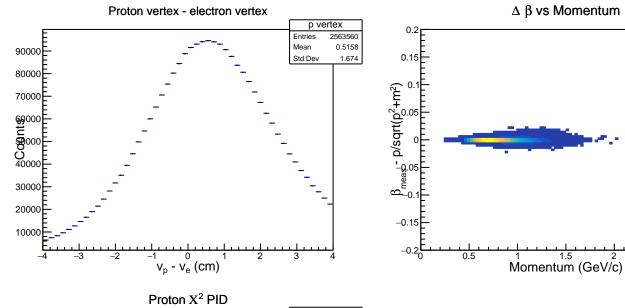
Deuterium run 015053

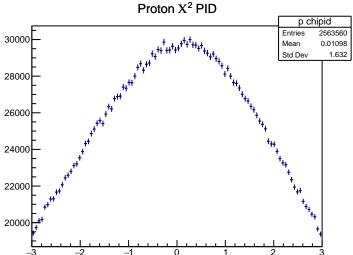
d(e,e'p)n

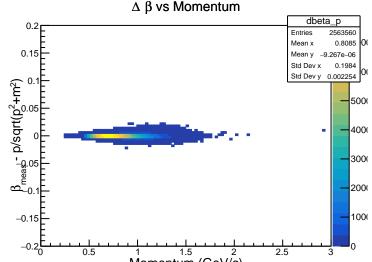
allow only PID=0,11,22,2212,2112

exactly 1p, 1e

proton in FD







Deuterium run 015053

d(e,e'p)n

Require proton in FTOF

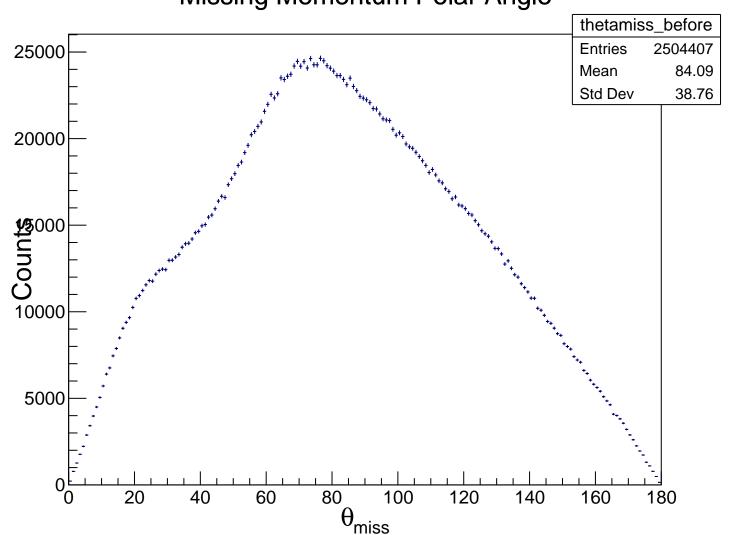
 $-4 \text{ cm} < \text{v}_{\text{p}} - \text{v}_{\text{e}} < 2 \text{ cm}$

 $-0.02 < \Delta \beta < 0.02$

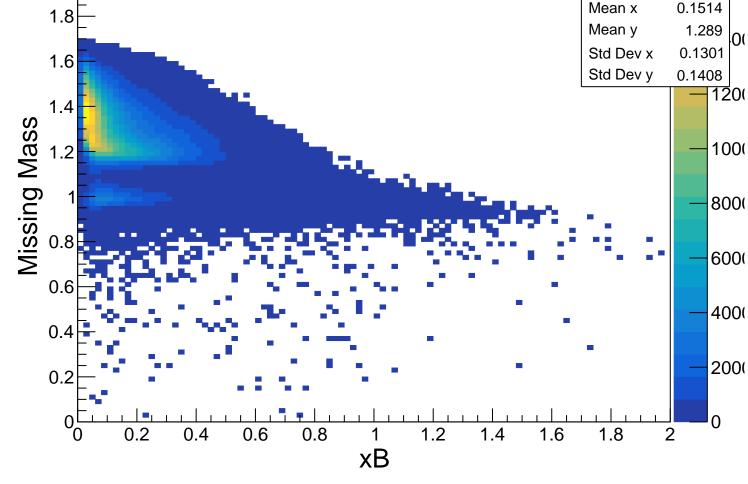
 $p_p > 0.3 \text{ GeV/c}$

-3 < proton χ^2_{PID} <3

Missing Momentum Polar Angle



Missing Mass vs xB mmiss_xb_cand 1915370 00 **Entries** Mean x 0.1514 1.8 Mean y 1.289 0.1301 Std Dev x 1.6 Std Dev y 0.1408 1200 1.4 Missing Mass 1000 1.2 8000 8.0 6000 0.6 4000 0.4



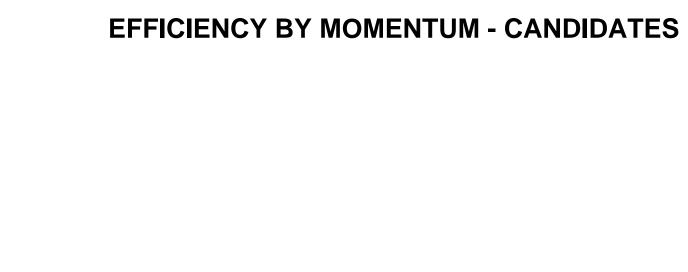
Deuterium run 015053

d(e,e'pn)

proton cuts

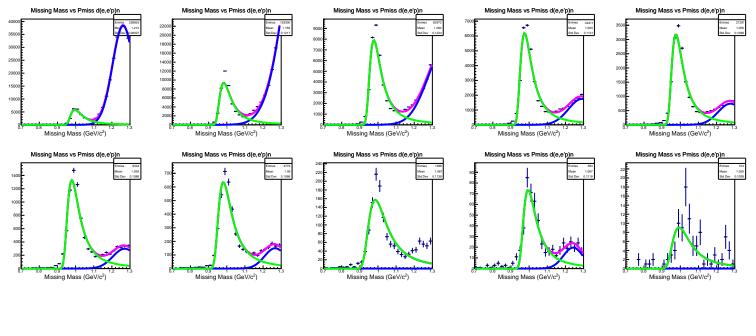
40 deg $< \theta_{\text{miss}} < 140$ deg

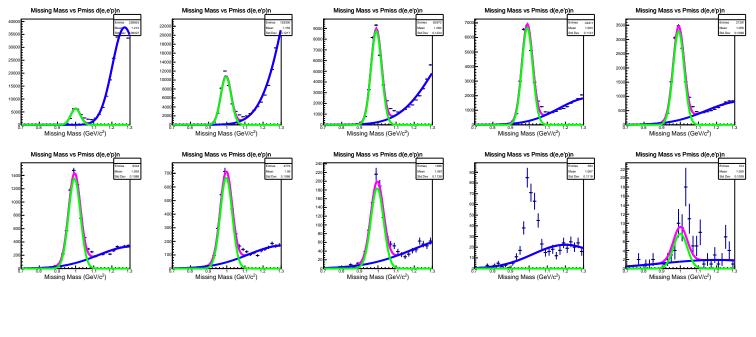
 $0.24 \text{ GeV/c} < p_{\text{miss}} < 1.25 \text{ GeV/c}$

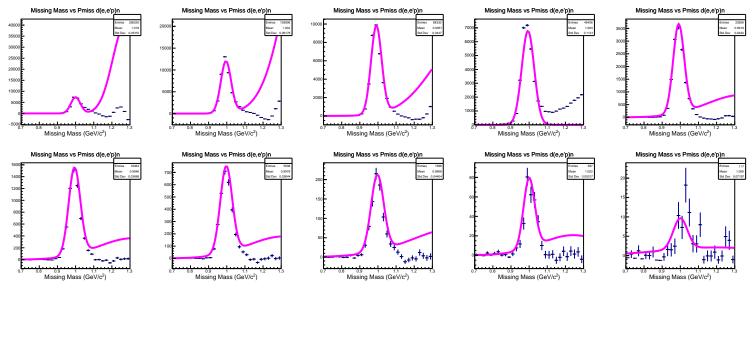


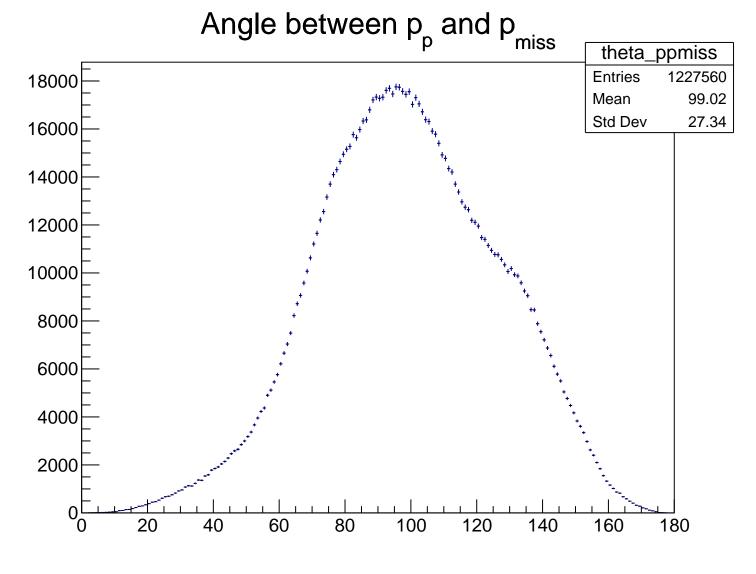
Missing Mass vs Pmiss d(e,e'p)n mmiss_pmiss 0(**Entries** 1227560 Mean x 0.3995 1.8 Mean y 1.305 Std Dev x 0.1204 1.6 Missing Mass (GeV/c²) Std Dev y 0.16 1000 1.4 5000 4000 8.0 3000 0.6 2000 0.4 1000 0.2 O.6 O.8 Pmiss (GeV/c) 0.2 0.4 1.2 1.4

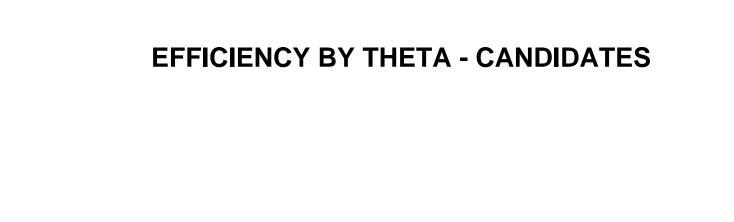
Missing Mass vs Pmiss d(e,e'p)n mmiss_pmissCAND 1.3 **Entries** 1227560 0.3816 Mean x Mean y 1.16 1.2 0.1212 Std Dev x Missing Mass (GeV/c^2) Std Dev y 0.1181 3500 1.1 3000 2500 2000 0.9 1500 1000 8.0 500 0.7 0.4 0.5 8.0 0.9 0.3 0.6 0.7 Pmiss (GeV/c)



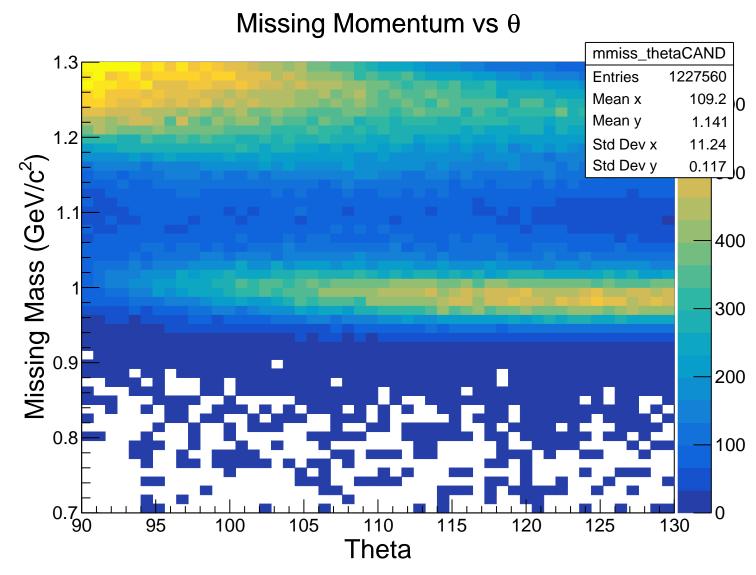


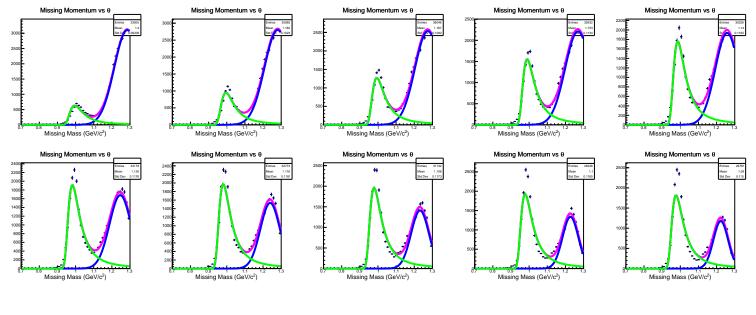


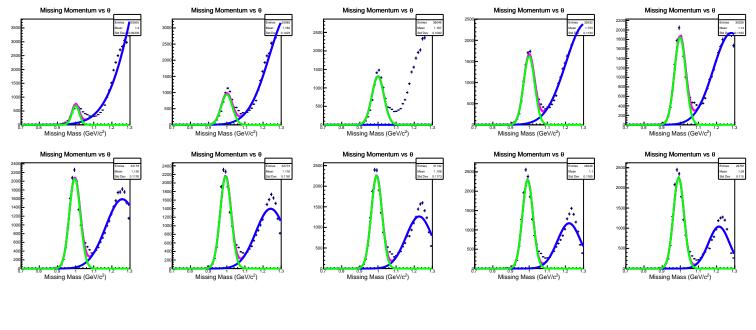


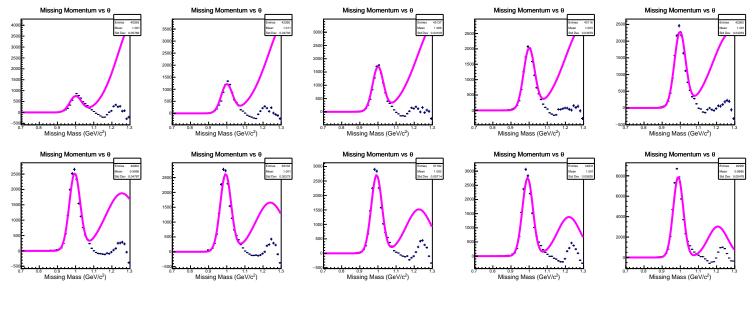


Missing Momentum vs θ mmiss_theta 1227560 0(**Entries** 82.19 Mean x 1.8 Mean y 1.305 25.68 Std Dev x 1.6 Missing Mass (GeV/c²) Std Dev y 0.16 Ш 3000 1.4 1.2 2500 2000 8.0 1500 0.6 1000 0.4 500 0.2 20 40 60 80 100 120 140 **Theta**









Deuterium run 015053

d(e,e'pn)

proton cuts

p_{miss} cuts

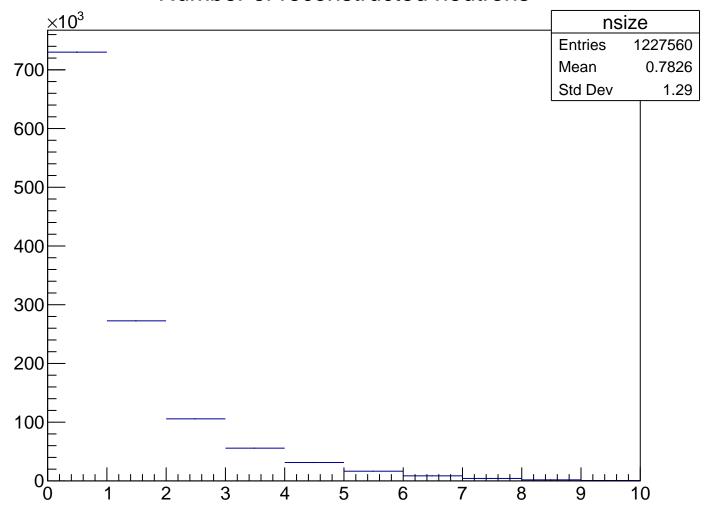
Require neutron in CND

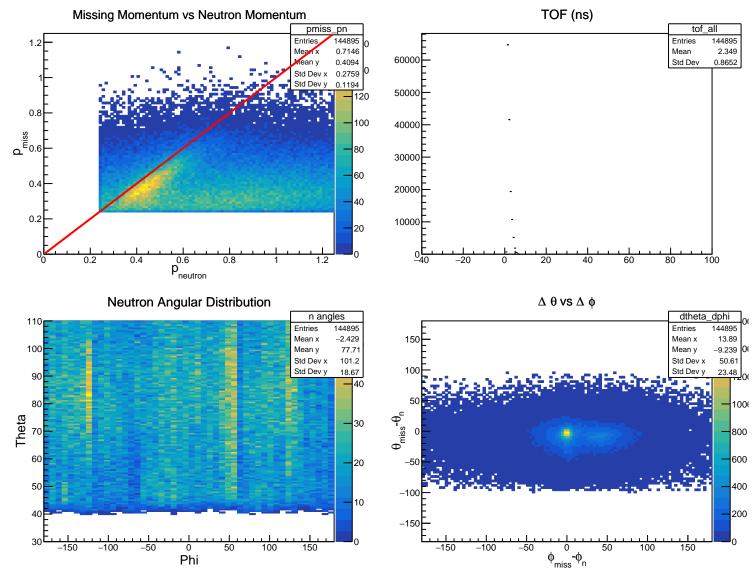
exclude $\theta_n=0$, $\phi_n=0$

40 deg < $\theta_{\rm n}$ < 140 deg

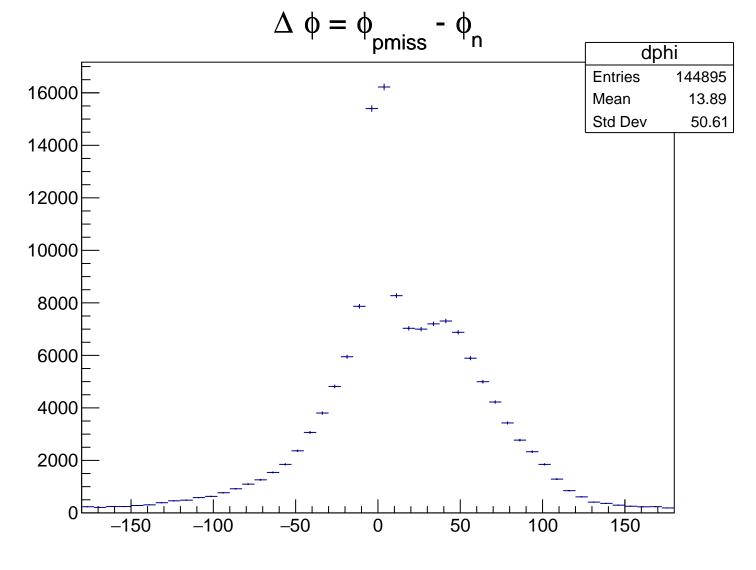
 $0.25 < \beta_{\rm n} < 0.8$

Number of reconstructed neutrons





 $\text{cos } \theta_{\text{pmiss,pneutron}}$ cos0 **Entries** 144895 Mean 0.6467 25000 Std Dev 0.393 20000 15000 10000 5000 -0.5 0.5



Deuterium run 015053

d(e,e'pn)

proton cuts

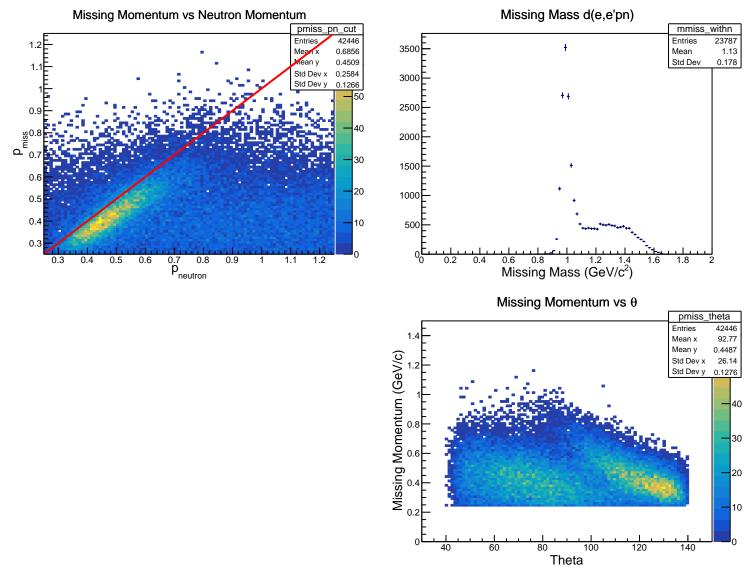
p_{miss} cuts

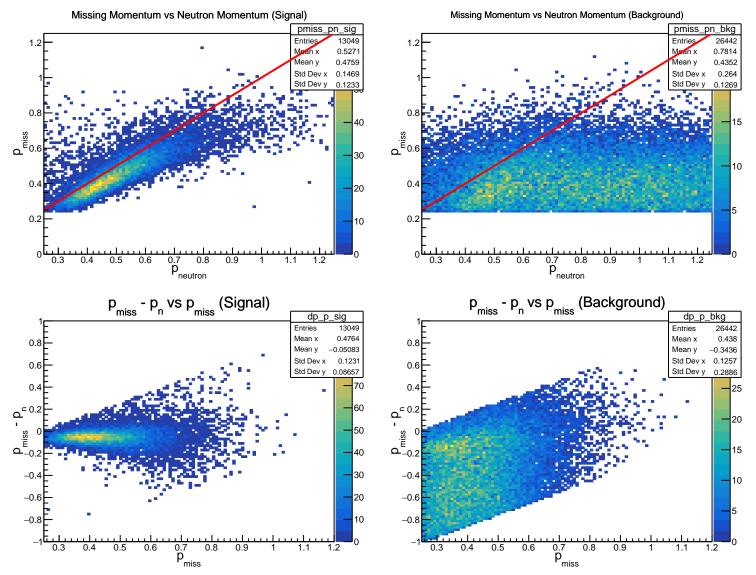
exclude $\theta_n=0$, $\phi_n=0$

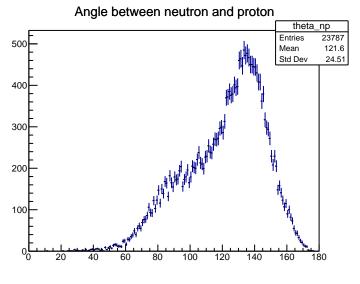
40 deg < $\theta_{\rm n}$ < 140 deg

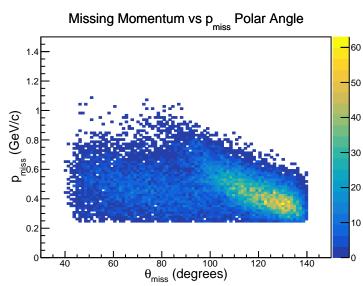
 $0.25 < \beta_{\rm n} < 0.8$

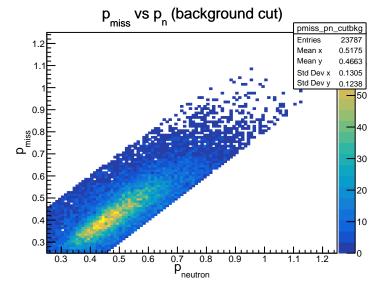
 $\cos \theta_{\text{pmiss,pn}} > 0.9, -20 < \Delta \phi < 20$

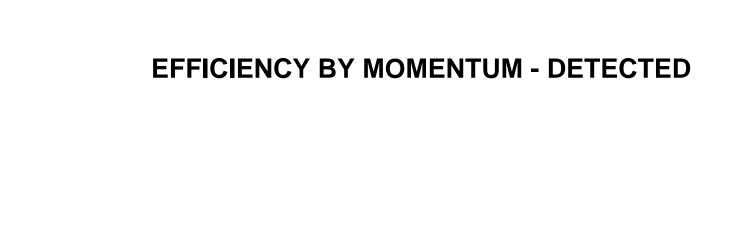


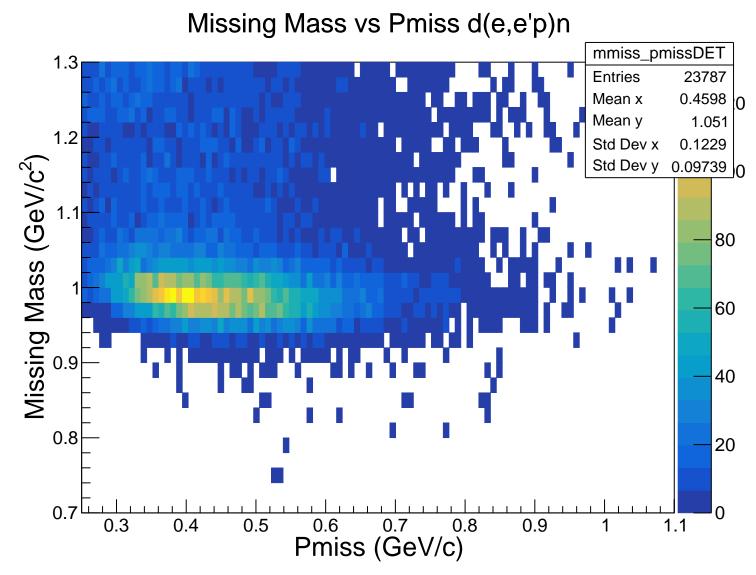


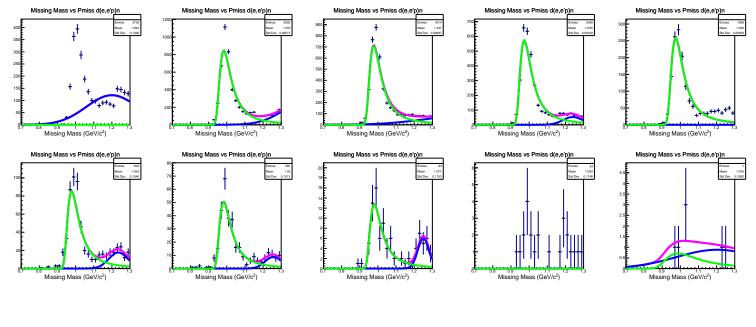


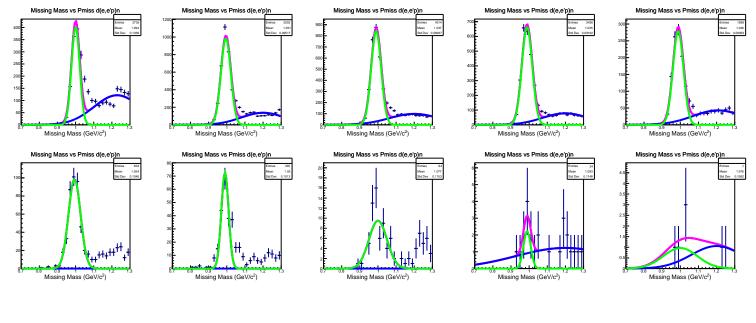


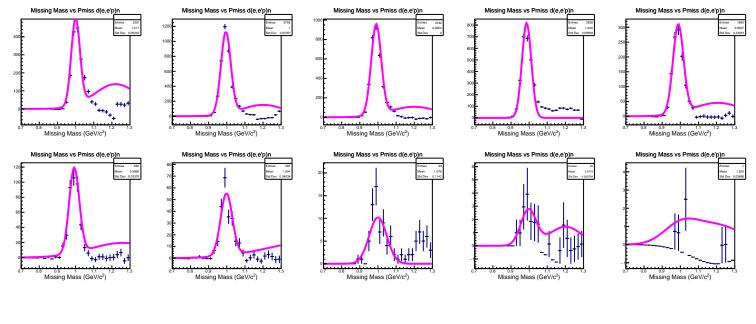


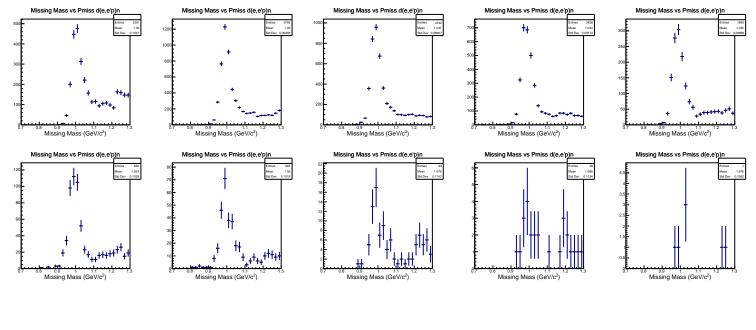














Missing Momentum vs θ mmiss_thetaDET 1.3 **Entries** 23787 Mean x 111.7 Mean y 1.037 1.2 Std Dev x 10.84 Missing Mass (GeV/c²) Std Dev y 0.0822 1.1 40 30 0.9 20 8.0 10 0.7<u></u> 90 95 100 105 115 120 125 130 110 **Theta**

