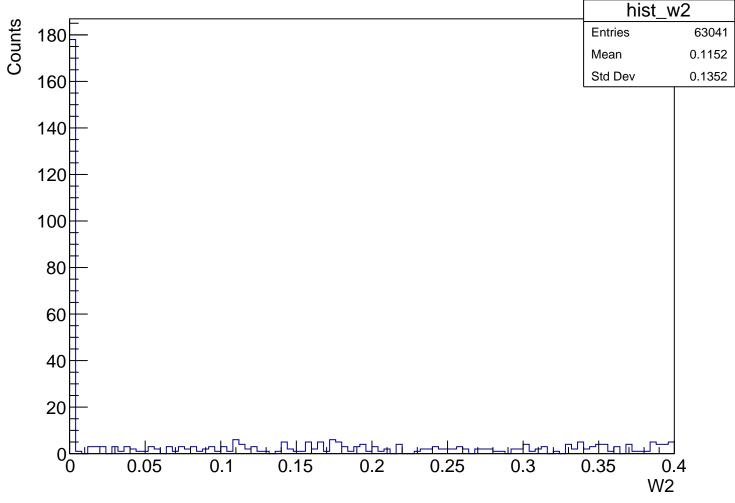
Run 2914: NPS.kin.secondary.emiss hist\_emiss **Entries** 61727 1000 0.1051 Mean Std Dev 0.4152 800 600 400 200 -0.50.5 **Emiss** 

Run 2914: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc **Entries** 61727 5000 Mean -0.9024Std Dev 0.542 4000 3000 2000 1000 0.5 -0.5Emiss\_nuc

Run 2914: H.gtr.ph hist\_ph Counts 800 Entries 61727 -0.002412Mean Std Dev 0.01477 700 600 500 400 300 200 100 0.04 0.0 H.gtr.ph -0.03-0.020.02 0.03 -0.04-0.010.01 0.05 0

Run 2914: H.gtr.th hist\_th **Entries** 61727 -0.003911Mean 500 Std Dev 0.03761 400 300 200 100 0.08 0.1 H.gtr.th -0.08 -0.06-0.04 -0.020.02 0.04 0.06 0

## Run 2915: H.kin.W2



Run 2915: H.kin.x\_bj hist\_x\_bj 4500 Entries 63041 0.9255 Mean 4000 Std Dev 0.0787 3500 3000 2500 2000 1500 1000 500 1.2 x\_bj 0.7 8.0 0.9

Run 2915: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x **Entries** 63041 1400 -0.1397Mean Std Dev 0.1407 1200 1000 800 600 400 200 -0.20.2 -0.40.4 0.6 Pmiss\_x

Run 2915: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y 900f Counts **Entries** 63041 Mean -0.01106800 Std Dev 0.1984 700 600 500 400 300 200 100 -0.4-0.20.2 0.4 0.6 Pmiss\_y

Run 2915: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z 7000 **Entries** 63041 -0.6078Mean Std Dev 1.402 6000 5000 4000 3000 2000 1000 0 -10 8 6 10 Pmiss\_z

Run 2915: NPS.kin.secondary.pmiss hist\_pmiss **Entries** 63041 0.1054 Mean 1200 Std Dev 0.4166 1000 800 600 400 200 -0.50.5 **Pmiss** 

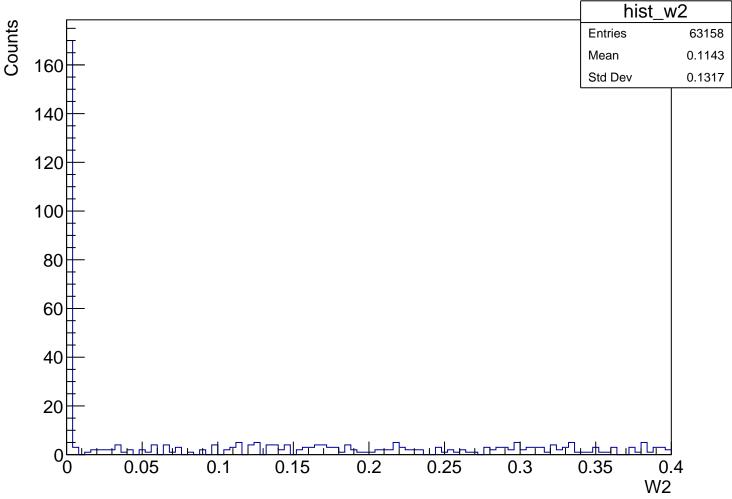
Run 2915: NPS.kin.secondary.emiss hist\_emiss **Entries** 63041 0.1061 Mean 1000 Std Dev 0.4156 800 600 400 200 -0.50.5 **Emiss** 

Run 2915: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc **Entries** 63041 5000 -0.8986Mean Std Dev 0.5457 4000 3000 2000 1000 -0.50.5 Emiss\_nuc

Run 2915: H.gtr.ph hist\_ph Counts 800 Entries 63041 -0.002275Mean Std Dev 0.01477 700 600 500 400 300 200 100 -0.03-0.020.04 0.0 H.gtr.ph -0.04-0.010.01 0.02 0.03 0.05 0

Run 2915: H.gtr.th hist\_th Entries 63041 -0.003894Mean 500 Std Dev 0.03753 400 300 200 100 0.08 0.1 H.gtr.th -0.08 -0.06-0.020.02 0.04 -0.040.06 0

Run 2916: H.kin.W2



Run 2916: H.kin.x\_bj hist\_x\_bj 4500 Entries 63158 0.9257 Mean 4000 Std Dev 0.07887 3500 3000 2500 2000 1500 1000 500 1.2 x\_bj 8.0 0.7 0.9

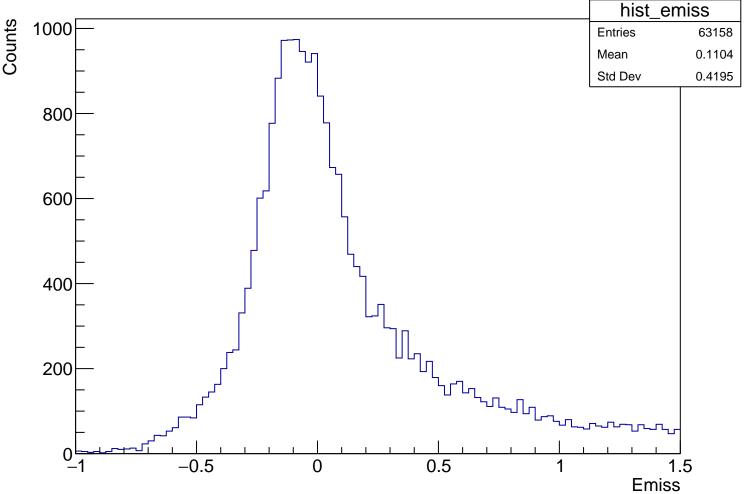
Run 2916: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 1400 **Entries** 63158 -0.1396Mean Std Dev 0.1417 1200 1000 800 600 400 200 -0.20.2 -0.40.4 0.6 Pmiss\_x

Run 2916: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts 900 **Entries** 63158 -0.00873Mean 800 Std Dev 0.1988 700 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss\_y

Run 2916: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z 7000 **Entries** 63158 Mean -0.6222Std Dev 1.419 6000 5000 4000 3000 2000 1000 0 -10 8 6 10 Pmiss\_z

Run 2916: NPS.kin.secondary.pmiss hist\_pmiss 1200 **Entries** 63158 0.1091 Mean Std Dev 0.4212 1000 800 600 400 200 -0.50.5 **Pmiss** 

Run 2916: NPS.kin.secondary.emiss

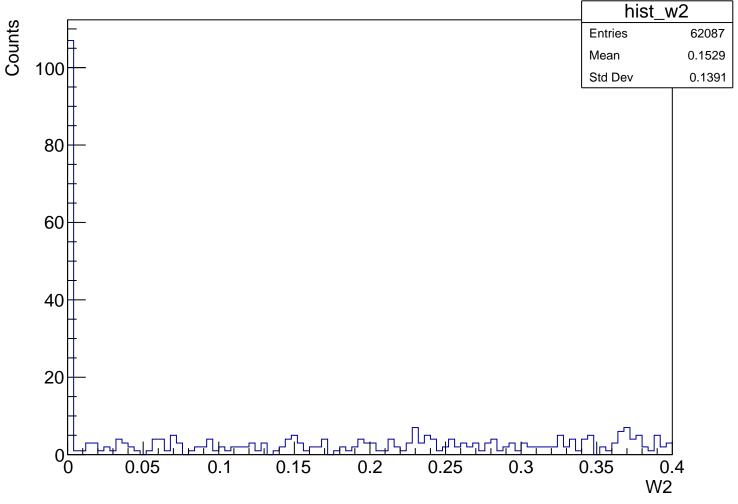


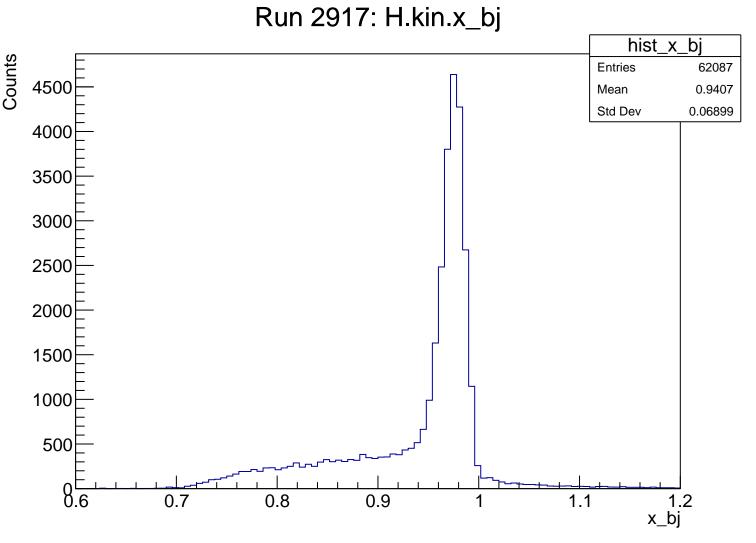
Run 2916: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc **Entries** 63158 5000 Mean -0.897Std Dev 0.5457 4000 3000 2000 1000 0.5 -0.5Emiss\_nuc

Run 2916: H.gtr.ph hist\_ph Counts Entries 63158 800 -0.002385Mean Std Dev 0.01479 700 600 500 400 300 200 100 0.04 0.0 H.gtr.ph -0.03-0.02-0.04-0.010.01 0.02 0.03 0.05 0

Run 2916: H.gtr.th hist\_th **Entries** 63158 -0.004184Mean 500 Std Dev 0.03743 400 300 200 100 0.08 0.1 H.gtr.th -0.08 -0.06-0.04 -0.020.02 0.04 0.06 0

Run 2917: H.kin.W2





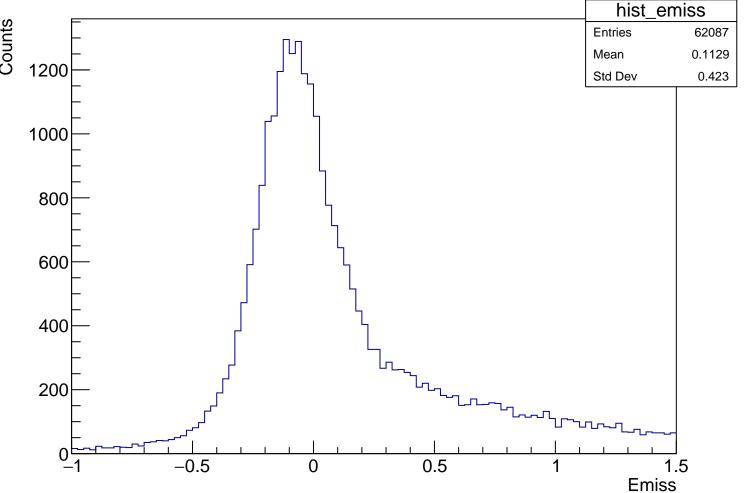
Run 2917: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 1400 **Entries** 62087 -0.04478Mean Std Dev 0.1476 1200 1000 800 600 400 200 -0.20.2 -0.40.4 0.6 Pmiss\_x

Run 2917: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts **Entries** 62087 800 -0.008742Mean Std Dev 0.1984 700 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss\_y

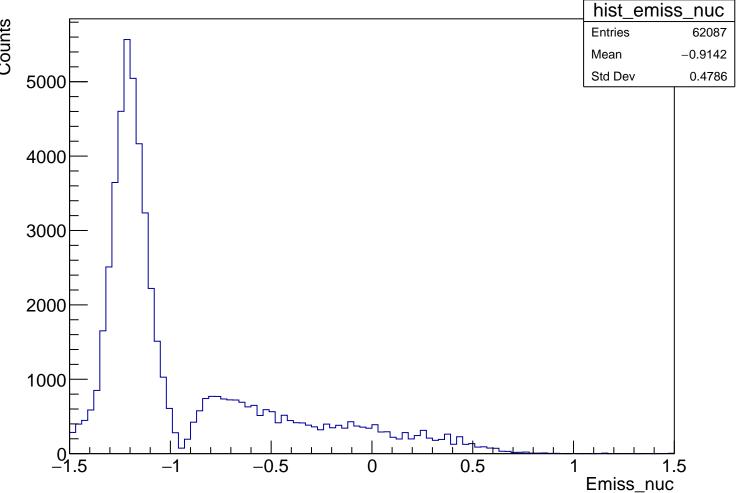
Run 2917: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z **Entries** -0.4573Mean Std Dev 1.226 -10 Pmiss\_z

Run 2917: NPS.kin.secondary.pmiss hist\_pmiss 1600 **Entries** 62087 0.1081 Mean Std Dev 0.4295 1400 1200 1000 800 600 400 200 -0.50.5 **Pmiss** 

Run 2917: NPS.kin.secondary.emiss



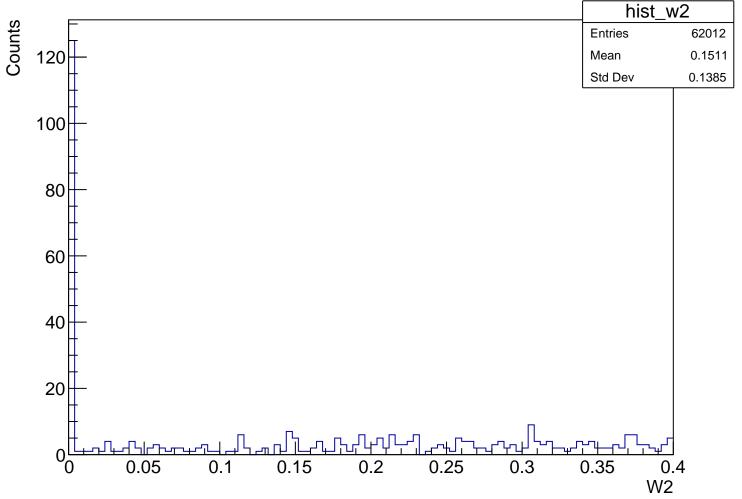
Run 2917: NPS.kin.secondary.emiss\_nuc

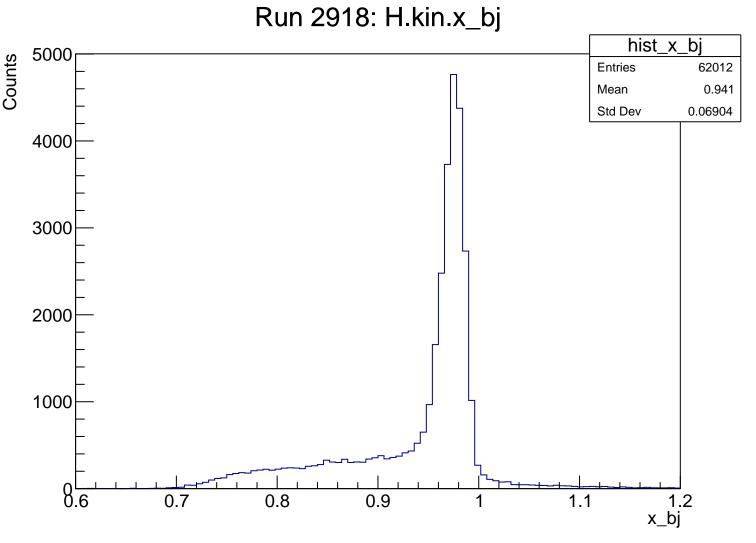


Run 2917: H.gtr.ph hist\_ph Entries 62087 0.000886 Mean 700 Std Dev 0.01553 600 500 400 300 200 100 -0.03-0.02-0.010.01 0.02 0.03 0.04 0.05 0 H.gtr.ph

Run 2917: H.gtr.th hist\_th Counts Entries 62087 -0.003006Mean 600 Std Dev 0.03597 500 400 300 200 100 0.08 0.1 H.gtr.th -0.08 -0.06-0.04 -0.020.02 0.04 0.06 0

Run 2918: H.kin.W2





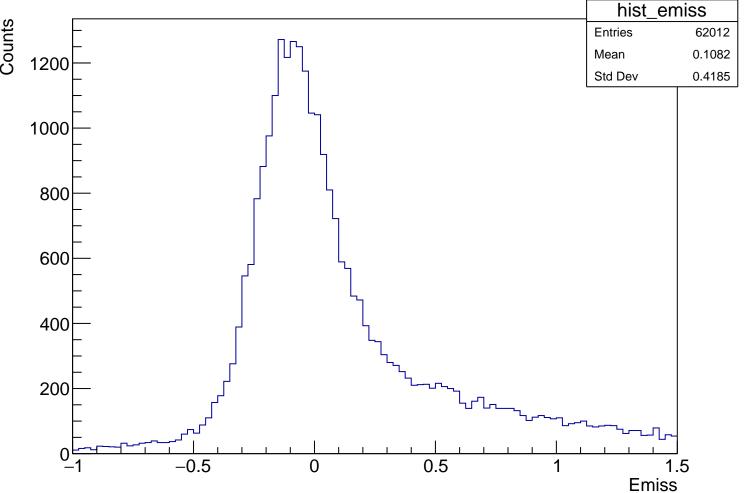
Run 2918: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 1400 **Entries** 62012 -0.04482Mean Std Dev 0.1479 1200 1000 800 600 400 200 -0.4-0.20.2 0.4 0.6 Pmiss\_x

Run 2918: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts **Entries** 62012 800 -0.008836Mean Std Dev 0.1972 700 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss\_y

Run 2918: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z **Entries** -0.4553Mean Std Dev 1.23 -10 Pmiss\_z

Run 2918: NPS.kin.secondary.pmiss hist\_pmiss **Entries** 62012 0.1027 Mean 1400 Std Dev 0.4258 1200 1000 800 600 400 200 -0.50.5 **Pmiss** 

Run 2918: NPS.kin.secondary.emiss

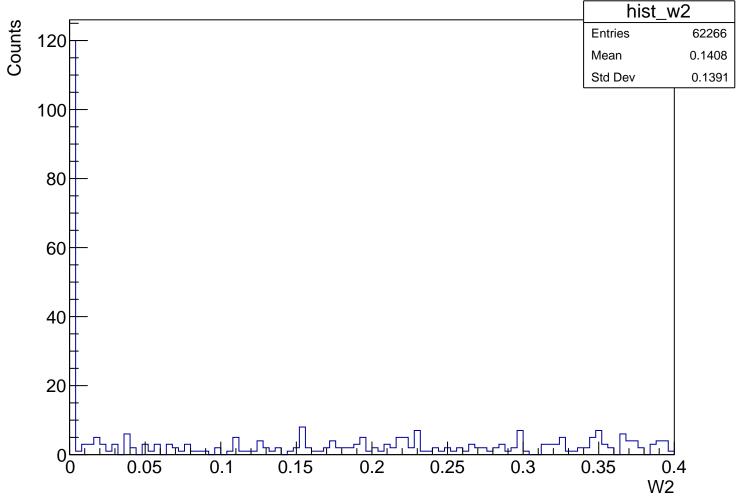


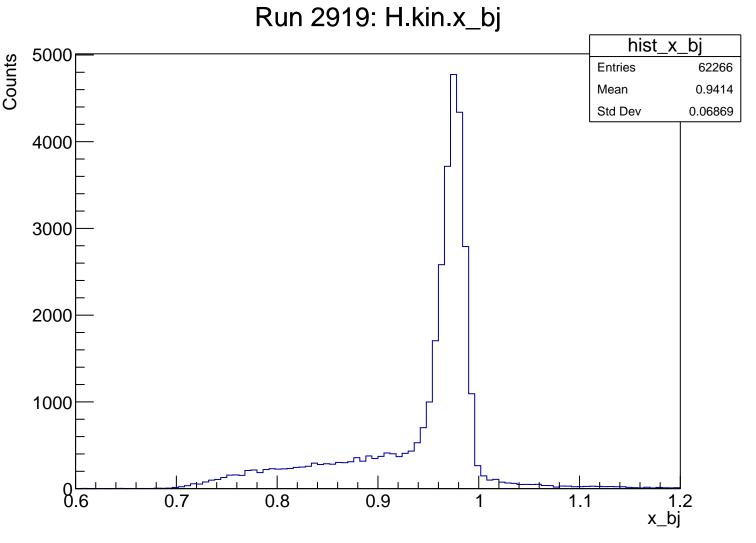
Run 2918: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc **Entries** 62012 -0.92055000 Mean Std Dev 0.4749 4000 3000 2000 1000 -0.50.5 Emiss\_nuc

Run 2918: H.gtr.ph hist\_ph Entries 62012 ~1][/][~] 0.0008414 Mean 700 Std Dev 0.01546 600 500 400 300 200 100 -0.03-0.02-0.04-0.010.01 0.02 0.03 0.04 0.05 0 H.gtr.ph

Run 2918: H.gtr.th hist\_th Counts Entries 62012 600 -0.002825Mean Std Dev 0.03604 500 400 300 200 100 0.08 0.1 H.gtr.th -0.06-0.04 -0.020.02 0.04 0.06 0

Run 2919: H.kin.W2





Run 2919: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x **Entries** 62266 -0.04394Mean 1200 Std Dev 0.1479 1000 800 600 400 200 -0.20.2 -0.40.4 0.6 Pmiss\_x

Run 2919: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts **Entries** 62266 800 Mean -0.009559Std Dev 0.1991 700 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss\_y

Run 2919: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z **Entries** -0.4418Mean Std Dev 1.206 -10 Pmiss\_z

Run 2919: NPS.kin.secondary.pmiss hist\_pmiss 1600 **Entries** 62266 0.1046 Mean Std Dev 0.4261 1400 1200 1000 800 600 400 200 -0.50.5 **Pmiss** 

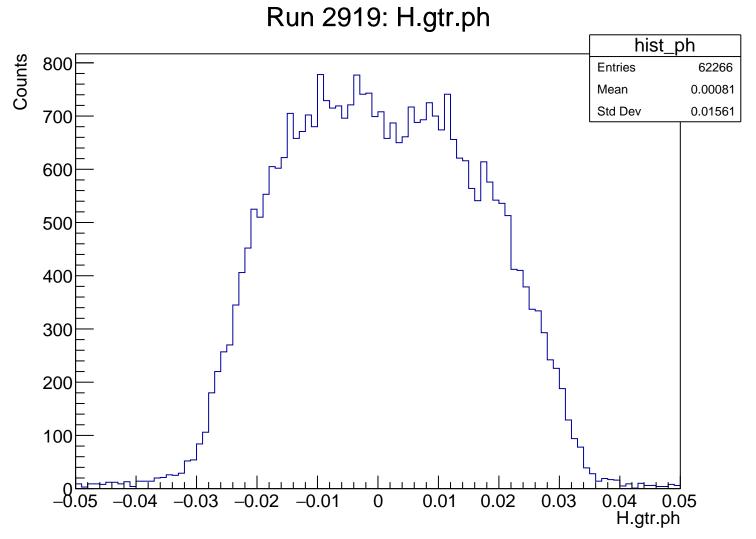
Run 2919: NPS.kin.secondary.emiss hist\_emiss **Entries** 62266 0.1095 Mean 1200 Std Dev 0.4195 1000 800 600 400 200

0.5

**Emiss** 

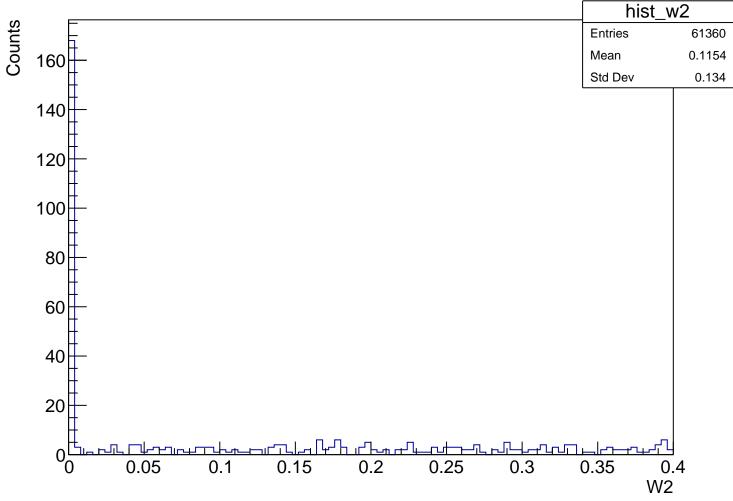
-0.5

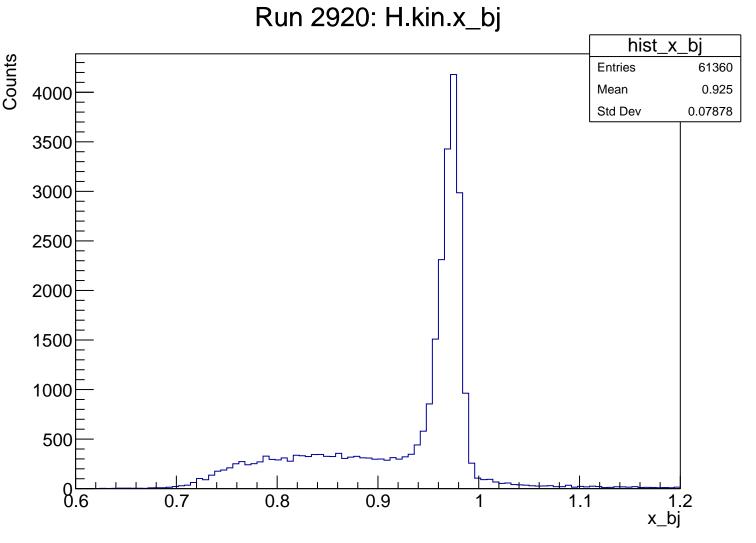
Run 2919: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc **Entries** 62266 5000 -0.9145Mean Std Dev 0.475 4000 3000 2000 1000 -0.50.5 Emiss\_nuc



Run 2919: H.gtr.th hist th Counts **Entries** 62266 -0.003031600 Mean Std Dev 0.036 500 400 300 200 100 -0.06-0.04-0.020.02 0.04 0.06 80.0 0 H.gtr.th

Run 2920: H.kin.W2





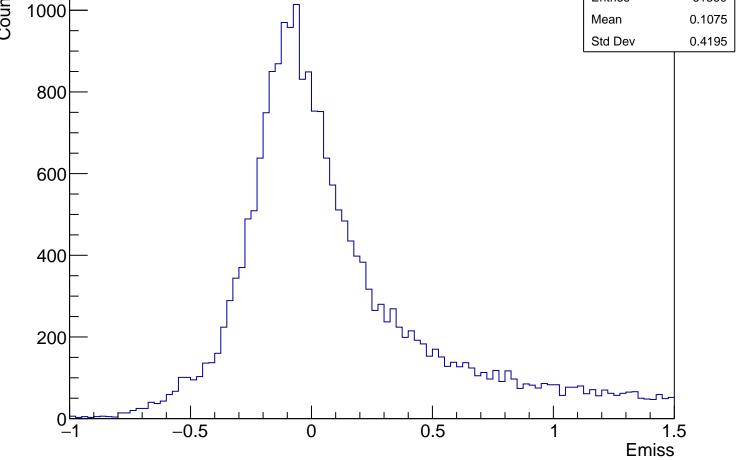
Run 2920: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x **Entries** 61360 -0.1406Mean 1200 Std Dev 0.1385 1000 800 600 400 200 -0.4-0.20.2 0.4 0.6 Pmiss\_x

Run 2920: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts 800F **Entries** 61360 Mean -0.009584700 Std Dev 0.2001 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss\_y

Run 2920: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z **Entries** 61360 -0.6137Mean 6000 Std Dev 1.406 5000 4000 3000 2000 1000 0 -10 8 6 10 Pmiss\_z

Run 2920: NPS.kin.secondary.pmiss hist\_pmiss 1200 **Entries** 61360 0.1063 Mean Std Dev 0.4212 1000 800 600 400 200 -0.50.5 **Pmiss** 

Run 2920: NPS.kin.secondary.emiss hist\_emiss **Entries** 61360 Mean Std Dev



Run 2920: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc 5000F **Entries** 61360 -0.8995Mean Std Dev 0.541 4000 3000 2000 1000 0.5 -0.5Emiss\_nuc

Run 2920: H.gtr.ph hist\_ph Entries 61360 -0.002316Mean 700 Std Dev 0.01476 600 500 400 300 200 100 0.04 0.0 H.gtr.ph -0.03-0.020.02 -0.010.01 0.03 0.05 -0.040

Run 2920: H.gtr.th hist th Counts **Entries** 61360 -0.003938500 Mean Std Dev 0.03749 400 300 200 100 -0.08 -0.06-0.04 -0.020.02 0.04 0.06 80.0 0 H.gtr.th