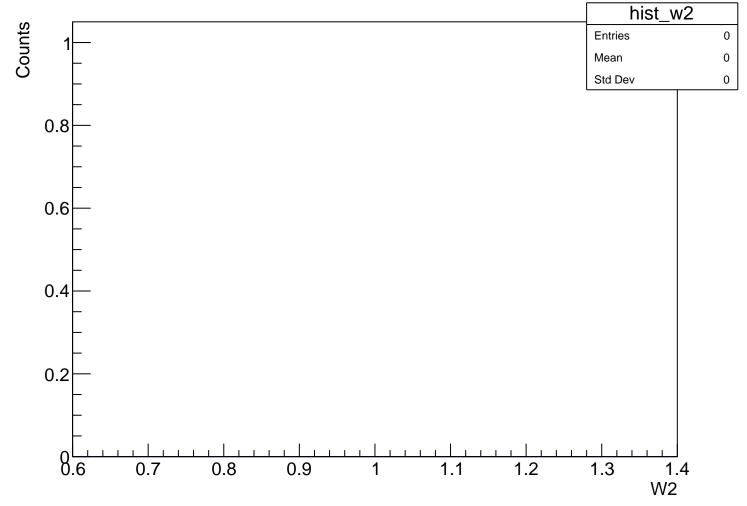
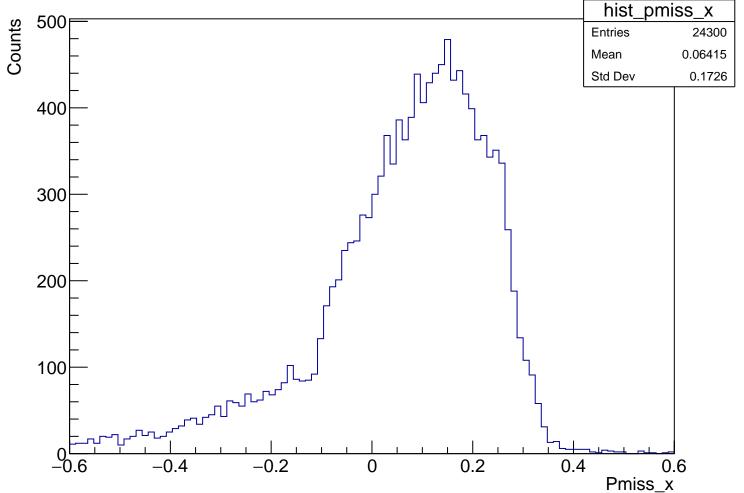
Run 6171: H.kin.W2



Run 6171: H.kin.x_bj hist_x_bj 2500 Entries 24300 Mean 0.9256 Std Dev 0.05295 2000 1500 1000 500 0.7 8.0 0.9

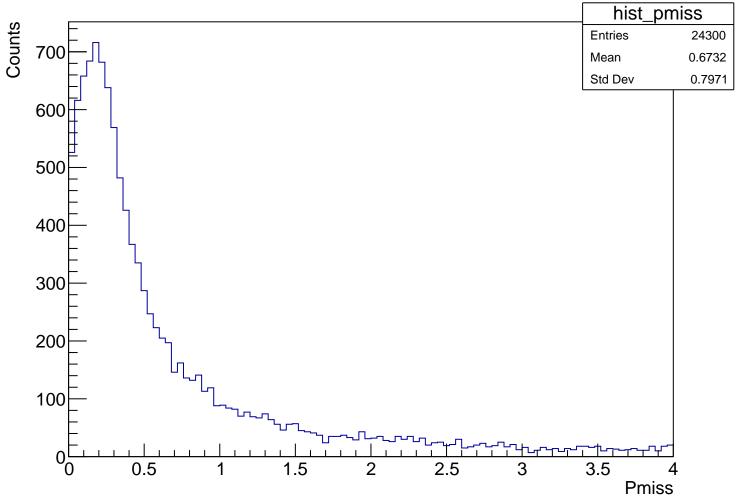
Run 6171: NPS.kin.secondary.pmiss_x



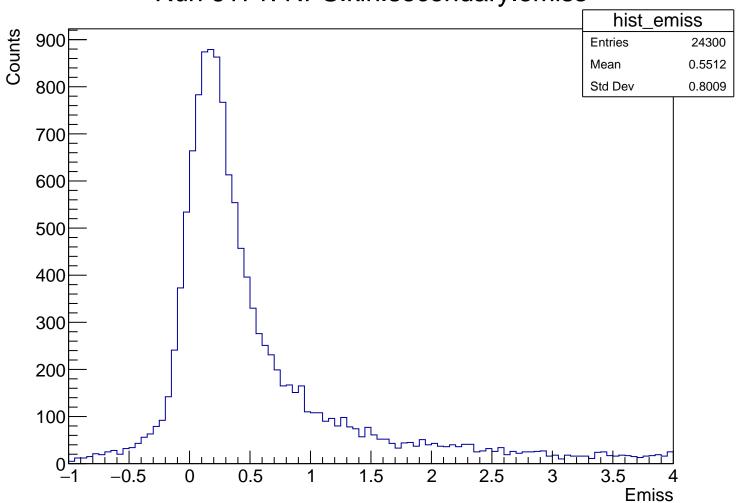
Run 6171: NPS.kin.secondary.pmiss_y hist_pmiss_y Counts **Entries** 24300 Mean -0.004123250 Std Dev 0.2295 200 150 100 50 -0.4-0.20.2 0.4 Pmiss_y

Run 6171: NPS.kin.secondary.pmiss_z _pmiss_z hist_ 70 Counts **Entries** 24300 Mean -2.058Std Dev 0.8612 60 50 40 30 20 10 -3.5-2.5 -1.5 Pmiss_z

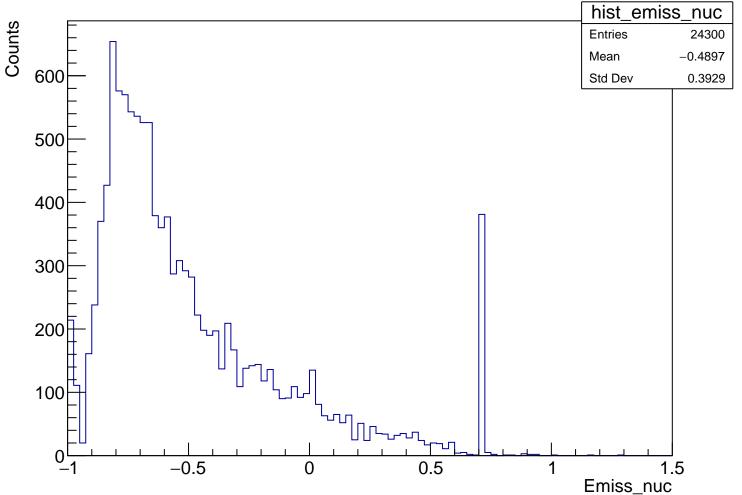
Run 6171: NPS.kin.secondary.pmiss



Run 6171: NPS.kin.secondary.emiss



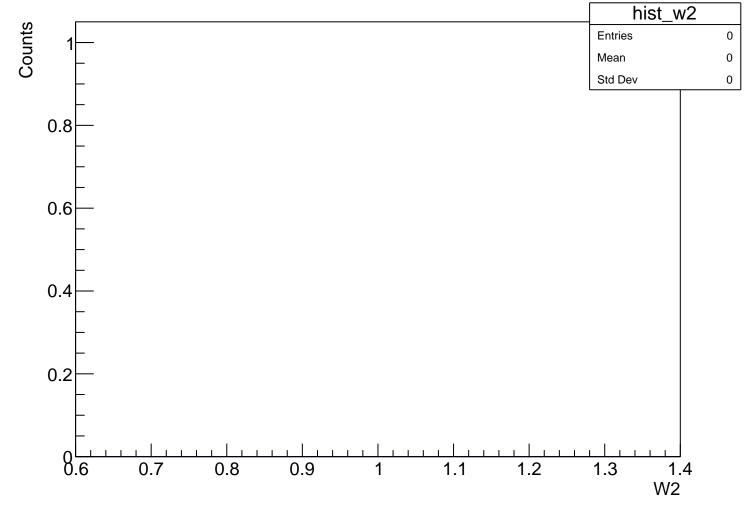
Run 6171: NPS.kin.secondary.emiss_nuc



Run 6171: H.gtr.ph hist_ph Entries 24300 0.001478 Mean 300 Std Dev 0.01494 250 200 150 100 50 -0.03 0.04 0.0 H.gtr.ph -0.02-0.04-0.010.01 0.02 0.03 0.05 0

Run 6171: H.gtr.th hist_th Counts Entries 24300 250 Mean -0.003225Std Dev 0.03653 200 150 100 50 0.08 0.1 H.gtr.th -0.08 -0.06 -0.04 -0.020.02 0.04 0.06 0

Run 6172: H.kin.W2



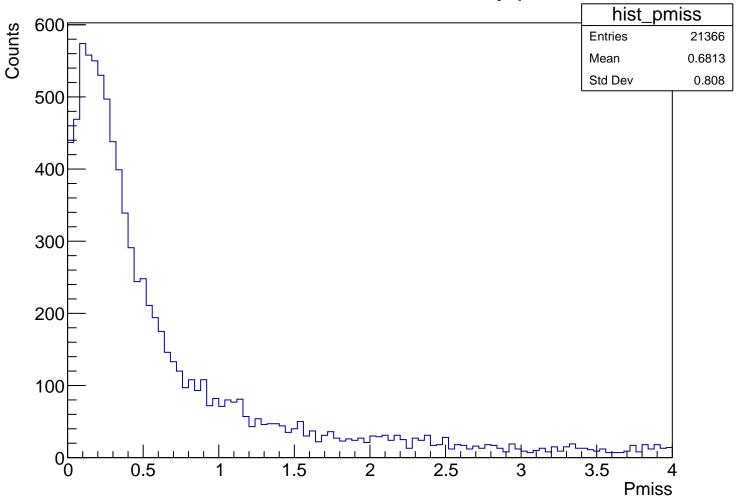
Run 6172: H.kin.x_bj hist_x_bj Entries 21366 0.9246 Mean 1800 Std Dev 0.05429 1600 1400 1200 1000 800 600 400 200 8.0 0.9 0.7 1.2 x_bj

Run 6172: NPS.kin.secondary.pmiss_x hist_pmiss_x Counts **Entries** 21366 350 0.06599 Mean Std Dev 0.1734 300 250 200 150 100 50 -0.20.2 -0.40.6 0.4 Pmiss_x

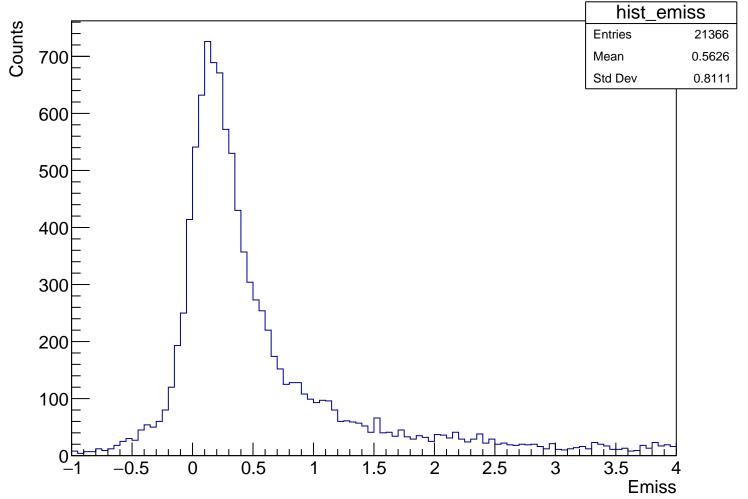
Run 6172: NPS.kin.secondary.pmiss_y hist_pmiss_y Counts **Entries** 21366 200 Mean -0.01004Std Dev 0.2278 180 160 140 120 100 80 60 40 20 -0.4-0.20.2 0.4 0.6 Pmiss_y

Run 6172: NPS.kin.secondary.pmiss_z _pmiss_z hist_ Counts **Entries** 21366 50 Mean -2.071Std Dev 0.8581 40 30 20 -3.5-2.5 -1.5 Pmiss_z

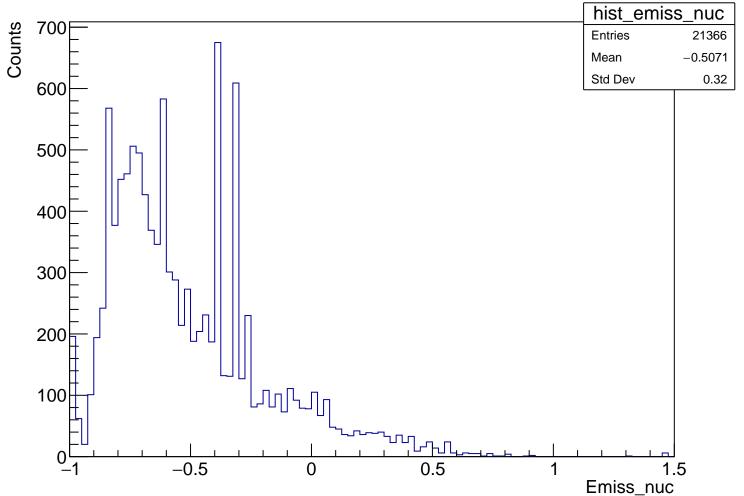
Run 6172: NPS.kin.secondary.pmiss



Run 6172: NPS.kin.secondary.emiss



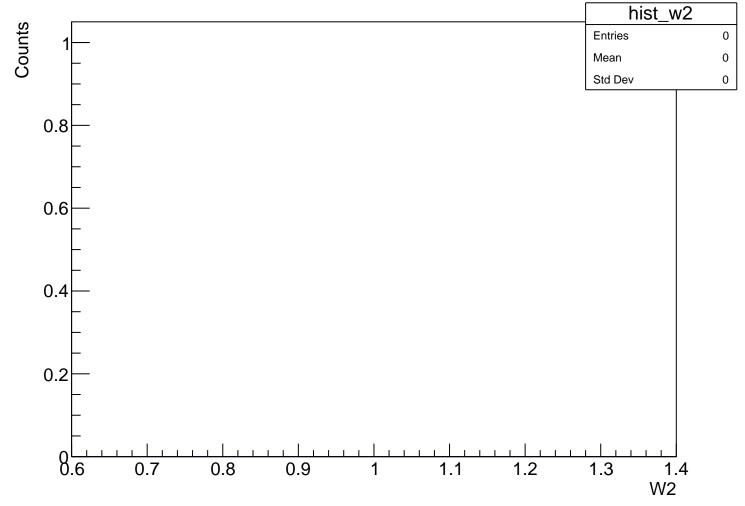
Run 6172: NPS.kin.secondary.emiss_nuc



Run 6172: H.gtr.ph hist_ph Counts Entries 21366 Mean 0.001419 Std Dev 0.01489 250 200 150 100 50 0.04 0.0 H.gtr.ph -0.03-0.020.02 0.05 -0.010.01 0.03 -0.040

Run 6172: H.gtr.th hist_th Counts 220 Entries 21366 Mean -0.002127200 Std Dev 0.03647 180 160 140 120 100 80 60 40 20 -0.06 0.08 0.1 H.gtr.th -0.08 -0.04 -0.020.02 0.04 0.06 0

Run 6173: H.kin.W2



Run 6173: H.kin.x_bj hist_x_bj Entries 24274 2000 0.9217 Mean Std Dev 0.05503 1800 1600 1400 1200 1000 800 600 400 200 0.7 8.0 0.9 1.2 x_bj

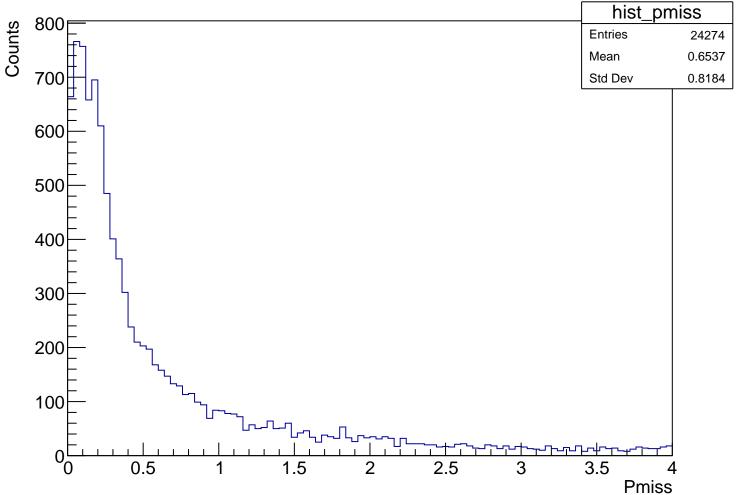
Run 6173: NPS.kin.secondary.pmiss_x hist_pmiss_x Counts **Entries** 24274 450 -0.0709Mean Std Dev 0.1514 400 350 300 250 200 150 100 50 -0.20.2 -0.40.6 0.4 Pmiss_x

Run 6173: NPS.kin.secondary.pmiss_y hist_pmiss_y Counts **Entries** 24274 250 -0.006745Mean Std Dev 0.2247 200 150 100 50 -0.20.2 -0.40.4 0.6 Pmiss_y

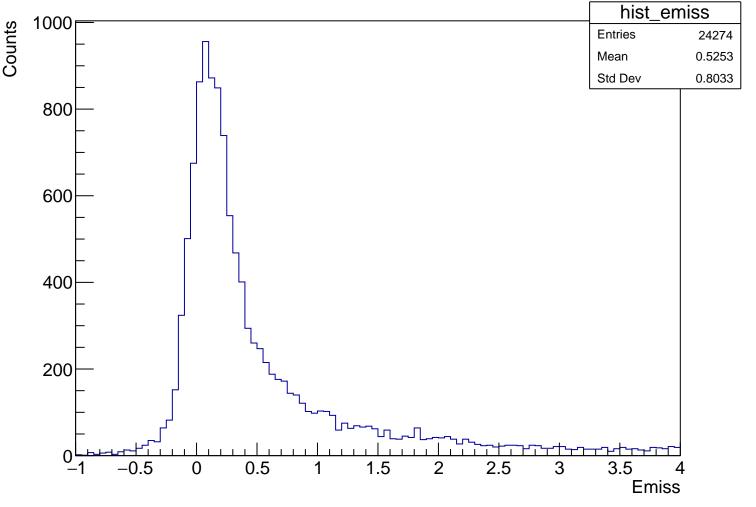
Run 6173: NPS.kin.secondary.pmiss_z hist_pmiss_z Counts **Entries** 24274 Mean -2.07250 Std Dev 0.8637 40 30 20 -3.5-2.5 -1.5

Pmiss_z

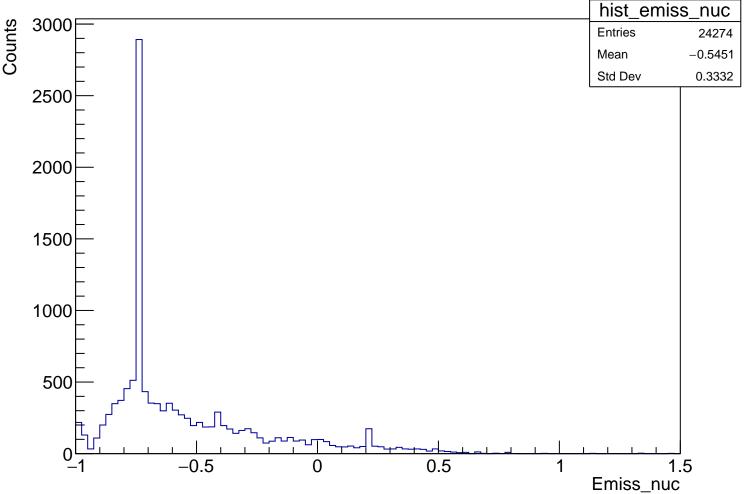
Run 6173: NPS.kin.secondary.pmiss



Run 6173: NPS.kin.secondary.emiss



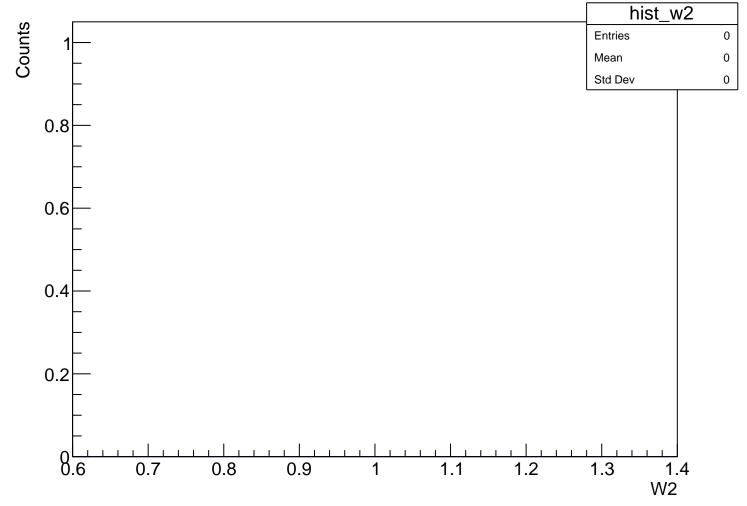
Run 6173: NPS.kin.secondary.emiss_nuc



Run 6173: H.gtr.ph hist_ph **Entries** 24274 0.0002194 Mean Std Dev 0.01567 250 200 150 100 50 -0.030.04 0.0 H.gtr.ph -0.02-0.010.01 0.02 0.03 0.05 0

Run 6173: H.gtr.th hist th Counts **Entries** 24274 220 -0.003229Mean Std Dev 0.03713 200 180 160 140 120 100 80 60 40 20 0.08 0.1 H.gtr.th -0.08 -0.06-0.04-0.020.02 0.04 0.06 0

Run 6174: H.kin.W2



Run 6174: H.kin.x_bj hist_x_bj 2200 | Entries 24307 0.9221 Mean 2000 Std Dev 0.05561 1800 1600 1400 1200 1000 800 600 400 200 1.2 x_bj 8.0 0.9 0.7

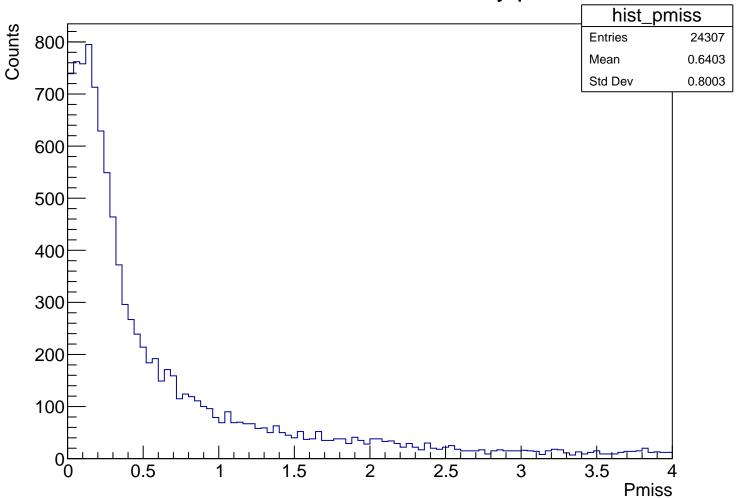
Run 6174: NPS.kin.secondary.pmiss_x hist_pmiss_x Counts 500 **Entries** 24307 Mean -0.0747Std Dev 0.153 400 300 200 100 -0.20.2 -0.40.6 0.4

Pmiss_x

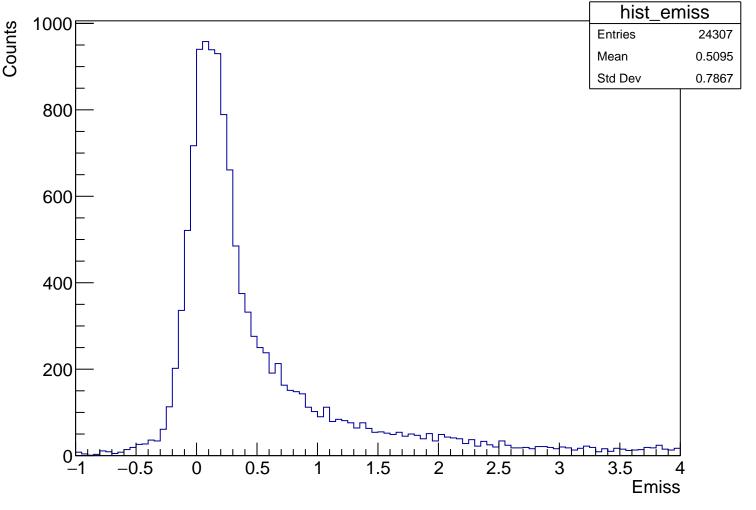
Run 6174: NPS.kin.secondary.pmiss_y hist_pmiss_y Counts **Entries** 24307 250 -0.008189Mean Std Dev 0.2237 200 150 100 50 -0.20.2 -0.40.4 Pmiss_y

Run 6174: NPS.kin.secondary.pmiss_z hist_pmiss_z Counts **Entries** 24307 Mean -2.041Std Dev 0.8432 50 40 30 20 10 -3.5-2.5 -1.5Pmiss_z

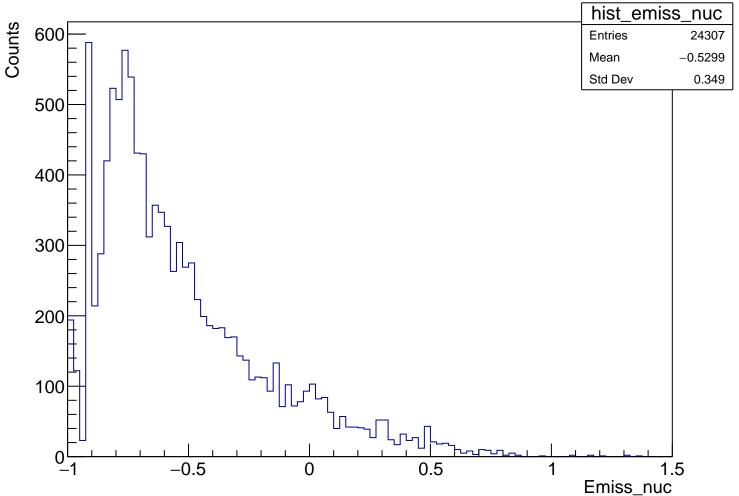
Run 6174: NPS.kin.secondary.pmiss



Run 6174: NPS.kin.secondary.emiss



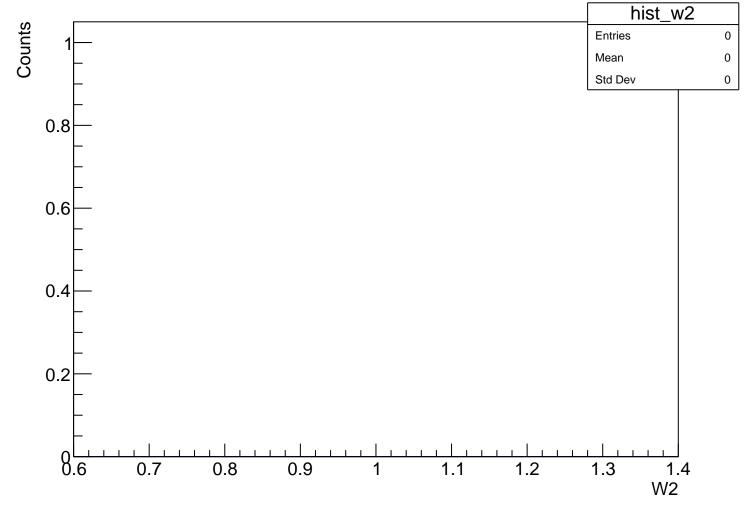
Run 6174: NPS.kin.secondary.emiss_nuc



Run 6174: H.gtr.ph hist_ph Counts 300 Entries 24307 0.0005296 Mean Std Dev 0.01558 250 200 150 100 50 -0.03-0.020.04 0.0 H.gtr.ph -0.010.01 0.02 0.03 0.05 0

Run 6174: H.gtr.th hist_th Counts 250 Entries 24307 Mean -0.002736Std Dev 0.03689 200 150 100 50 0.08 0.1 H.gtr.th -0.06 -0.08 -0.04 -0.020.02 0.04 0.06 0

Run 6175: H.kin.W2



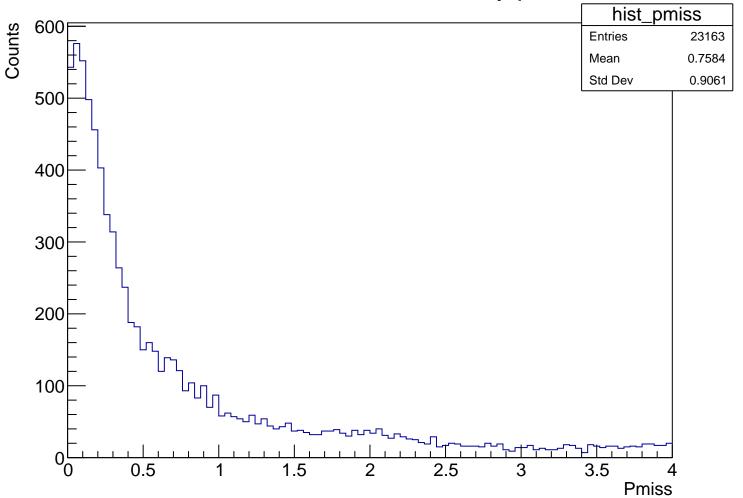
Run 6175: H.kin.x_bj hist_x_bj Entries 23163 2000 0.9113 Mean Std Dev 0.06231 1800 1600 1400 1200 1000 800 600 400 200 1.2 x_bj 8.0 0.9 0.7

Run 6175: NPS.kin.secondary.pmiss_x hist_pmiss_x Counts **Entries** 23163 -0.1702Mean 450 Std Dev 0.1747 400 350 300 250 200 150 100 50 -0.20.2 -0.40.4 0.6 Pmiss_x

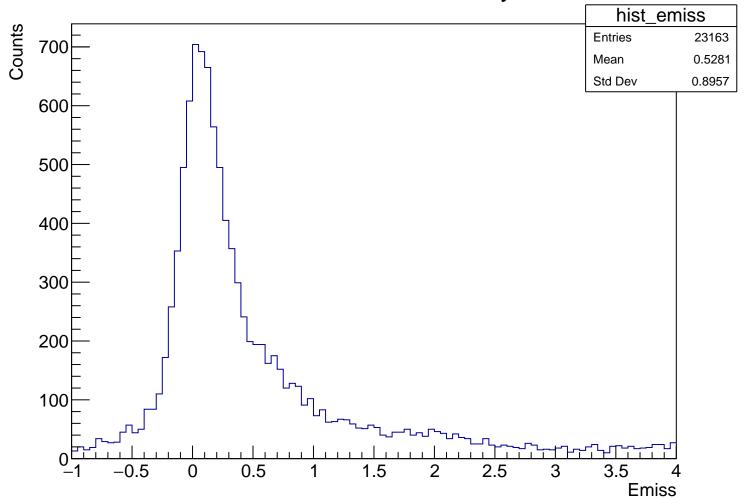
Run 6175: NPS.kin.secondary.pmiss_y hist_pmiss_y Counts **Entries** 23163 220 Mean -0.009279Std Dev 0.226 200 180 160 140 120 100 80 60 40 20 -0.4-0.20.2 0.4 0.6 Pmiss_y

Run 6175: NPS.kin.secondary.pmiss_z _pmiss_z hist_ Counts **Entries** 23163 45 Mean -2.149Std Dev 0.8788 40 35 30 25 20 15 10 5 -3.5-2.5 -1.5Pmiss_z

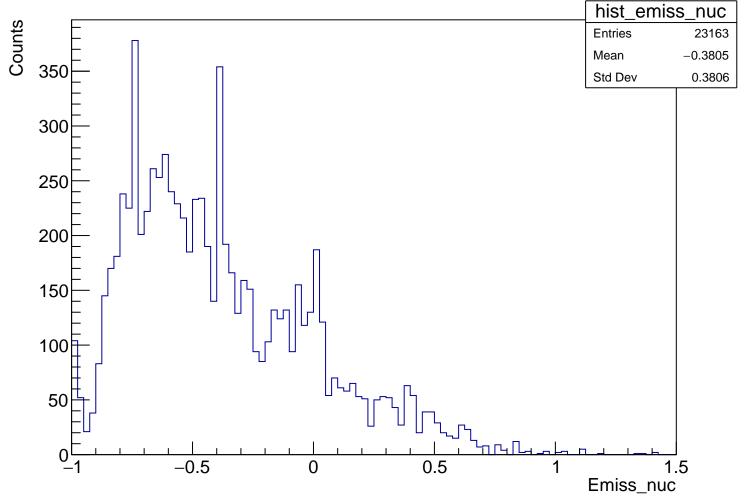
Run 6175: NPS.kin.secondary.pmiss



Run 6175: NPS.kin.secondary.emiss



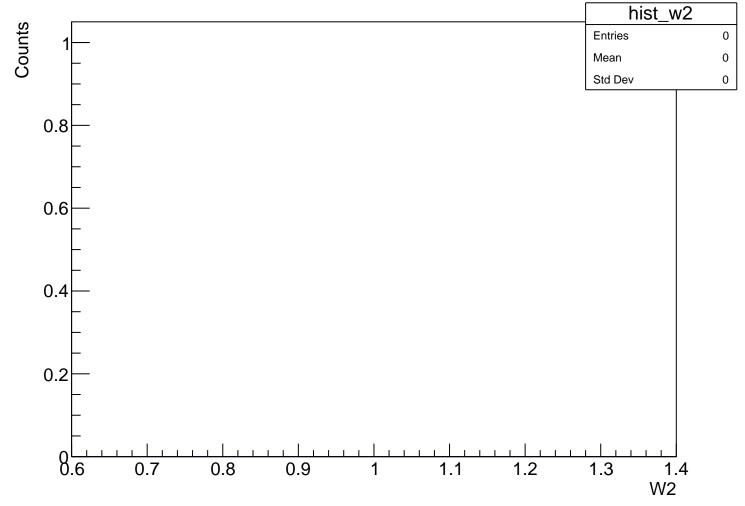
Run 6175: NPS.kin.secondary.emiss_nuc



Run 6175: H.gtr.ph hist_ph Entries 23163 -0.003706Mean 300 Std Dev 0.01415 250 200 150 100 50 -0.03-0.02-0.010.04 0.0 H.gtr.ph 0.01 0.02 0.03 0.05 0

Run 6175: H.gtr.th hist_th 220 Counts Entries 23163 -0.003953Mean 200 Std Dev 0.03796 180 160 140 120 100 80 60 40 20 0.08 0.1 H.gtr.th -0.08 -0.06 -0.04 -0.020.02 0.04 0.06 0

Run 6176: H.kin.W2



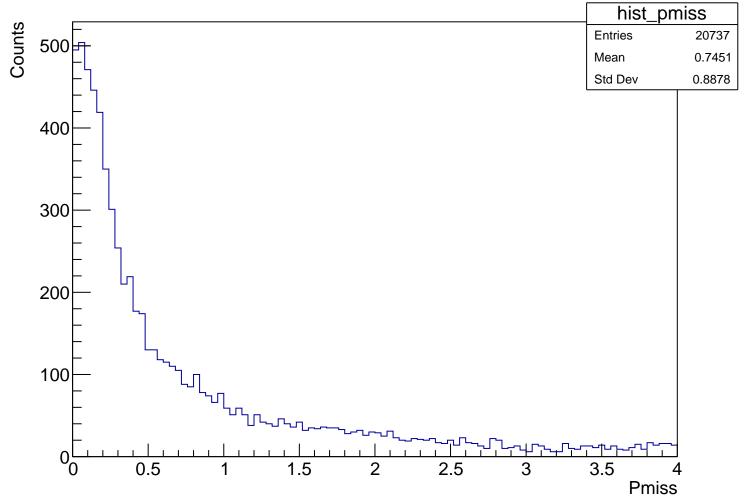
Run 6176: H.kin.x_bj hist_x_bj Entries 20737 1800 Mean 0.9115 Std Dev 0.06232 1600 1400 1200 1000 800 600 400 200 0.6 8.0 0.9 1.2 x_bj 0.7

Run 6176: NPS.kin.secondary.pmiss_x hist_pmiss_x Entries 20737 -0.1712Mean 400 Std Dev 0.1732 350 300 250 200 150 100 50 -0.2-0.40.2 0.4 0.6 Pmiss_x

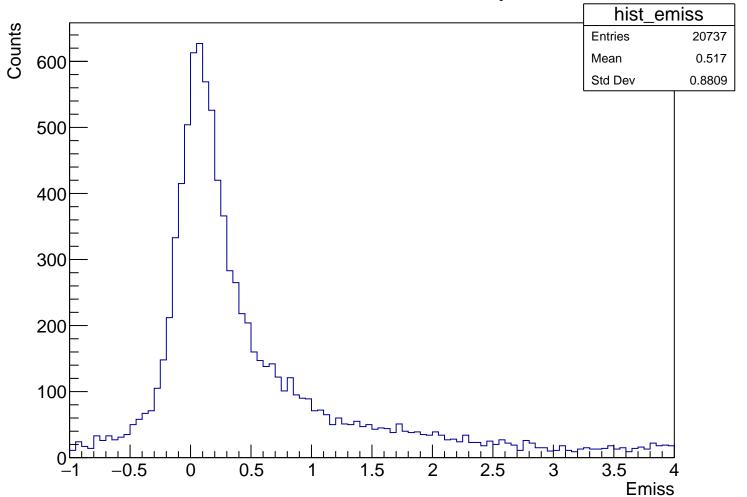
Run 6176: NPS.kin.secondary.pmiss_y _pmiss_y hist Counts 200 **Entries** 20737 Mean -0.007715180 Std Dev 0.2284 160 140 120 100 80 60 40 20 -0.4-0.20.2 0.4 0.6 Pmiss_y

Run 6176: NPS.kin.secondary.pmiss_z hist_pmiss_z Counts **Entries** 20737 35 Mean -2.128Std Dev 0.882 30 25 20 15 10 5 -3.5-2.5 -3 -1.5Pmiss_z

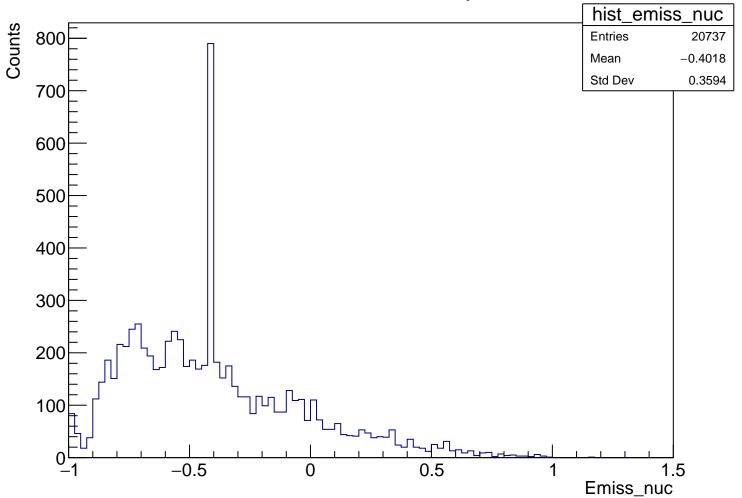
Run 6176: NPS.kin.secondary.pmiss



Run 6176: NPS.kin.secondary.emiss



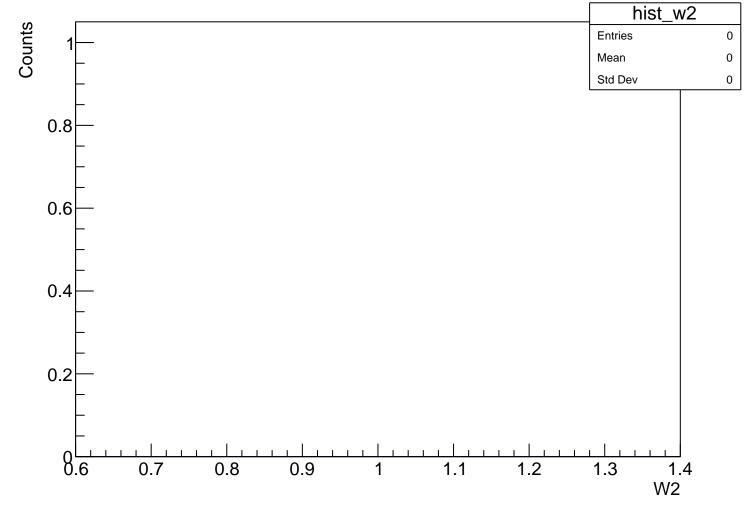
Run 6176: NPS.kin.secondary.emiss_nuc



Run 6176: H.gtr.ph hist_ph Counts Entries 20737 -0.003819Mean Std Dev 0.01405 250 200 150 100 50 0.04 0.0 H.gtr.ph -0.03-0.02-0.04-0.010.01 0.02 0.03 0.05 0

Run 6176: H.gtr.th hist_th Counts 180 Entries 20737 Mean -0.003007160 Std Dev 0.03795 140 120 100 80 60 40 20 -0.08 -0.06 0.08 0.1 H.gtr.th -0.04 -0.020.02 0.04 0.06 0

Run 6177: H.kin.W2



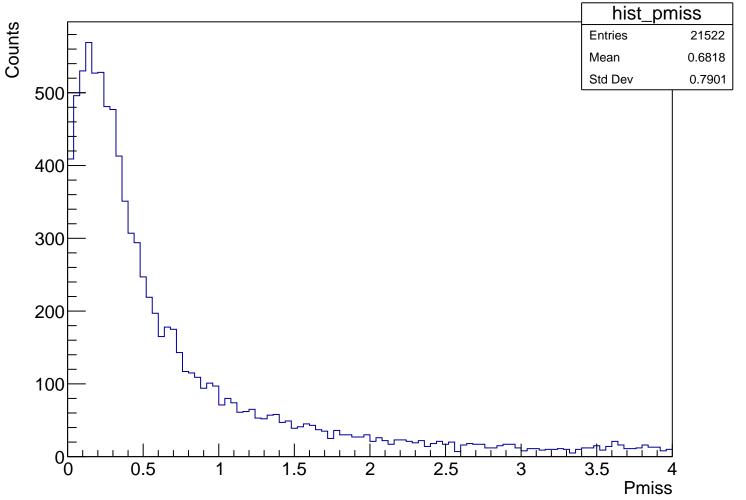
Run 6177: H.kin.x_bj hist_x_bj 2000 Entries 21522 0.9253 Mean 1800 Std Dev 0.0536 1600 1400 1200 1000 800 600 400 200 8.6 8.0 0.9 0.7 1.2 x_bj

Run 6177: NPS.kin.secondary.pmiss_x hist_pmiss_x Counts **Entries** 21522 400 0.06295 Mean Std Dev 0.1747 350 300 250 200 150 100 50 -0.20.2 -0.40.4 0.6 Pmiss_x

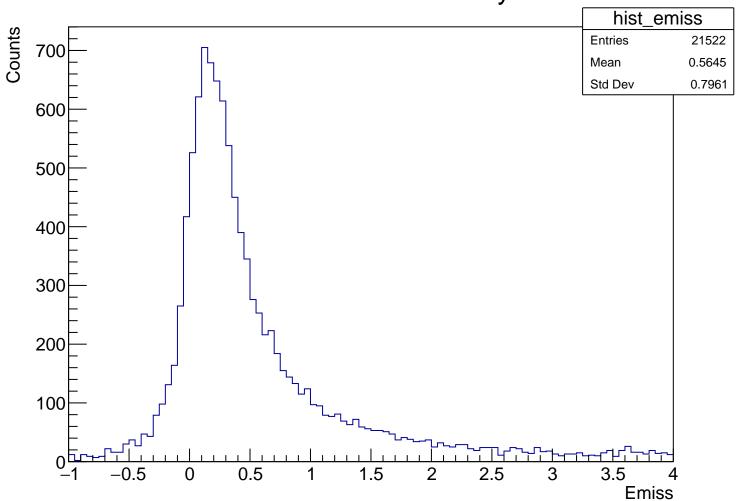
Run 6177: NPS.kin.secondary.pmiss_y hist_pmiss_y Counts **Entries** 21522 200 Mean -0.008137Std Dev 0.2288 180 160 140 120 100 80 60 40 20 -0.20.2 -0.40.4 0.6 Pmiss_y

Run 6177: NPS.kin.secondary.pmiss_z hist_pmiss_z Counts **Entries** 21522 50 Mean -2.031Std Dev 0.8639 40 30 20 -3.5-2.5 -1.5 Pmiss_z

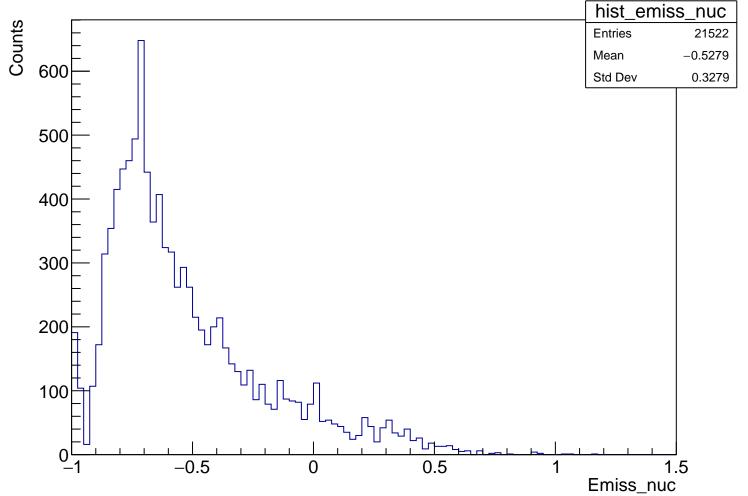
Run 6177: NPS.kin.secondary.pmiss

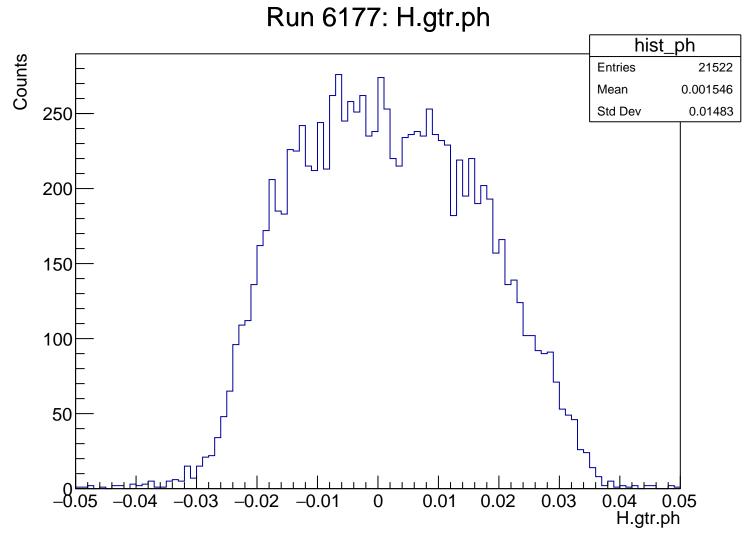


Run 6177: NPS.kin.secondary.emiss



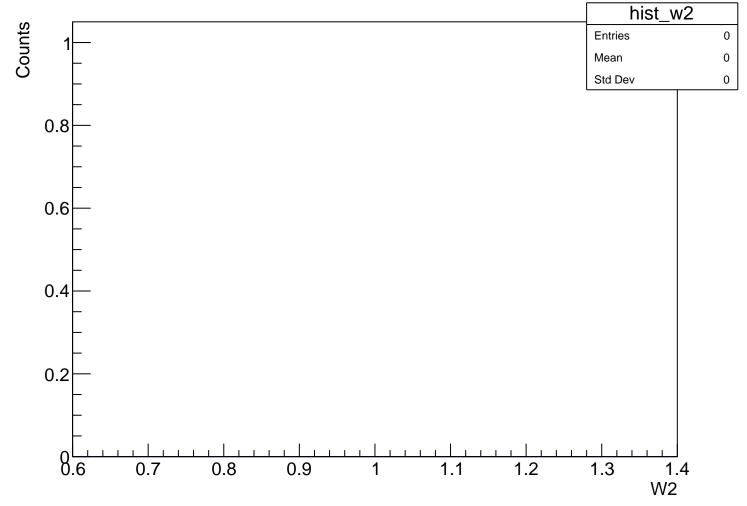
Run 6177: NPS.kin.secondary.emiss_nuc





Run 6177: H.gtr.th hist_th Counts Entries 21522 200 Mean -0.002214Std Dev 0.03647 180 160 140 120 100 80 60 40 20 0.08 0.1 H.gtr.th -0.08 -0.06 -0.04 -0.020.02 0.04 0.06 0

Run 6178: H.kin.W2



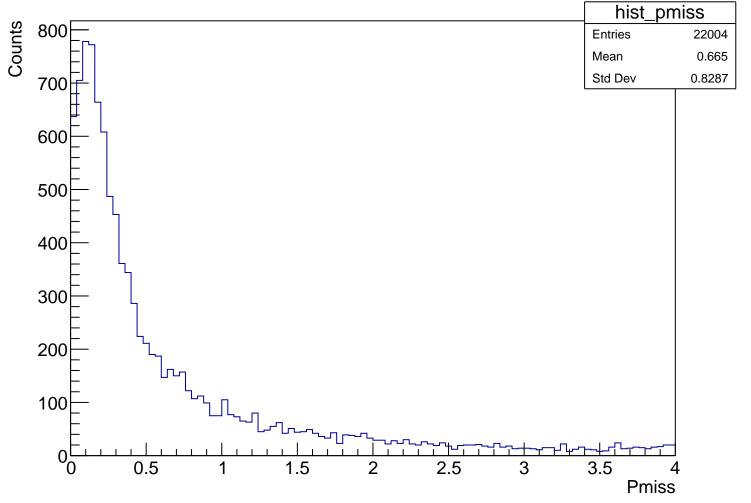
Run 6178: H.kin.x_bj hist_x_bj Entries 22004 2000 0.9202 Mean Std Dev 0.05858 1800 1600 1400 1200 1000 800 600 400 200 8.0 0.9 0.7 1.2 x_bj

Run 6178: NPS.kin.secondary.pmiss_x hist_pmiss_x Counts **Entries** 22004 450 -0.07463Mean Std Dev 0.1545 400 350 300 250 200 150 100 50 -0.20.2 -0.40.4 0.6 Pmiss_x

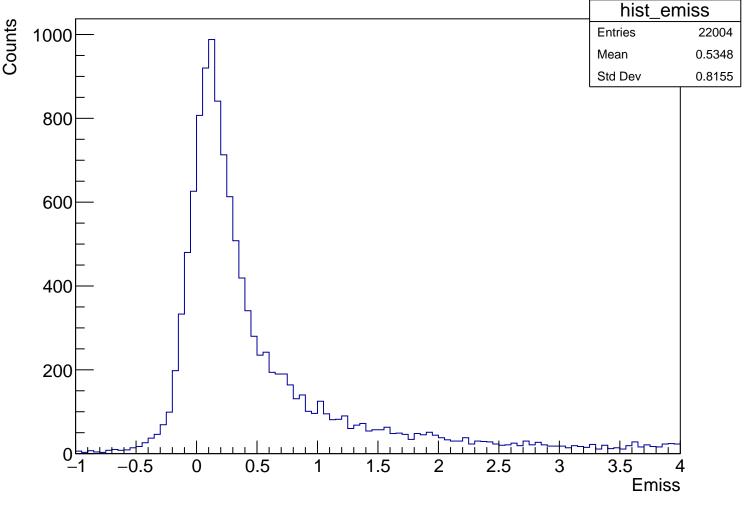
Run 6178: NPS.kin.secondary.pmiss_y hist_pmiss_y **Entries** 22004 Mean -0.006625250 Std Dev 0.2237 200 150 100 50 -0.20.2 -0.40.4 0.6 Pmiss_y

Run 6178: NPS.kin.secondary.pmiss_z hist_pmiss_z Counts **Entries** 22004 Mean -2.097Std Dev 0.8793 50 40 30 20 10 -3.5-2.5 -1.5Pmiss_z

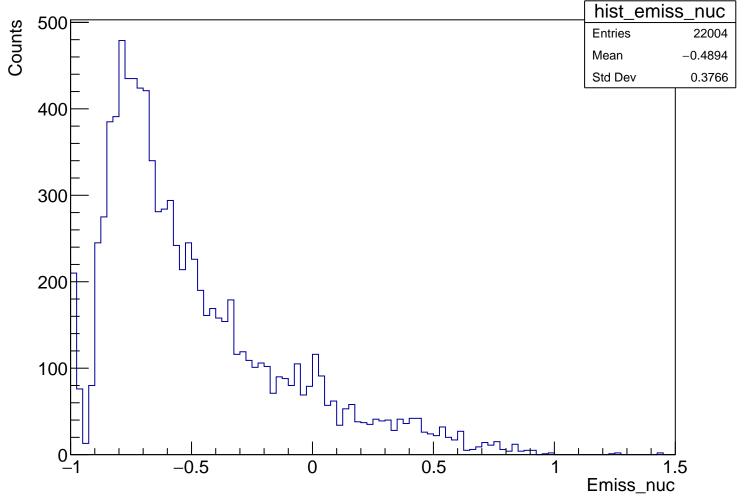
Run 6178: NPS.kin.secondary.pmiss



Run 6178: NPS.kin.secondary.emiss



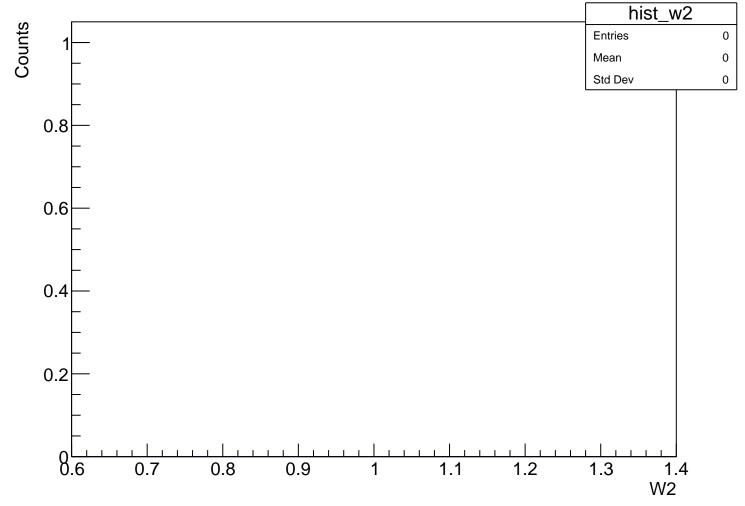
Run 6178: NPS.kin.secondary.emiss_nuc



Run 6178: H.gtr.ph hist_ph Counts Entries 22004 300 0.0005771 Mean Std Dev 0.01564 250 200 150 100 50 -0.03-0.020.02 0.04 0.0 H.gtr.ph -0.010.01 0.03 0.05 0

Run 6178: H.gtr.th hist_th Counts 250 Entries 22004 -0.00304Mean Std Dev 0.03728 200 150 100 50 0.08 0.1 H.gtr.th -0.08 -0.06-0.04 -0.020.02 0.04 0.06 0

Run 6179: H.kin.W2



Run 6179: H.kin.x_bj hist_x_bj Entries 35501 3500 Mean 0.9091 Std Dev 0.06636 3000 2500 2000 1500 1000 500 8.0 0.9 0.7

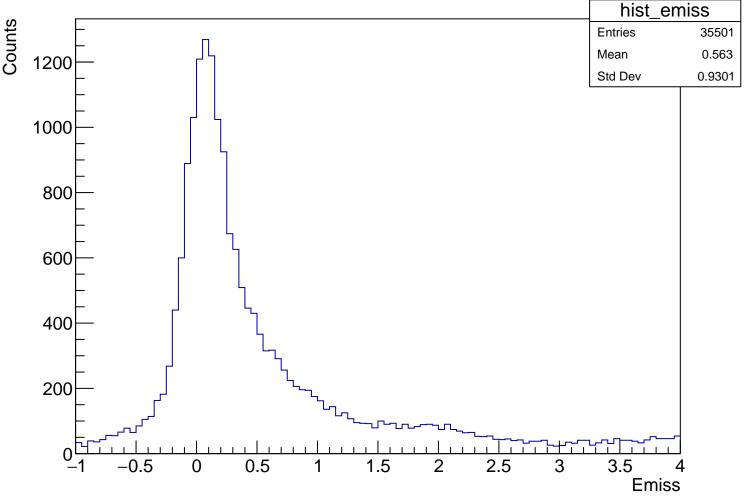
Run 6179: NPS.kin.secondary.pmiss_x hist_pmiss_x Counts 900 **Entries** 35501 -0.1616Mean 800 Std Dev 0.1775 700 600 500 400 300 200 100 -0.2-0.40.2 0.4 0.6 Pmiss_x

Run 6179: NPS.kin.secondary.pmiss_y hist_pmiss_y Counts **Entries** 35501 Mean -0.006928500 Std Dev 0.224 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss_y

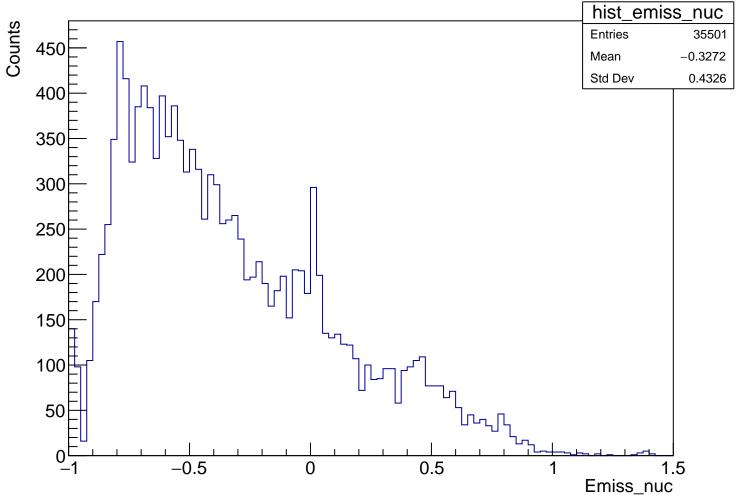
Run 6179: NPS.kin.secondary.pmiss_z _pmiss_z hist_ Counts **Entries** 35501 Mean -2.20380 Std Dev 0.9064 70 60 50 40 30 20 10 -3.5-2.5 -1.5 Pmiss_z

Run 6179: NPS.kin.secondary.pmiss hist_pmiss **Entries** 35501 1000 0.7902 Mean Std Dev 0.9398 800 600 400 200 2.5 3.5 3 0.5 1.5 **Pmiss**

Run 6179: NPS.kin.secondary.emiss



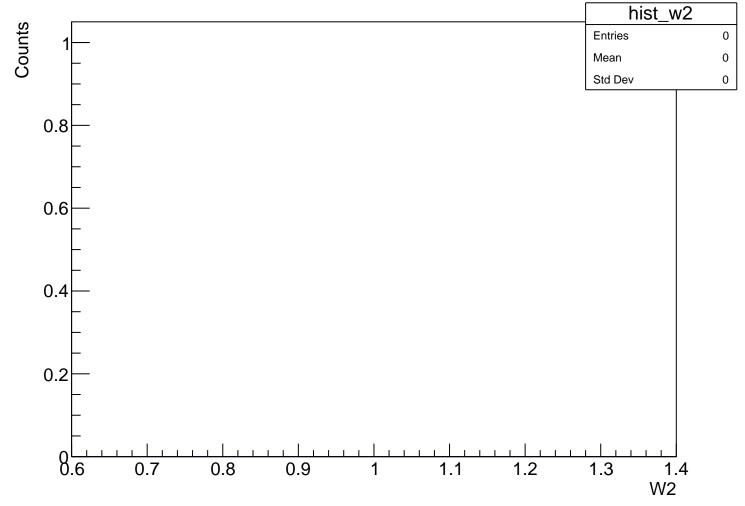
Run 6179: NPS.kin.secondary.emiss_nuc



Run 6179: H.gtr.ph hist_ph Counts Entries 35501 -0.003054Mean Std Dev 0.01456 500 400 300 200 100 0.04 0.05 H.gtr.ph -0.03-0.020.02 -0.04-0.010.01 0.03 0

Run 6179: H.gtr.th hist_th Counts 400 Entries 35501 -0.003991Mean 350 Std Dev 0.03818 300 250 200 150 100 50 -0.06 0.08 0.1 H.gtr.th -0.08 -0.04-0.020.02 0.04 0.06 0

Run 6180: H.kin.W2



Run 6180: H.kin.x_bj hist_x_bj Entries 46708 4500 Mean 0.9088 Std Dev 0.0666 4000 3500 3000 2500 2000 1500 1000 500 1.2 x_bj 8.0 0.9 0.7 1.1

Run 6180: NPS.kin.secondary.pmiss_x hist_pmiss_x **Entries** 46708 -0.1614Mean 1000 Std Dev 0.1788 800 600 400 200 -0.2-0.40.2 0.4 0.6 Pmiss_x

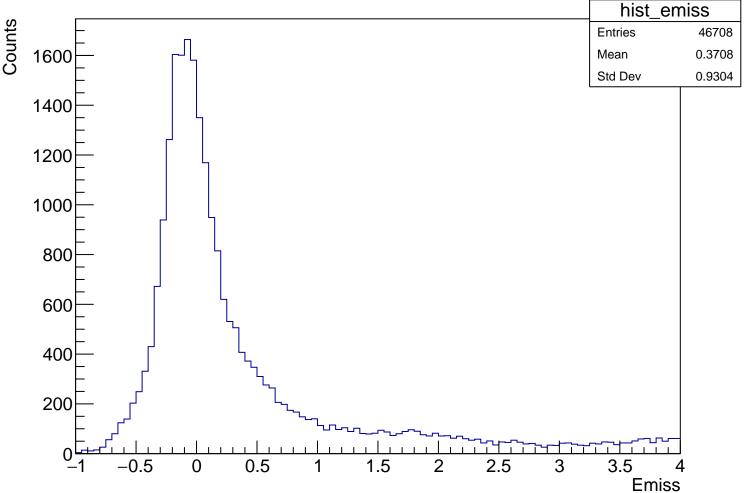
Run 6180: NPS.kin.secondary.pmiss_y hist_pmiss_y 800F Counts **Entries** 46708 -0.007521Mean 700 Std Dev 0.2249 600 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss_y

Run 6180: NPS.kin.secondary.pmiss_z hist_pmiss_z Counts **Entries** 46708 Mean -2.31660 Std Dev 0.937 50 40 30 20 -3.5-2.5 -1.5Pmiss_z

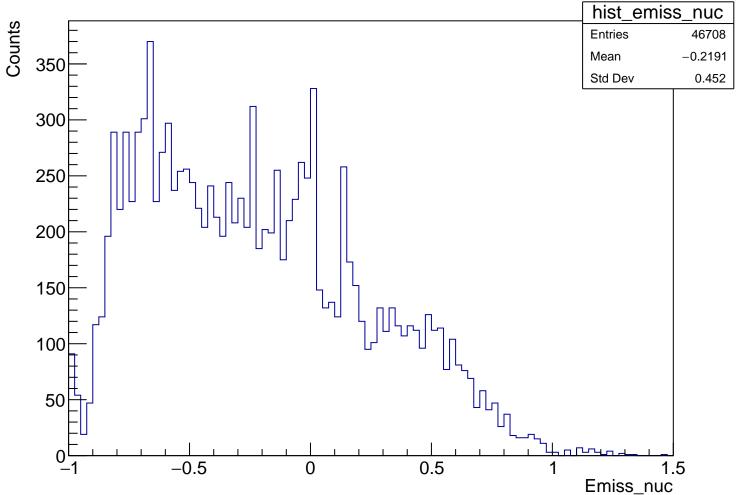
Run 6180: NPS.kin.secondary.pmiss hist_pmiss **Entries** 46708 0.8646 Mean Std Dev 1.03 1000 800 600 400 200 2.5 3.5 1.5 3 0.5

Pmiss

Run 6180: NPS.kin.secondary.emiss



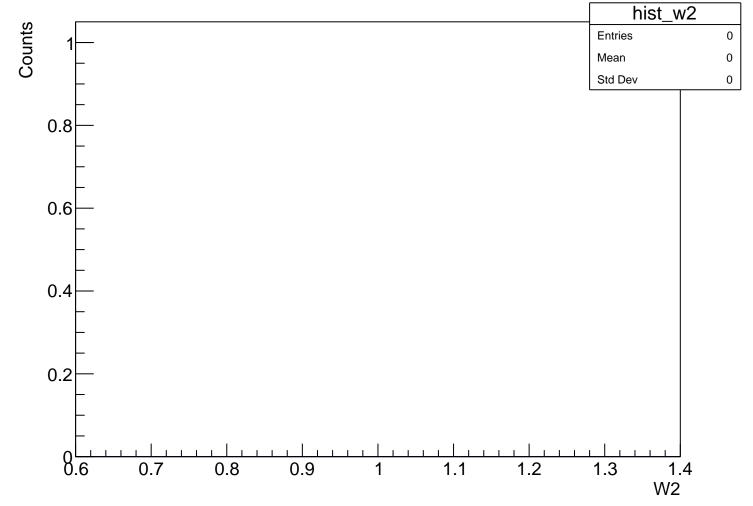
Run 6180: NPS.kin.secondary.emiss_nuc



Run 6180: H.gtr.ph hist_ph Counts Entries 46708 700 -0.002981Mean Std Dev 0.01459 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 6180: H.gtr.th hist_th Counts 500 Entries 46708 -0.004042Mean Std Dev 0.03826 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 6181: H.kin.W2



Run 6181: H.kin.x_bj hist_x_bj Counts Entries 119 Mean 0 Std Dev 0 0.8 0.6 0.4 0.2 8.6 0.7 8.0 0.9 1.2 x_bj

Run 6181: NPS.kin.secondary.pmiss_x hist_pmiss_x Counts **Entries** 119 Mean 0 Std Dev 0 8.0 0.6 0.4 0.2 -0.4-0.20.2 0.4 0.6 Pmiss_x

Run 6181: NPS.kin.secondary.pmiss_y hist_pmiss_y Counts **Entries** 119 Mean 0 Std Dev 0 8.0 0.6 0.4 0.2 -0.4-0.20.2 0.4 0.6 Pmiss_y

Run 6181: NPS.kin.secondary.pmiss_z hist_pmiss_z **Entries** 119 Mean 0 Std Dev 0

-2.5

-3

-1.5

Pmiss_z

Counts

8.0

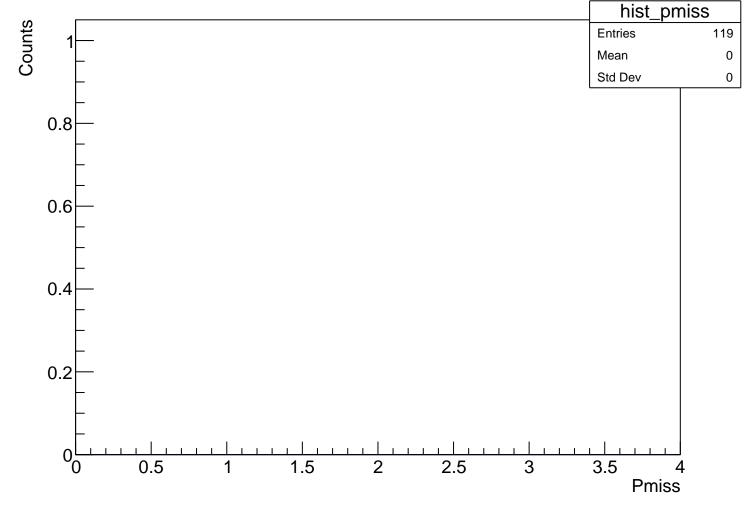
0.6

0.4

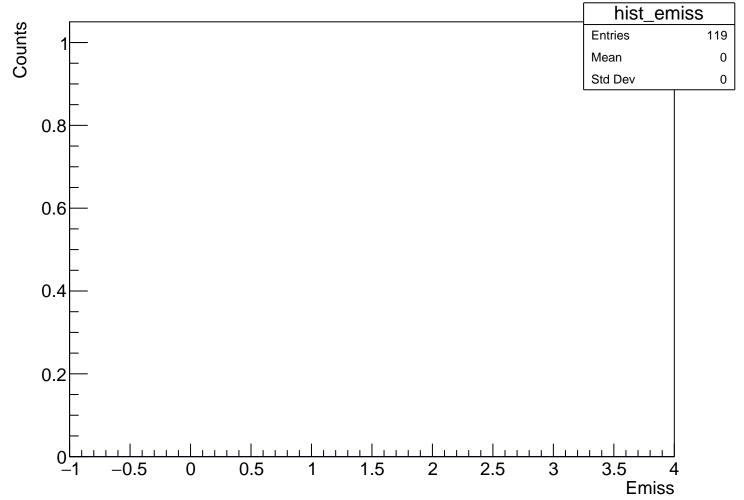
0.2

-3.5

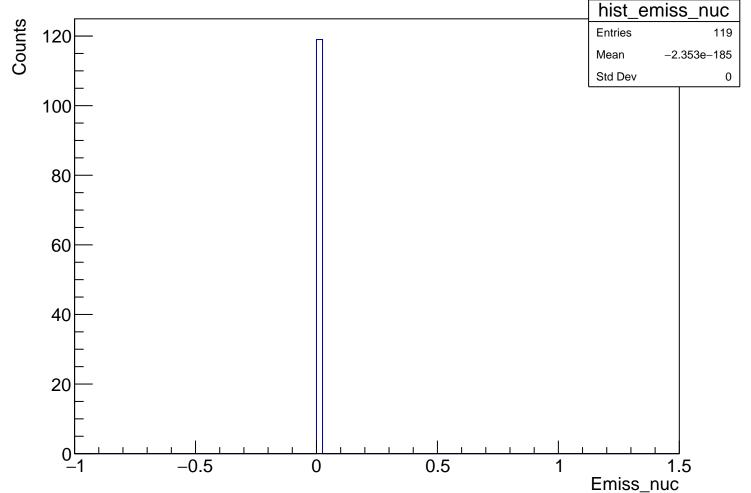
Run 6181: NPS.kin.secondary.pmiss



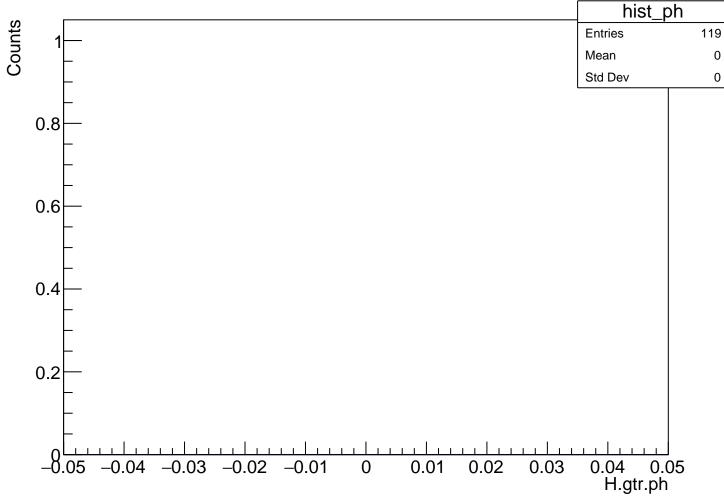
Run 6181: NPS.kin.secondary.emiss



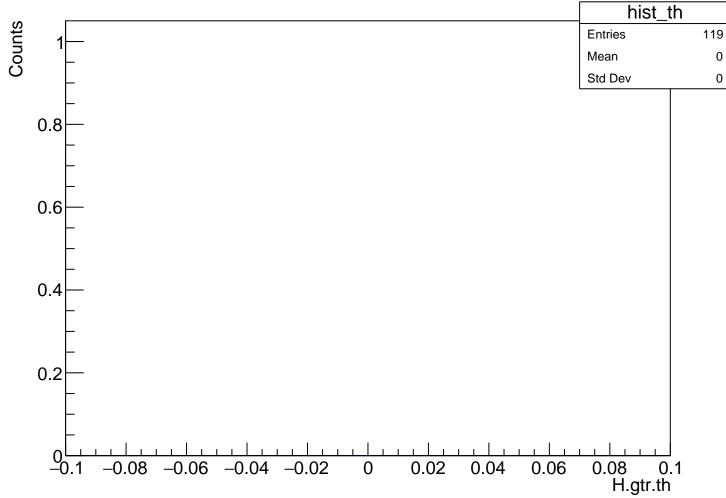
Run 6181: NPS.kin.secondary.emiss_nuc



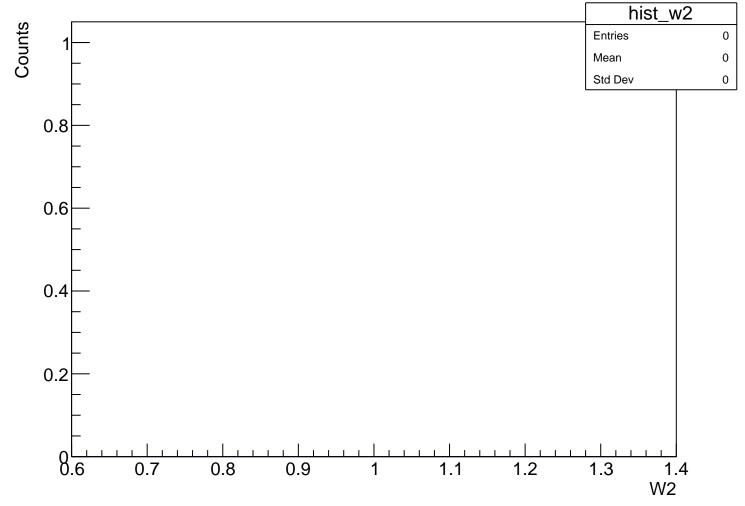
Run 6181: H.gtr.ph



Run 6181: H.gtr.th



Run 6182: H.kin.W2



Run 6182: H.kin.x_bj hist_x_bj Entries 55730 Mean 0.9199 Std Dev 0.05918 5000 4000 3000 2000 1000 1.2 x_bj 8.0 0.9 0.7

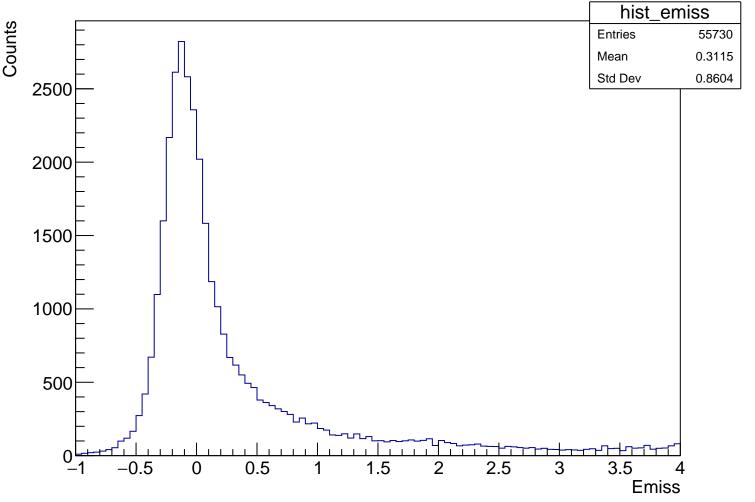
Run 6182: NPS.kin.secondary.pmiss_x hist_pmiss_x **Entries** 55730 -0.07605Mean 1200 Std Dev 0.1576 1000 800 600 400 200 -0.20.2 -0.40.6 0.4 Pmiss_x

Run 6182: NPS.kin.secondary.pmiss_y hist_pmiss_y Counts **Entries** 55730 -0.007319Mean 800 Std Dev 0.2284 700 600 500 400 300 200 100 -0.4-0.20.2 0.4 0.6 Pmiss_y

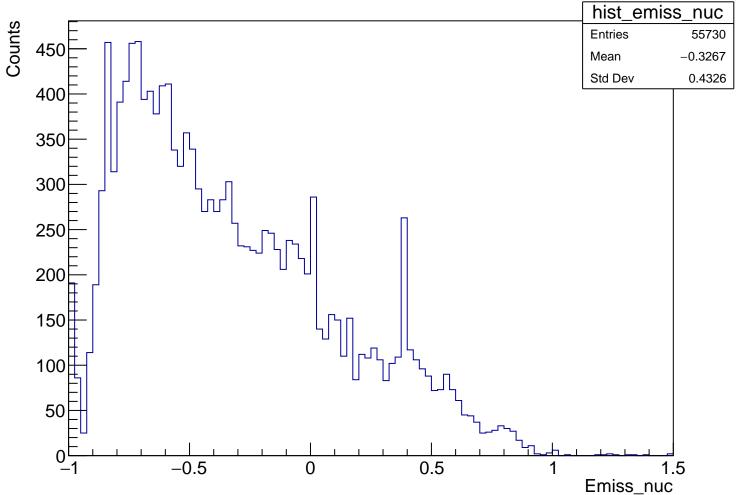
Run 6182: NPS.kin.secondary.pmiss_z _pmiss_z hist Counts 100 **Entries** 55730 Mean -2.23890 Std Dev 0.9137 80 70 60 50 40 30 20 -3.5-2.5 -3 -1.5 Pmiss_z

Run 6182: NPS.kin.secondary.pmiss hist_pmiss **Entries** 55730 1600 0.8187 Mean Std Dev 0.9782 1400 1200 1000 800 600 400 200 2.5 3.5 1.5 3 0.5 **Pmiss**

Run 6182: NPS.kin.secondary.emiss



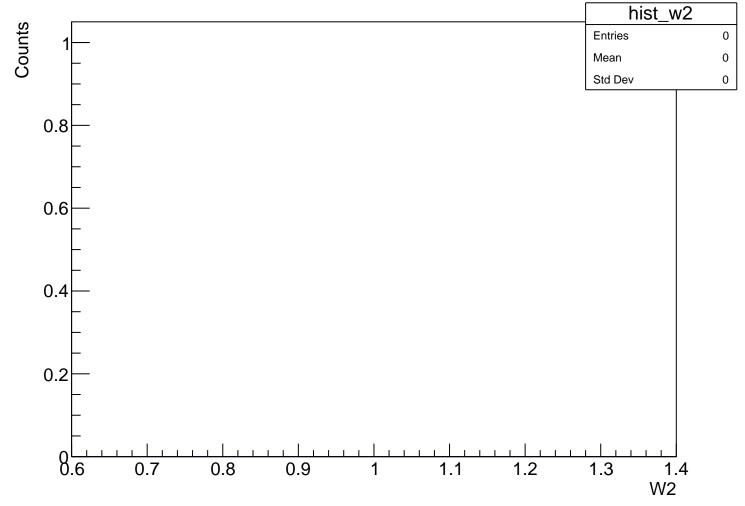
Run 6182: NPS.kin.secondary.emiss_nuc



Run 6182: H.gtr.ph hist_ph Counts Entries 55730 800 0.000712 Mean Std Dev 0.01576 700 600 500 400 300 200 100 -0.03-0.02-0.04-0.010.01 0.02 0.03 0.05 0 0.04 H.gtr.ph

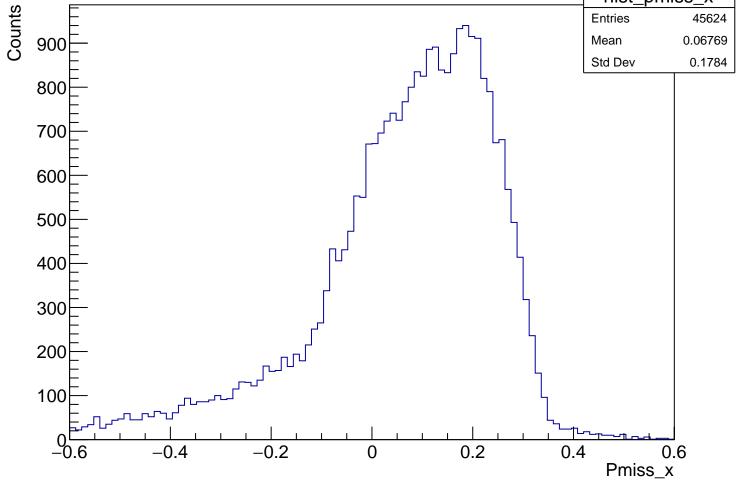
Run 6182: H.gtr.th hist_th Counts Entries 55730 -0.003016Mean 600 Std Dev 0.03694 500 400 300 200 100 0.08 0.1 H.gtr.th -0.08 -0.06-0.04 -0.020.02 0.04 0.06 0

Run 6183: H.kin.W2



Run 6183: H.kin.x_bj hist_x_bj 5000 Entries 45624 0.9248 Mean Std Dev 0.05545 4000 3000 2000 1000 1.2 x_bj 0.7 8.0 0.9

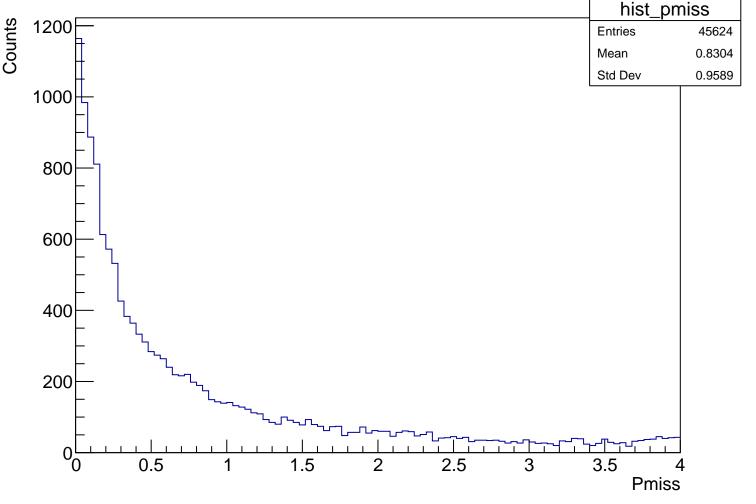
Run 6183: NPS.kin.secondary.pmiss_x hist_pmiss_x **Entries** 45624 0.06769 Mean Std Dev 0.1784



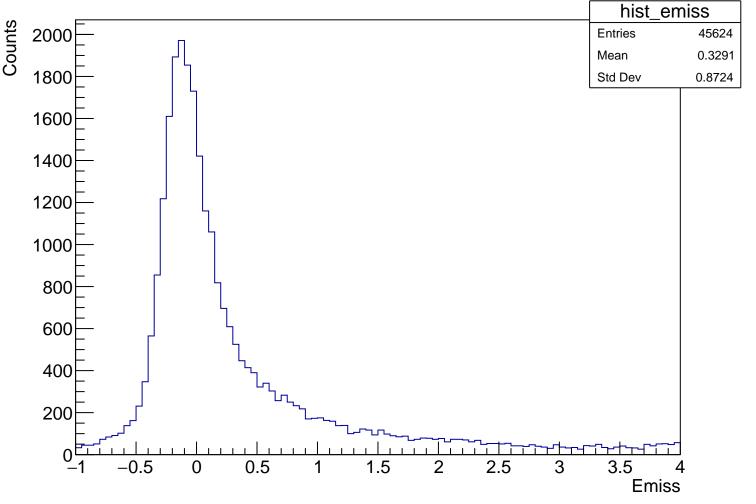
Run 6183: NPS.kin.secondary.pmiss_y hist_pmiss_y Counts **Entries** 45624 -0.006322Mean Std Dev 0.2353 500 400 300 200 100 -0.20.2 -0.40.4 0.6 Pmiss_y

Run 6183: NPS.kin.secondary.pmiss_z hist_pmiss_z Counts **Entries** 45624 Mean -2.19180 Std Dev 0.9086 70 60 50 40 30 20 -3.5-2.5 -1.5 Pmiss_z

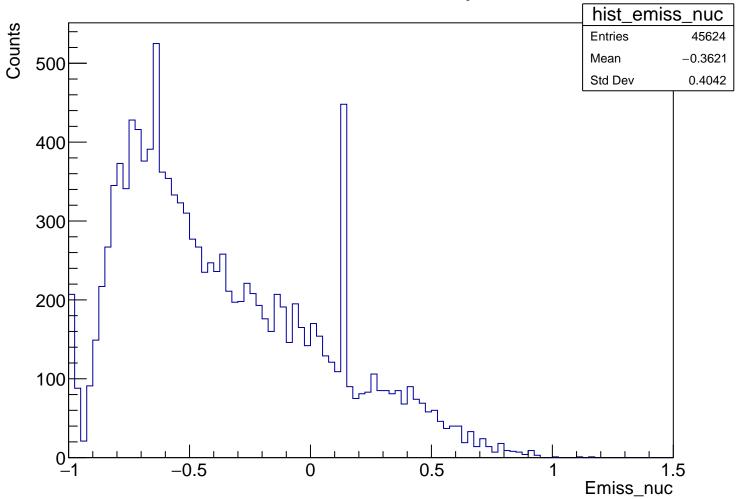
Run 6183: NPS.kin.secondary.pmiss



Run 6183: NPS.kin.secondary.emiss



Run 6183: NPS.kin.secondary.emiss_nuc



Run 6183: H.gtr.ph hist_ph Counts Entries 45624 0.001581 Mean Std Dev 0.01502 600 500 400 300 200 100 0.04 0.0 H.gtr.ph -0.03-0.020.02 -0.04-0.010.01 0.03 0.05 0

Run 6183: H.gtr.th hist th **Entries** 45624 -0.00265Mean 500 Std Dev 0.03687 400 300 200 100 -0.06-0.04-0.020.02 0.04 0.06 80.0 0 0.1 H.gtr.th