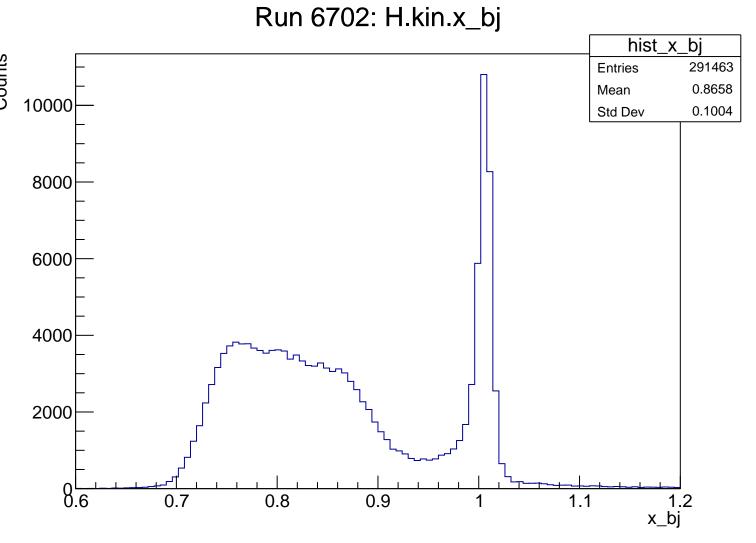
Run 6702: H.kin.W2 hist\_w2 9000 291463 **Entries** 1.563 Mean 8000 Std Dev 0.5 7000 6000 5000 4000 3000 2000 1000 1.2 2.2 2.4 2.6 0.6 8.0 1.6 1.8 2 1.4 W2



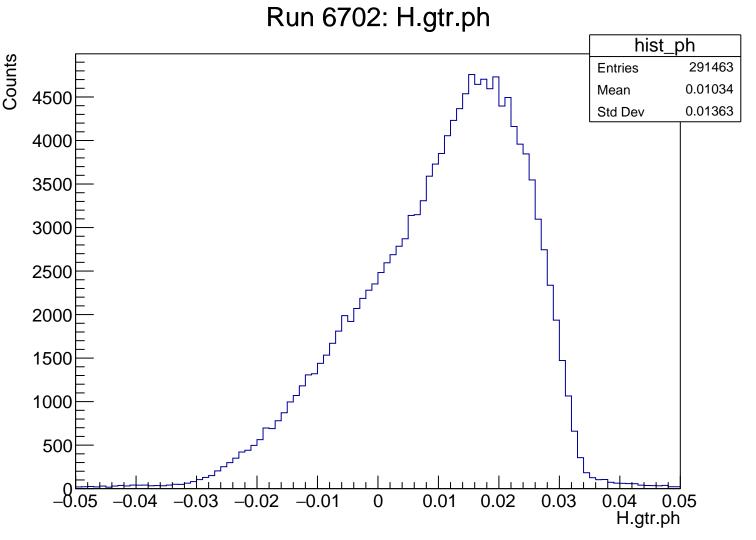
Run 6702: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 291463 **Entries** 16000 0.06506 Mean 0.0684 Std Dev 14000 12000 10000 8000 6000 4000 2000 -0.2-0.40.2 0.4 0.6 Pmiss\_x

Run 6702: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y 22000 **Entries** 291463 Mean -0.00472120000 Std Dev 0.05596 18000 16000 14000 12000 10000 8000 6000 4000 2000 -0.2-0.40.2 0.4 0 0.6 Pmiss\_y

Run 6702: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z 291463 **Entries** 5000 -2.754Mean Std Dev 0.3685 4000 3000 2000 1000 -3.5-2.5 -1.5 Pmiss\_z

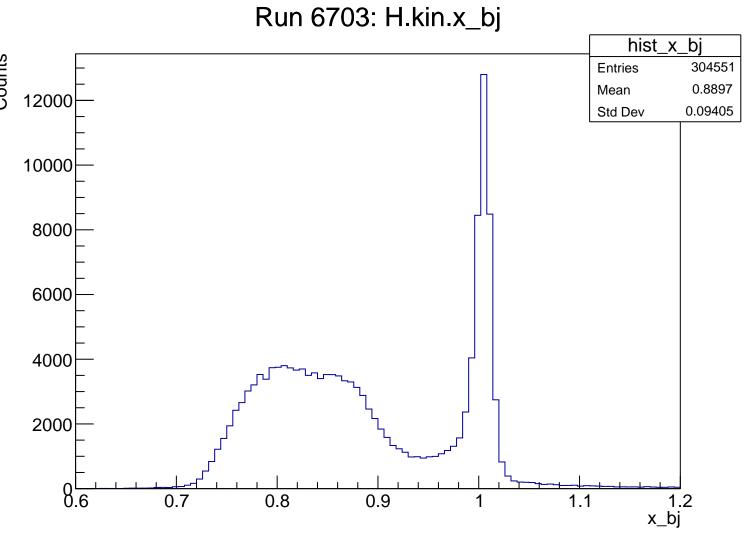
Run 6702: NPS.kin.secondary.emiss hist\_emiss 291463 **Entries** 2.025 Mean 7000 0.4179 Std Dev 6000 5000 4000 3000 2000 1000 0.5 2.5 3.5 -0.51.5 3 **Emiss** 

Run 6702: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc 3000 291463 **Entries** -0.1929Mean 0.424 Std Dev 2500 2000 1500 1000 500 0.5 Emiss\_nuc



Run 6702: H.gtr.th hist\_th Entries 37176 -0.0009692Mean 600 Std Dev 0.03689 500 400 300 200 100 -0.08 -0.06-0.04 -0.020.02 0.04 08 0.1 H.gtr.th 0.06 80.0 0

Run 6703: H.kin.W2 hist\_w2 304551 **Entries** 1.447 Mean 9000 Std Dev 0.4661 8000 7000 6000 5000 4000 3000 2000 1000 1.2 2.2 2.6 0.6 8.0 1.4 1.6 1.8 2 2.4 W2



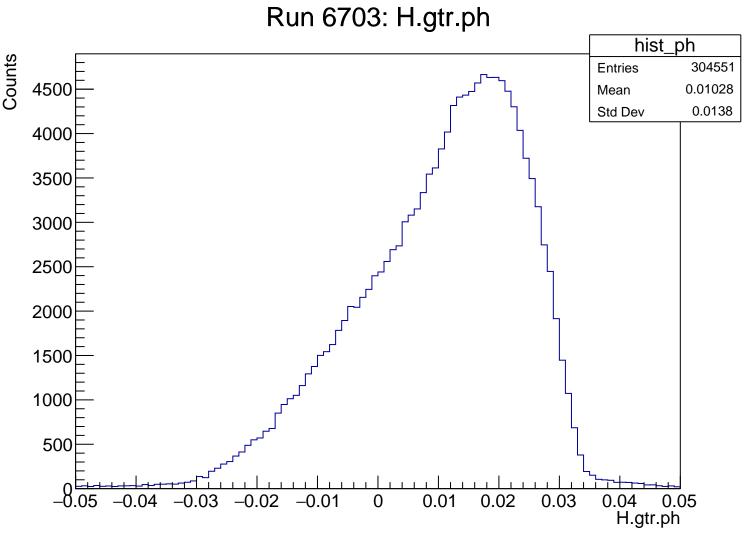
Run 6703: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 304551 **Entries** 16000 0.0671 Mean 0.07044 Std Dev 14000 12000 10000 8000 6000 4000 2000 -0.2-0.40.2 0.4 0.6 Pmiss\_x

Run 6703: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y 22000 **Entries** 304551 Mean -0.00461820000 Std Dev 0.05731 18000 16000 14000 12000 10000 8000 6000 4000 2000 -0.2-0.40.2 0.4 0 0.6 Pmiss\_y

Run 6703: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z 304551 **Entries** -2.778Mean 5000 Std Dev 0.37 4000 3000 2000 1000 -3.5-2.5 -1.5 Pmiss\_z

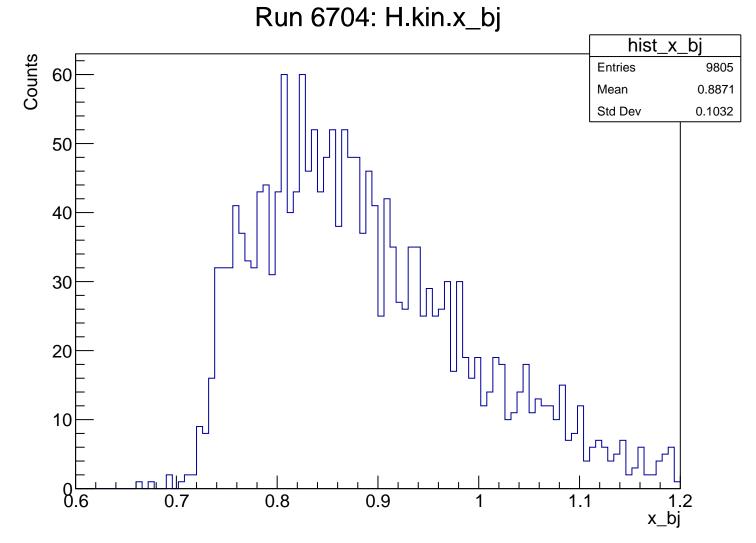
Run 6703: NPS.kin.secondary.emiss hist\_emiss 8000 304551 **Entries** 2.031 Mean 0.4181 Std Dev 7000 6000 5000 4000 3000 2000 1000 0.5 2.5 3.5 -0.51.5 3 **Emiss** 

Run 6703: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc 304551 **Entries** 1800 -0.2658Mean 0.4725 Std Dev 1600 1400 1200 1000 800 600 400 200 0.5 Emiss\_nuc



Run 6703: H.gtr.th hist\_th Counts Entries 45537 800 -0.001514Mean Std Dev 0.03672 700 600 500 400 300 200 100 -0.08 -0.0680.0 -0.04 -0.020.02 0.04 0.06 0 0.1 H.gtr.th

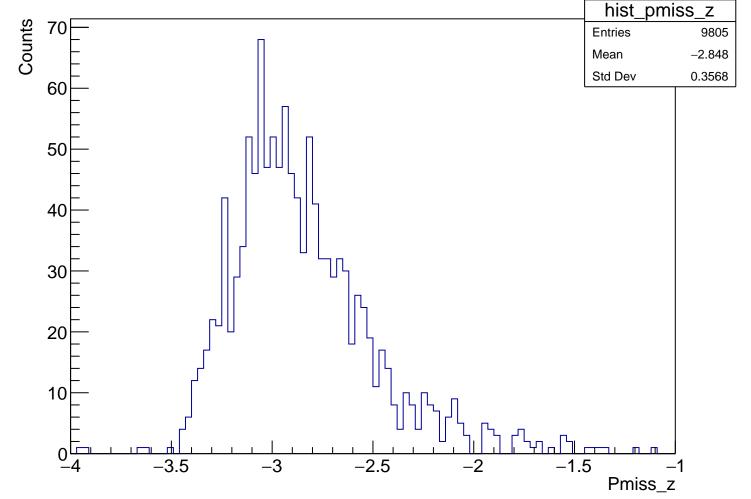
Run 6704: H.kin.W2 hist\_w2 Counts 40 Entries 9805 Mean 1.513 Std Dev 0.4489 35 30 25 20 15 5 2.6 W2 1.2 2.2 8.0 1.6 2.4 0.6 1.4 1.8 2



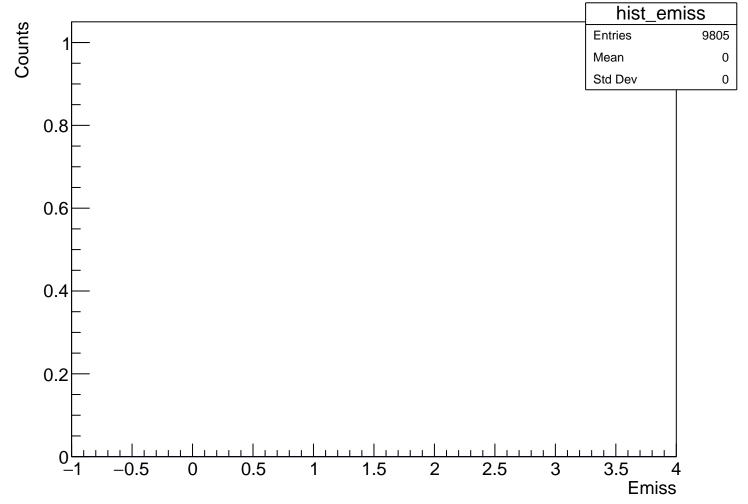
Run 6704: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x Counts **Entries** 9805 180 0.06021 Mean Std Dev 0.07203 160 140 120 100 80 60 40 20 -0.4-0.20.2 0.6 0.4 Pmiss\_x

Run 6704: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y Counts **Entries** 9805 -0.002777 Mean 250 Std Dev 0.05767 200 150 100 50 -0.4-0.20.2 0.4 0.6 Pmiss\_y

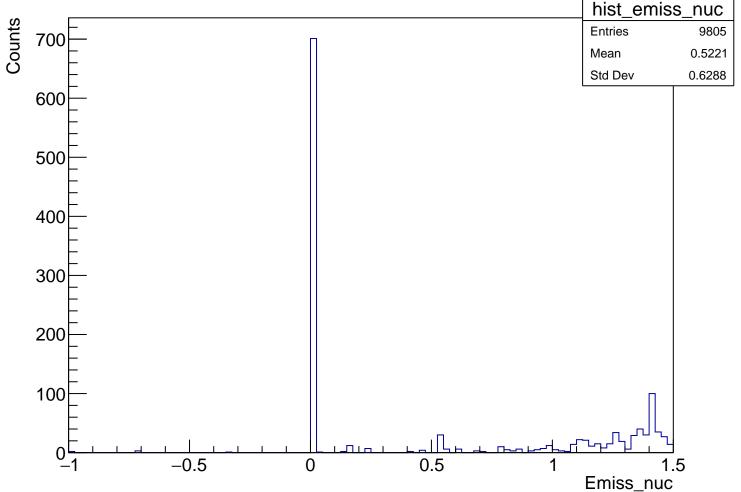
Run 6704: NPS.kin.secondary.pmiss\_z

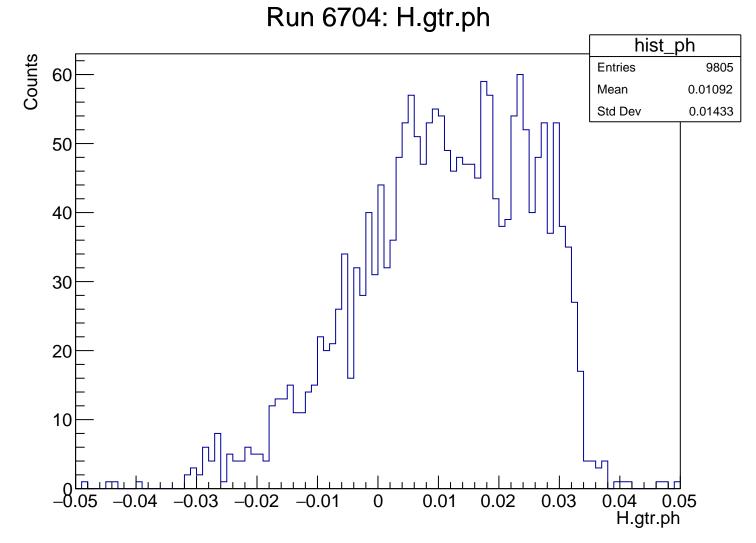


Run 6704: NPS.kin.secondary.emiss

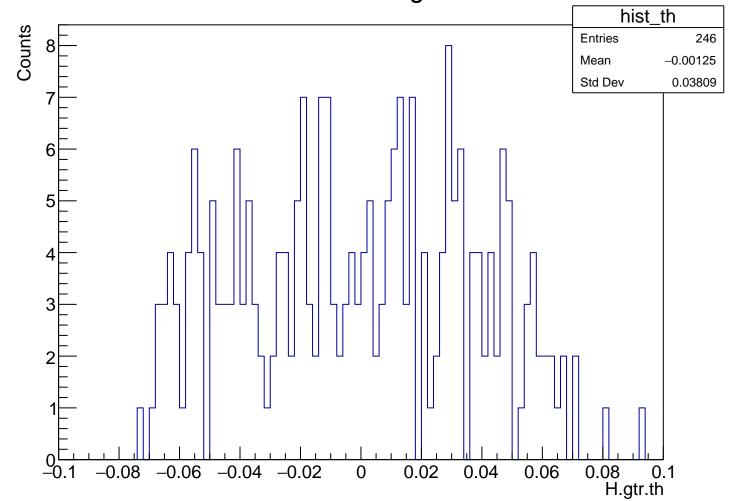


Run 6704: NPS.kin.secondary.emiss\_nuc

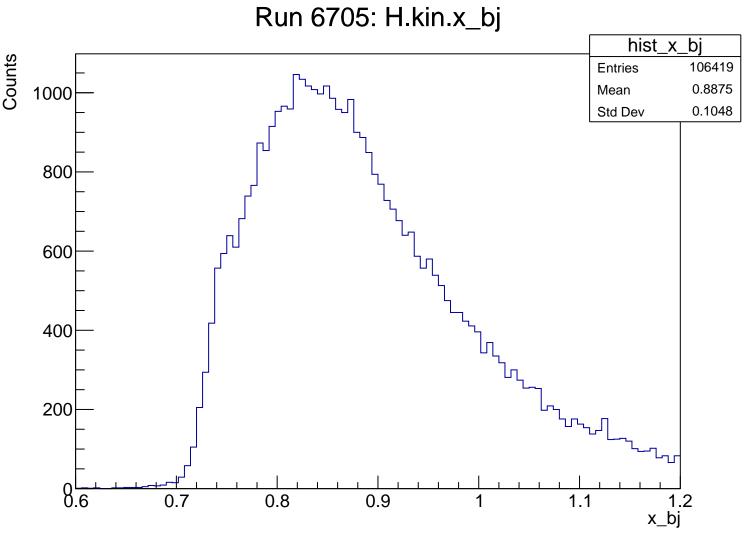




Run 6704: H.gtr.th



Run 6705: H.kin.W2 hist\_w2 Counts 106419 Entries 700 1.52 Mean Std Dev 0.4453 600 500 400 300 200 100 2.6 W2 1.2 2.2 8.0 2.4 1.4 1.6 1.8 2 0.6

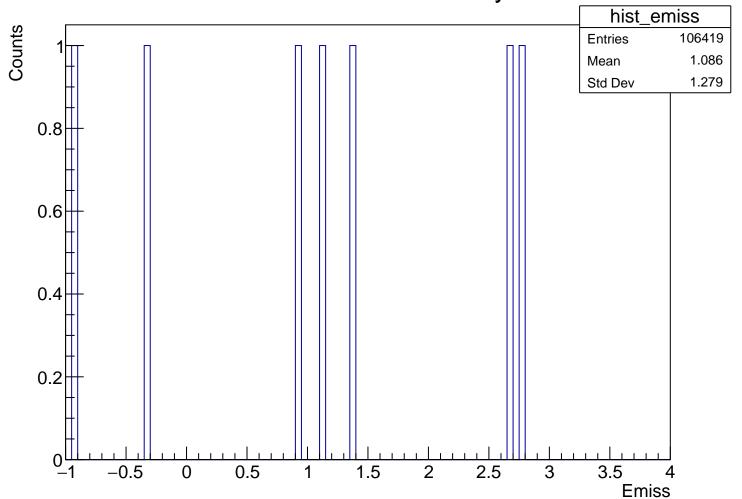


Run 6705: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 4500 106419 **Entries** 0.05851 Mean 4000 0.06422 Std Dev 3500 3000 2500 2000 1500 1000 500 -0.4-0.20.2 0.4 0.6 Pmiss\_x

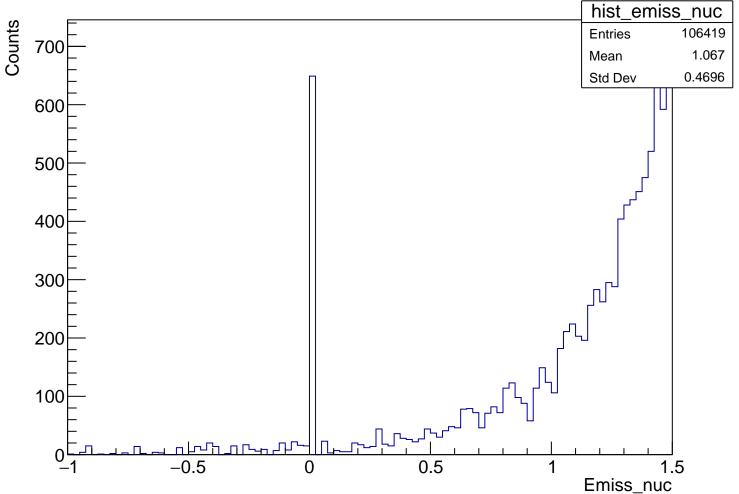
Run 6705: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y **Entries** 106419 6000 Mean -0.003608Std Dev 0.04922 5000 4000 3000 2000 1000 0.2 -0.40.4 0.6 Pmiss\_y

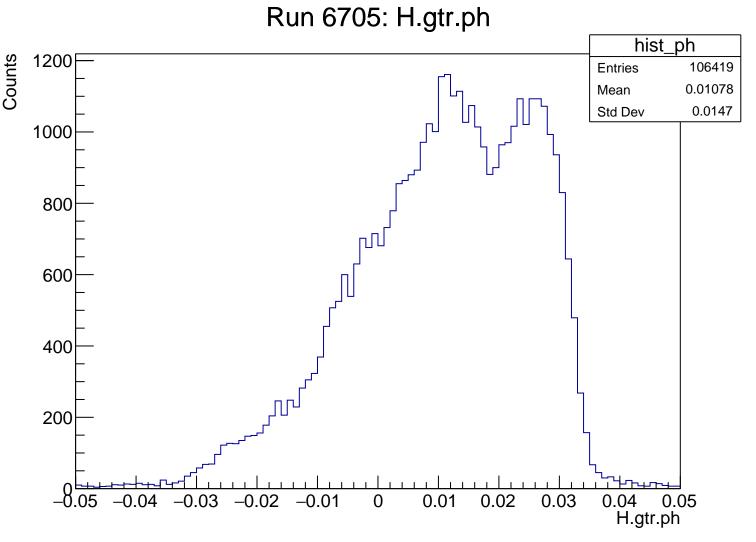
Run 6705: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z 106419 **Entries** -2.854Mean Std Dev 0.3561 1200 1000 800 600 400 200 -3.5-2.5 -1.5 Pmiss\_z

Run 6705: NPS.kin.secondary.emiss



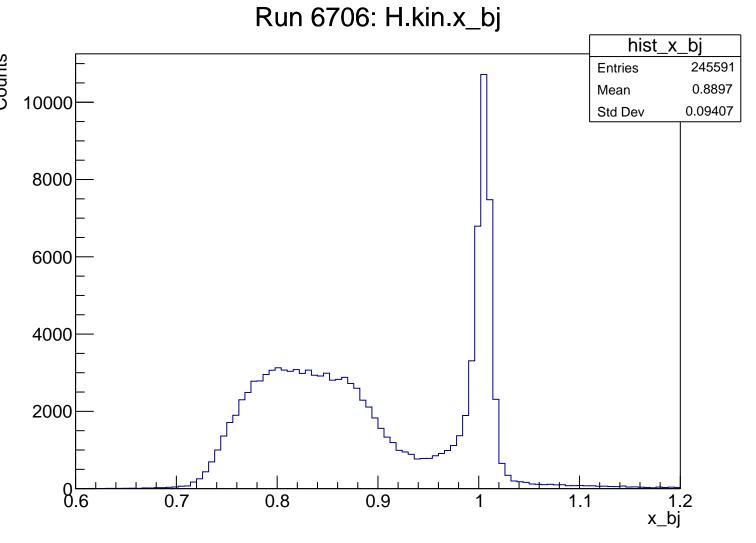
Run 6705: NPS.kin.secondary.emiss\_nuc





Run 6705: H.gtr.th hist\_th Counts 100 Entries 5146 Mean -0.001296Std Dev 0.03731 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 6706: H.kin.W2 hist\_w2 245591 **Entries** 8000 1.446 Mean Std Dev 0.4663 7000 6000 5000 4000 3000 2000 1000 2.2 2.6 1.2 2.4 0.6 8.0 1.4 1.6 1.8 2 W2



Run 6706: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 14000F 245591 **Entries** 0.06673 Mean 0.06999 Std Dev 12000 10000 8000 6000 4000 2000 -0.2-0.40.2 -0.60.4 0.6 Pmiss\_x

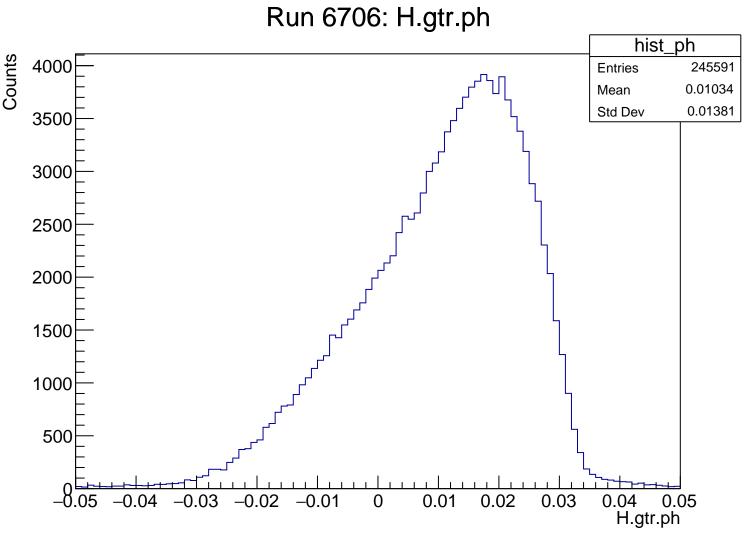
Run 6706: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y **Entries** 245591 18000 Mean -0.004389Std Dev 0.05667 16000 14000 12000 10000 8000 6000 4000 2000 -0.2-0.40.2 0.4 0.6 Pmiss\_y

Run 6706: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z 4500 245591 **Entries** -2.781Mean 0.3684 Std Dev 4000 3500 3000 2500 2000 1500 1000 500 -3.5-2.5 -1.5 Pmiss\_z

Run 6706: NPS.kin.secondary.emiss hist\_emiss 7000 245591 **Entries** 2.967 Mean Std Dev 0.4273 6000 5000 4000 3000 2000 1000 1.5 2.5 3.5 -0.50.5 3

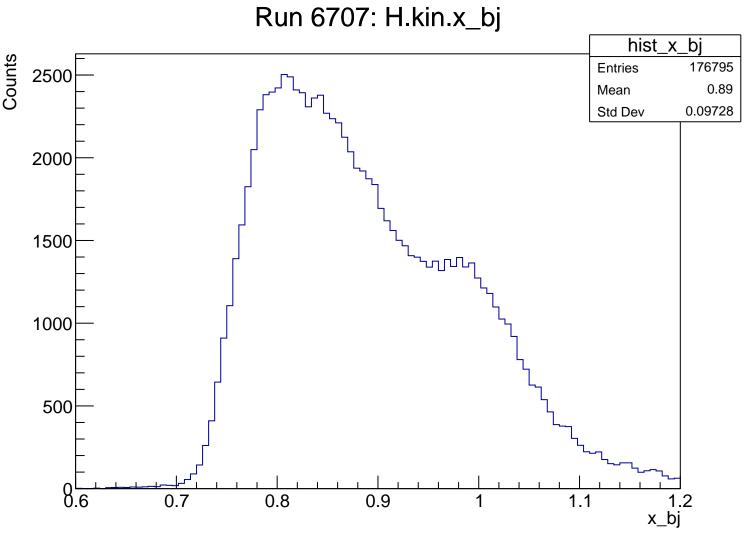
**Emiss** 

Run 6706: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc 12000 245591 **Entries** 0.1254 Mean 0.2218 Std Dev 10000 8000 6000 4000 2000 0<sup>L</sup> 0.5 -0.5Emiss\_nuc



Run 6706: H.gtr.th hist\_th Counts Entries 38139 700 -0.001624Mean Std Dev 0.03668 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 6707: H.kin.W2 hist\_w2 176795 **Entries** 1600 1.474 Mean Std Dev 0.4458 1400 1200 1000 800 600 400 200 2.2 1.2 2.6 8.0 1.4 1.6 1.8 2 2.4 0.6 W2



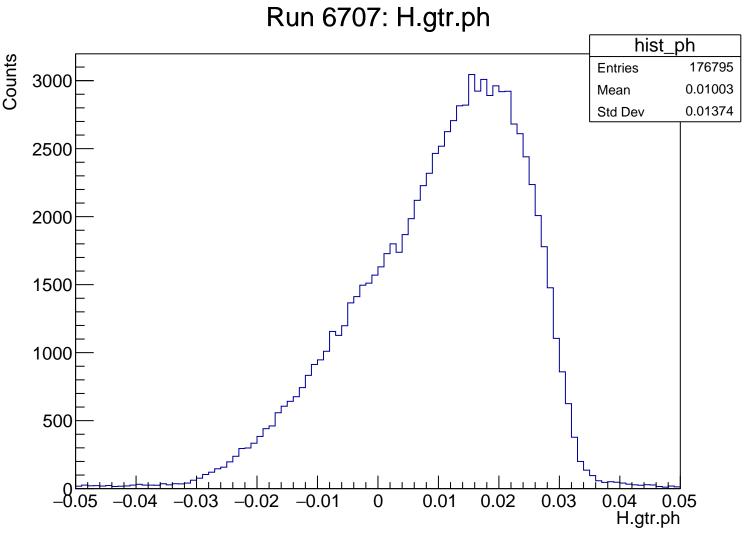
Run 6707: NPS.kin.secondary.pmiss\_x hist\_pmiss\_x 176795 **Entries** 10000 0.07673 Mean 0.07583 Std Dev 8000 6000 4000 2000 -0.6 -0.20.2 -0.40.4 0.6 Pmiss\_x

Run 6707: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y **Entries** 176795 -0.005335Mean 12000 Std Dev 0.06201 10000 8000 6000 4000 2000 -0.2-0.40.2 0.4 0.6 Pmiss\_y

Run 6707: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z 176795 **Entries** 3500 -2.707Mean Std Dev 0.3839 3000 2500 2000 1500 1000 500 -2.5 -3.5-1.5 Pmiss\_z

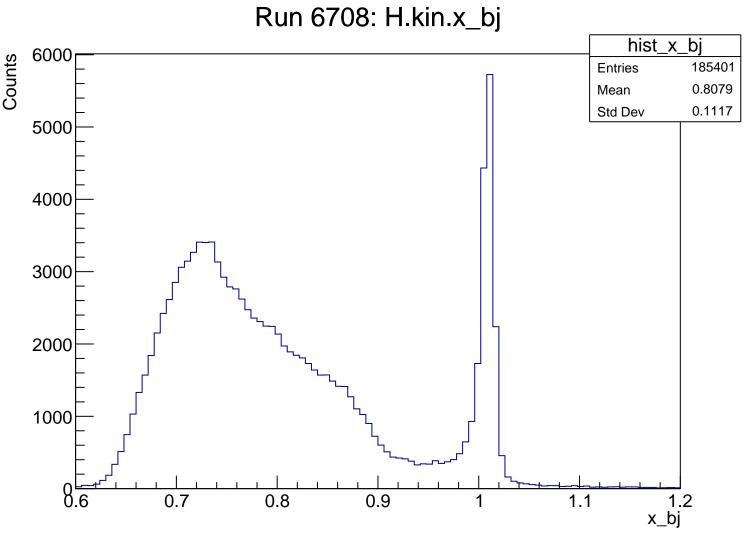
Run 6707: NPS.kin.secondary.emiss hist\_emiss 176795 **Entries** 3.583 5000 Mean Std Dev 0.4172 4000 3000 2000 1000 2.5 3.5 -0.50.5 1.5 3 **Emiss** 

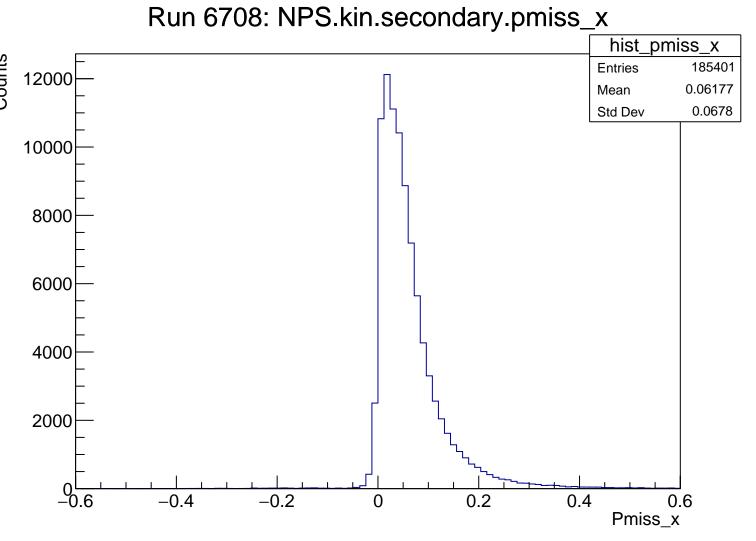
Run 6707: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc 9000F 176795 **Entries** 0.8305 Mean 8000 Std Dev 0.244 7000 6000 5000 4000 3000 2000 1000 -0.50.5 Emiss\_nuc



Run 6707: H.gtr.th hist\_th Counts Entries 16110 300 -0.001637Mean Std Dev 0.03694 250 200 150 100 50 0.08 0.1 H.gtr.th -0.06-0.04 -0.020.02 0.04 -0.080.06 0

Run 6708: H.kin.W2 hist\_w2 Counts 5000 185401 Entries 1.804 Mean Std Dev 0.5467 4000 3000 2000 1000 1.2 2.2 2.6 8.0 2.4 0.6 1.4 1.6 1.8 W2

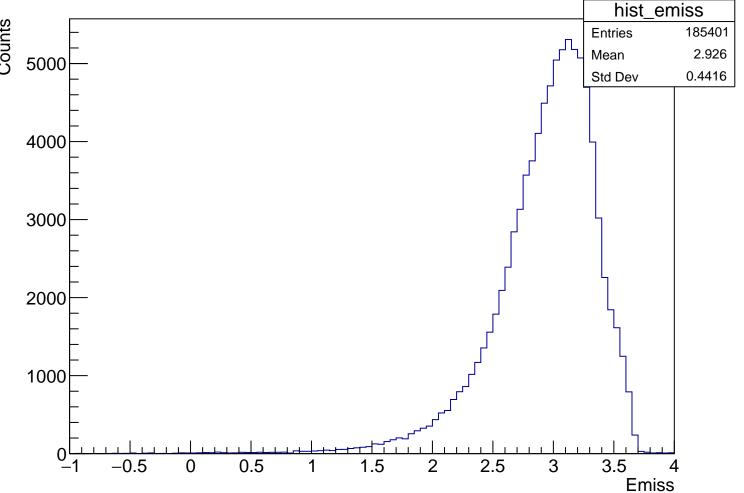




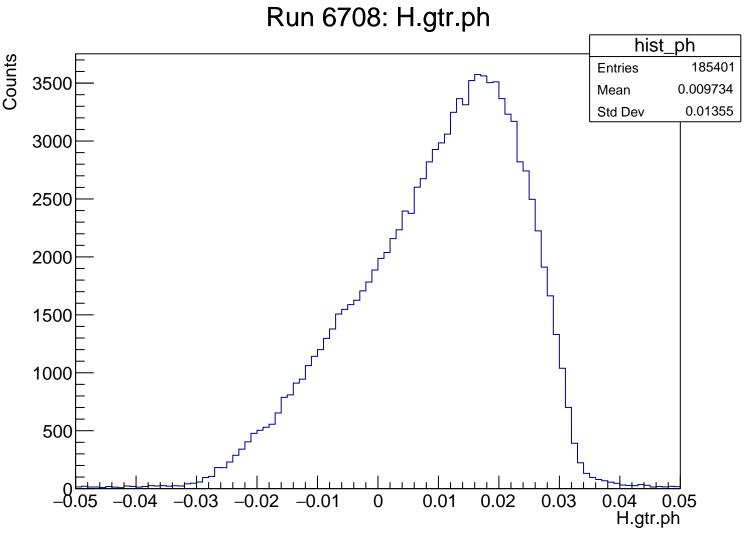
Run 6708: NPS.kin.secondary.pmiss\_y hist\_pmiss\_y 16000 **Entries** 185401 -0.004206Mean Std Dev 0.05413 14000 12000 10000 8000 6000 4000 2000 -0.2-0.40.2 0.4 0.6 Pmiss\_y

Run 6708: NPS.kin.secondary.pmiss\_z hist\_pmiss\_z 185401 **Entries** -2.677Mean 3500 Std Dev 0.3737 3000 2500 2000 1500 1000 500 -3.5 -2.5 -1.5 Pmiss\_z

Run 6708: NPS.kin.secondary.emiss



Run 6708: NPS.kin.secondary.emiss\_nuc hist\_emiss\_nuc 18000 185401 **Entries** 0.2777 Mean 16000 0.2431 Std Dev 14000 12000 10000 8000 6000 4000 2000 -0.5 0.5 Emiss\_nuc



Run 6708: H.gtr.th hist\_th Counts 350 Entries 18048 -0.001086Mean Std Dev 0.03625 300 250 200 150 100 50 0.08 0.1 H.gtr.th -0.08 -0.06-0.04 -0.020.02 0.04 0.06 0