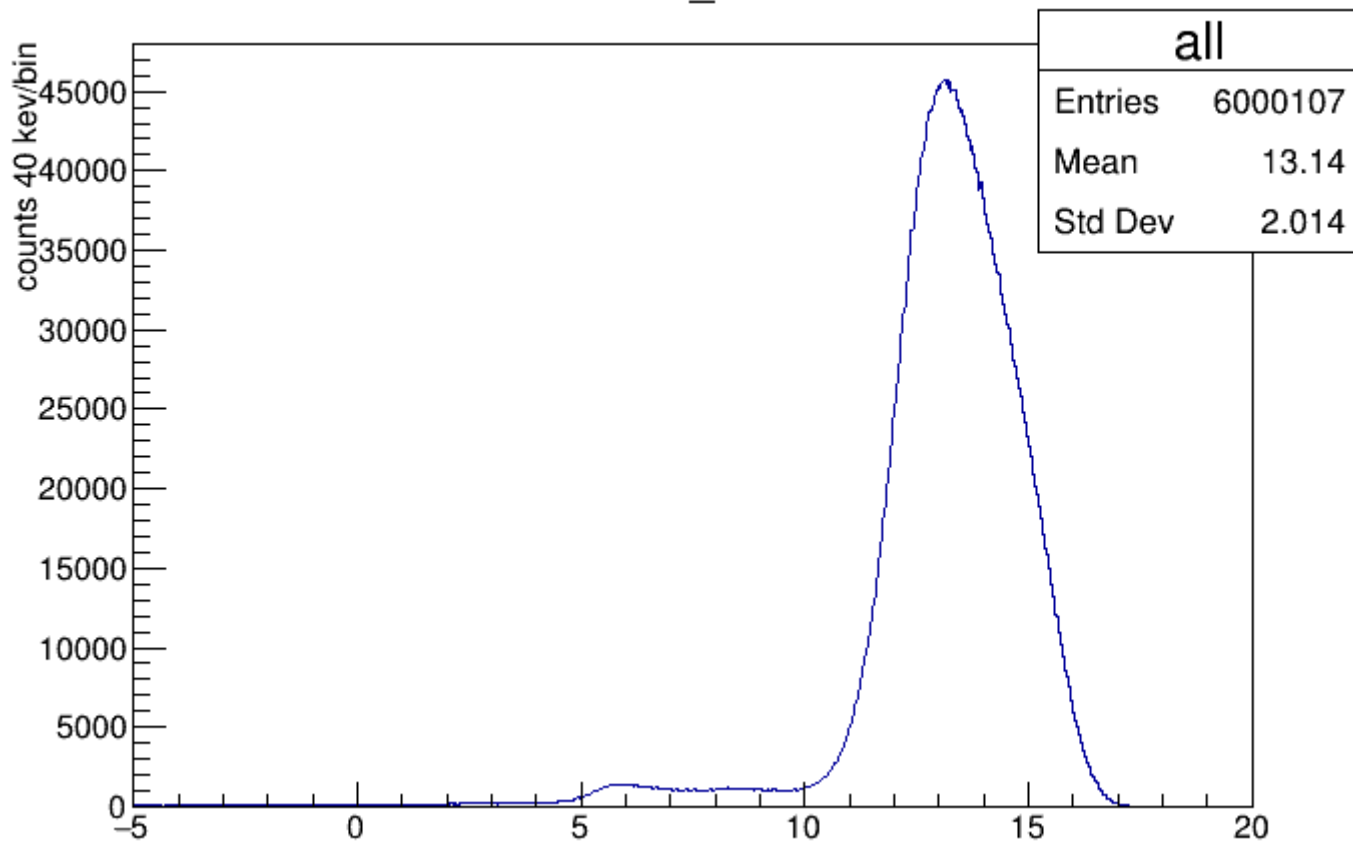
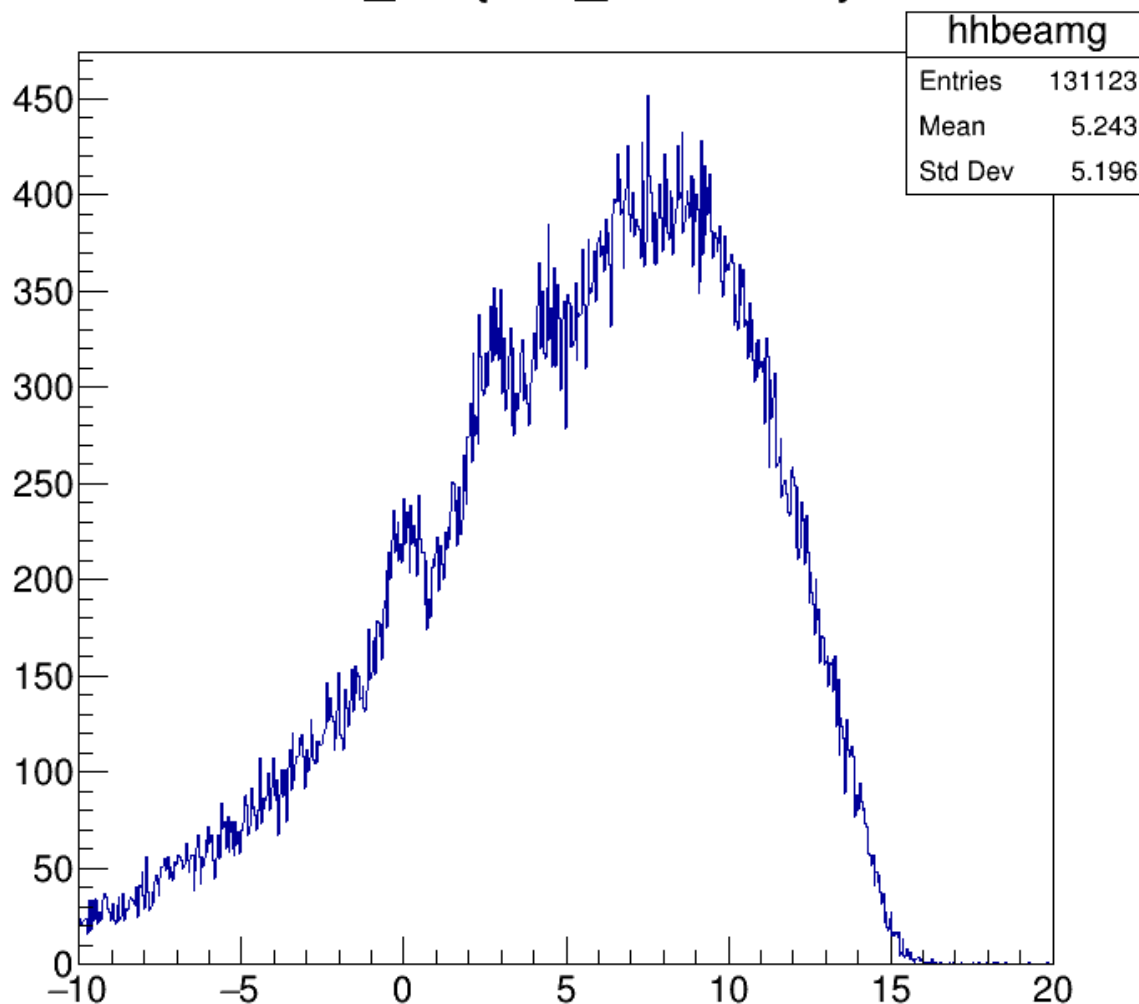


Cuts for the Ex step by step

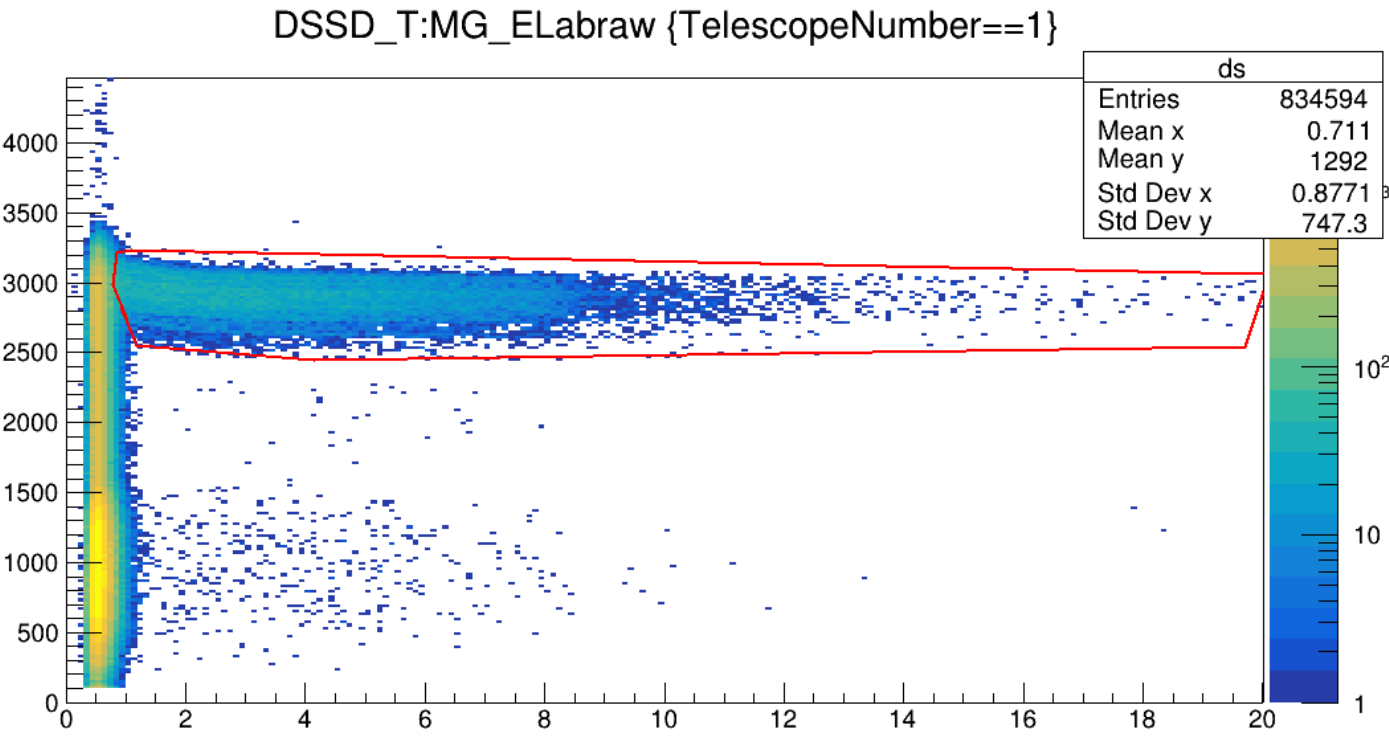
MG_Ex



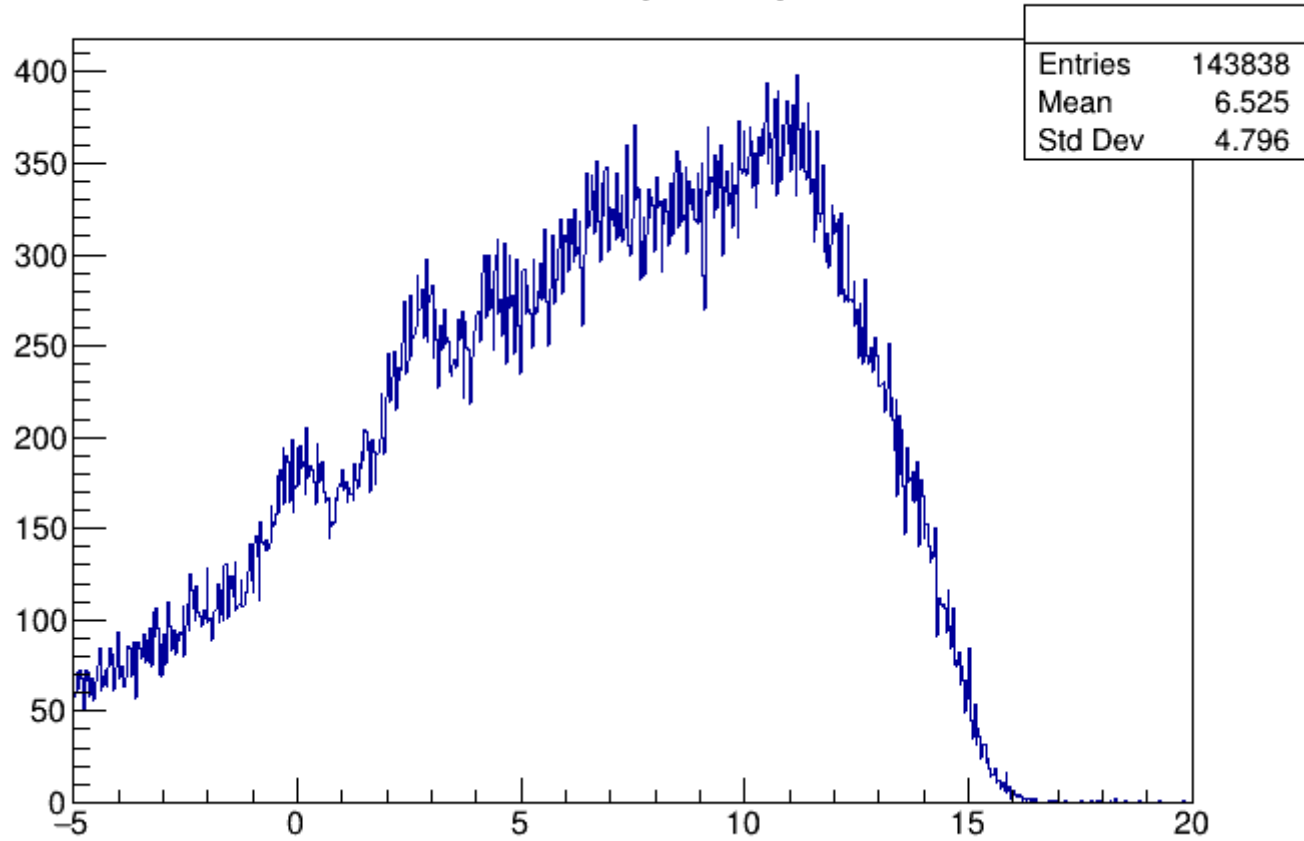
MG_Ex {MG_ELab>1.2}



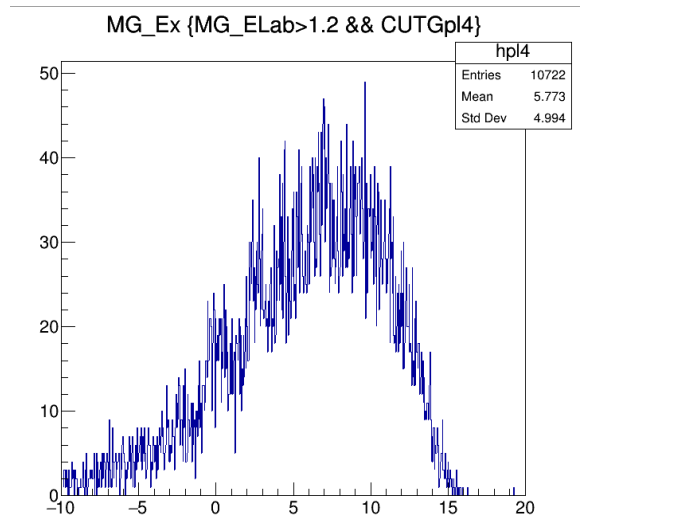
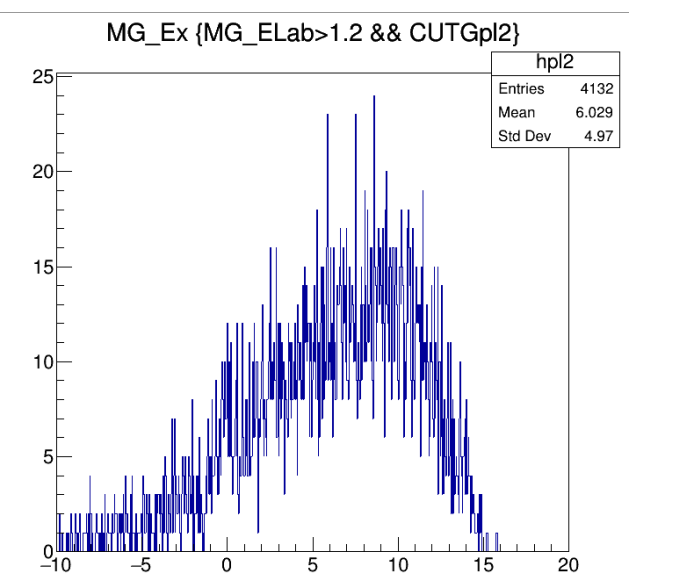
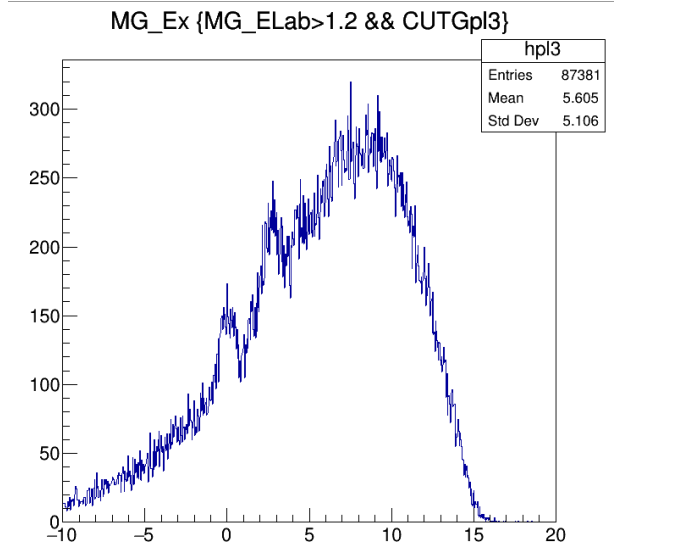
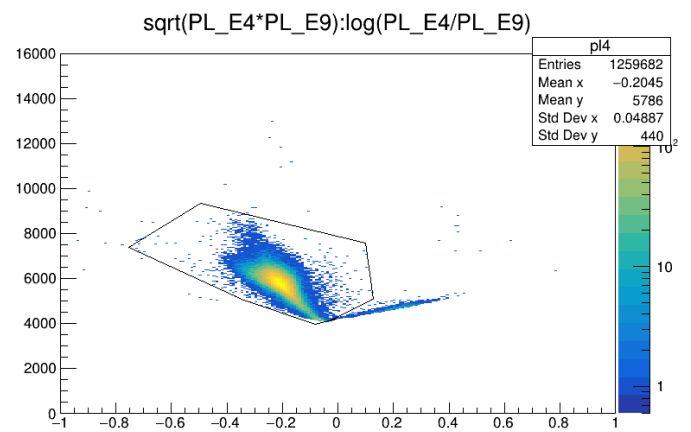
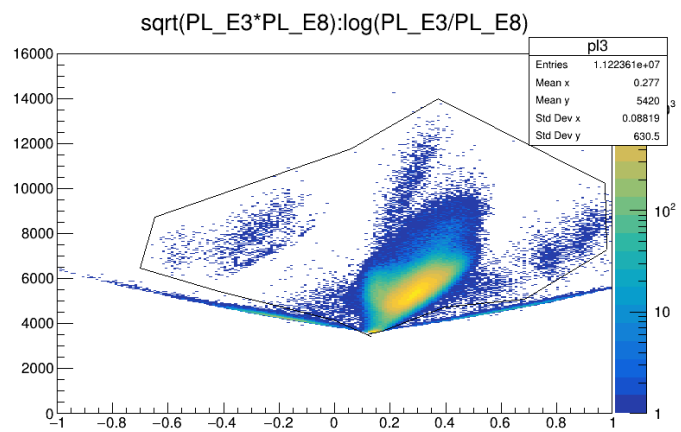
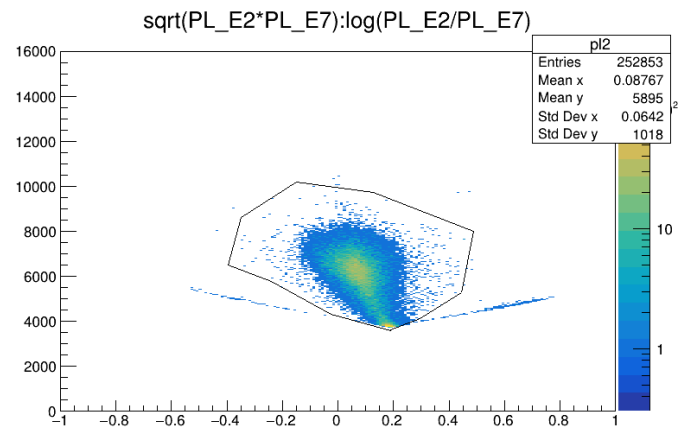
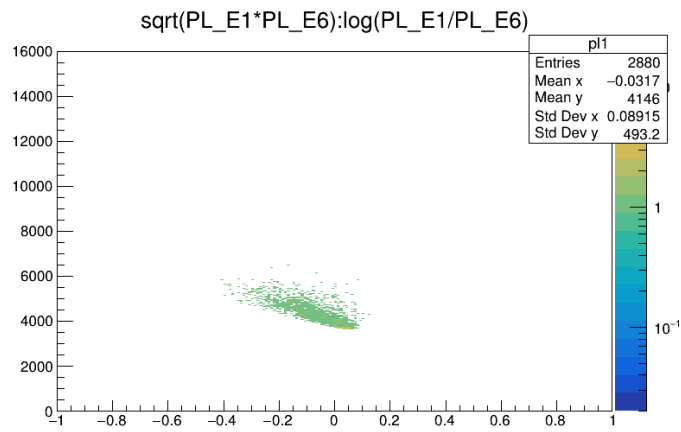
Big bump comes all the time here X axis is Energy and Y axis is Time.



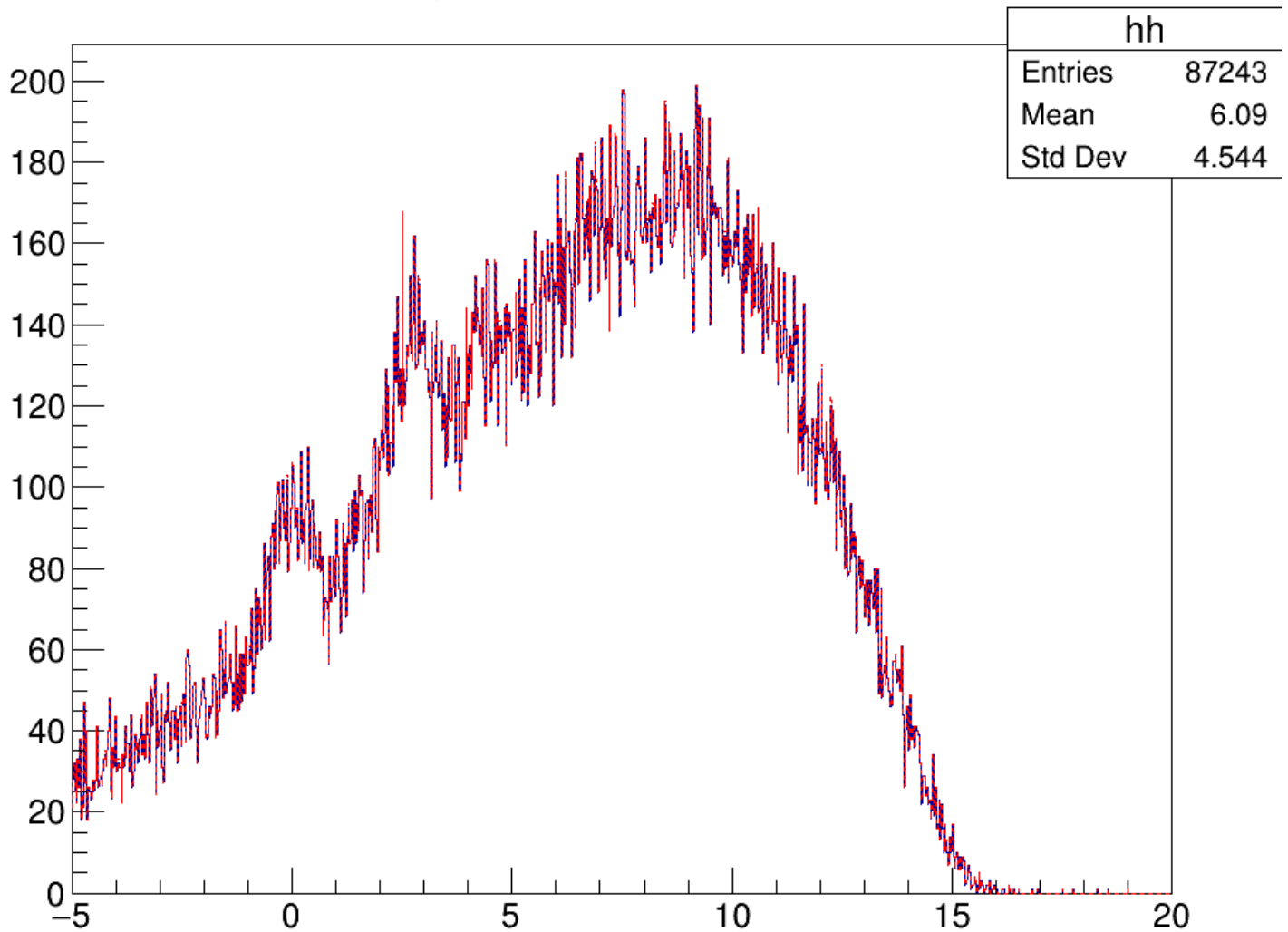
MG_Ex {CUTG}



PLASTICS

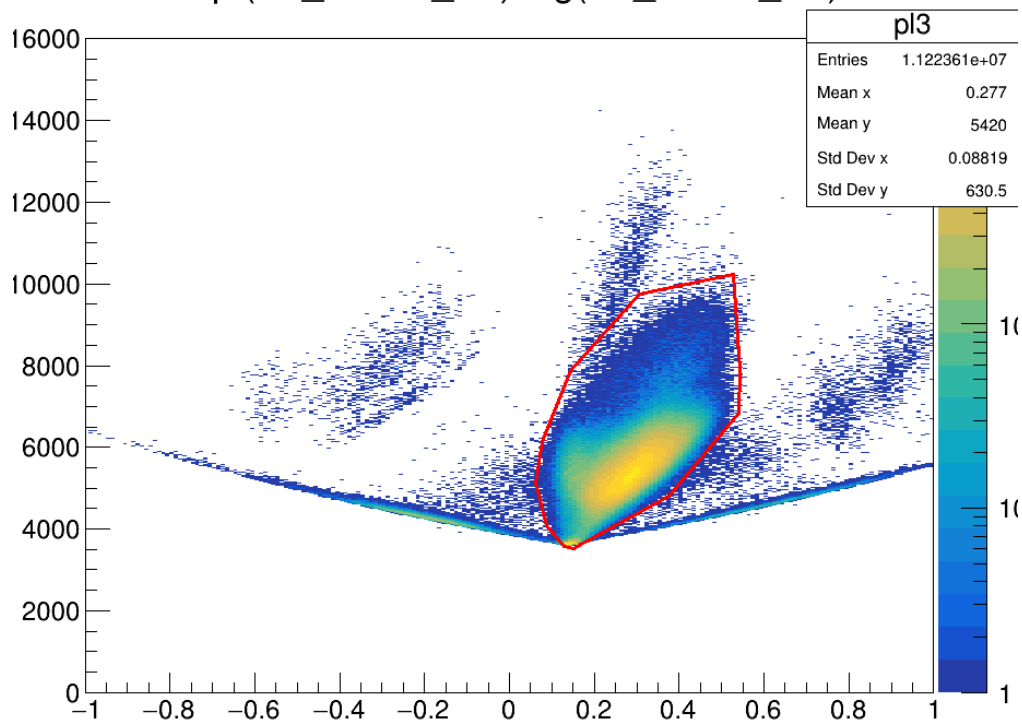


MG_Ex {CUTG&& MG_ELab>1.2}

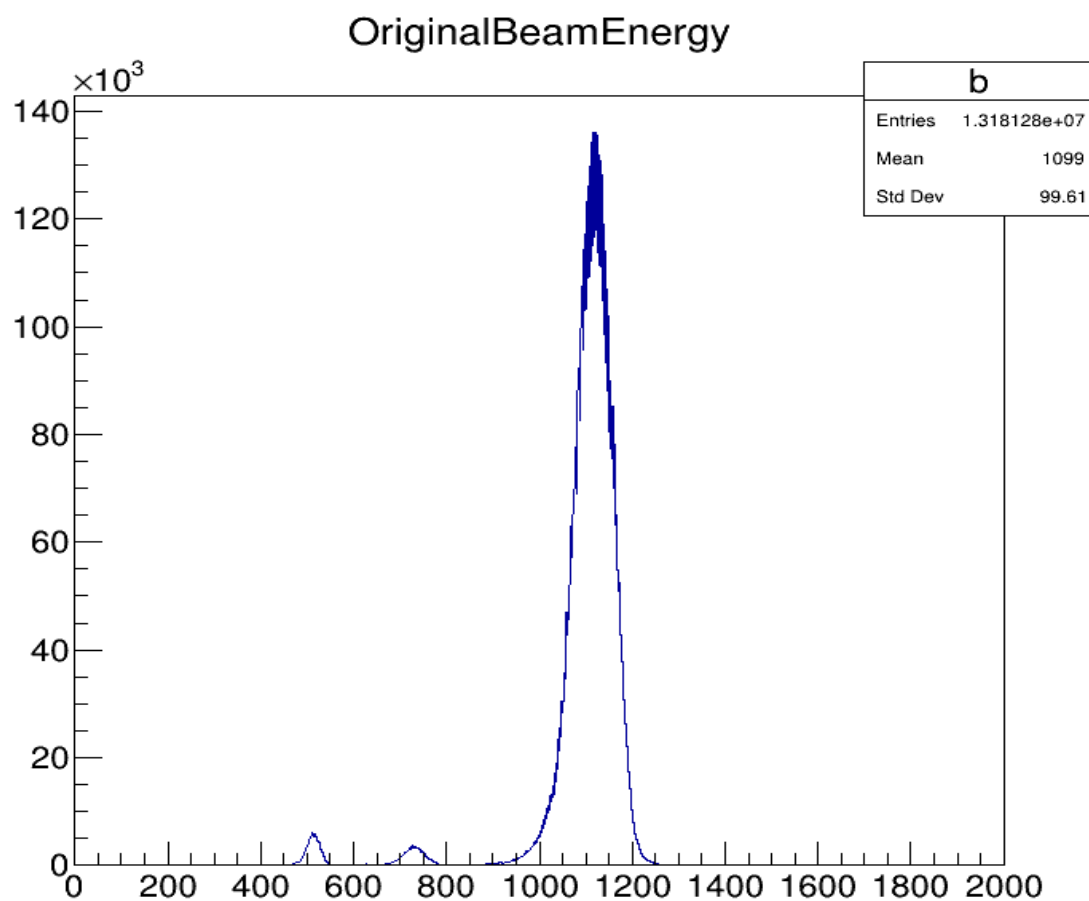


140 events change between big cut and small one.

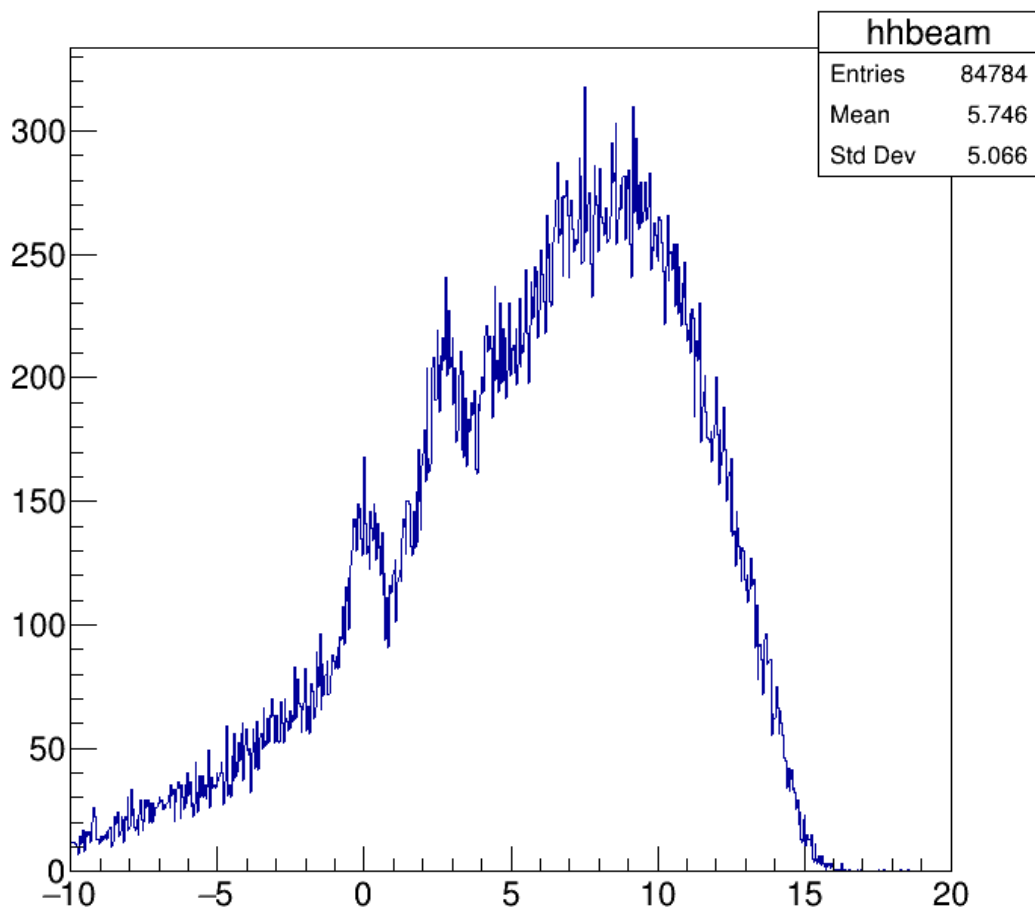
$\sqrt{\text{PL_E3} \cdot \text{PL_E8}} : \log(\text{PL_E3} / \text{PL_E8})$

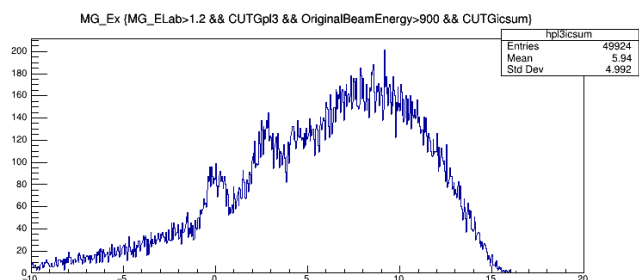
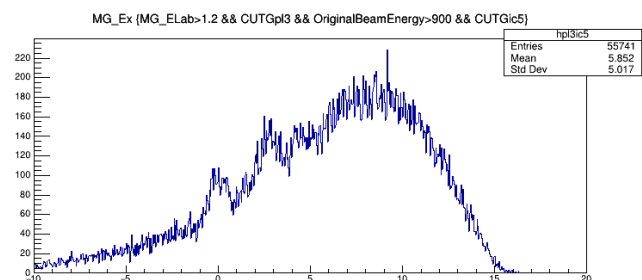
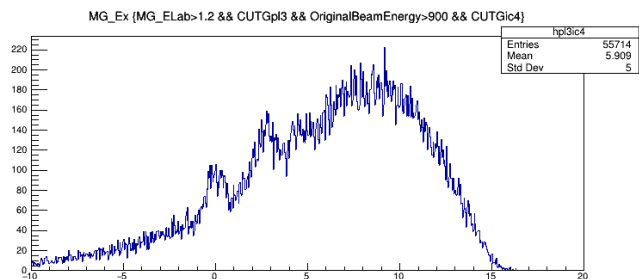
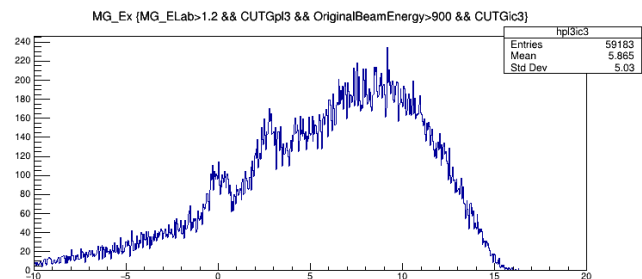
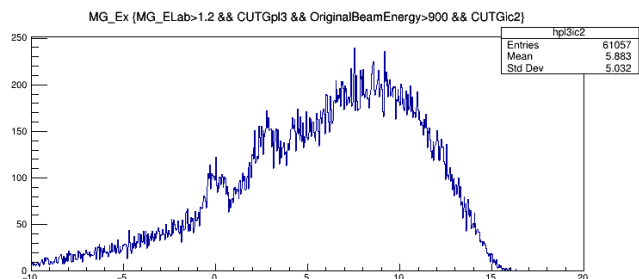
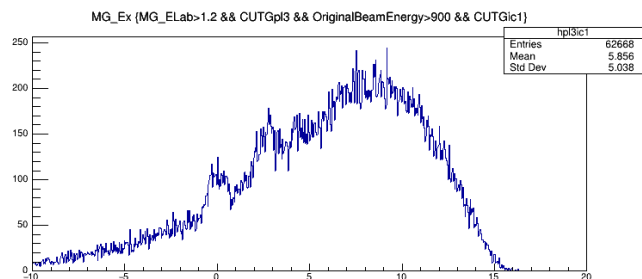
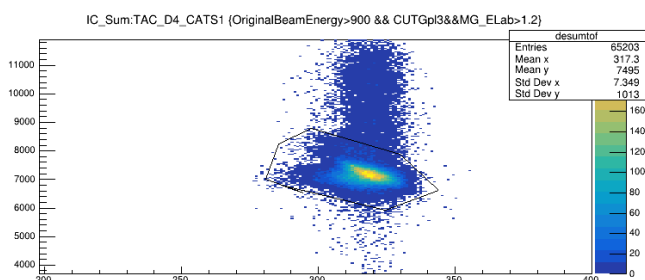
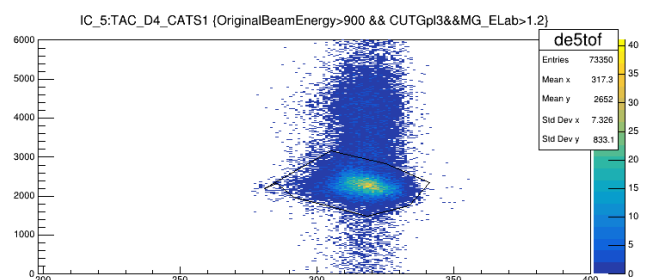
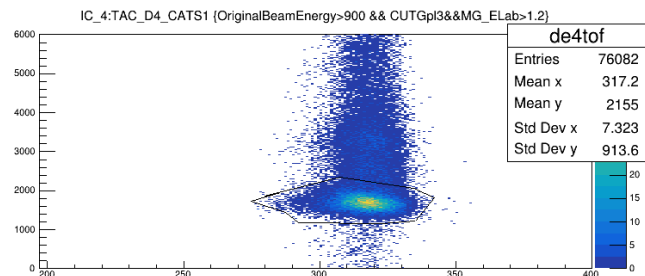
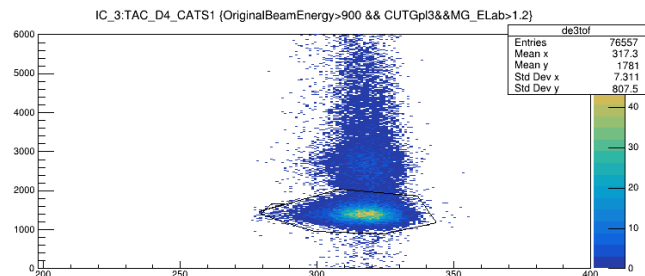
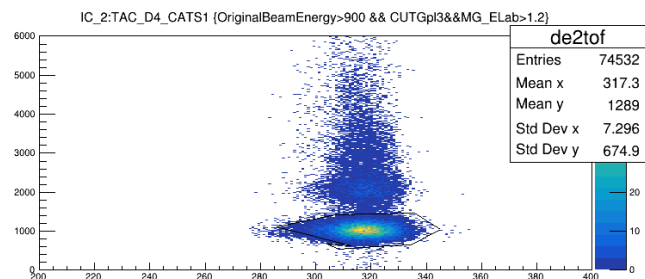
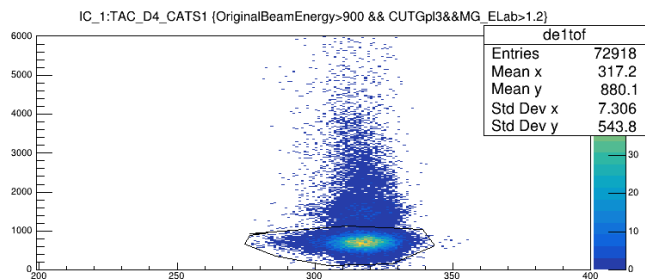


Beamenergy

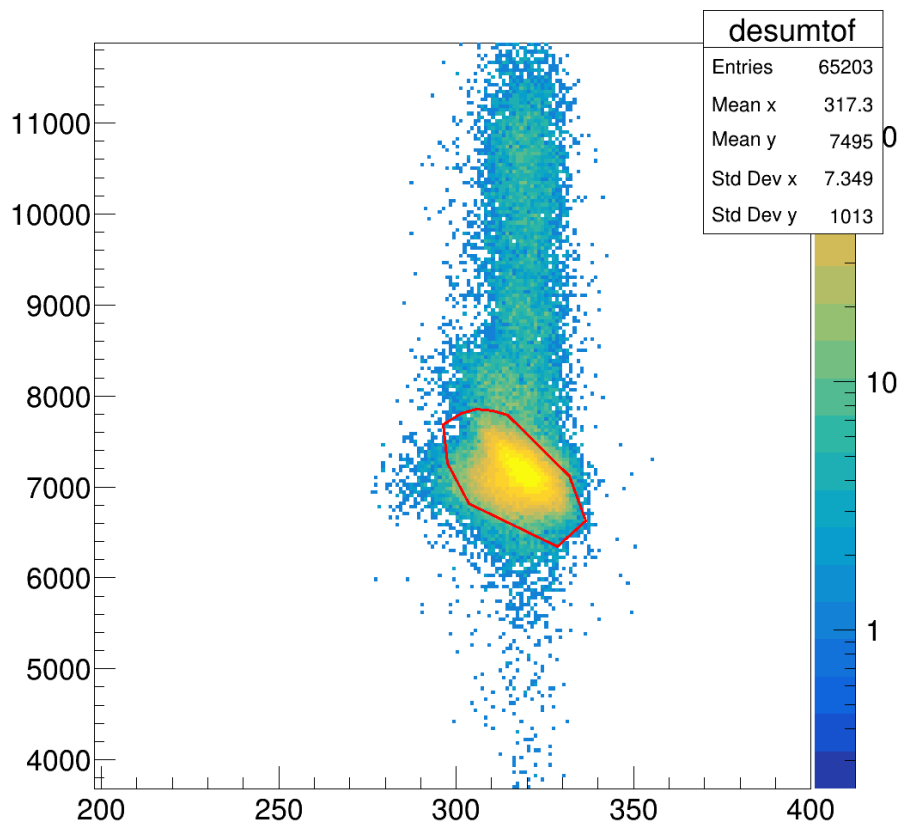


MG_Ex {OriginalBeamEnergy>900 && CUTGpl3&&MG_ELab>1.2}

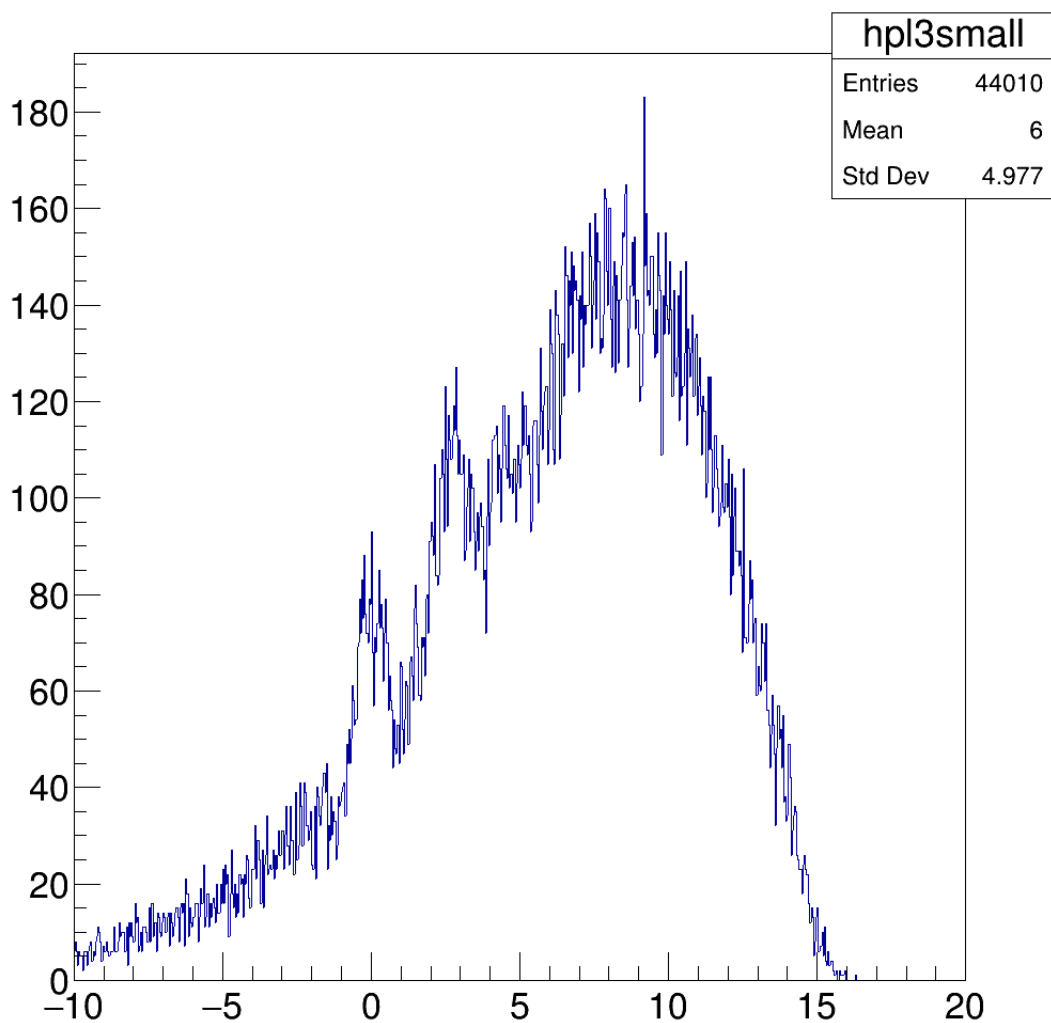




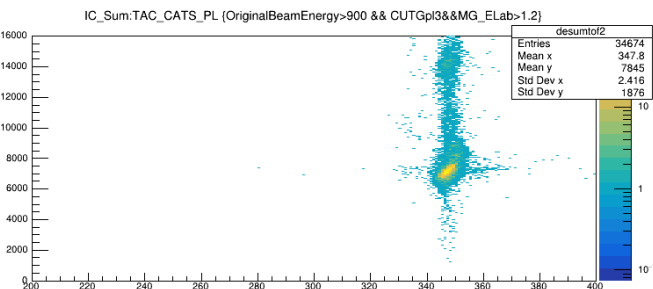
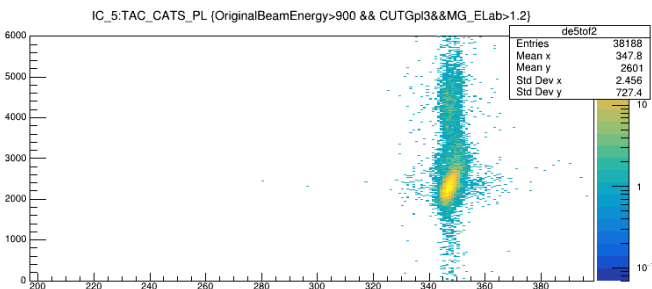
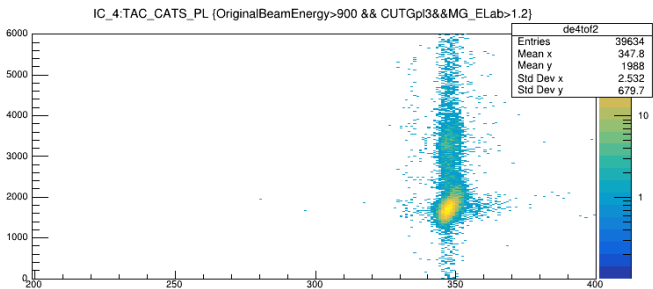
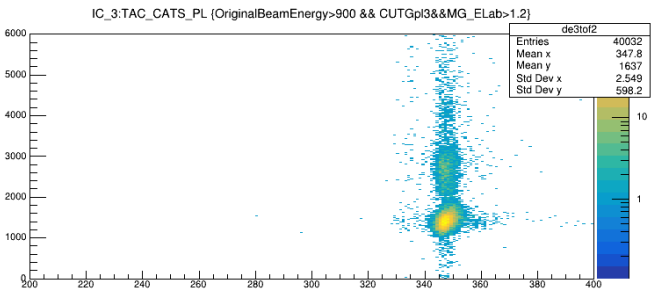
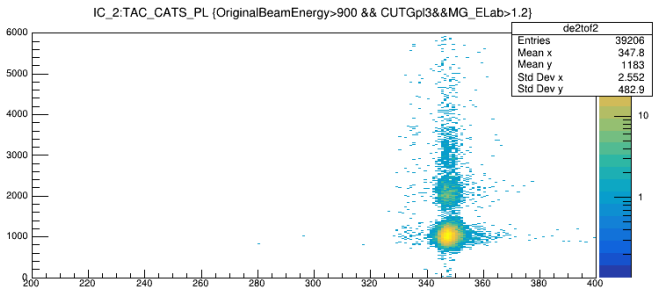
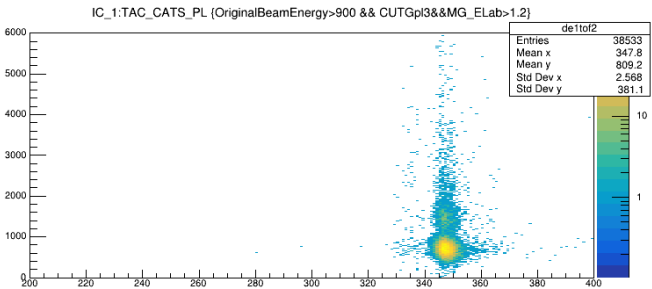
IC_Sum:TAC_D4_CATS1 (OriginalBeamEnergy>900 && CUTGpI3&&MG_ELab>1.2)



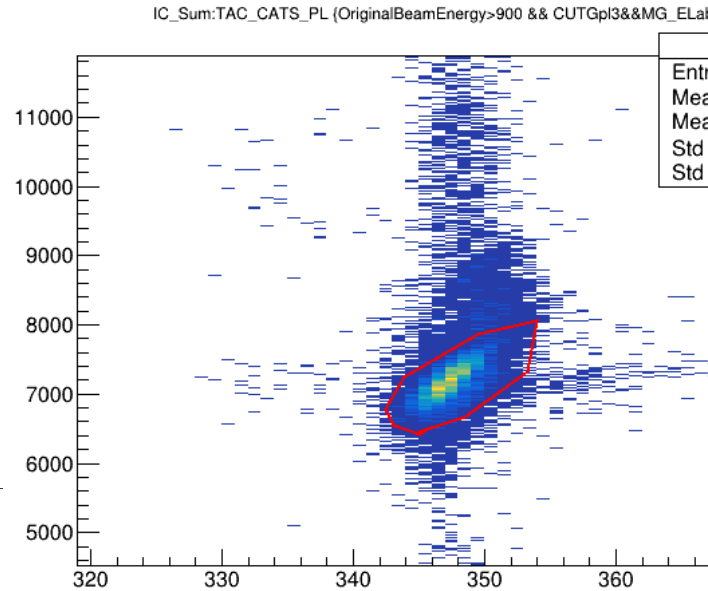
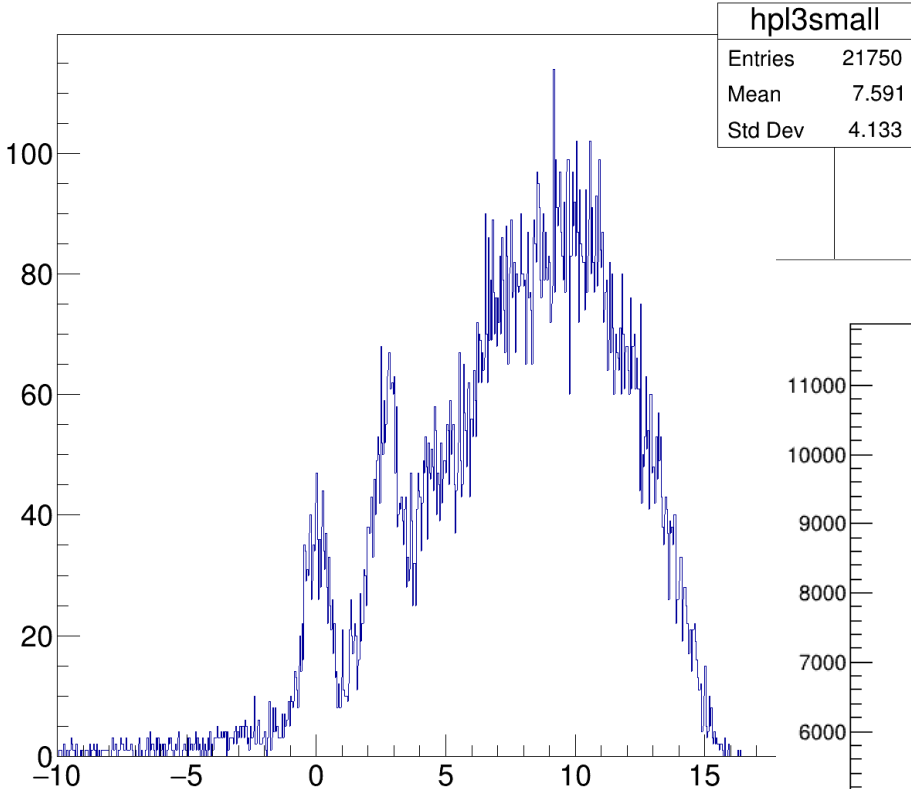
MG_Ex {MG_ELab>1.2 && CUTGpI3 && OriginalBeamEnergy>900 && CUTGsmall}



cc->Draw("MG_Ex0>>pold(250,-5,20)"," IC_E@.size()==5 && PL_E>0 && DSSD_E@.size()>0&& PL_TS>0 && CUTG2 && MG_ELab>1.2 && CUTGdETof && CUTGdEPL && MG_ThetaLab0<110", "")

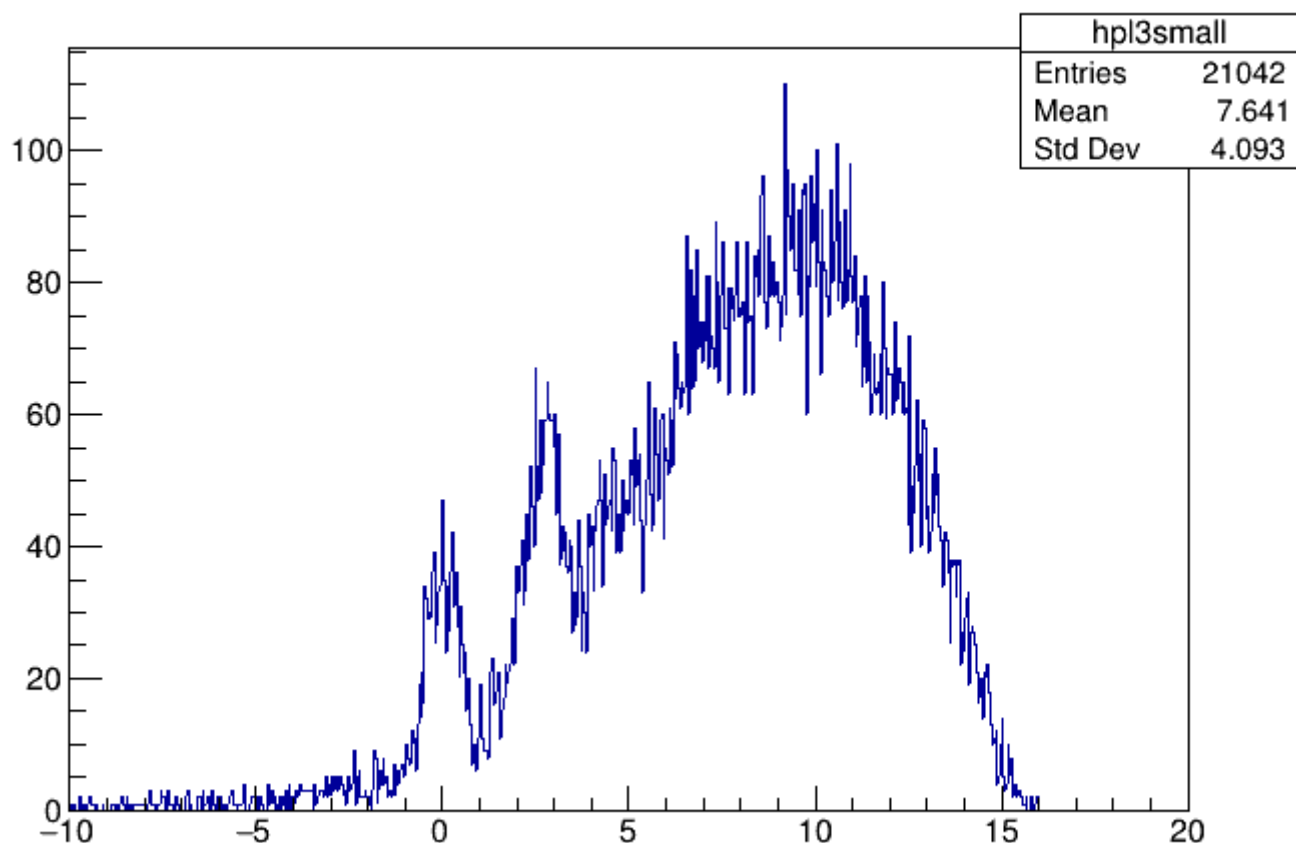


MG_Ex (MG_ELab>1.2 && CUTGp3 && OriginalBeamEnergy>900 && CUTGicsumtofpl)

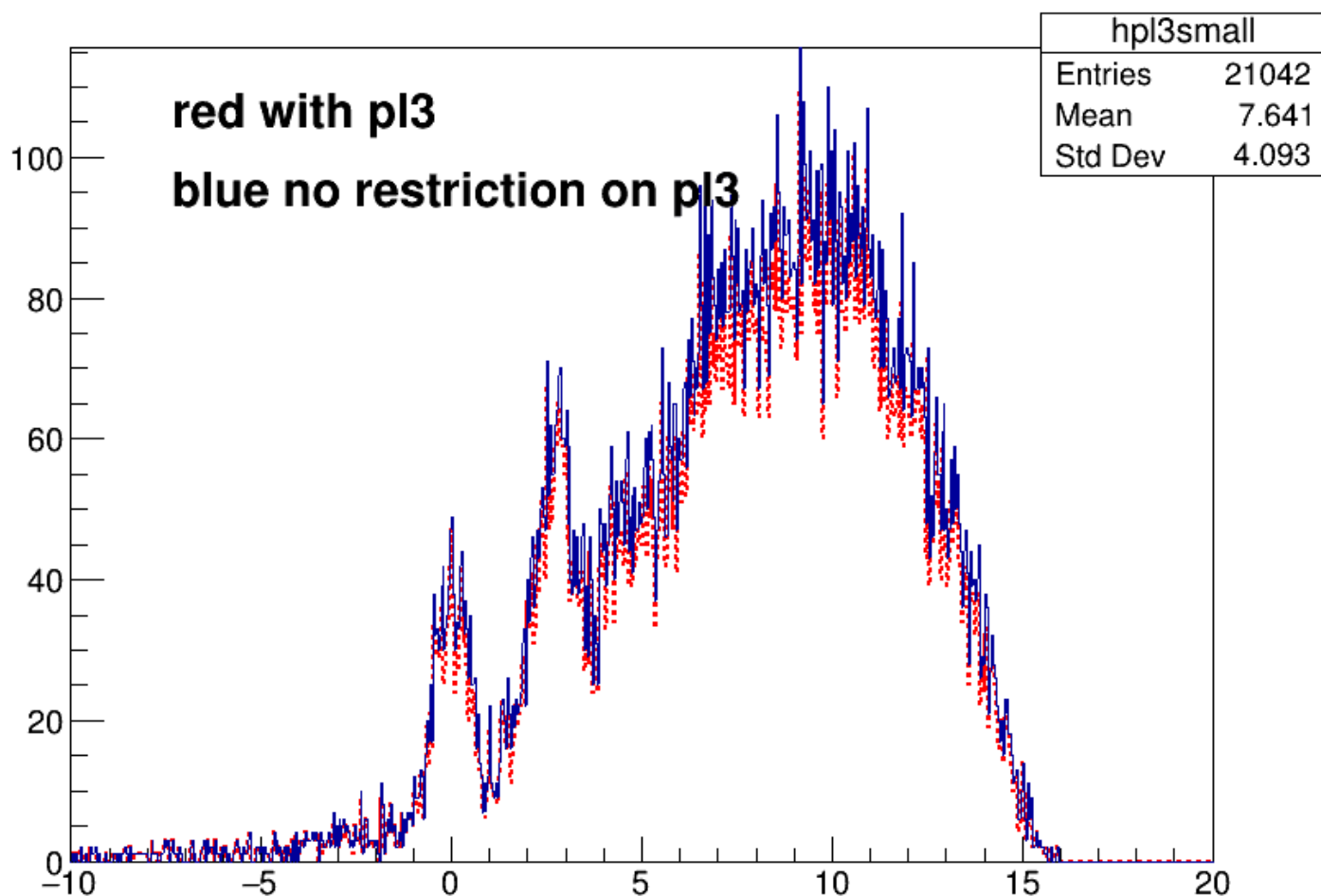


Both gates in icsum with tof d4 and tof pl

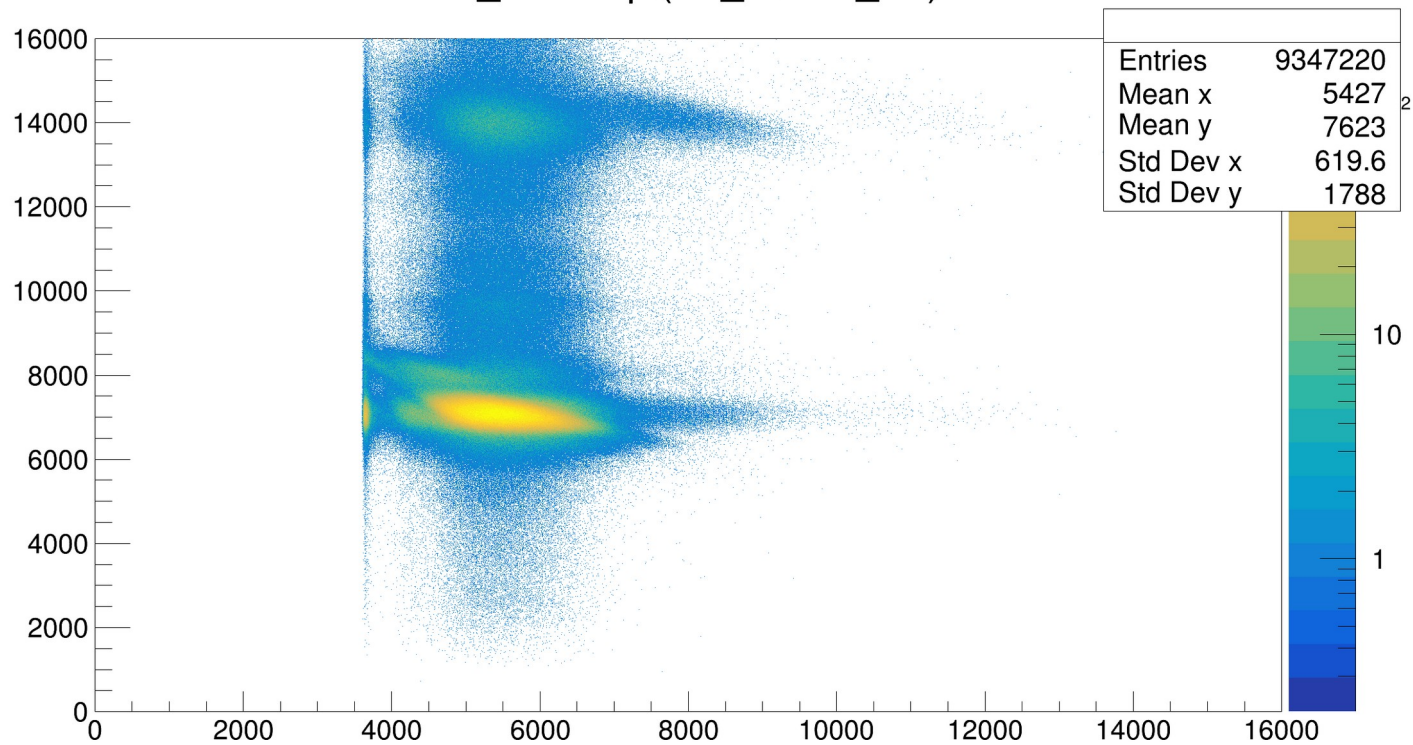
MG_Ex (MG_ELab>1.2 && CUTGpl3 && OriginalBeamEnergy>900 && CUTGicsumtofpl && CUTGictofd4small)



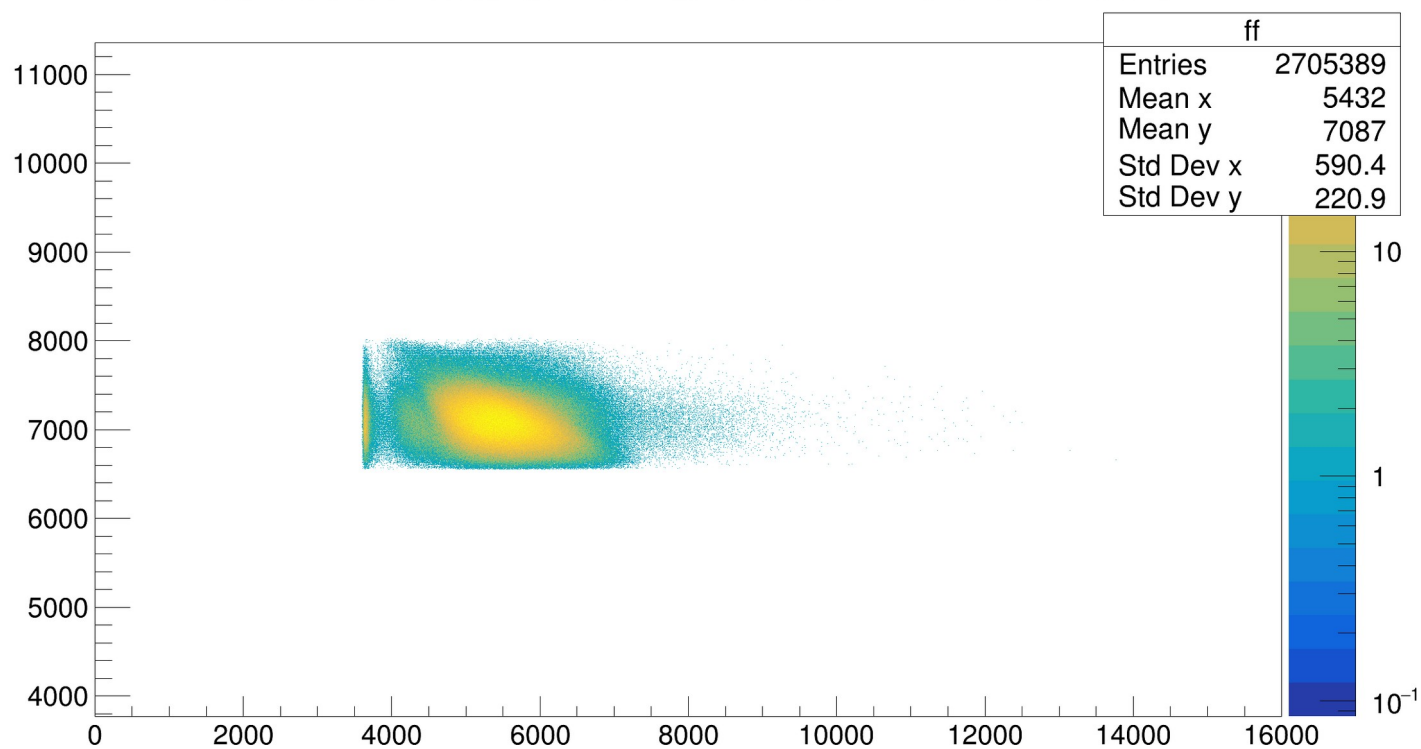
MG_Ex (MG_ELab>1.2 && CUTGpl3 && OriginalBeamEnergy>900 && CUTGicsumtofpl && CUTGictofd4small)



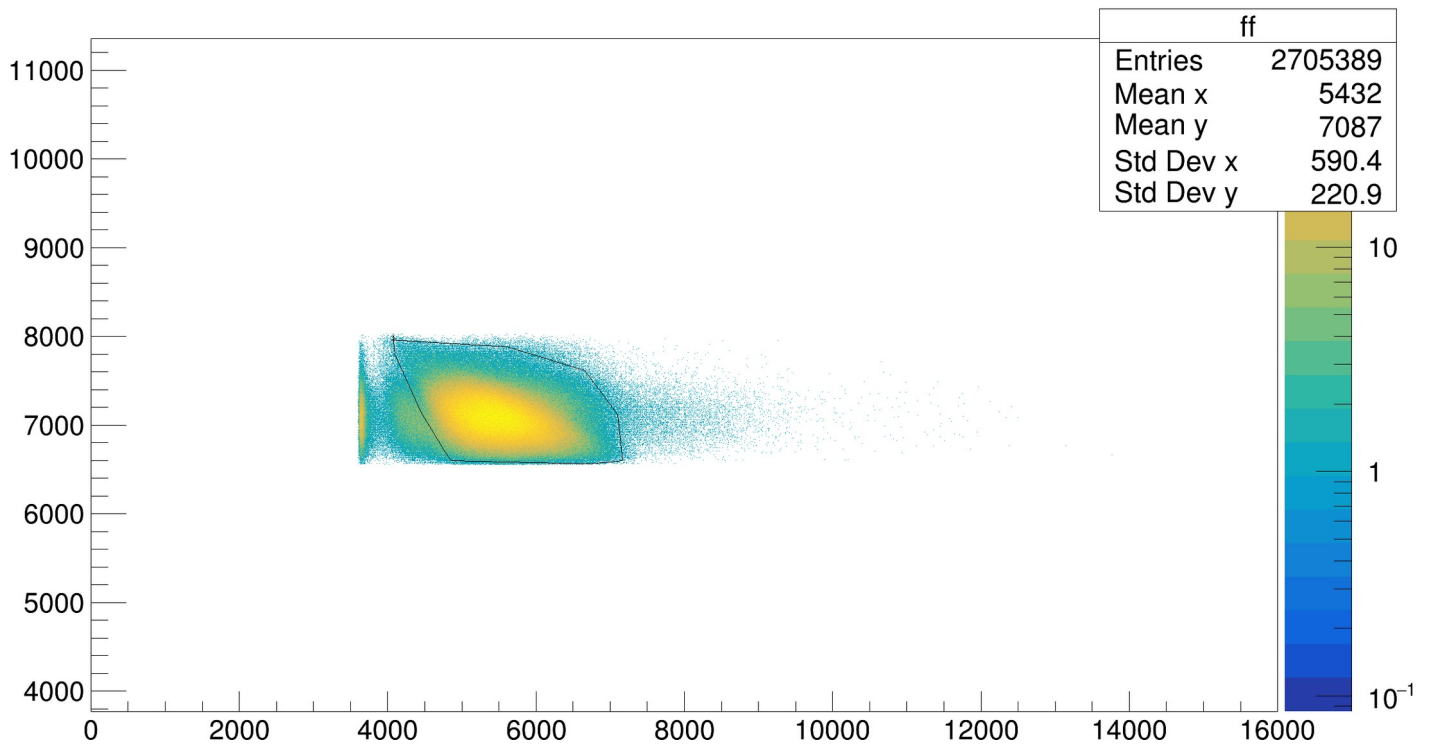
IC_Sum:sqrt(PL_E3*PL_E8)



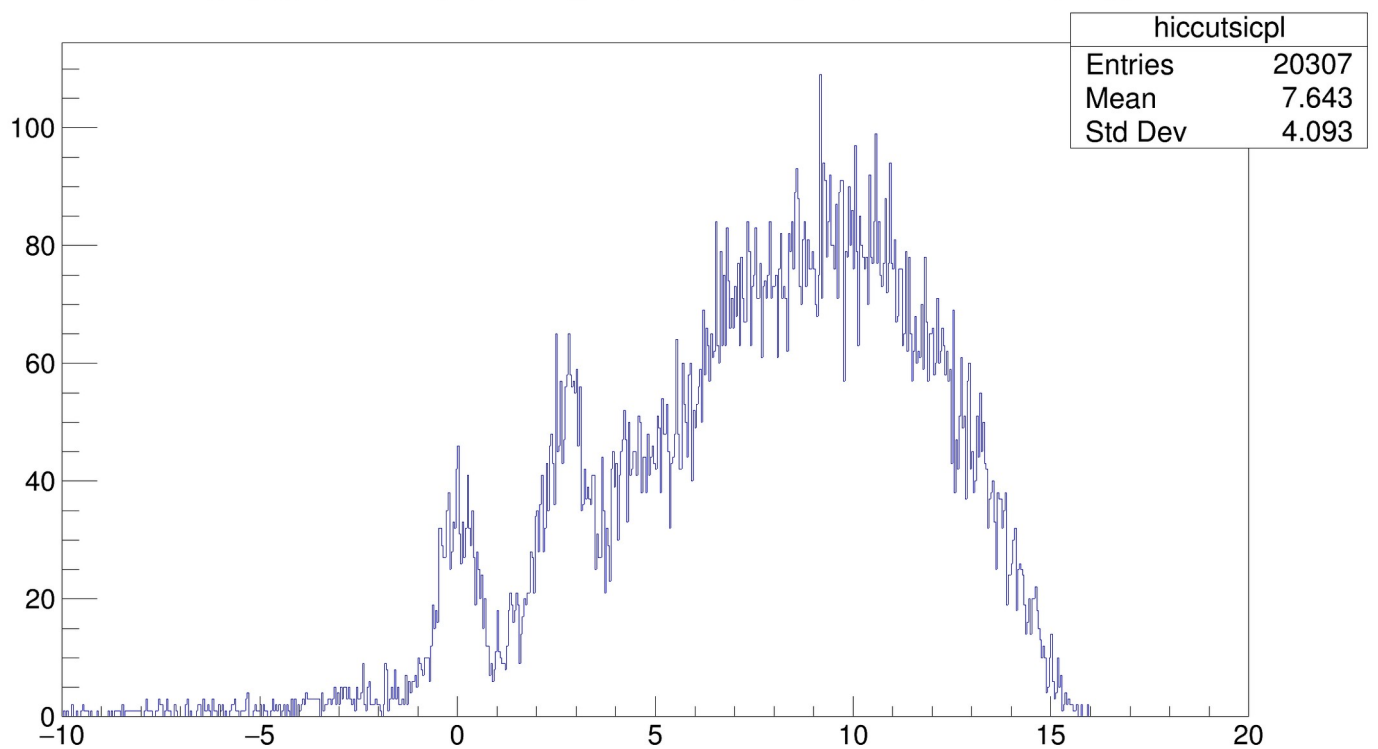
IC_Sum:sqrt(PL_E3*PL_E8) {OriginalBeamEnergy>900 && CUTGicsumtofdpl && CUTGictofd4small}



IC_Sum:sqrt(PL_E3*PL_E8) {OriginalBeamEnergy>900 && CUTGicsumtofpl && CUTGictofd4small}



MG_Ex {MG_ELab>1.2 &&OriginalBeamEnergy>900 && CUTGicsumtofpl && CUTGictofd4small && CUTGicpl}



MG_Ex {MG_Elab>1.2 &&OriginalBeamEnergy>900 && CUTGicsumtofp1 && CUTGictofd4small && CUTGicpl}

