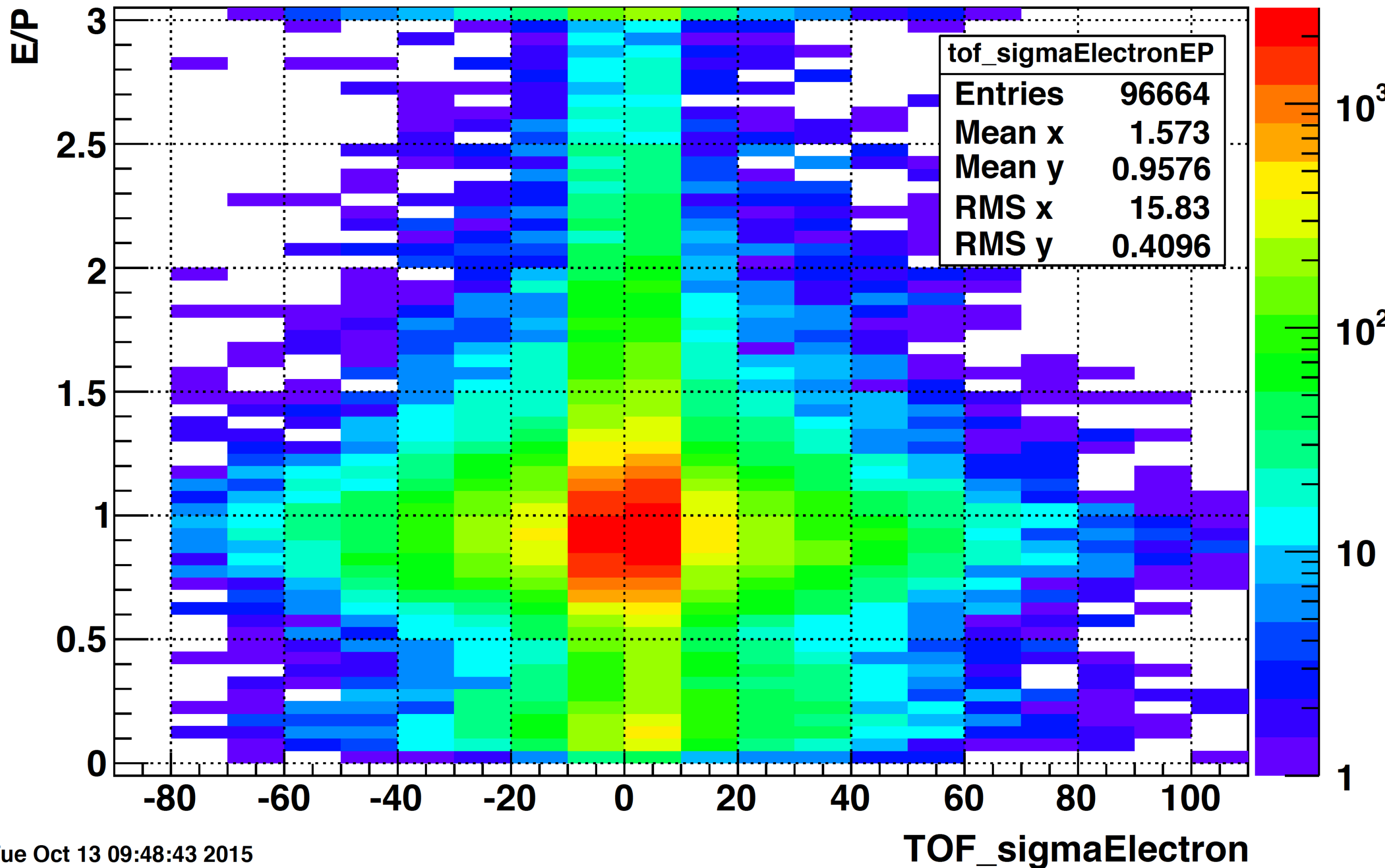


# EoverPVstof\_sigmaElectron

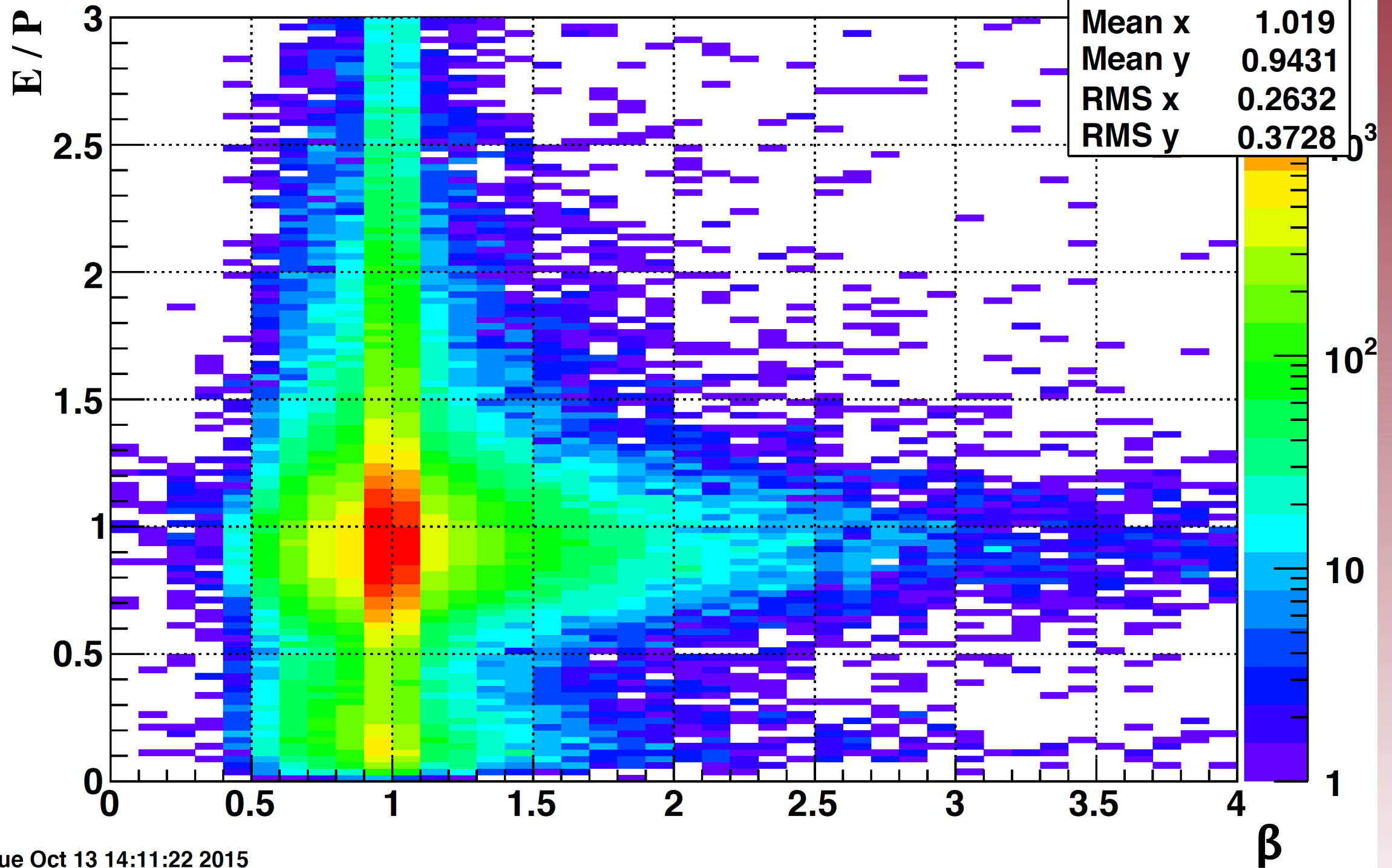


# TOF $\beta$

EoverPVstof\_Beta

tof\_BetaEP

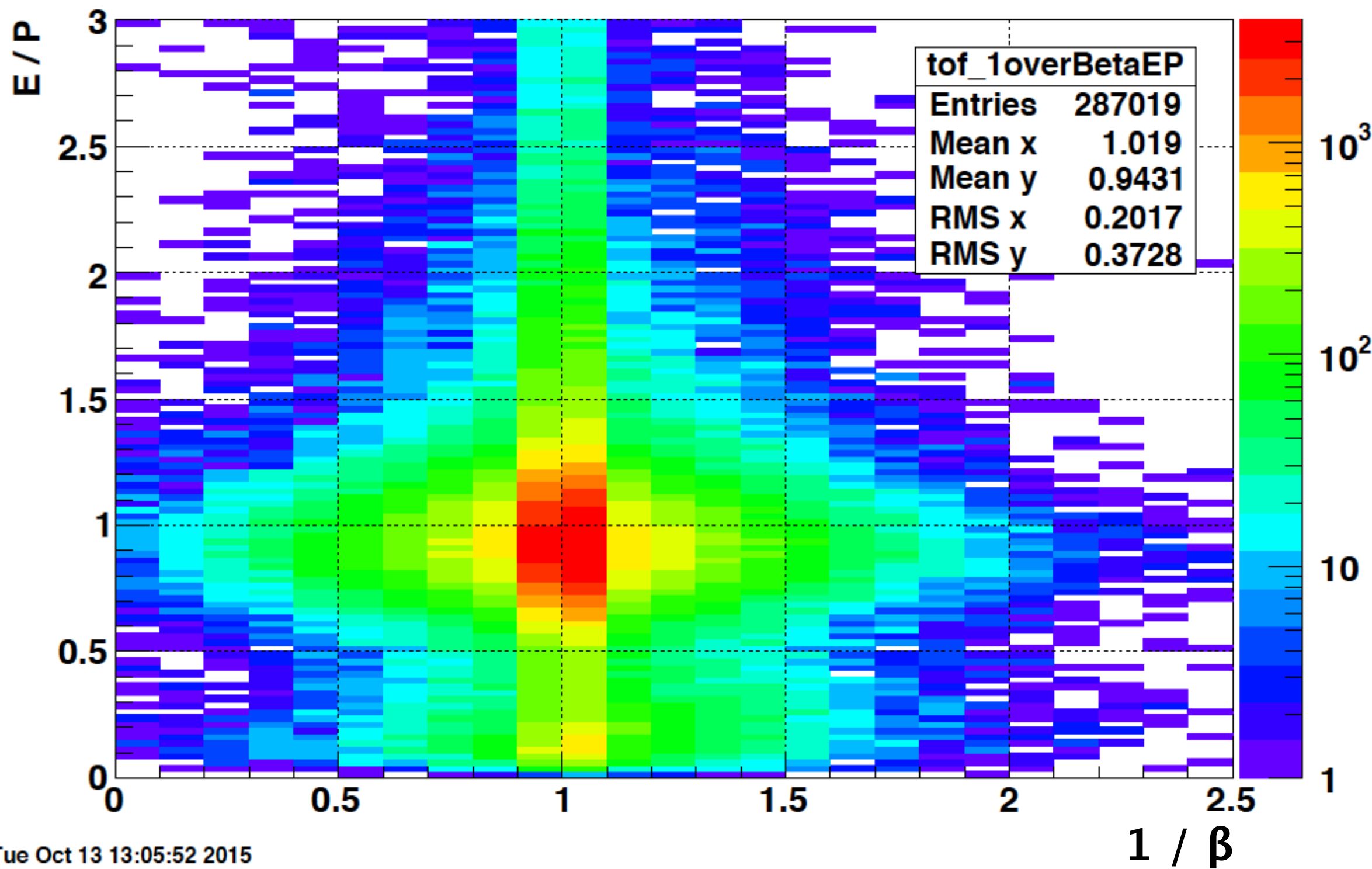
Entries	287019
Mean x	1.019
Mean y	0.9431
RMS x	0.2632
RMS y	0.3728



Tue Oct 13 14:11:22 2015

# TOF $1 / \beta$

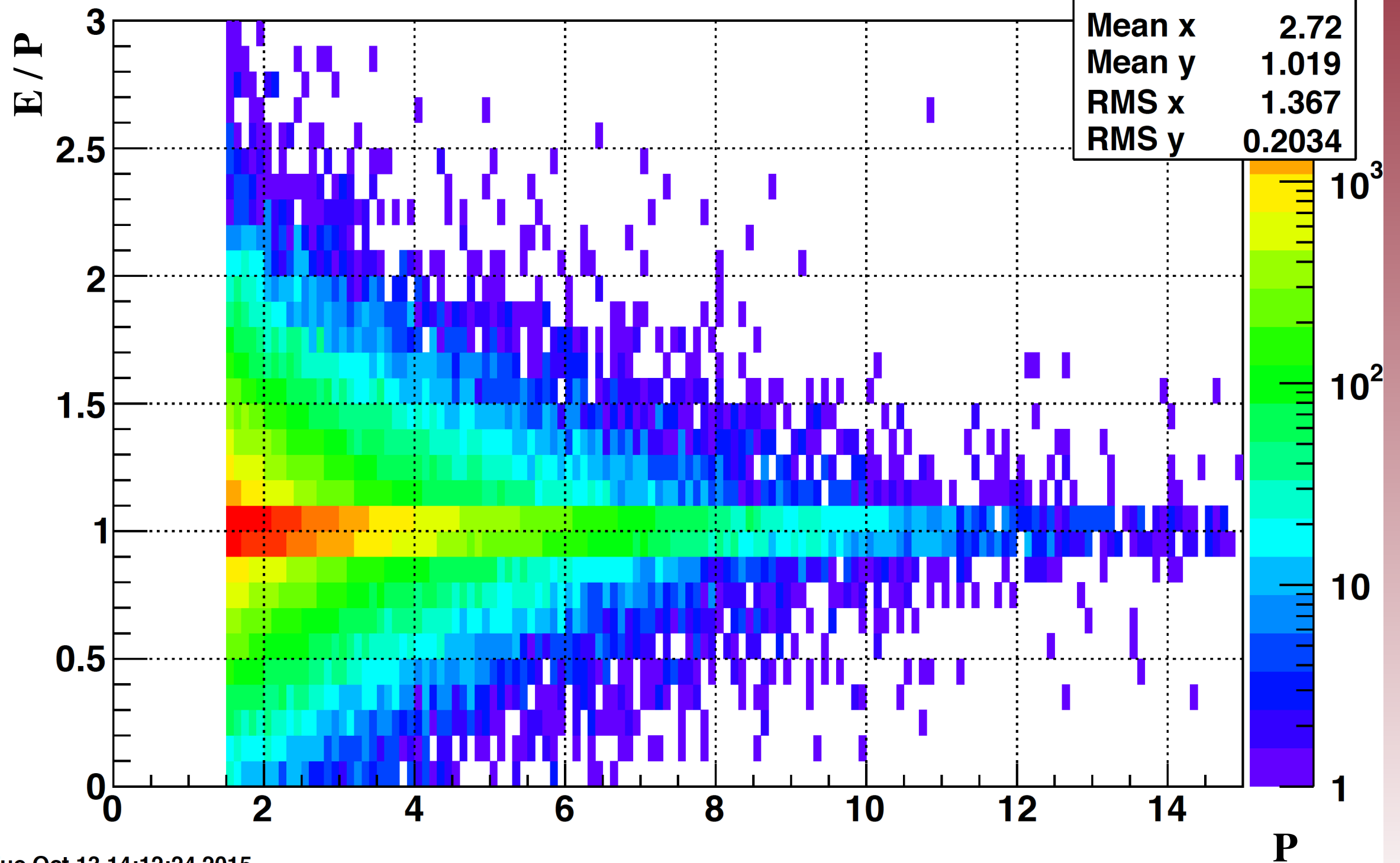
EoverPVstof\_1overBeta



# TOF $1/\beta$ vs trackMomentum

tof\_1overBetaVs\_momentum

tof_1overBeta_P	
Entries	287019
Mean x	2.72
Mean y	1.019
RMS x	1.367
RMS y	0.2034



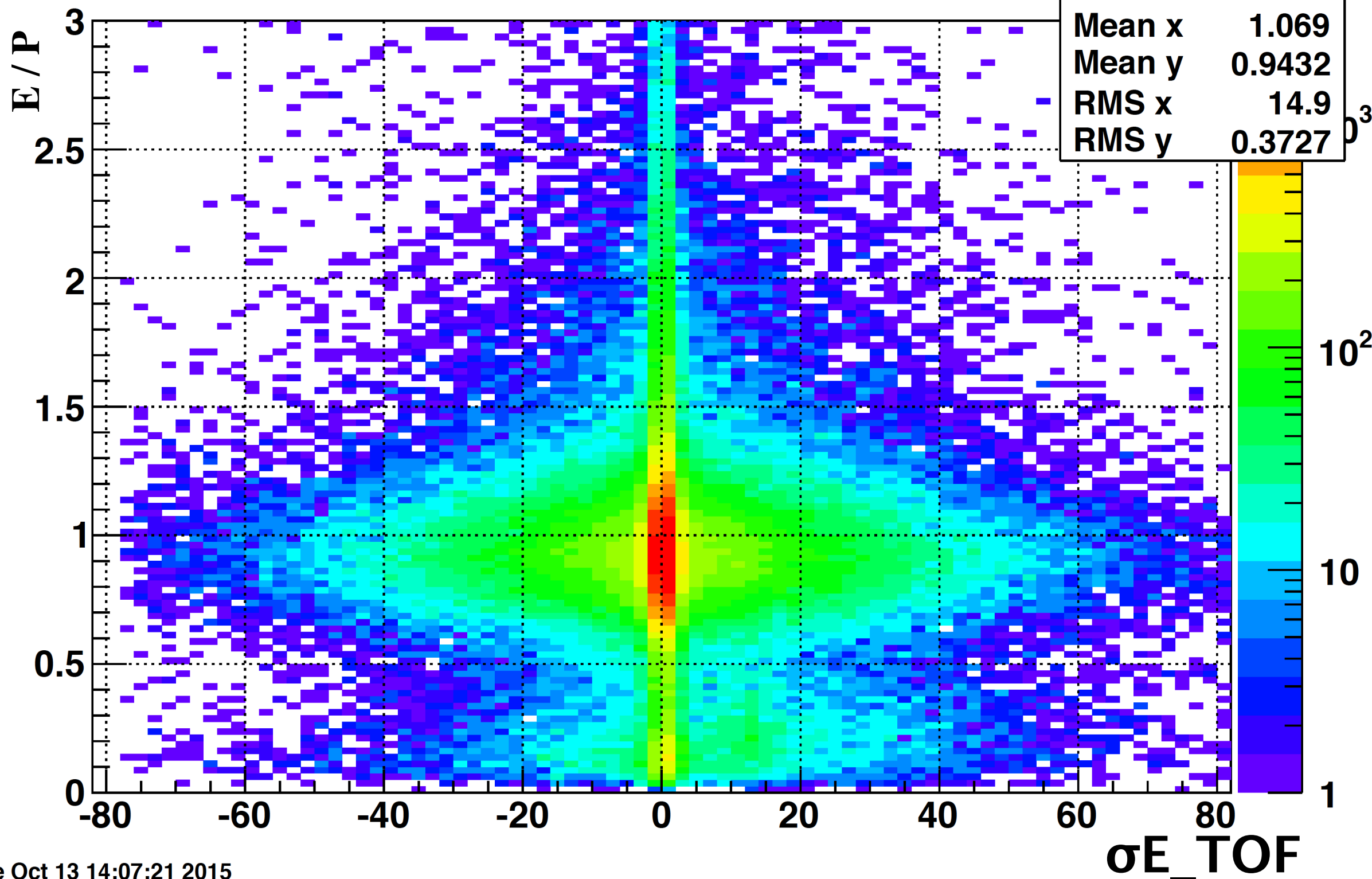
Tue Oct 13 14:12:24 2015

# TOF sigmaElectron

EoverPVstof\_sigmaElectron

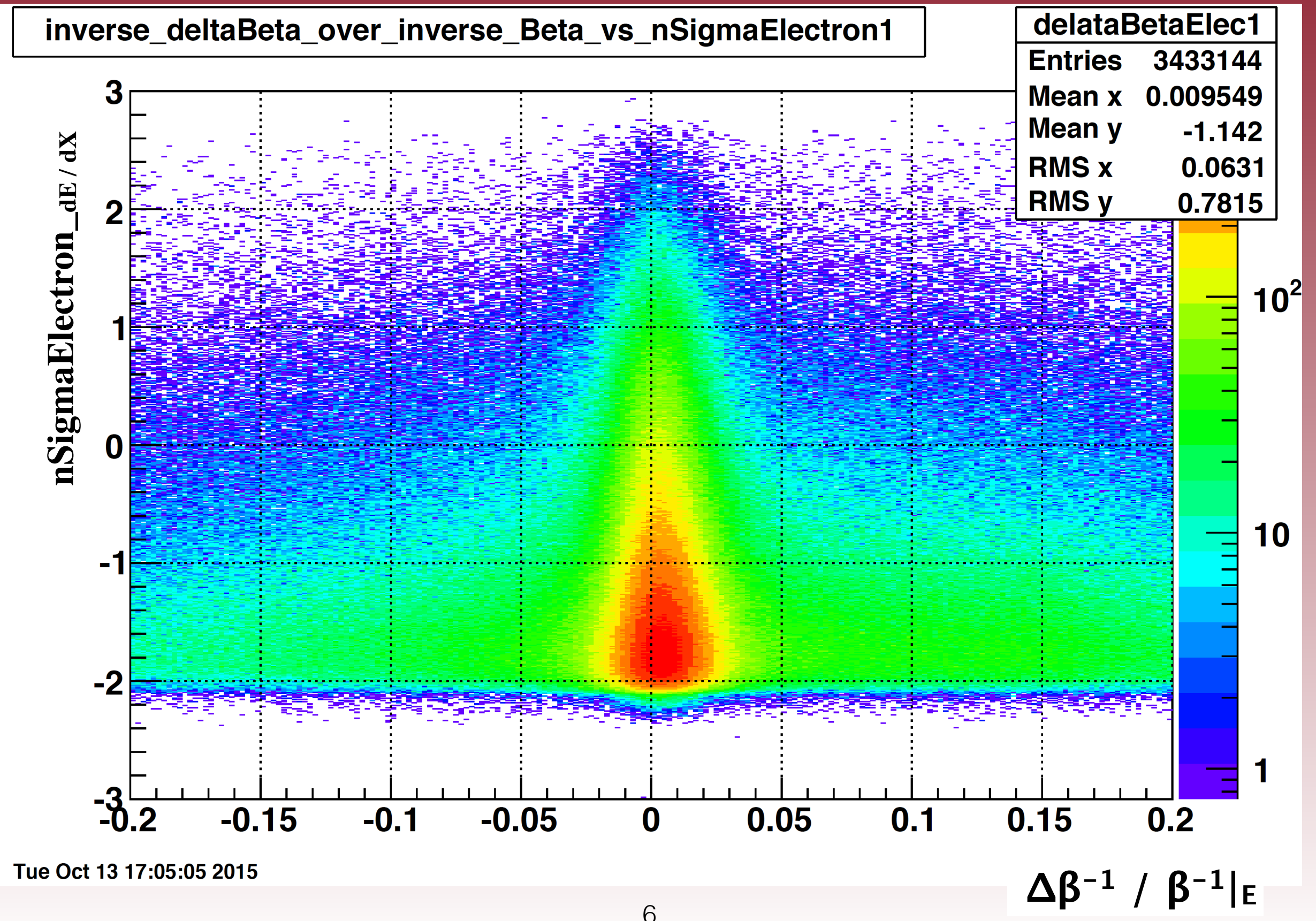
tof\_sigmaElectronEP

Entries	287019
Mean x	1.069
Mean y	0.9432
RMS x	14.9
RMS y	0.3727



Tue Oct 13 14:07:21 2015

# nSigmaElectron ( $\sigma E$ )\_dE/dX Vs $\Delta\beta^{-1} / \beta^{-1} |_E$

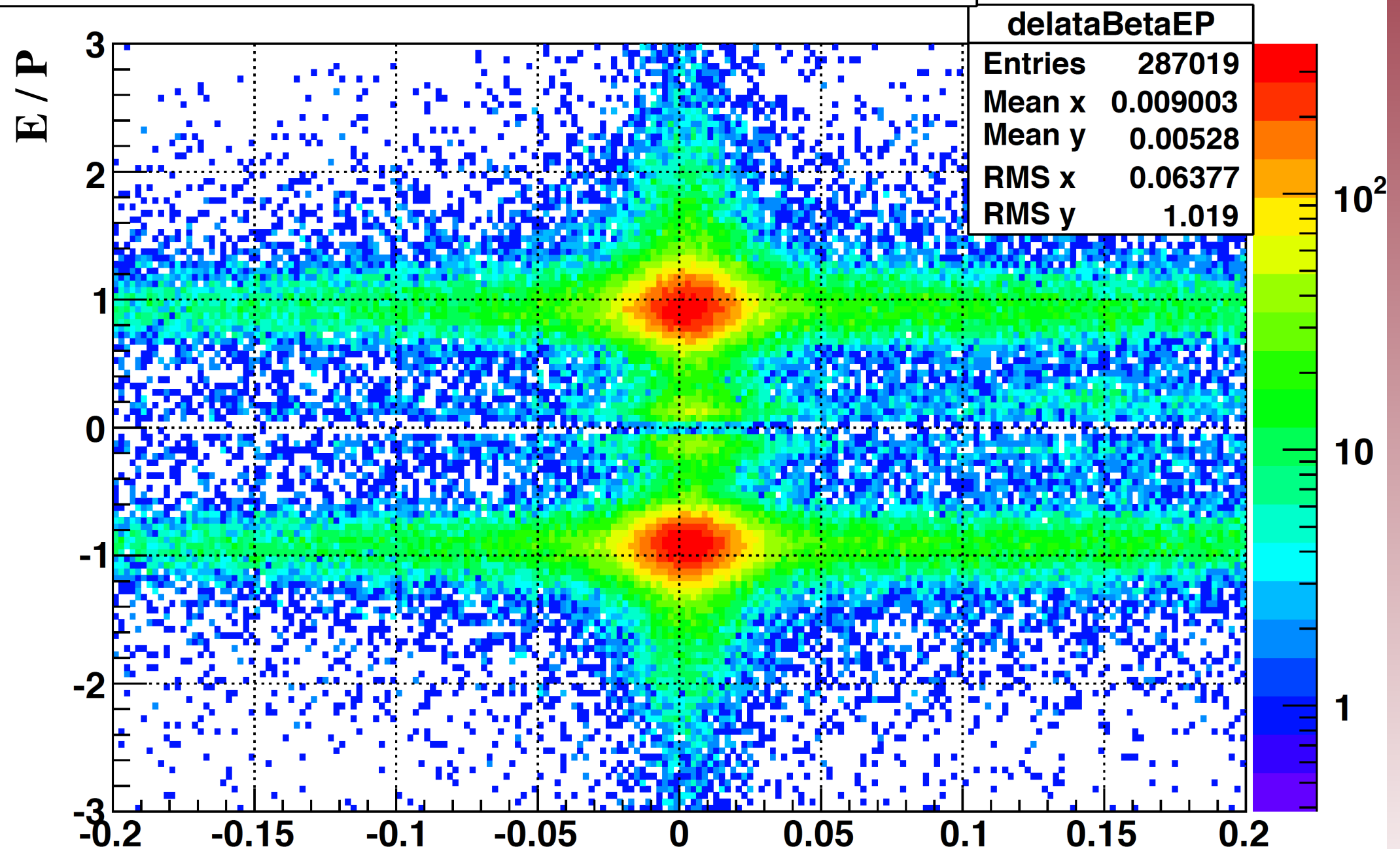


$$\Delta\beta^{-1} / \beta^{-1} |_E$$

$$\Delta\beta^{-1} / \beta^{-1} |_E = [\beta^{-1}_{\text{TOF}} - \beta^{-1}_{\text{TPC}}] / \beta^{-1}_{\text{TOF}}$$

$$\beta^{-1}_{\text{TPC}} = E_E / P = \sqrt{(m^2_E / p^2 + 1)}$$

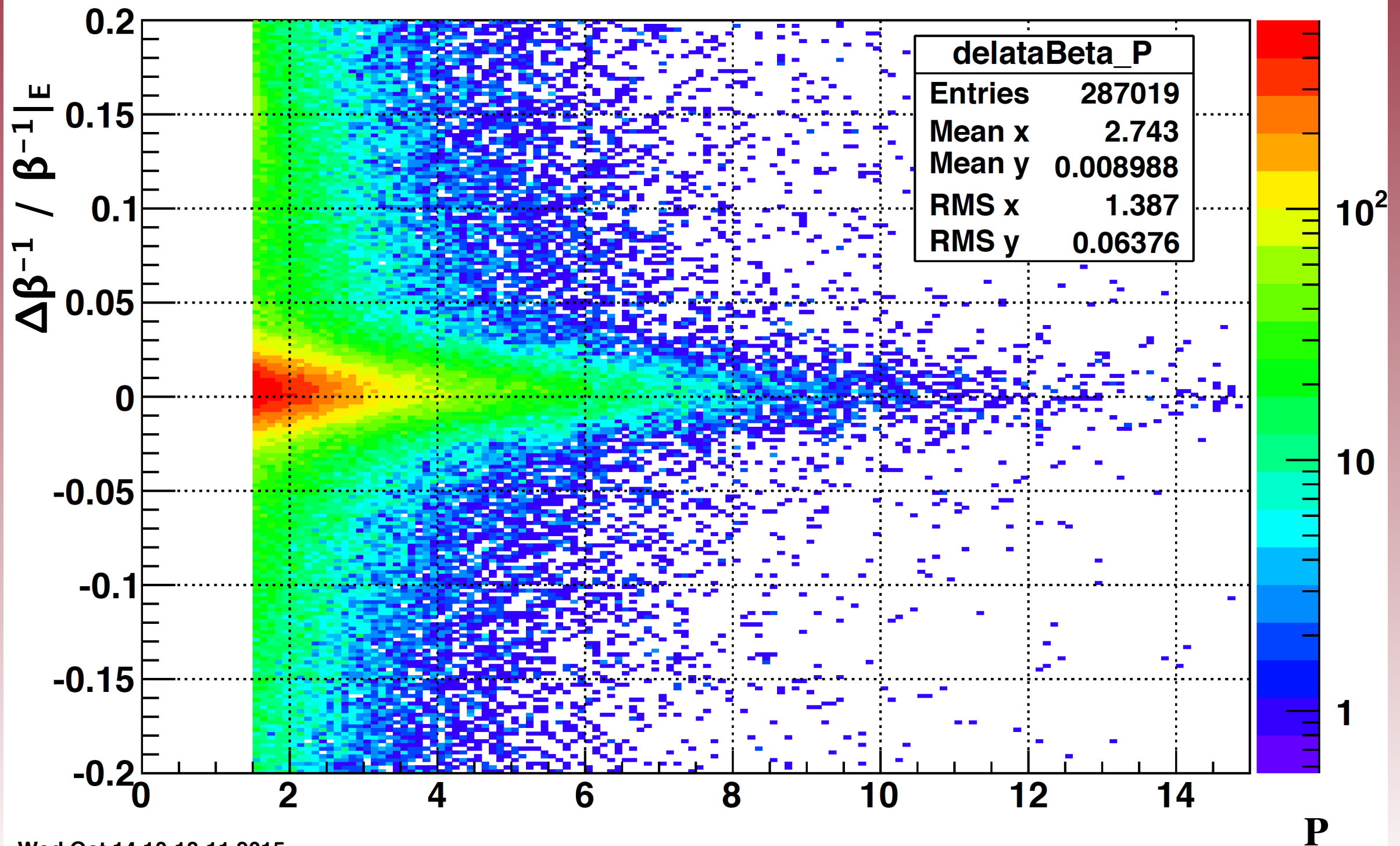
EoverP\_vs\_inverse\_deltaBeta\_over\_inverse\_Beta



Wed Oct 14 10:19:08 2015

$$\Delta\beta^{-1} / \beta^{-1} |_E \text{ Vs } P$$

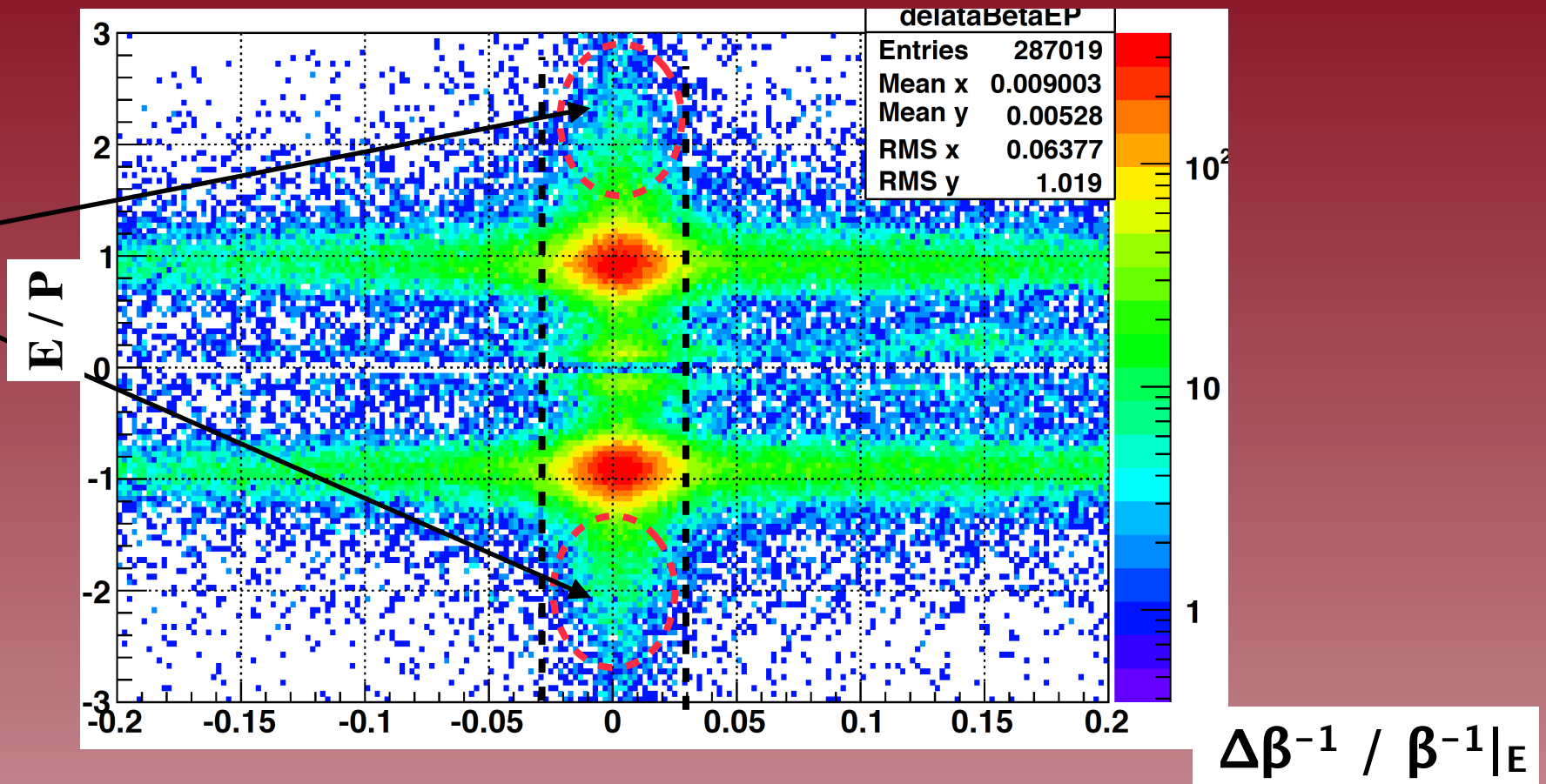
inverse\_deltaBeta\_over\_inverse\_Beta\_vs\_mom



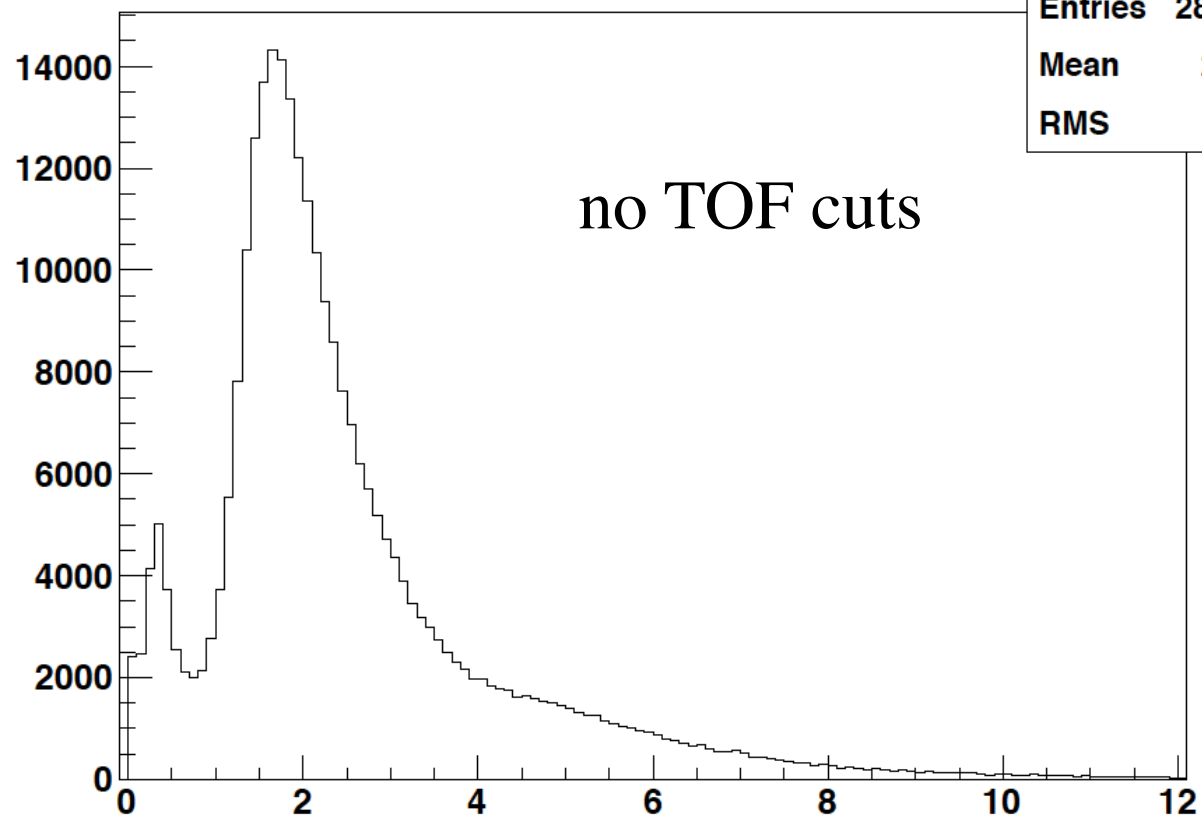
Wed Oct 14 10:18:11 2015



Can't  
remove  
these  
BG  
with  
TOF  
cuts



Energy\_vs\_momentum\_TPC\_PID\_cuts

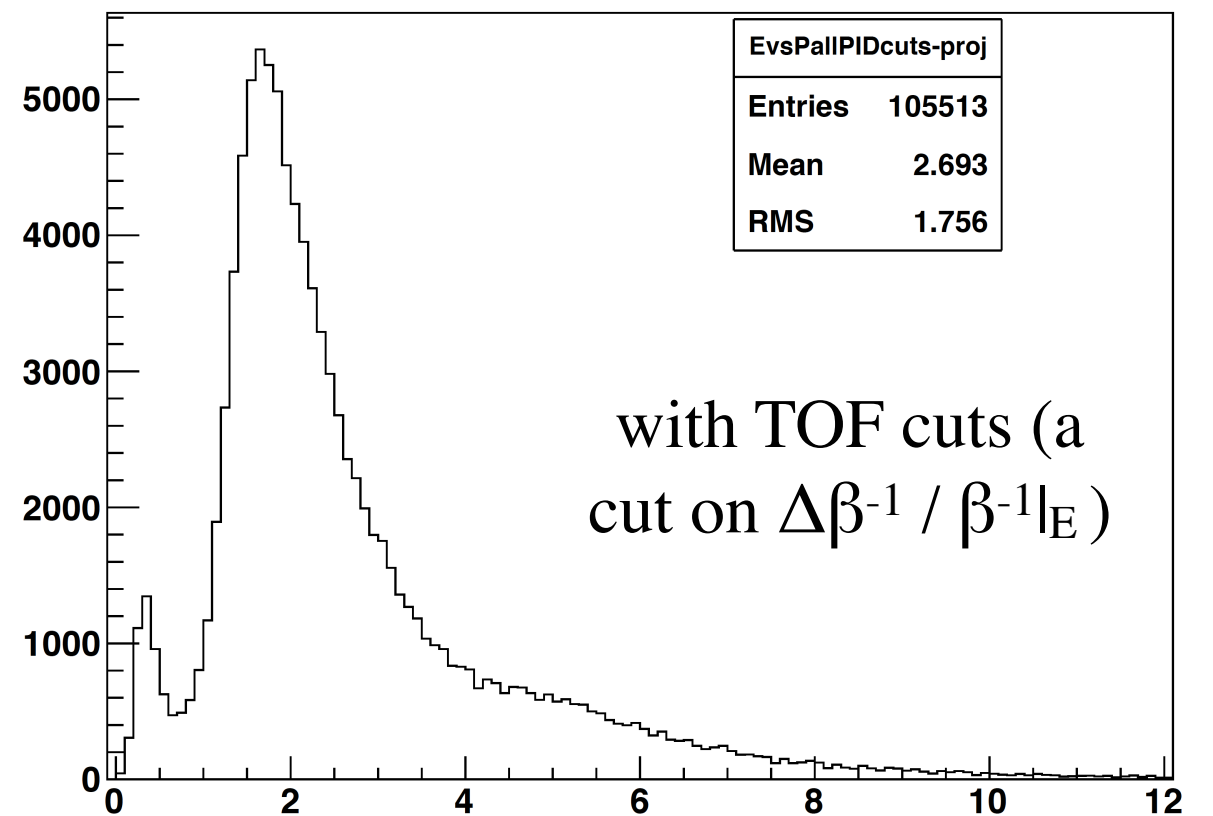


EvsPtpcPIDcuts-proj

Entries	287019
Mean	2.526
RMS	1.728

Wed Oct 14 15:47:14 2015

Energy\_vs\_momentum\_all\_PID\_cuts

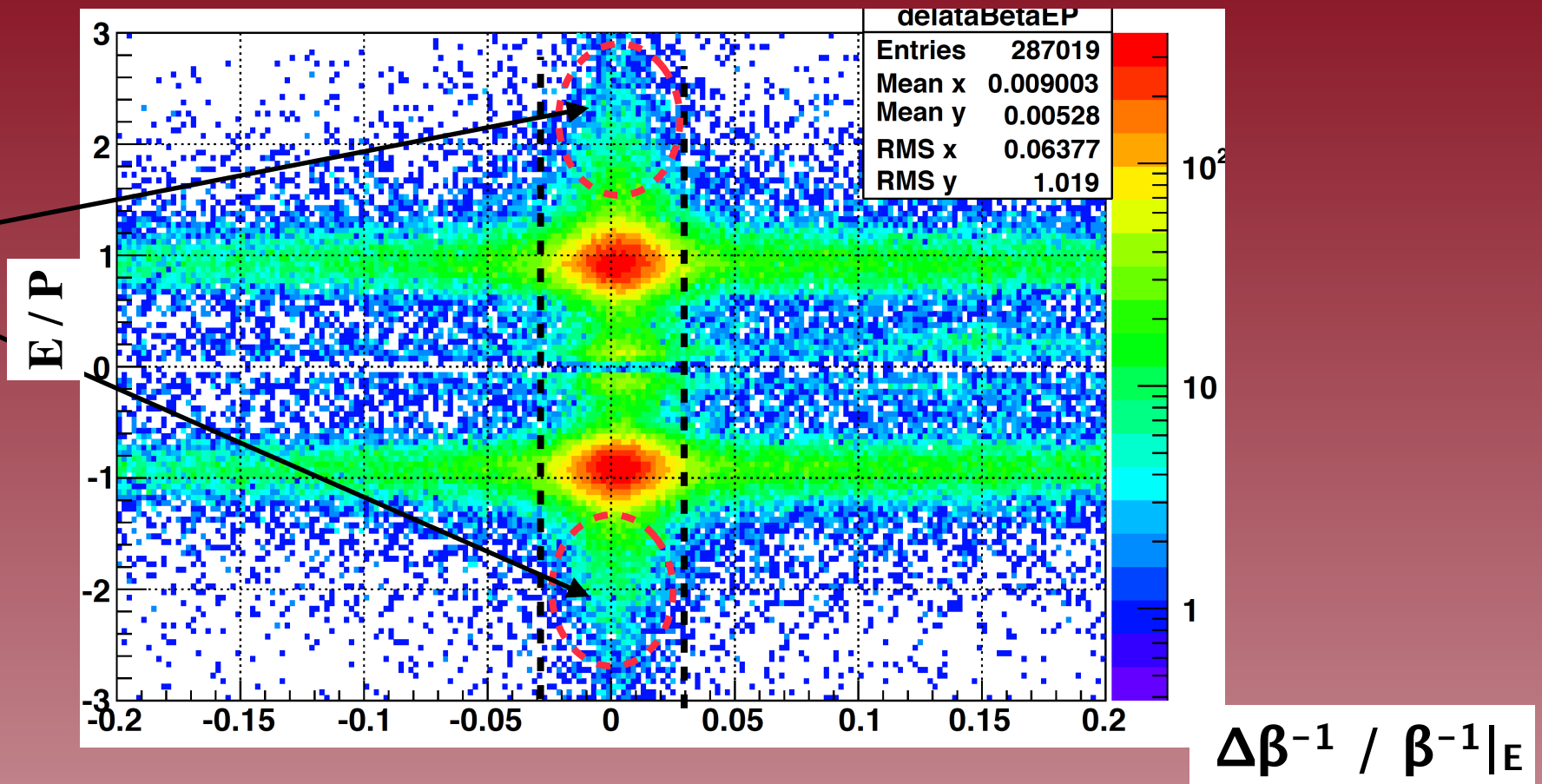


EvsPallPIDcuts-proj

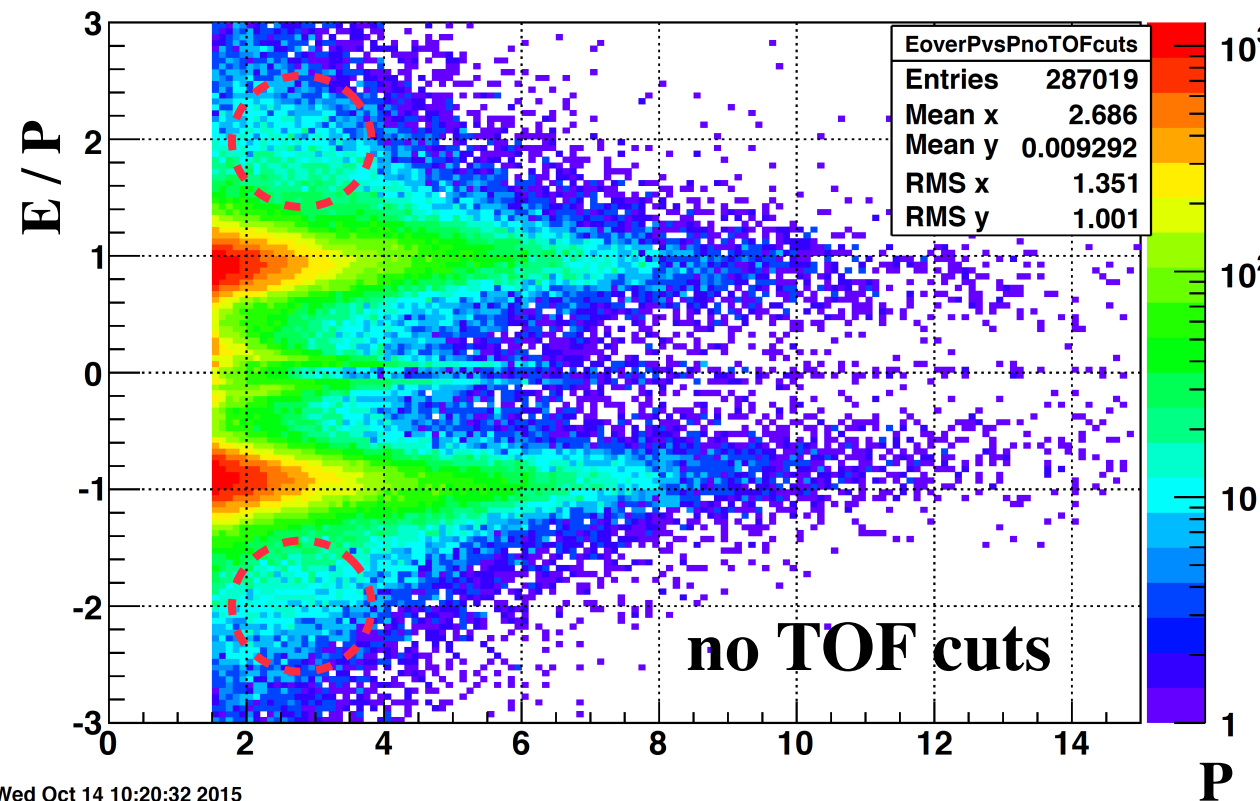
Entries	105513
Mean	2.693
RMS	1.756

Wed Oct 14 16:28:30 2015

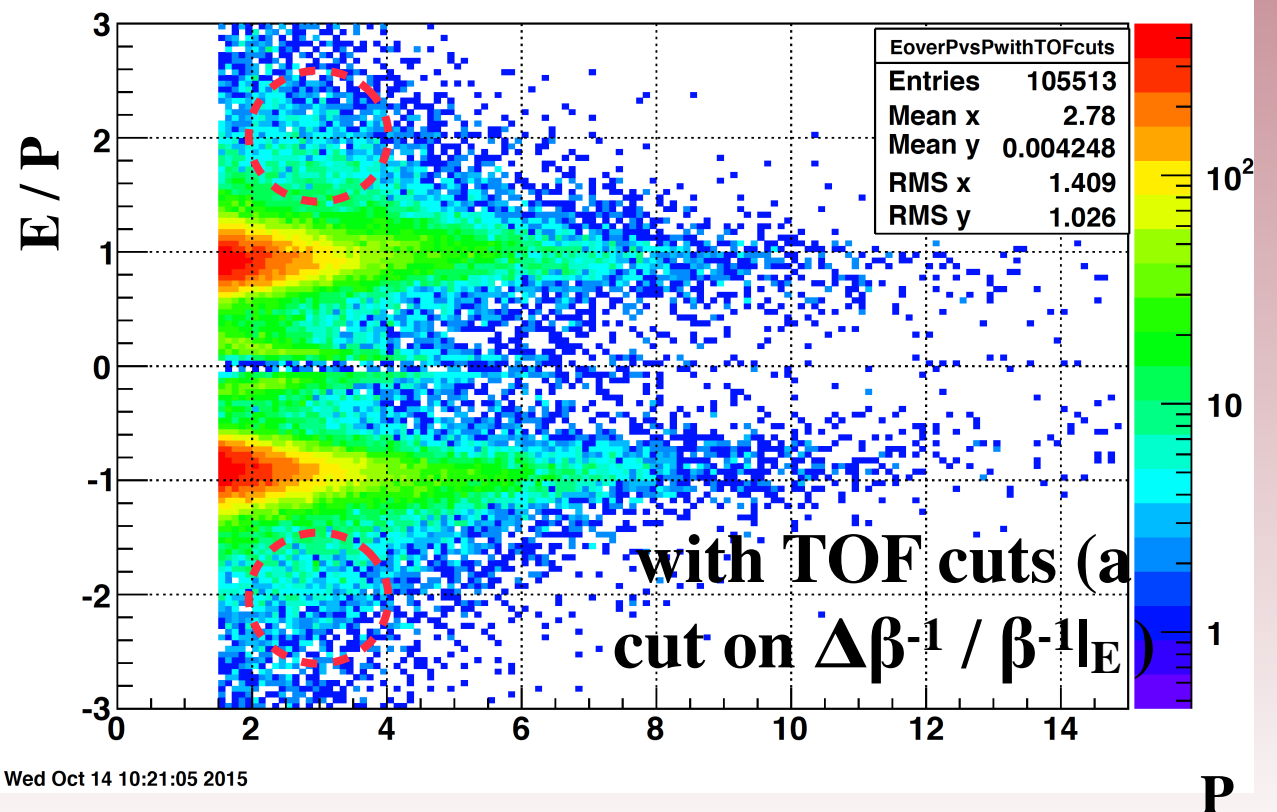
Can't  
remove  
these  
BG  
with  
TOF  
cuts



EoverP\_vs\_mom\_no\_TOF\_cuts

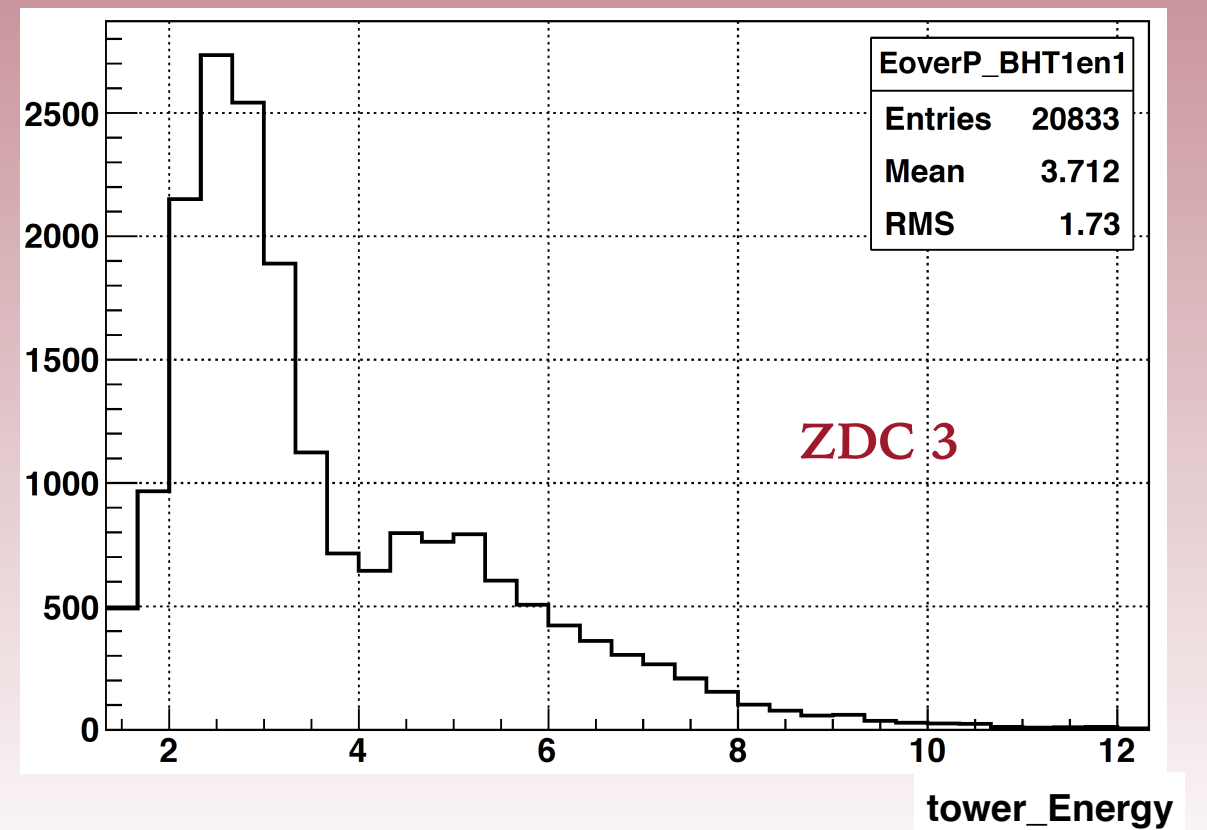
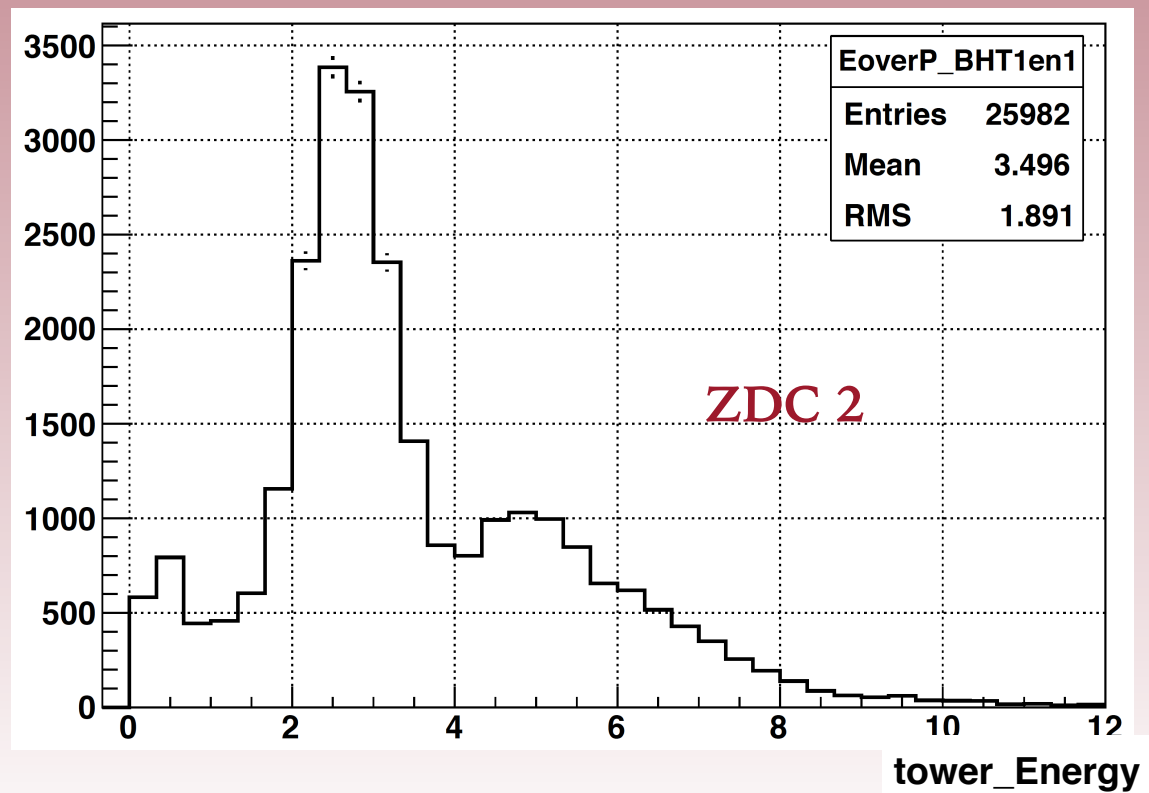
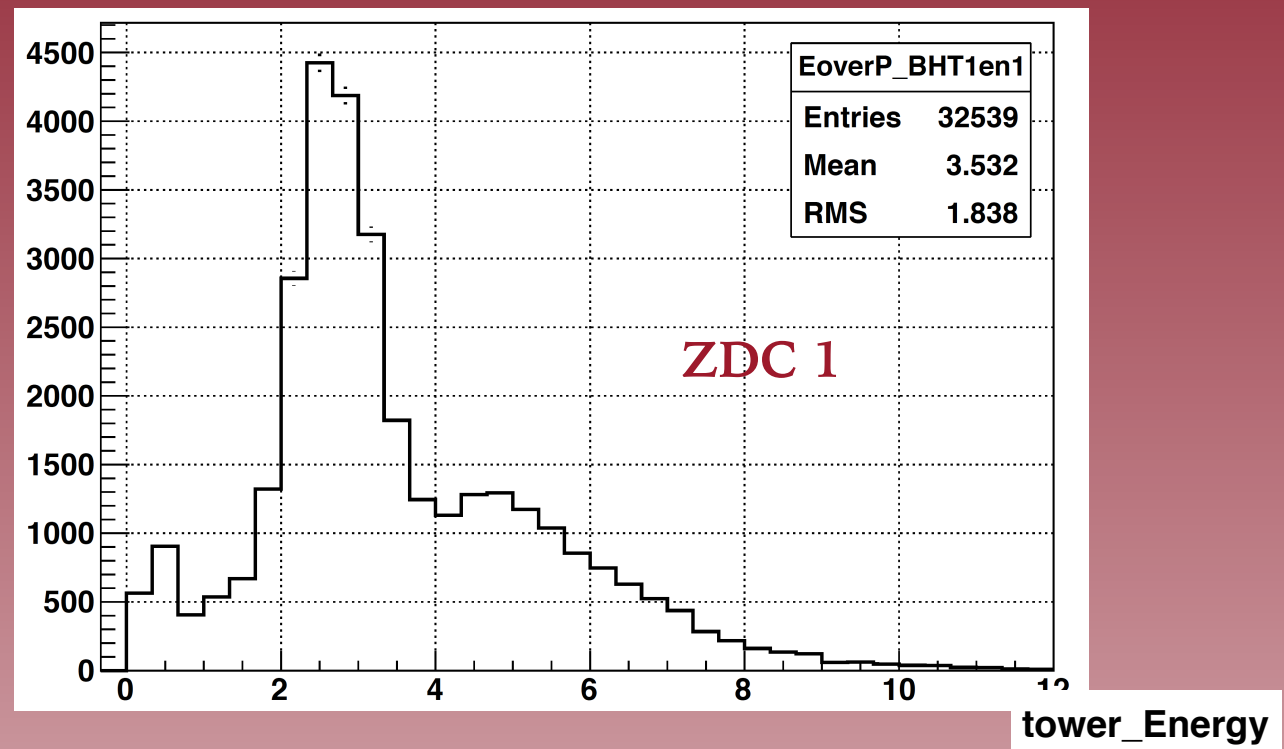


EoverP\_vs\_mom\_with\_TOF\_cuts



# BHT1 - lumi - dependence of Energy distribution

ZDC 1 < ZDC 2 < ZDC 3



# BHT1->didFire() E/P with an without TOF cuts

