



Simulation Statistics

By Sagar and Siddhant
Under the guidance of Dr. Ankhi Roy

IIT Indore

Simulation Parameters

e^- , π^- , $kaon^-$
(100k)

p: [0,30] GeV/c

cut: $e > 0.2$ GeV;
detector-wise
eta cuts

Eta: [-4,4]

phi: [- π , π]

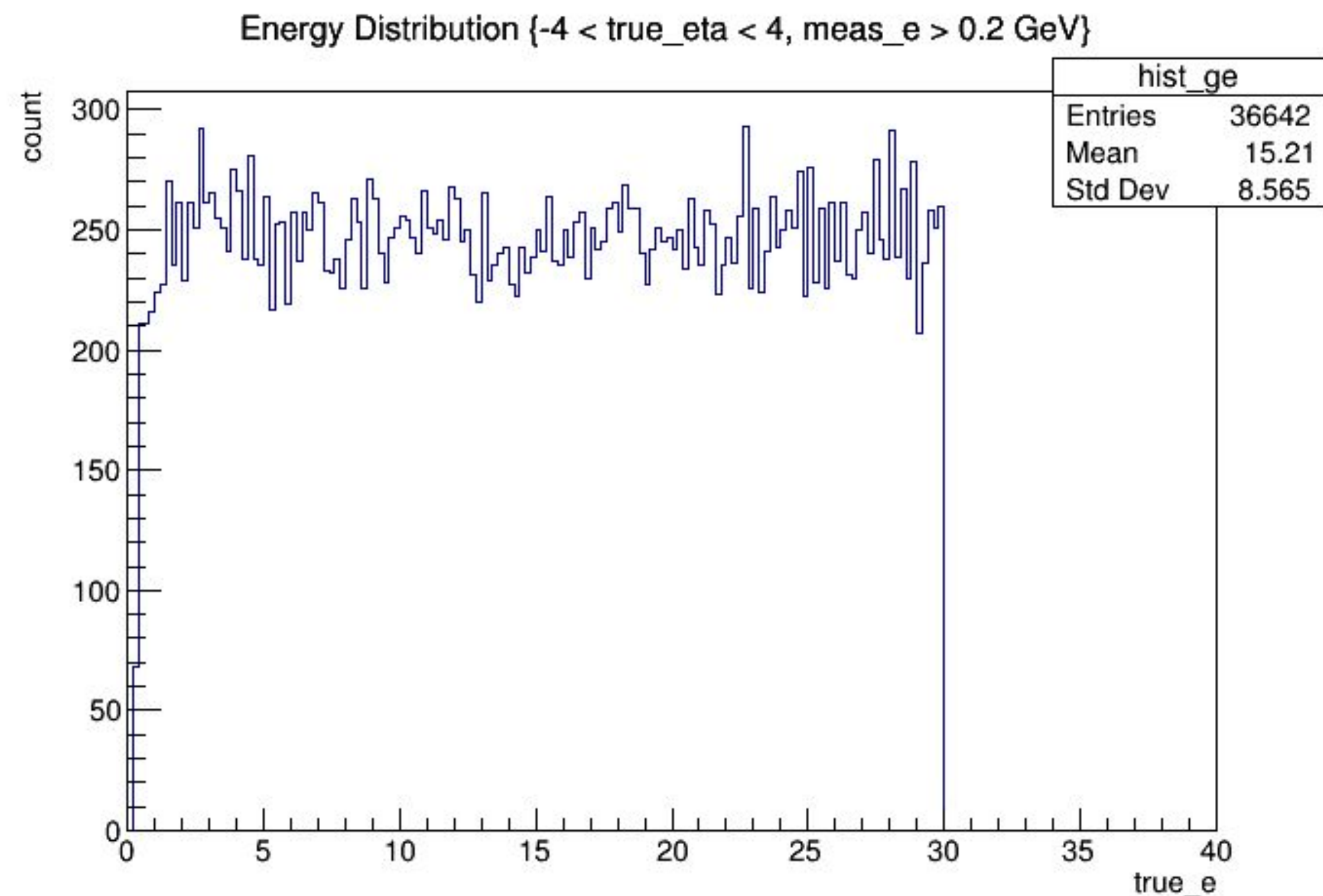
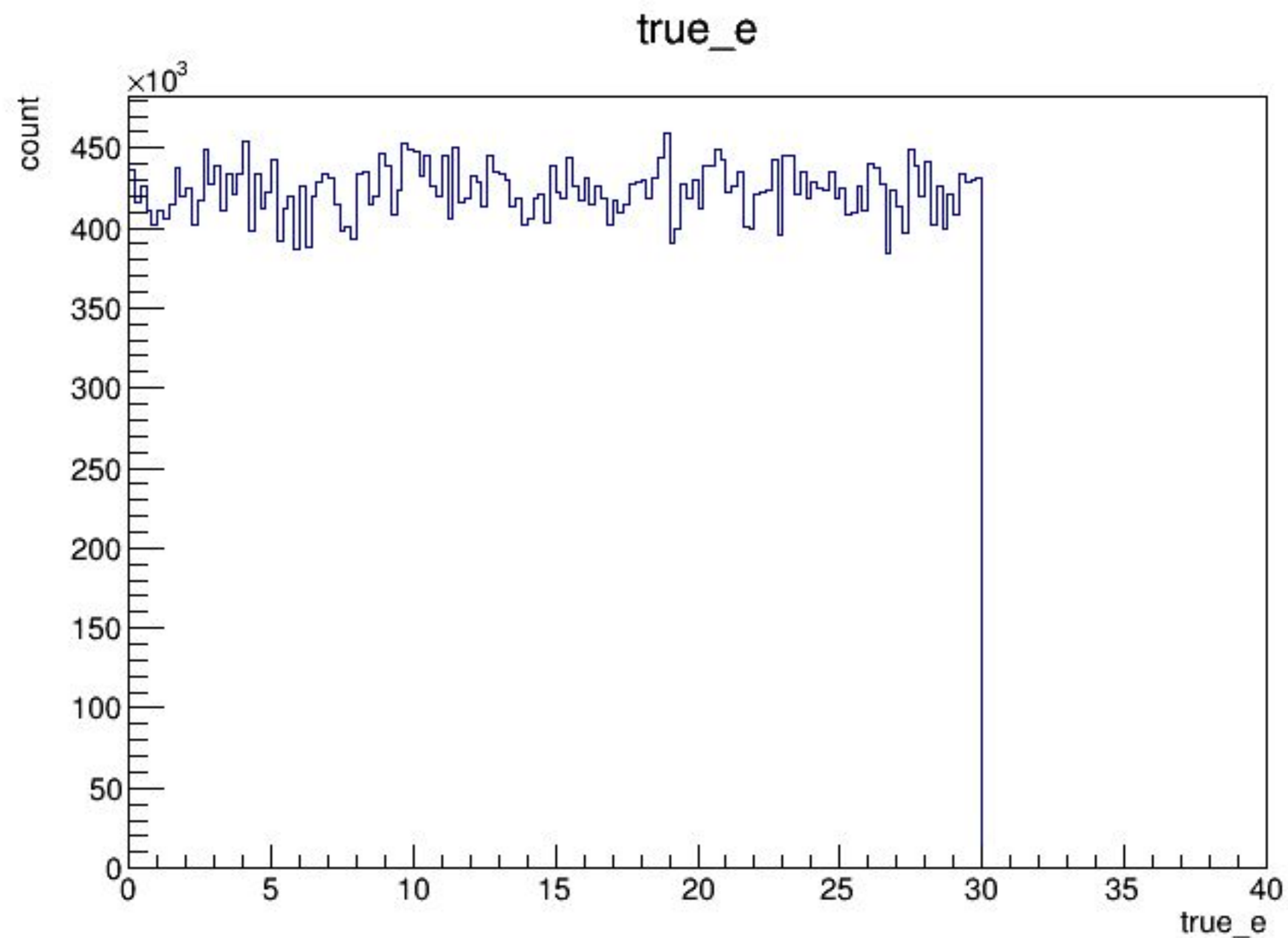
default units



CEMC

CEMC

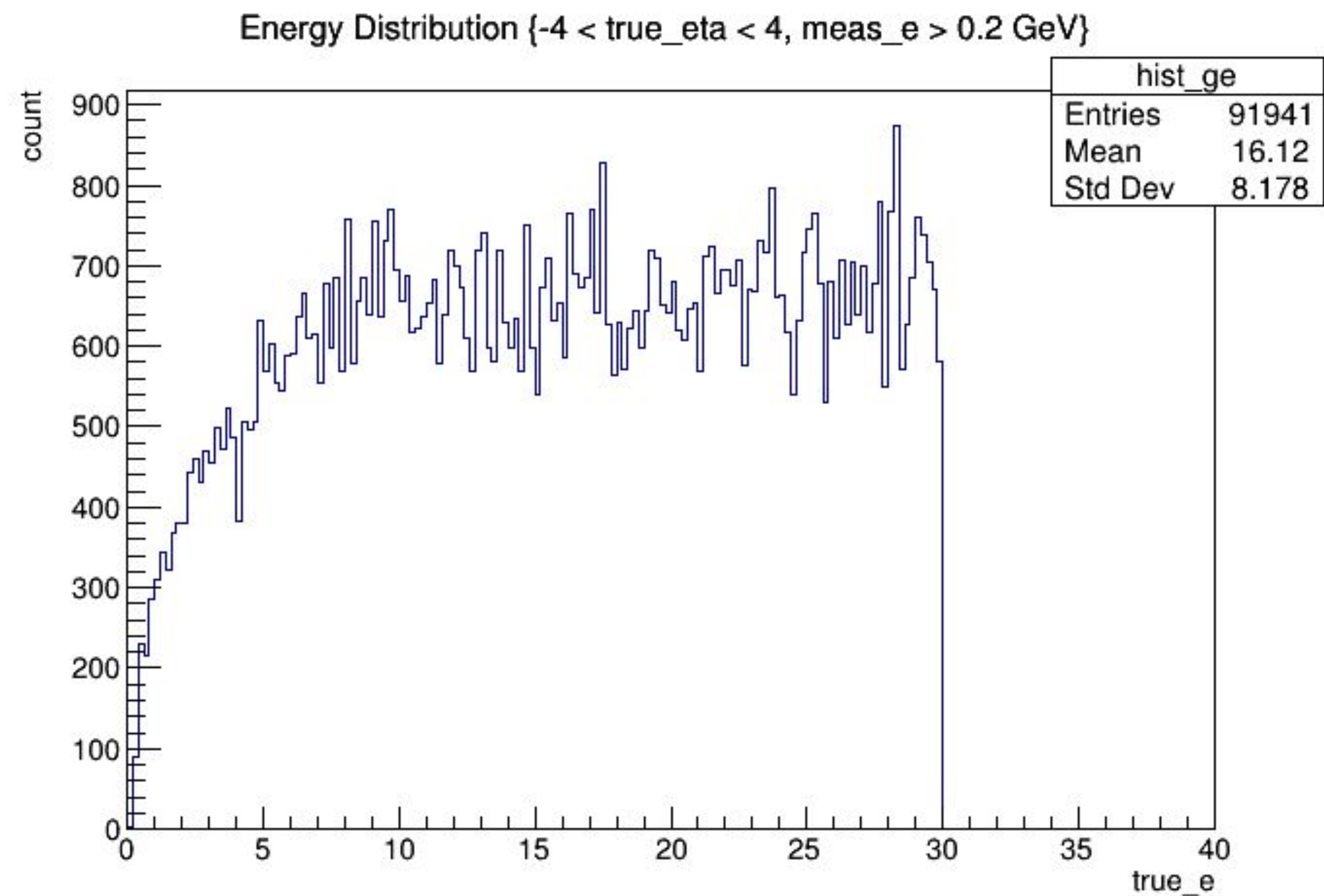
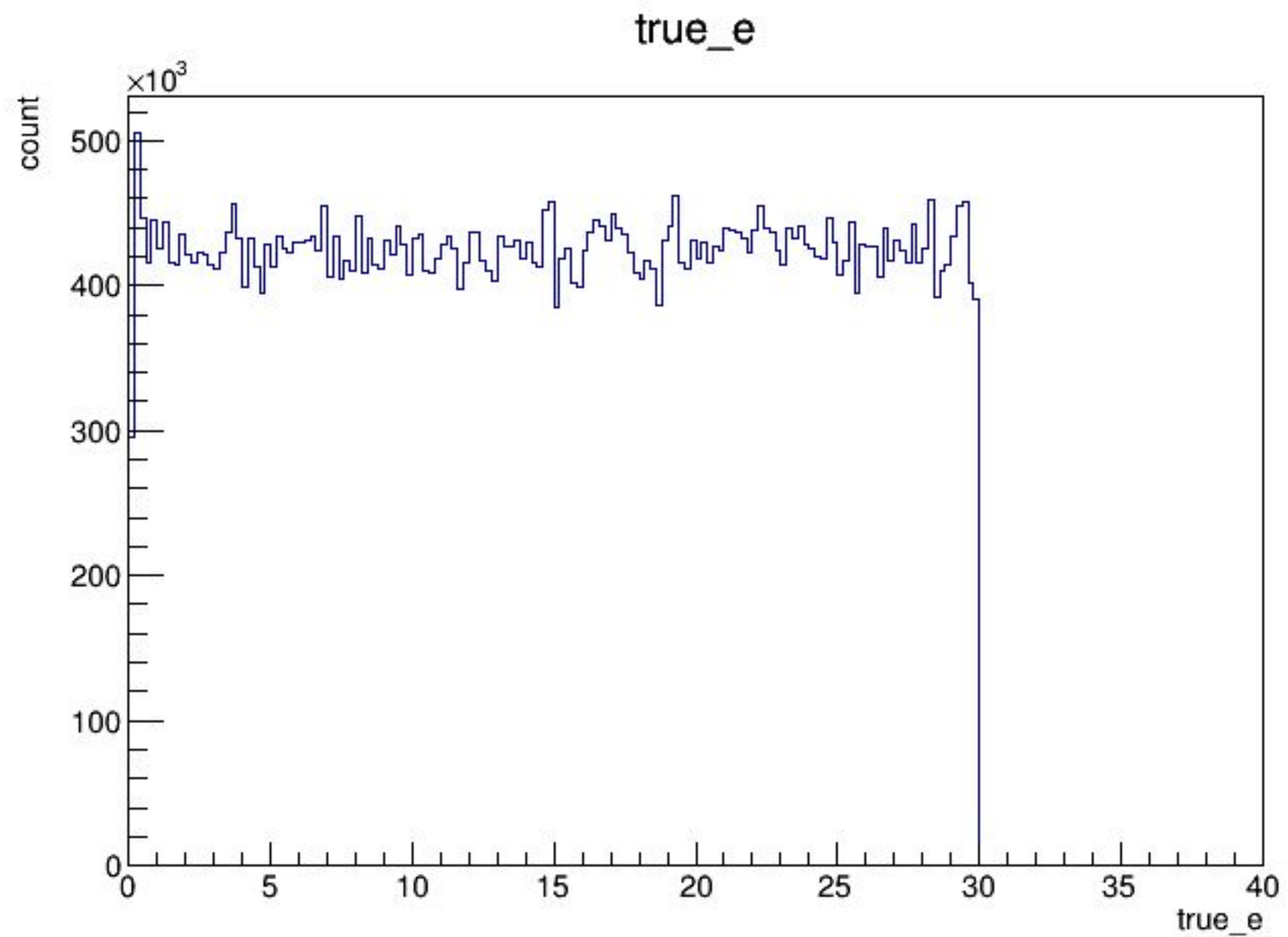
ge distribution



Electron

CEMC

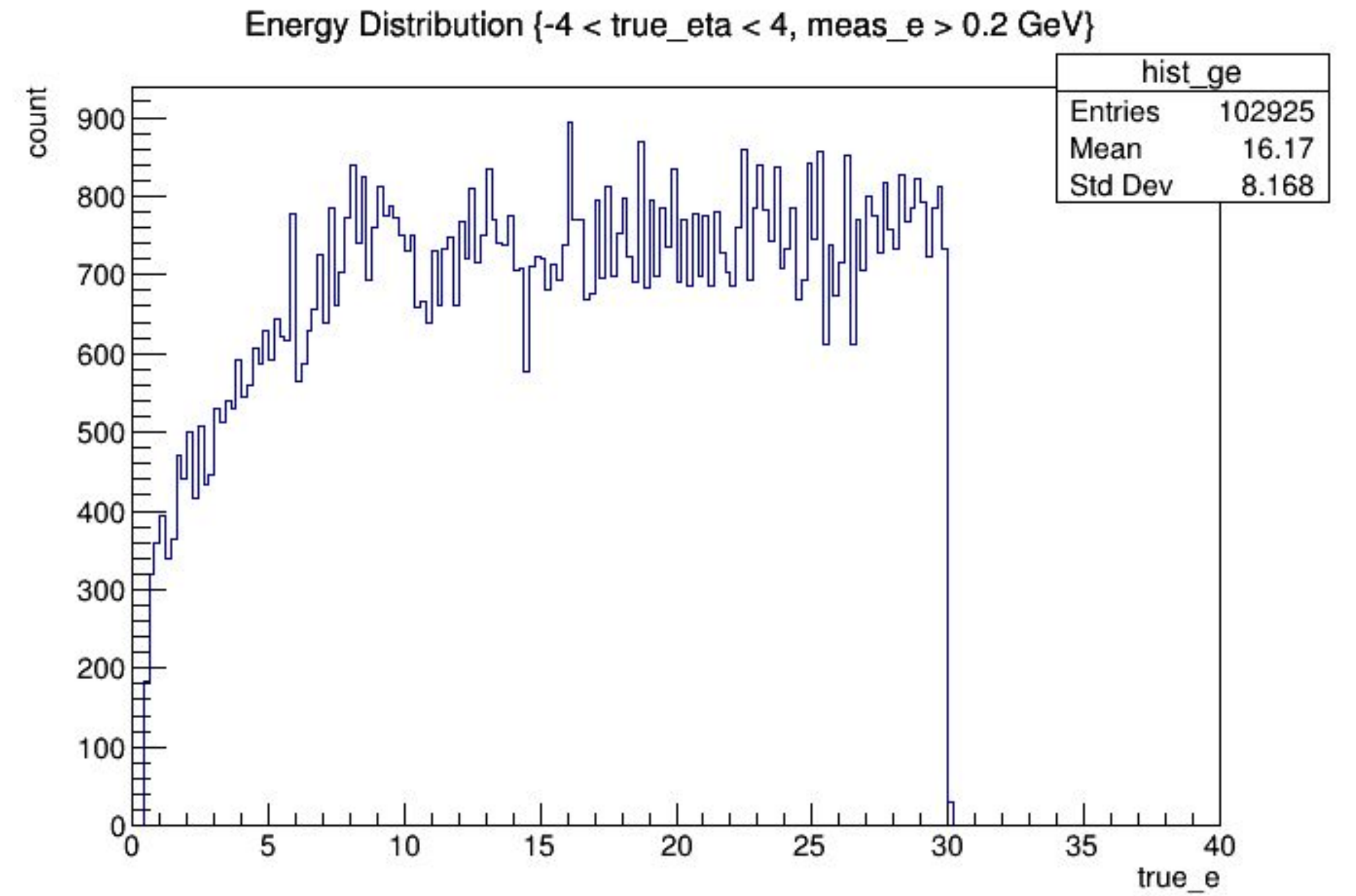
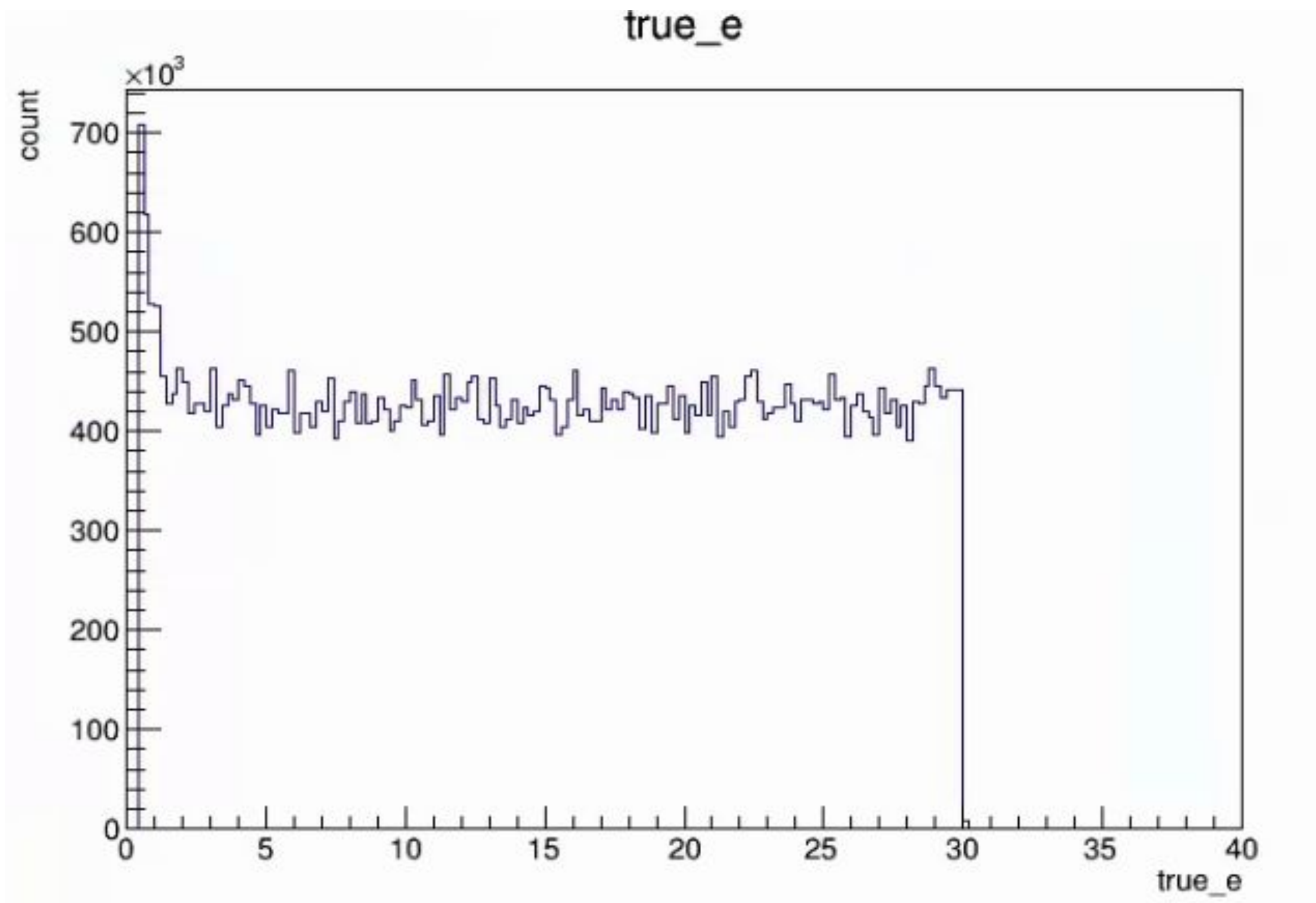
ge distribution



Pion

CEMC

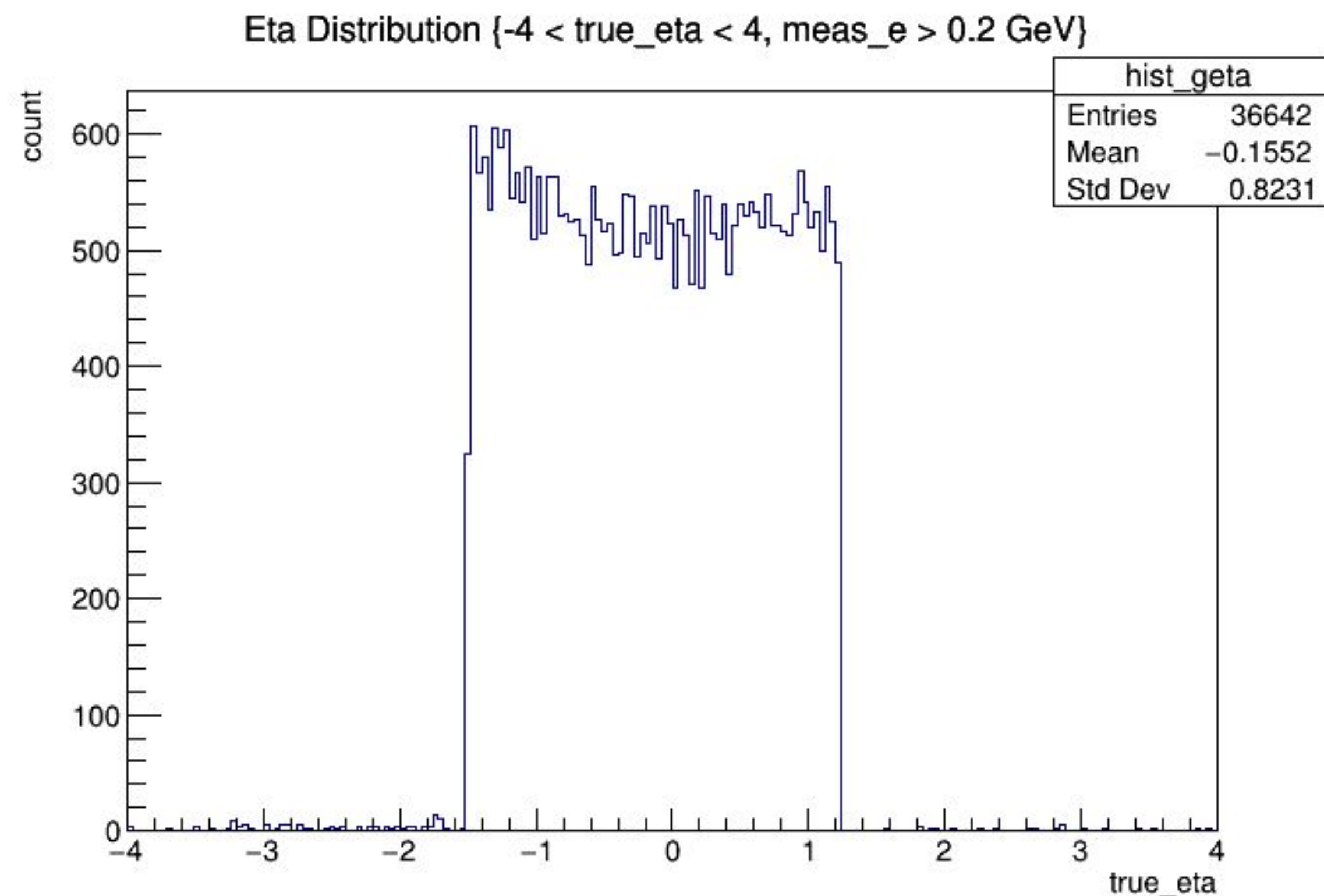
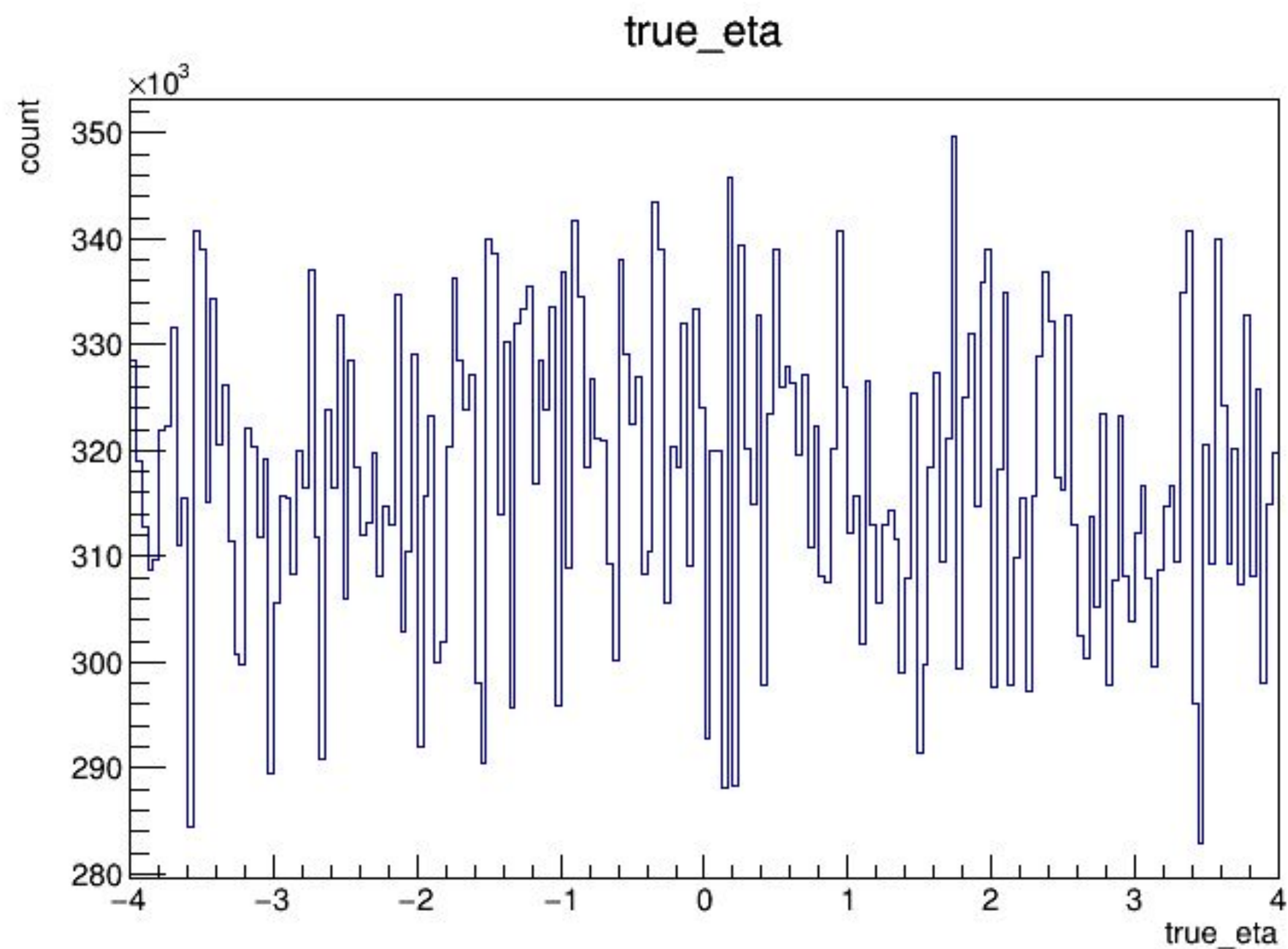
ge distribution



Kaon

CEMC

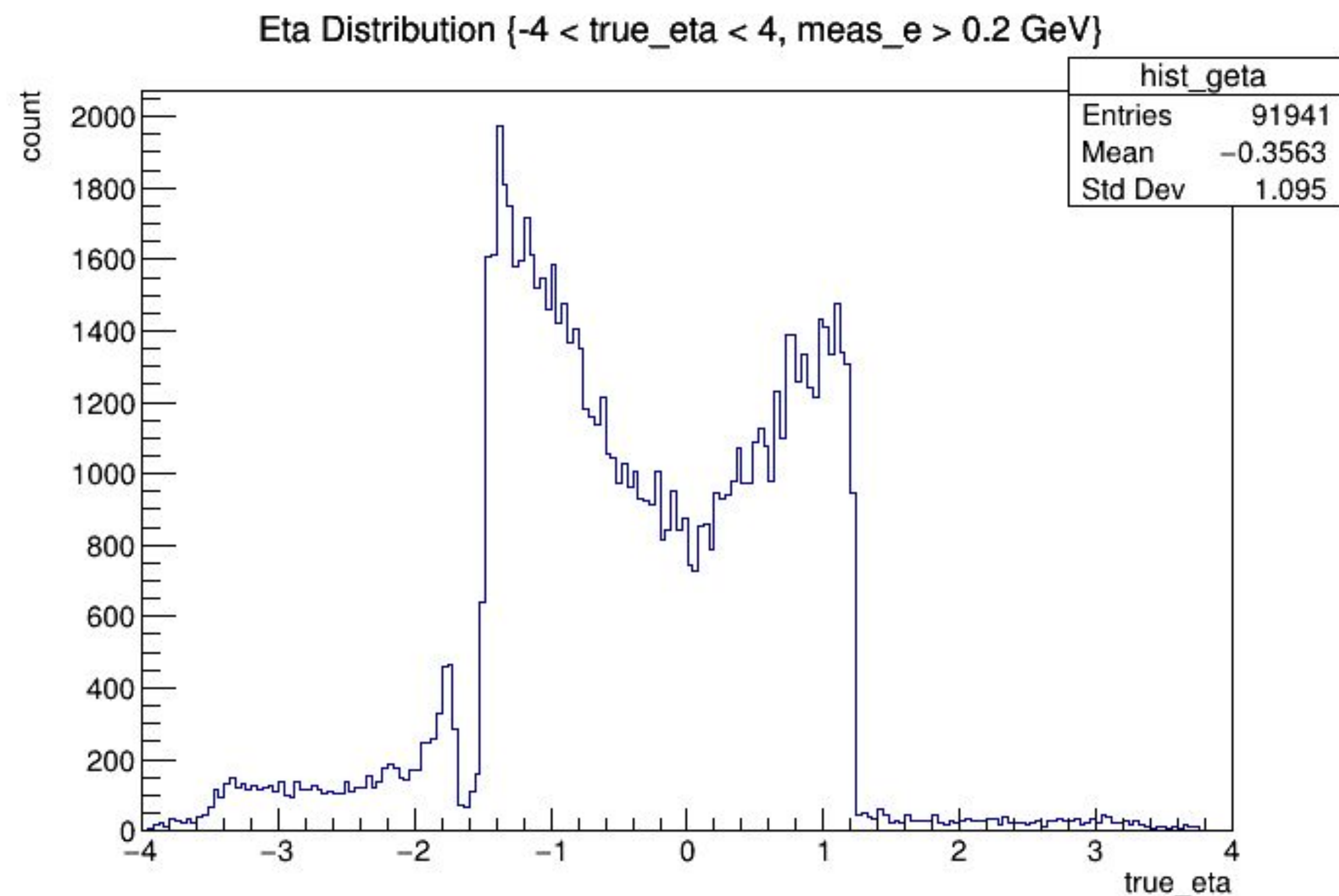
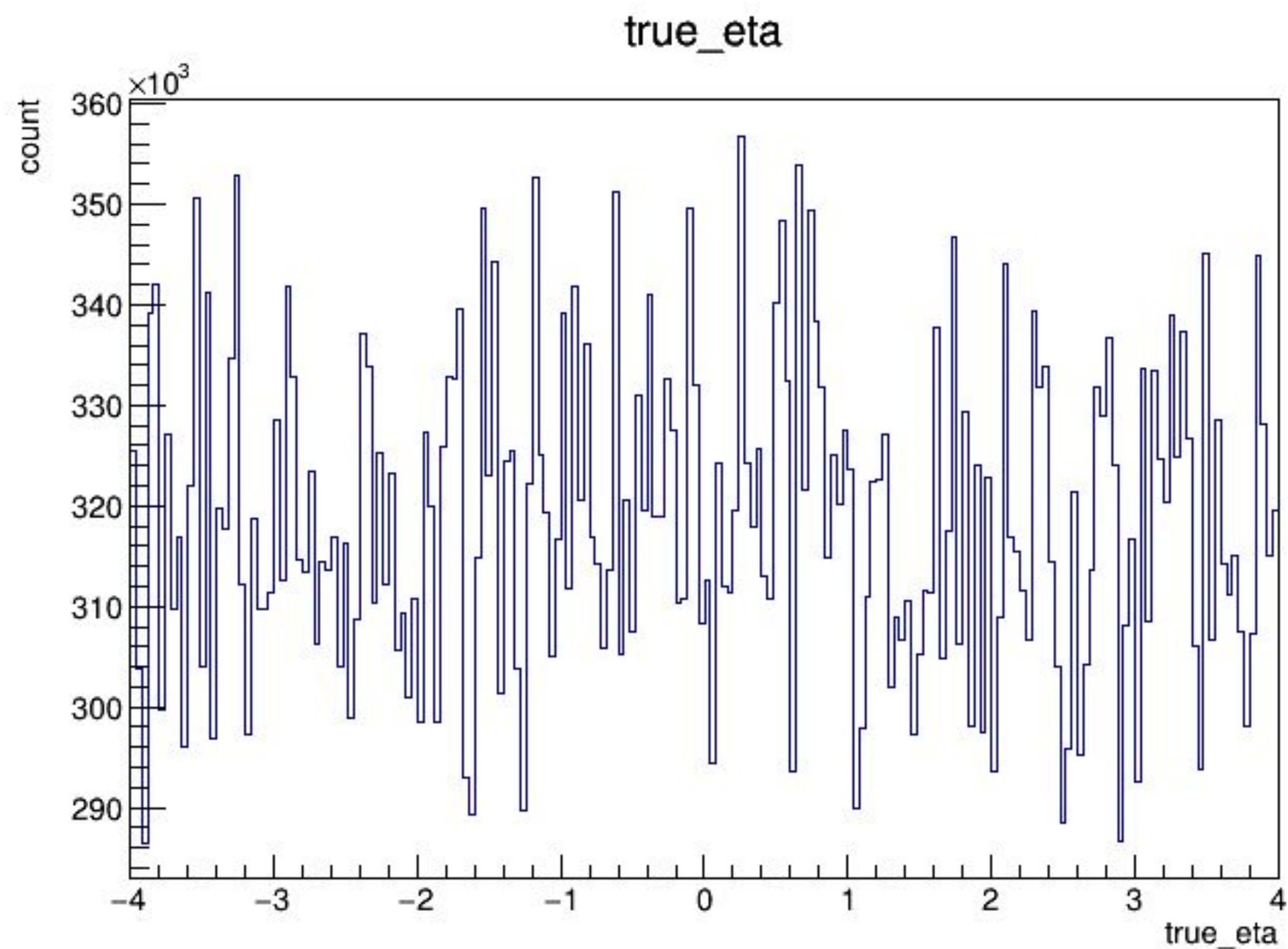
geta distribution



Electron

CEMC

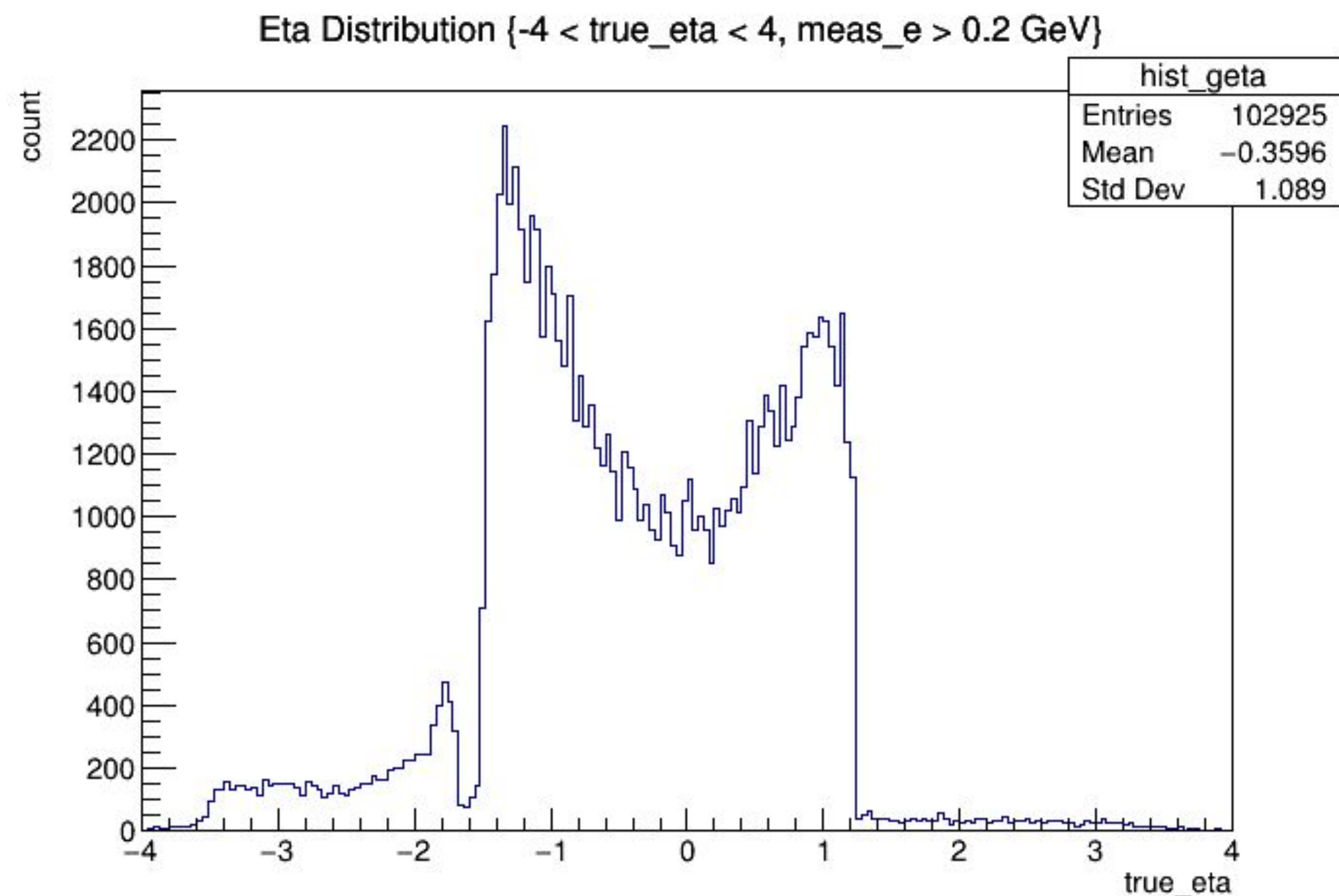
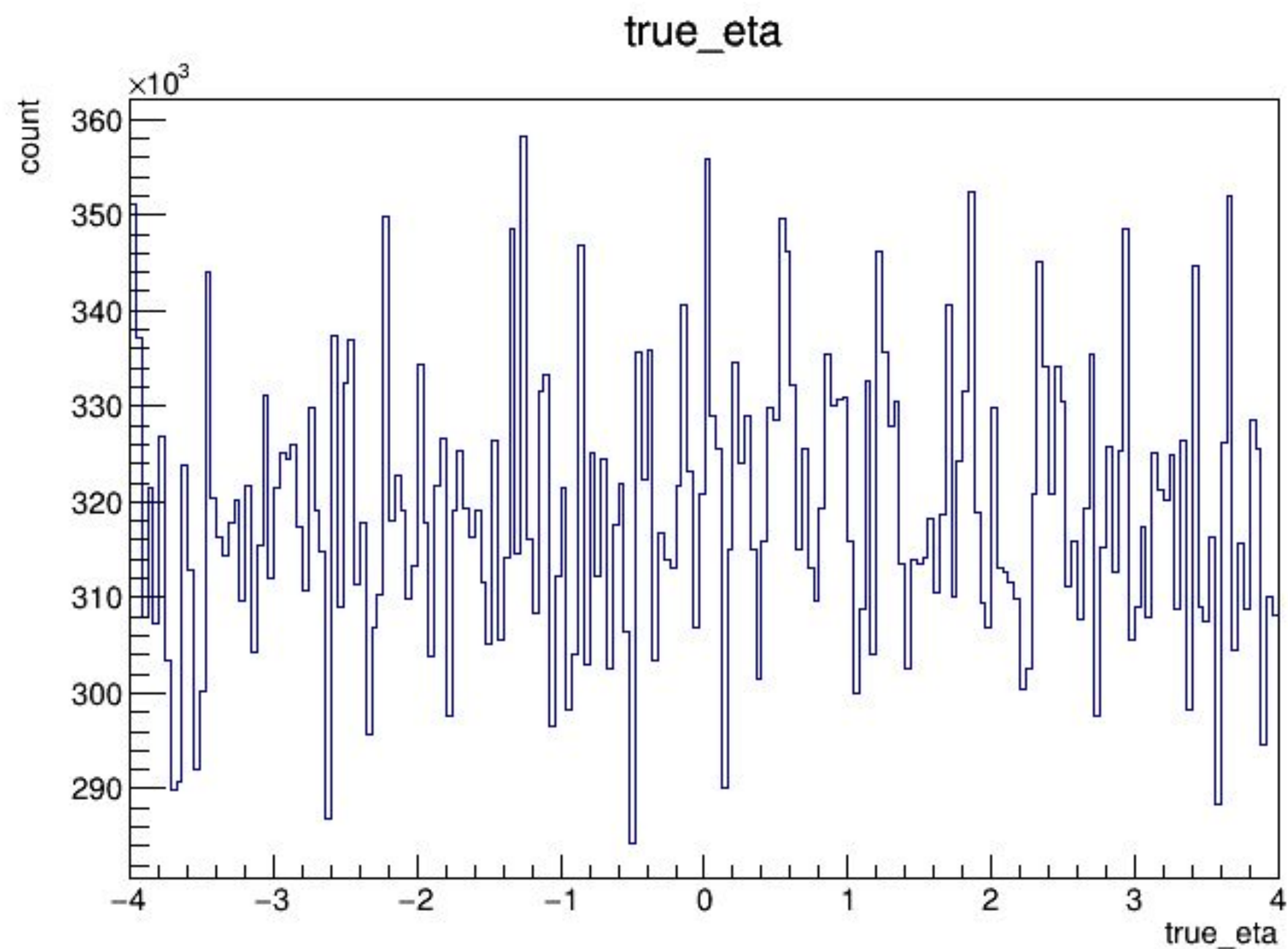
geta distribution



Pion

CEMC

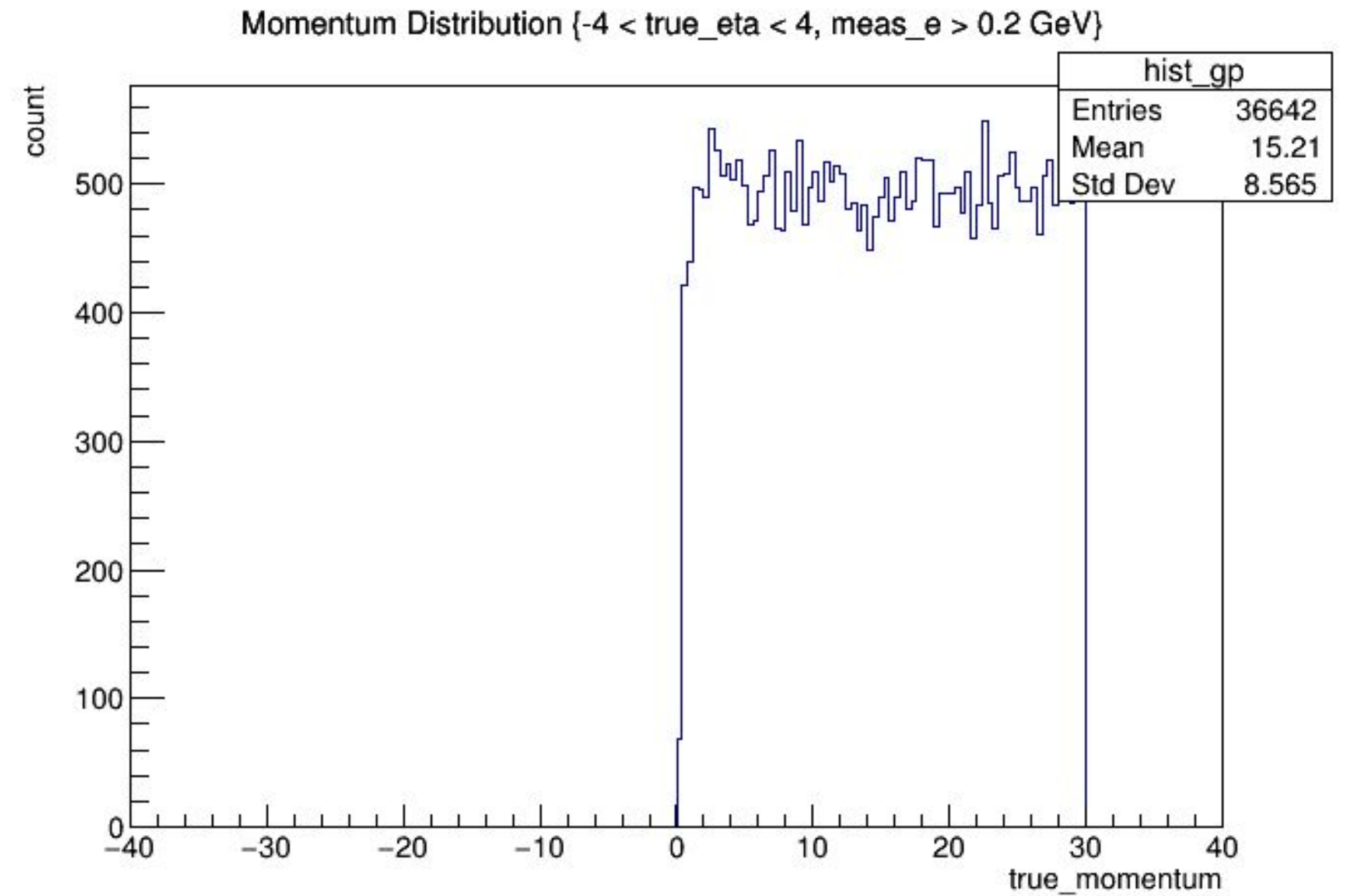
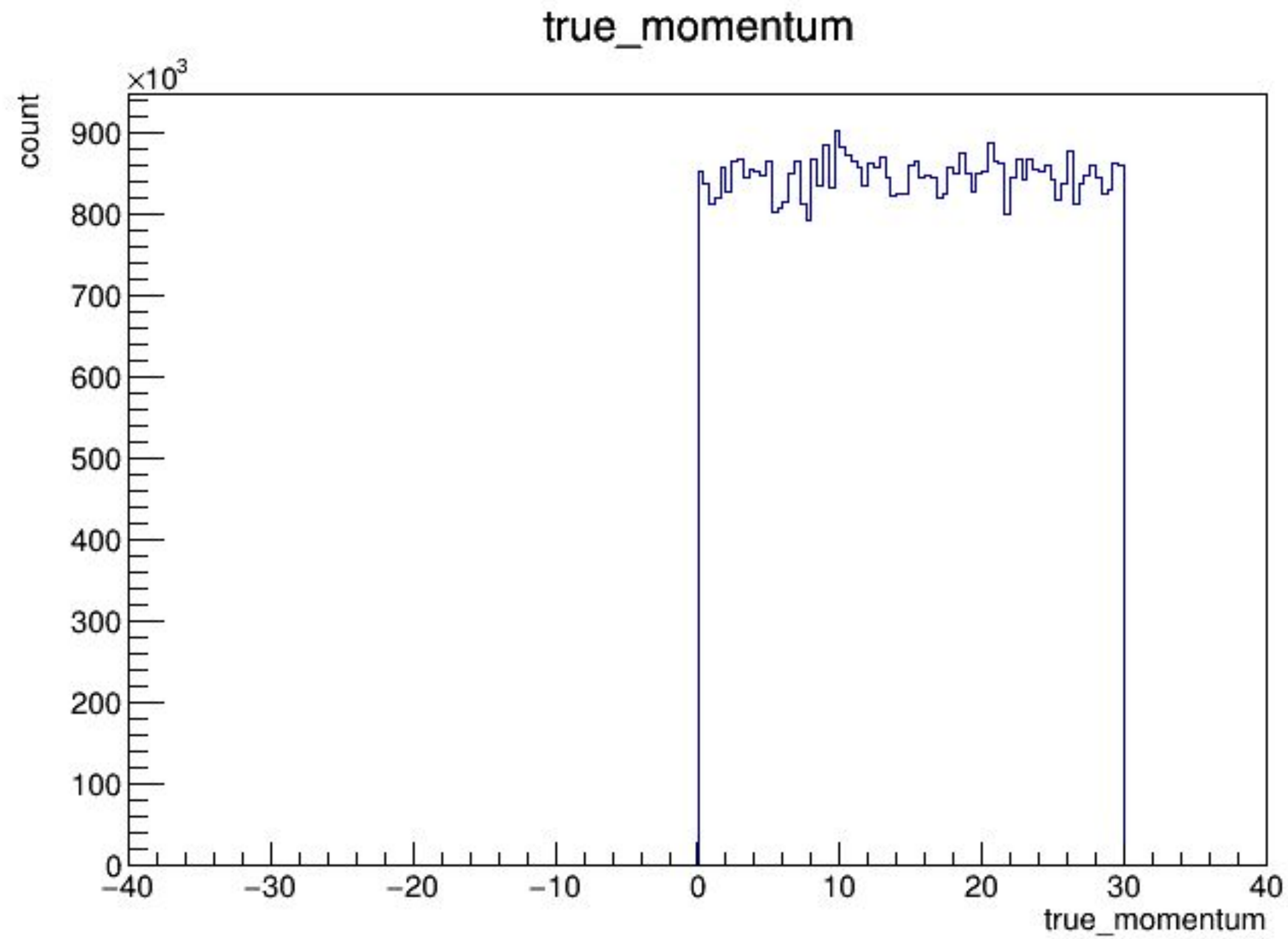
geta distribution



Kaon

CEMC

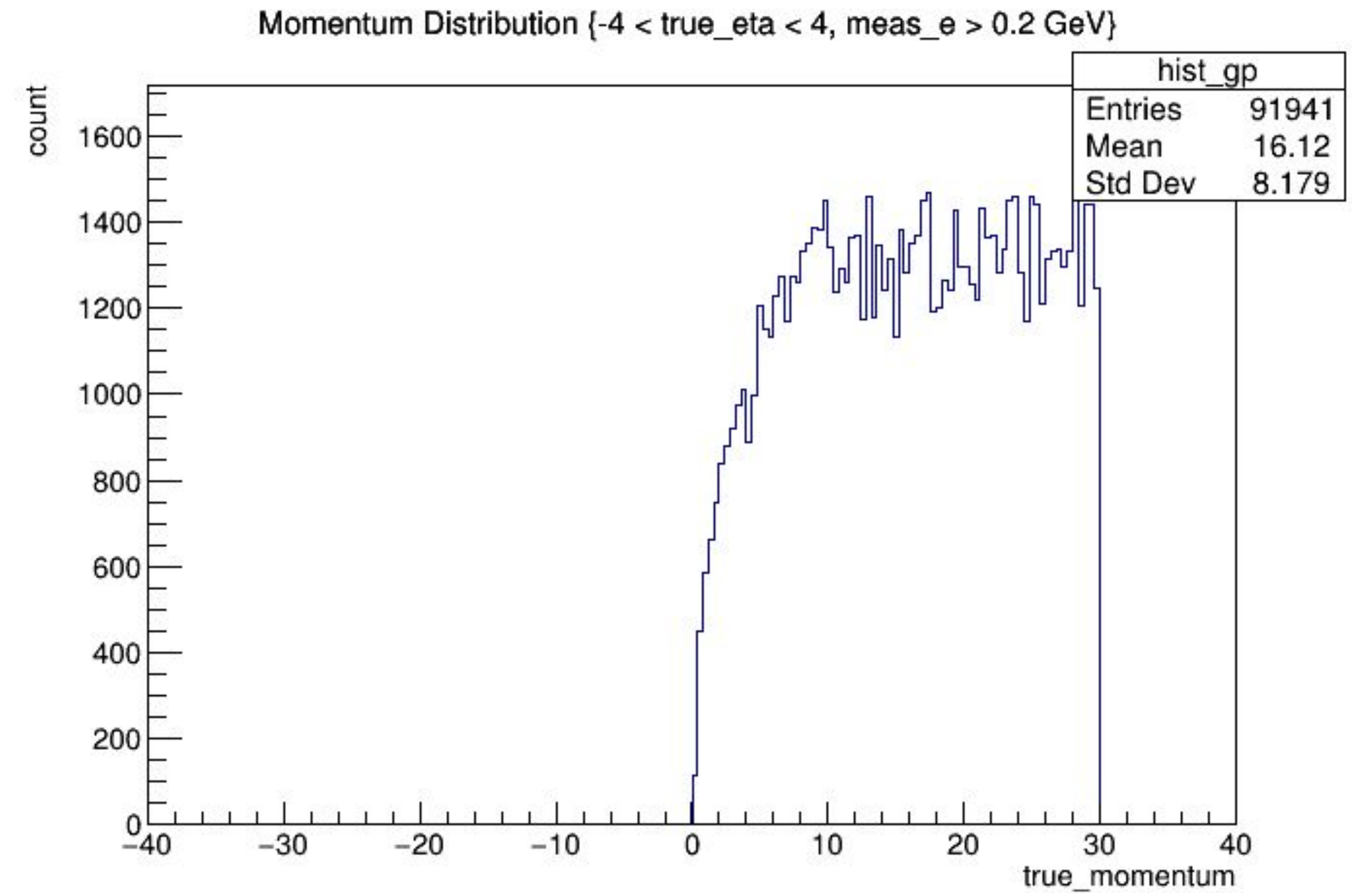
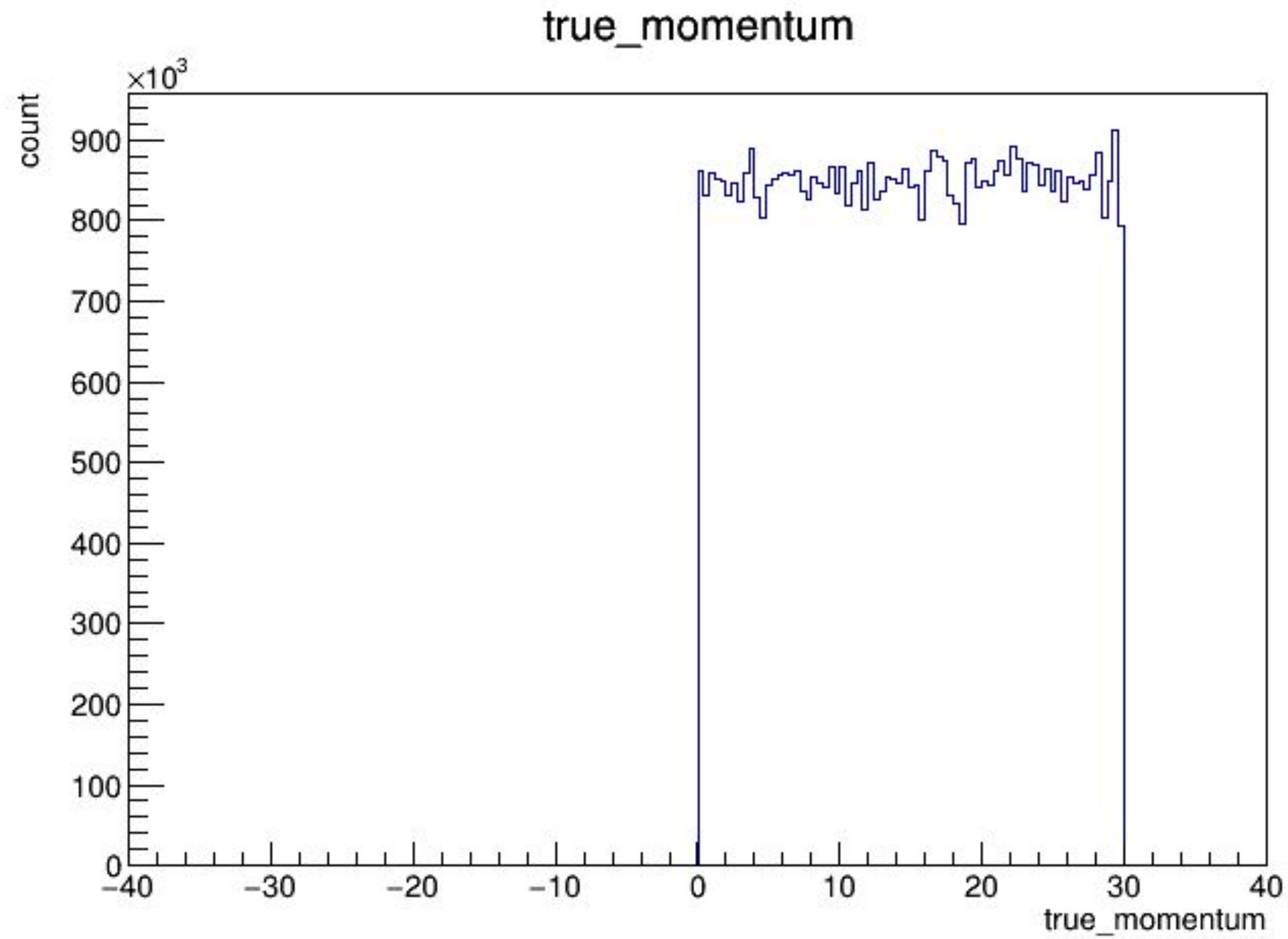
Momentum distribution



Electron

CEMC

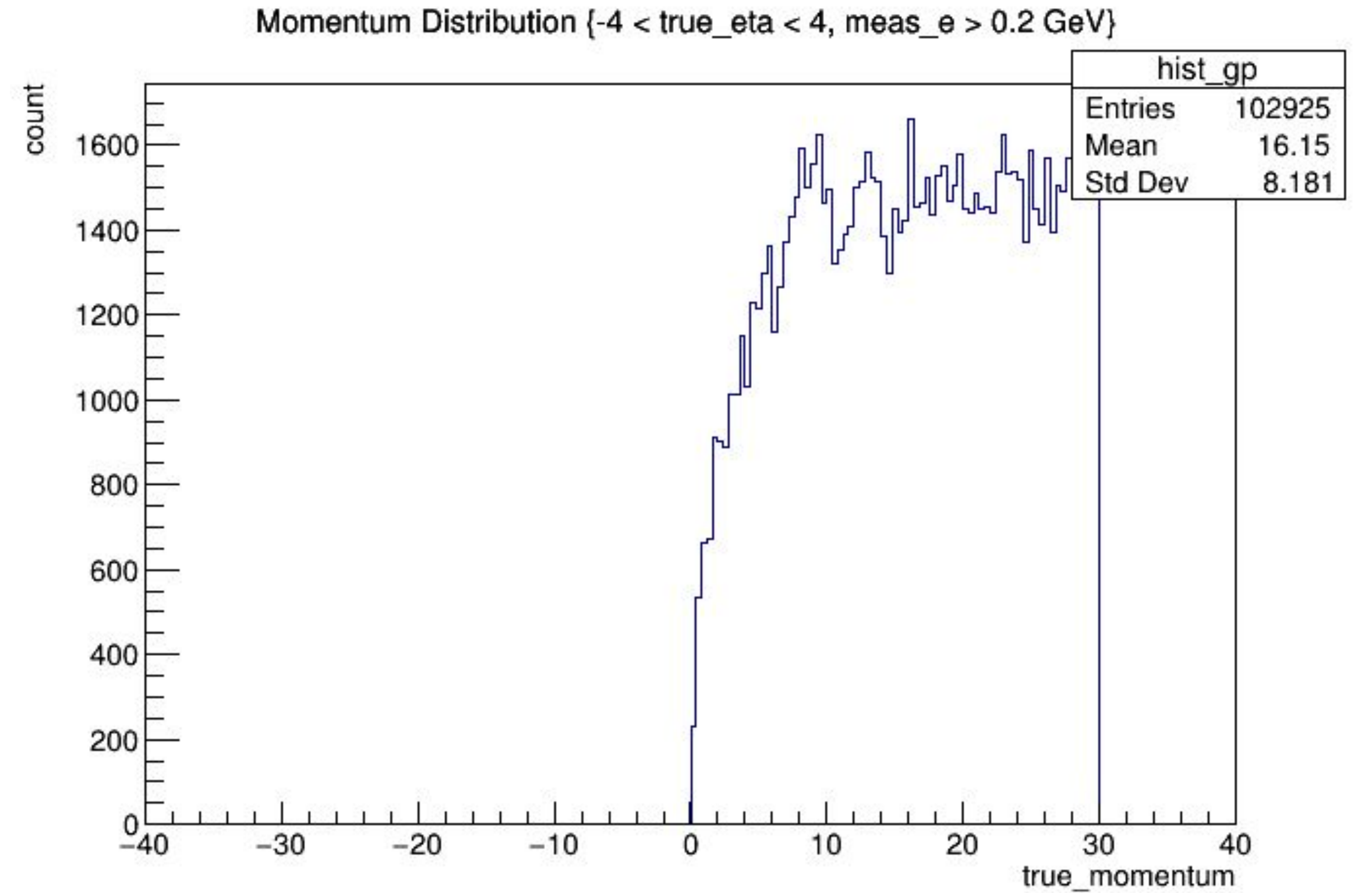
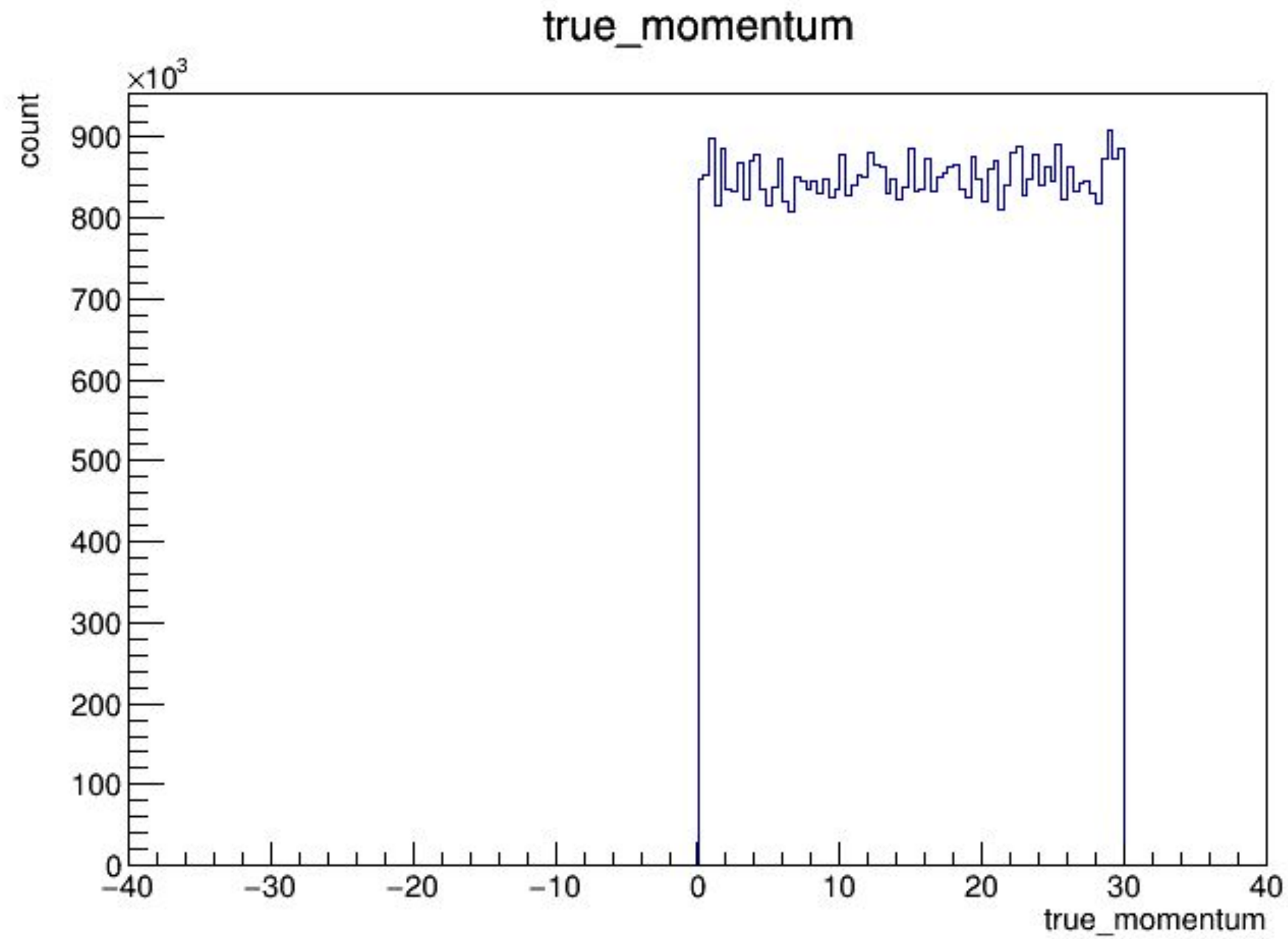
Momentum distribution



Pion

CEMC

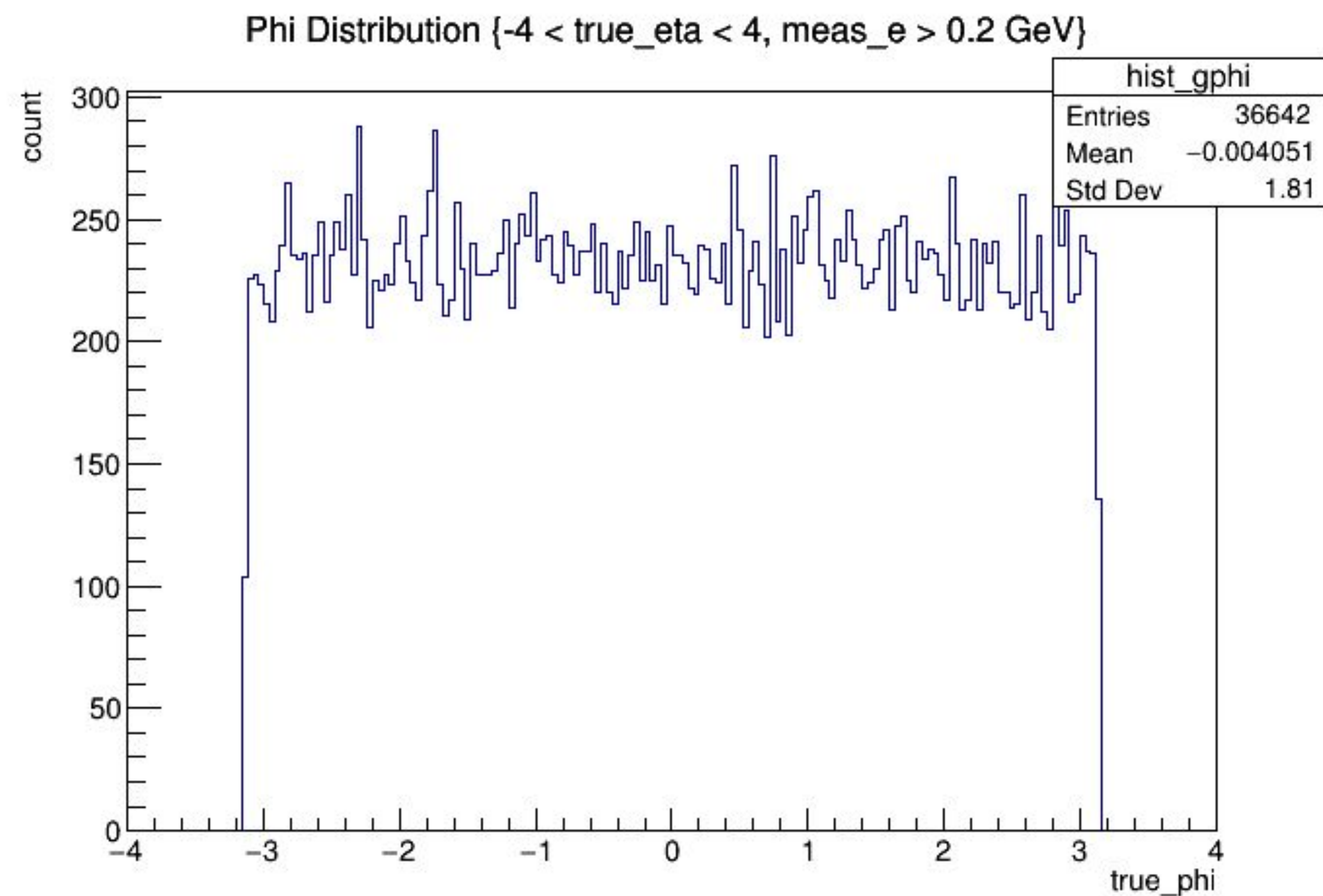
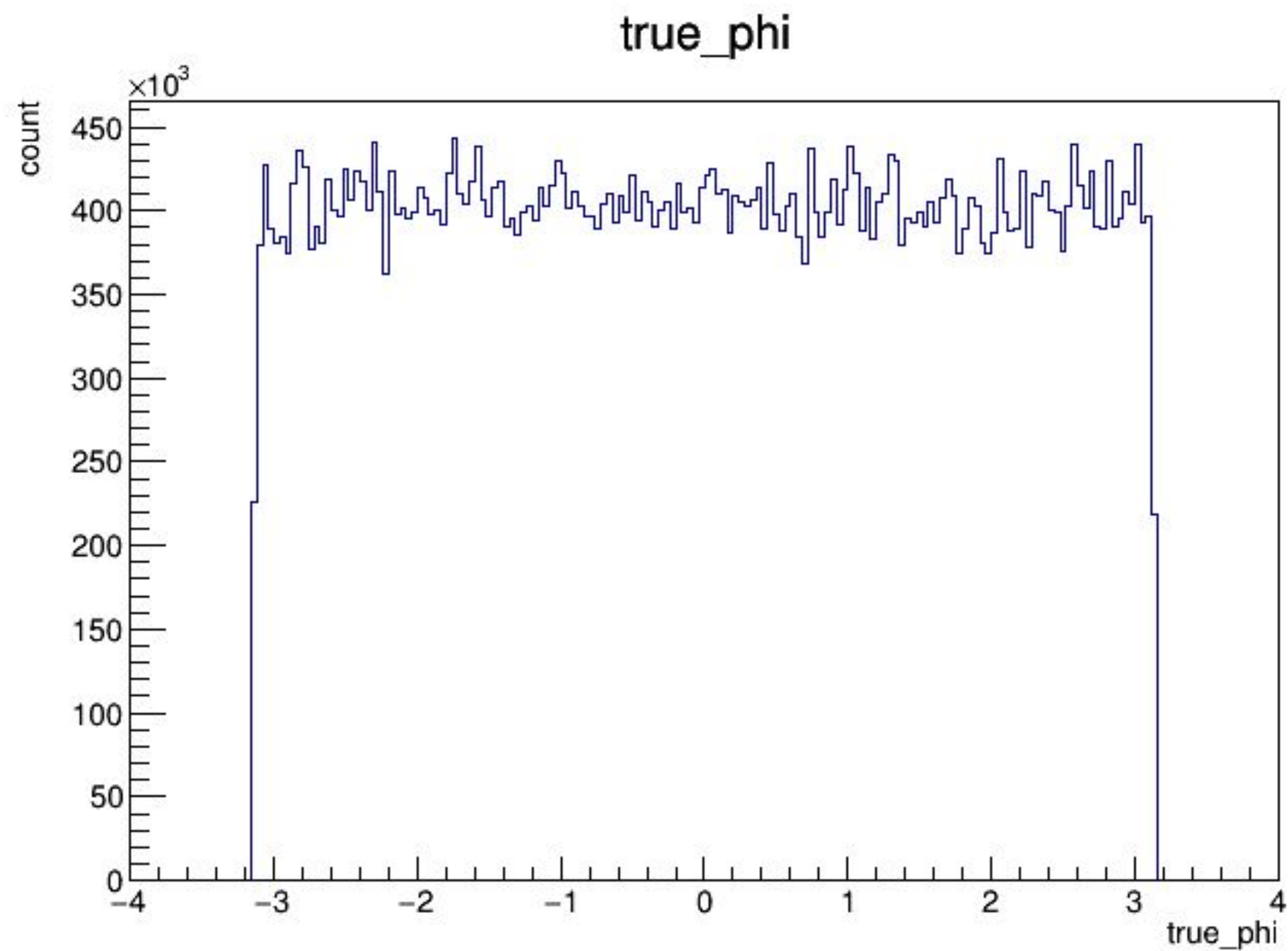
Momentum distribution



Kaon

CEMC

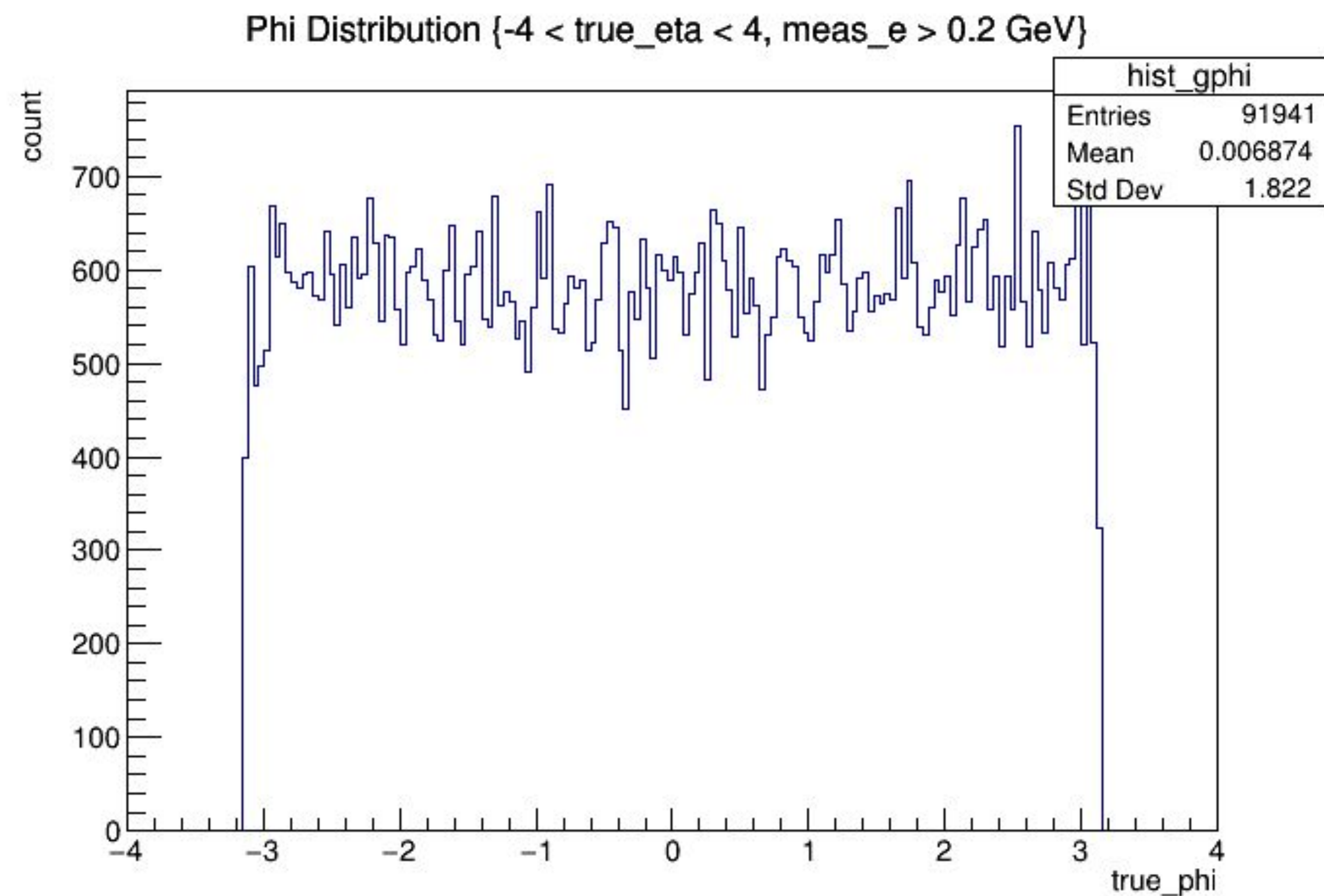
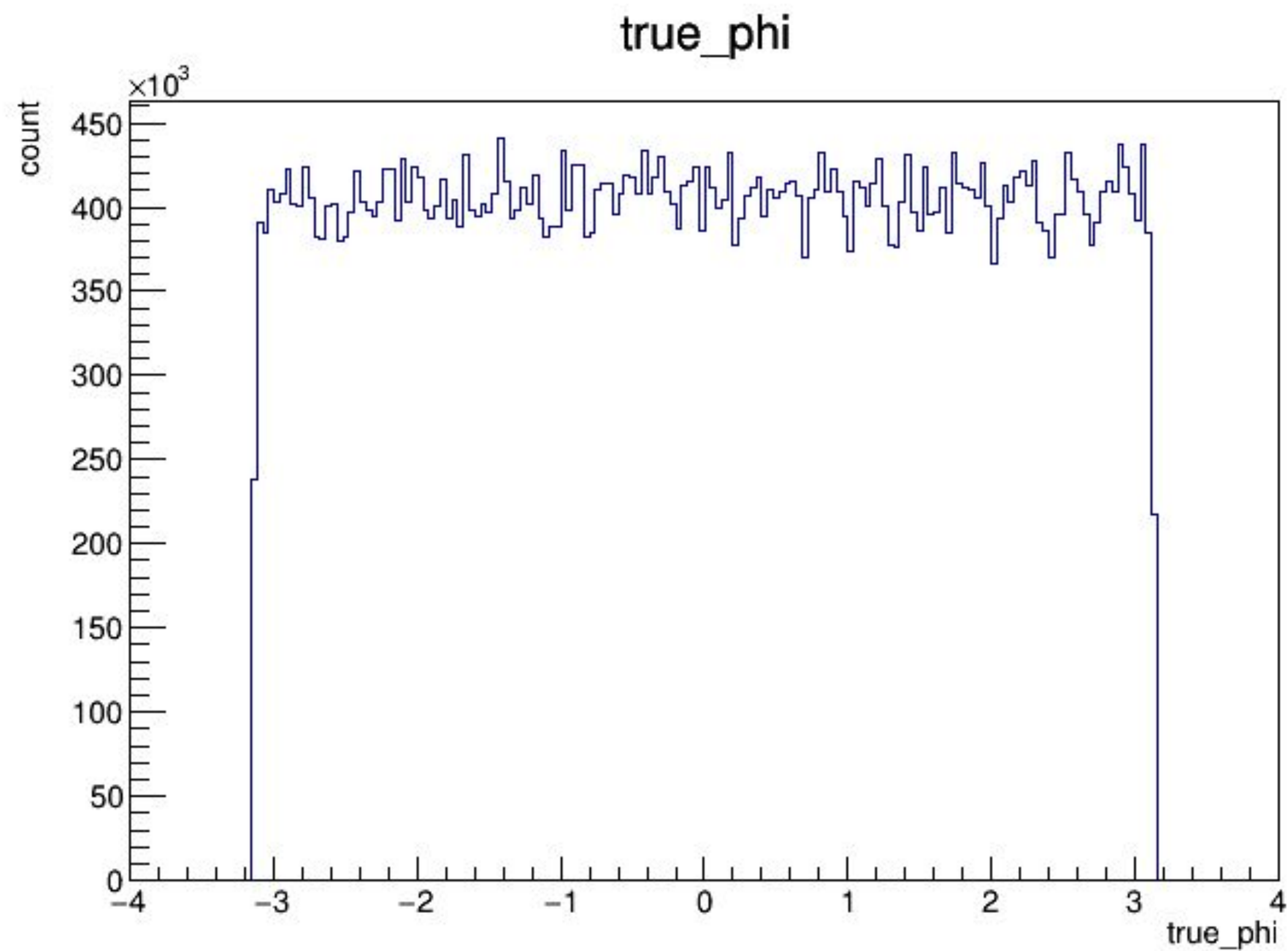
Phi distribution



Electron

CEMC

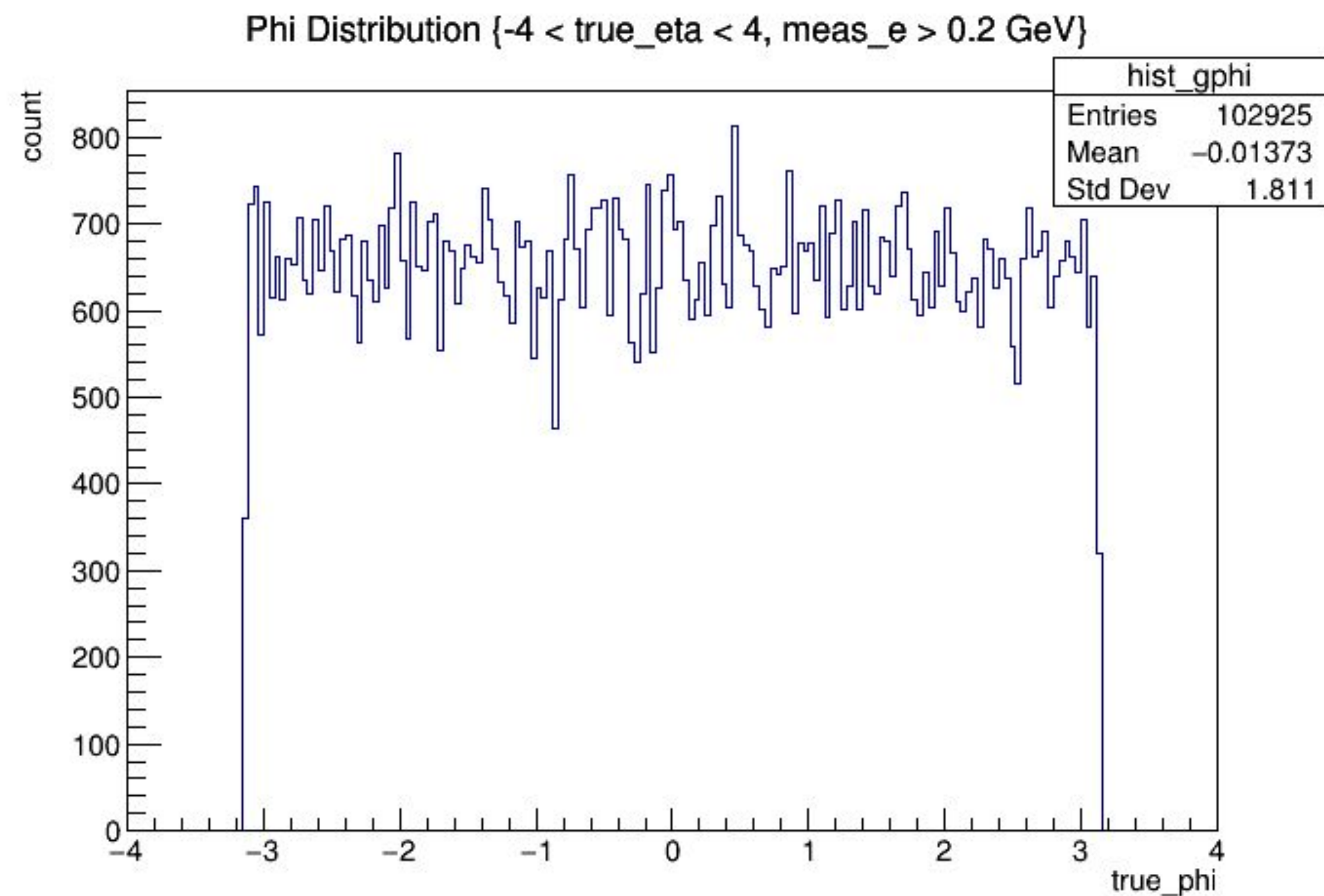
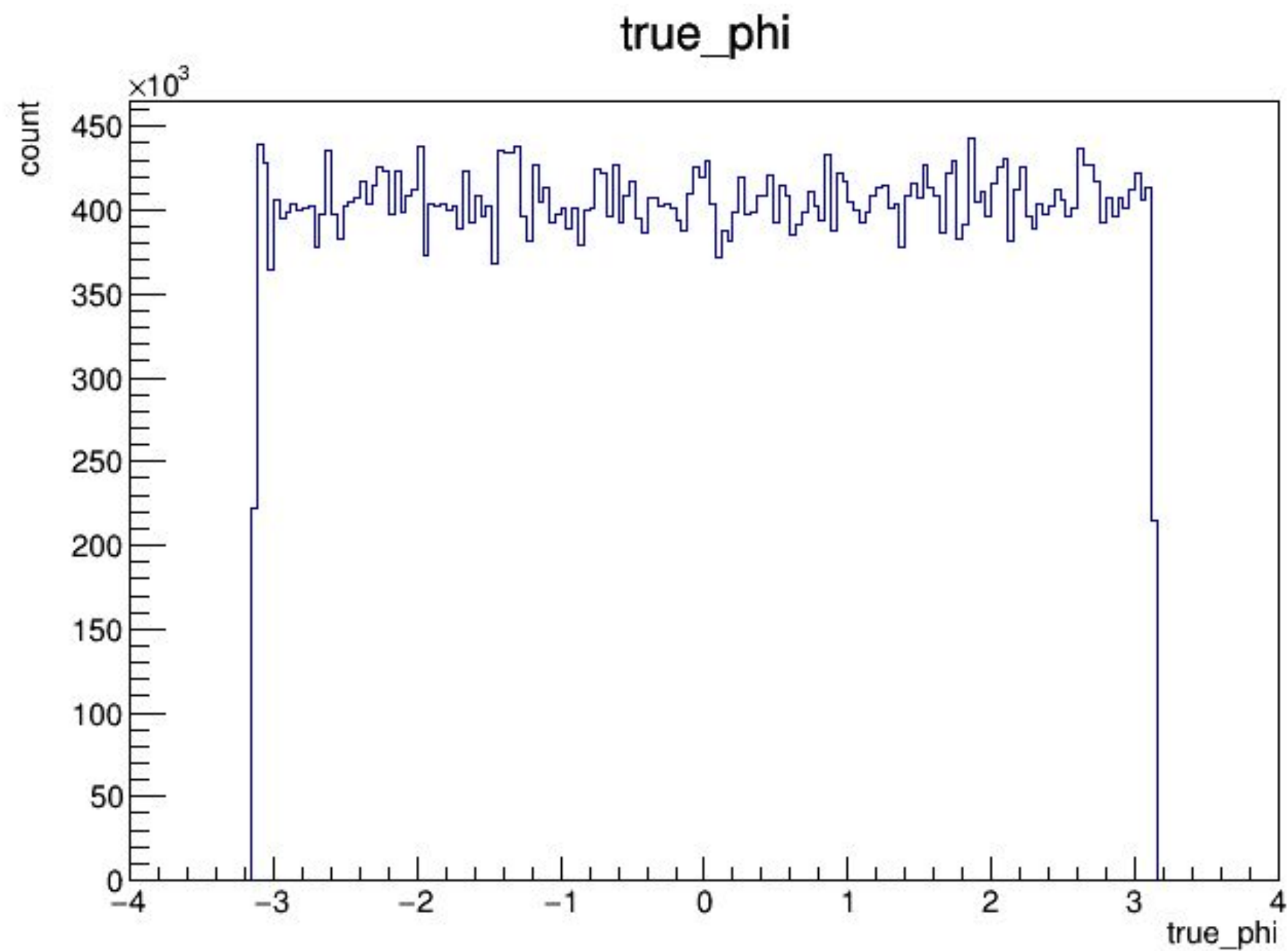
Phi distribution



Pion

CEMC

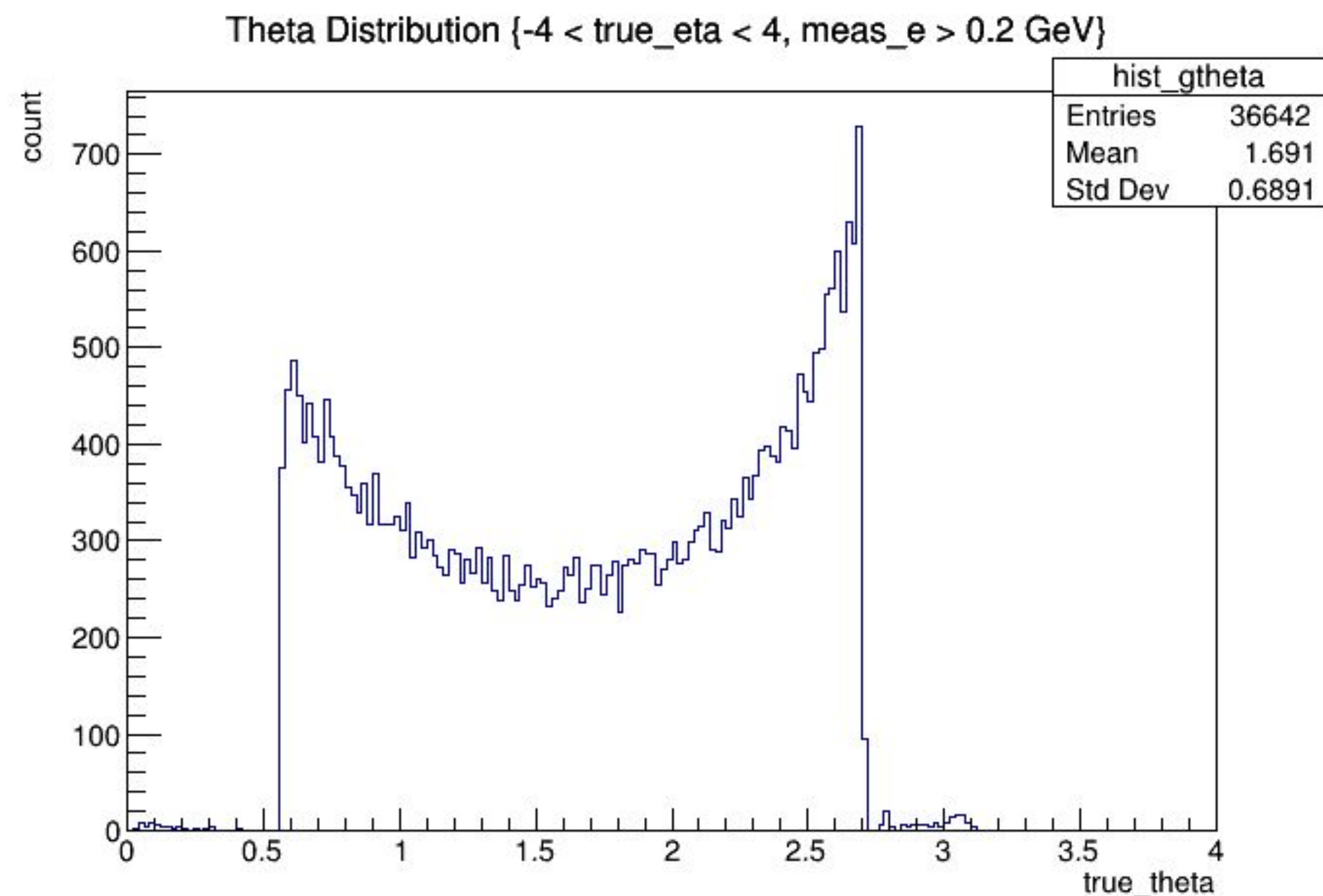
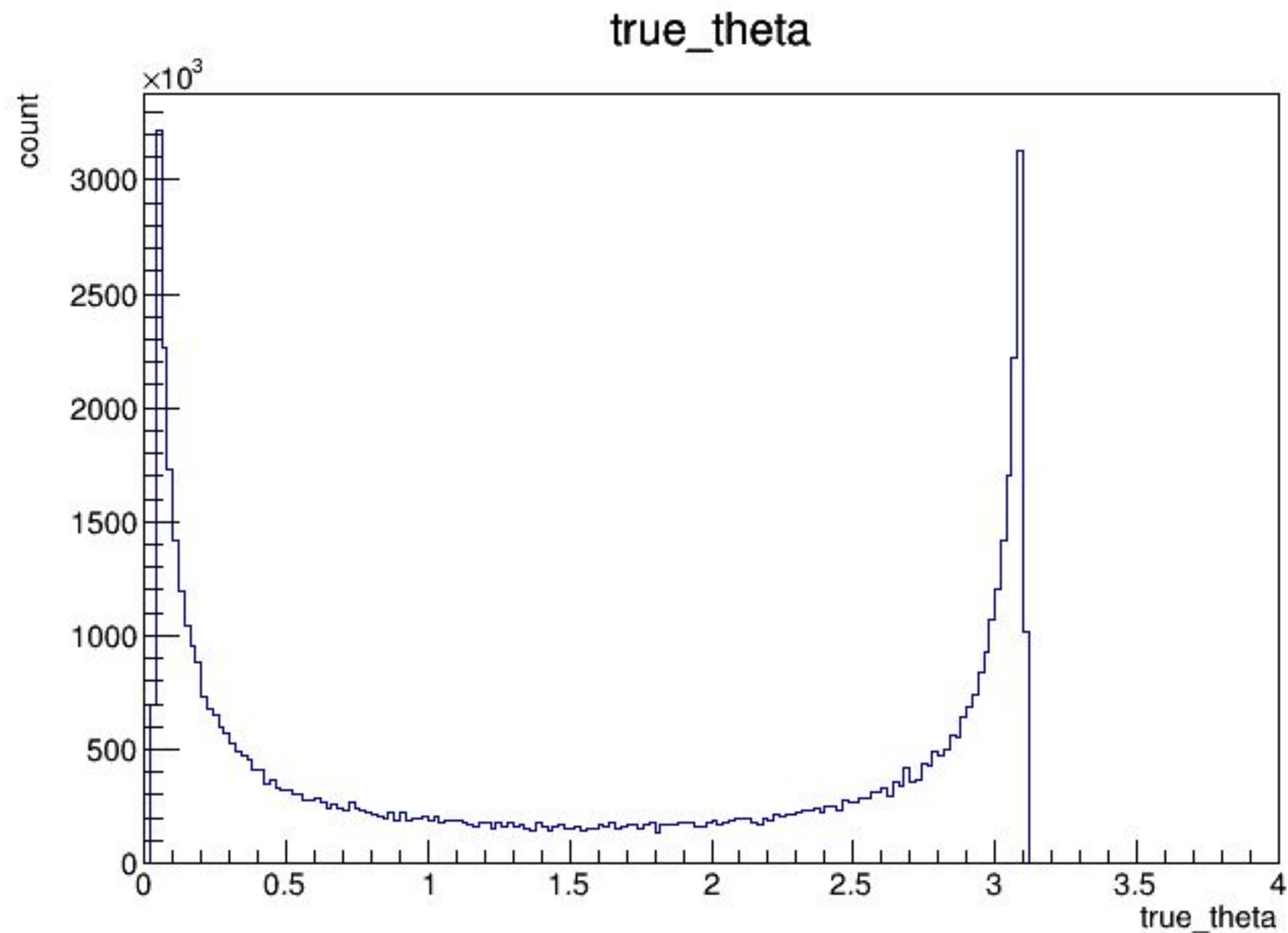
Phi distribution



Kaon

CEMC

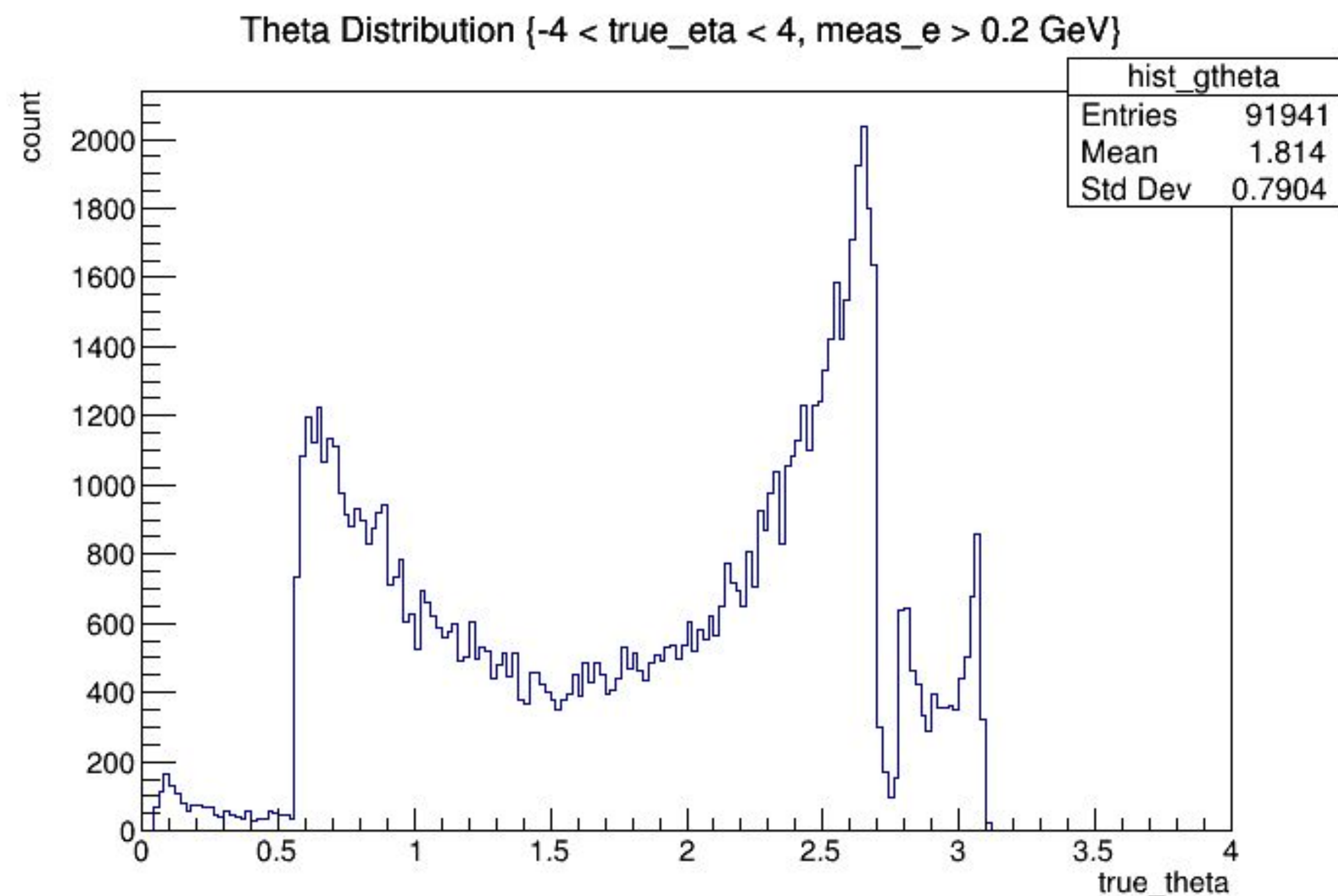
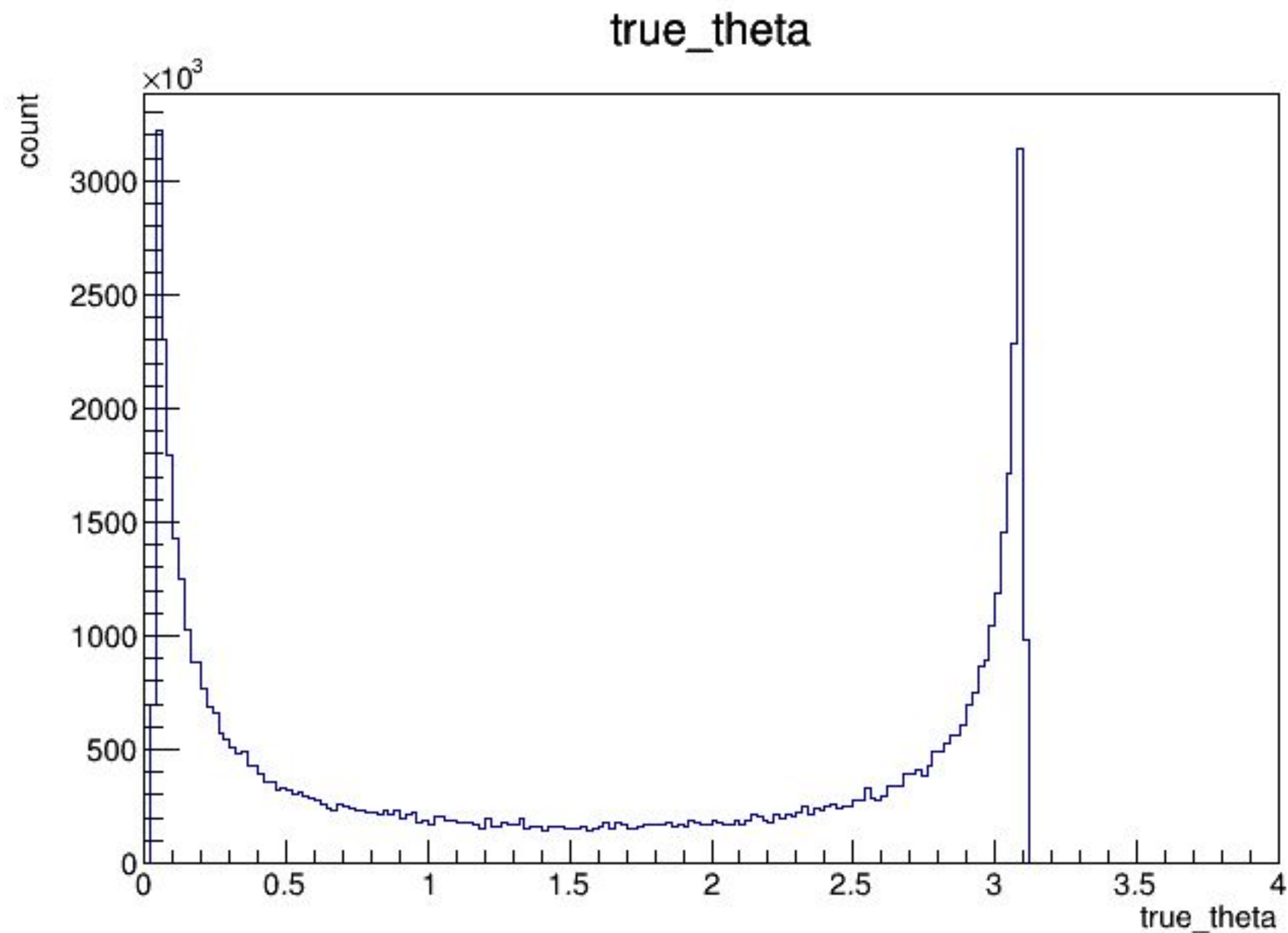
Theta distribution



Electron

CEMC

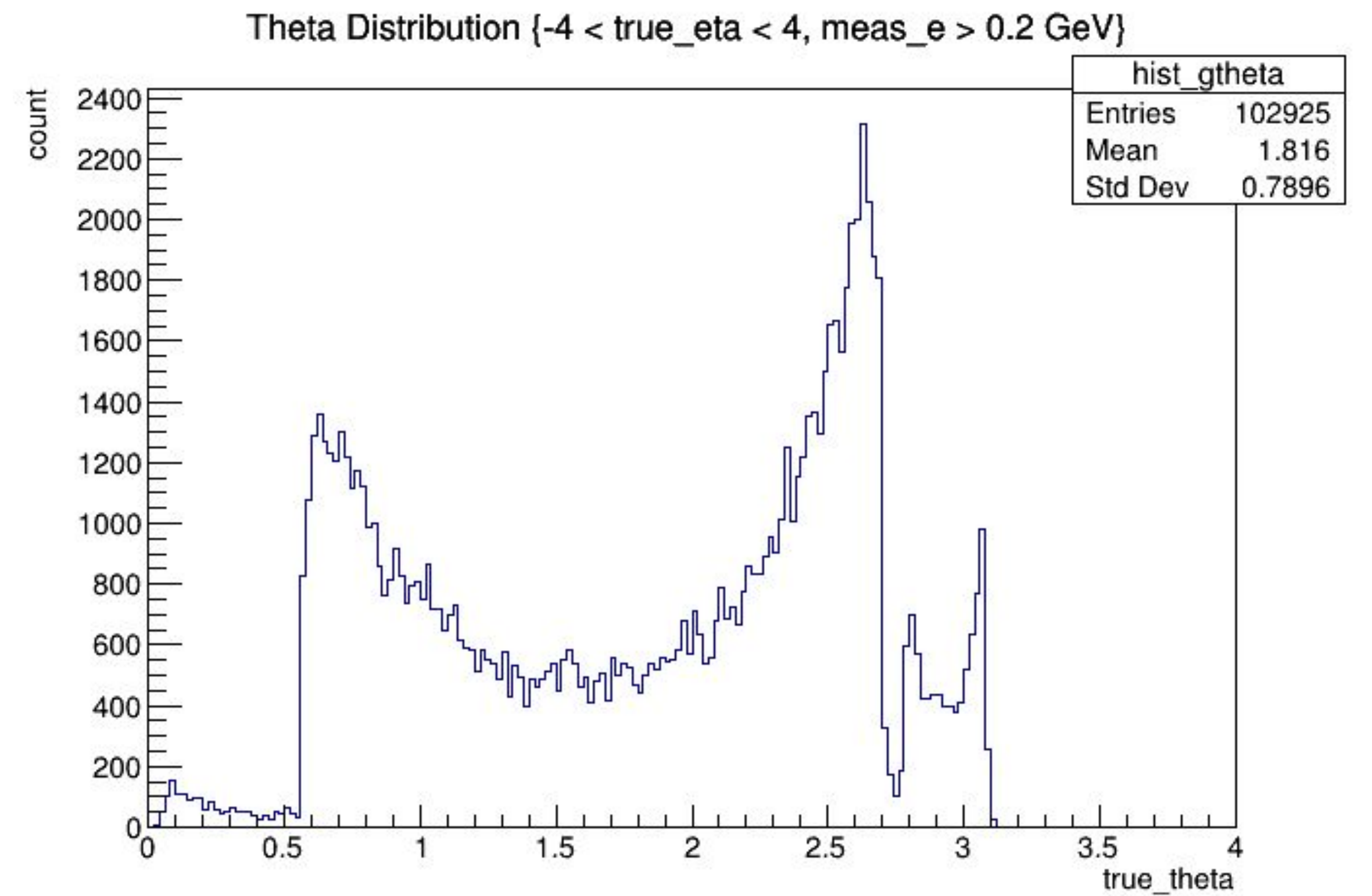
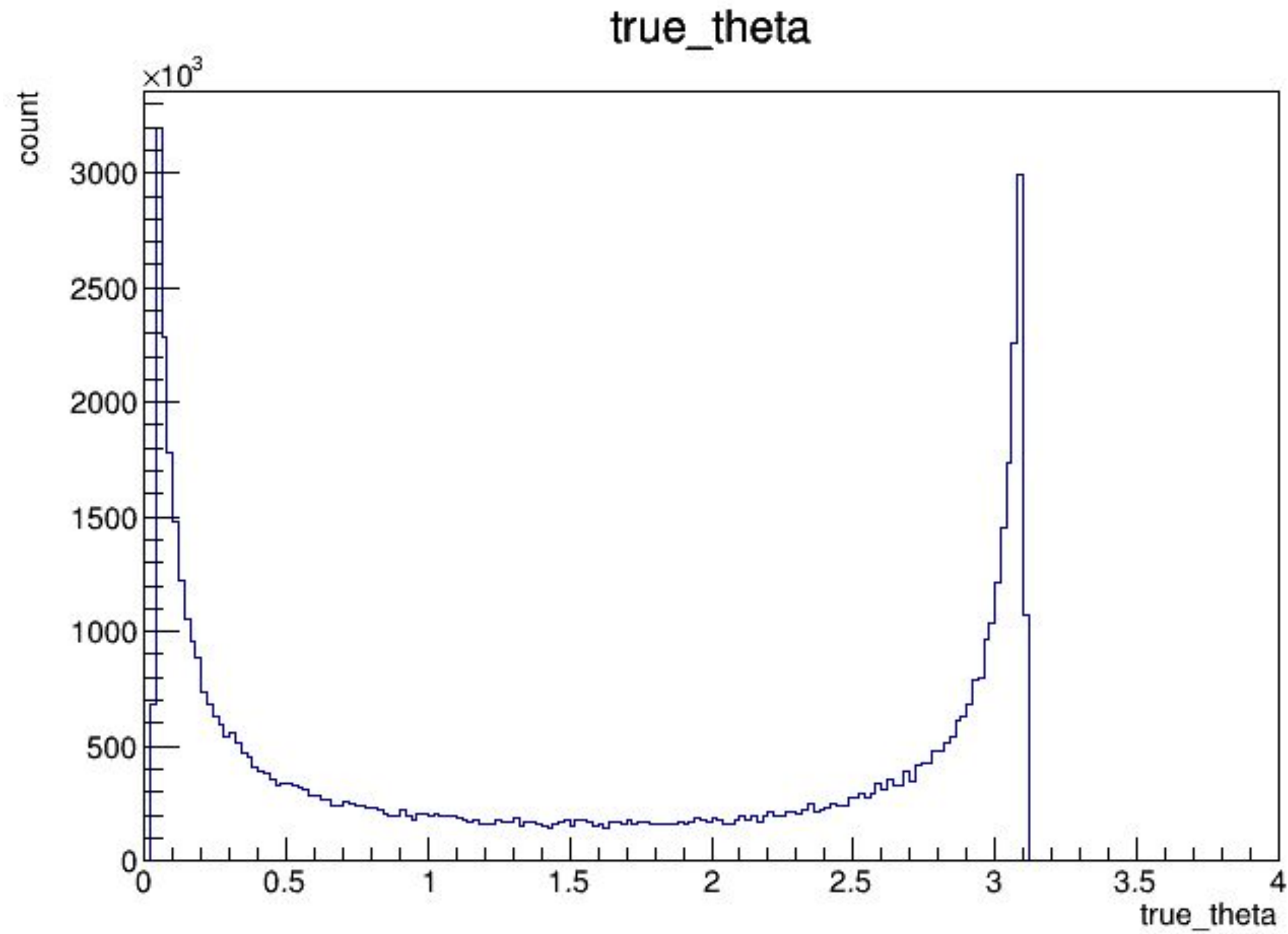
Theta distribution



Pion

CEMC

Theta distribution

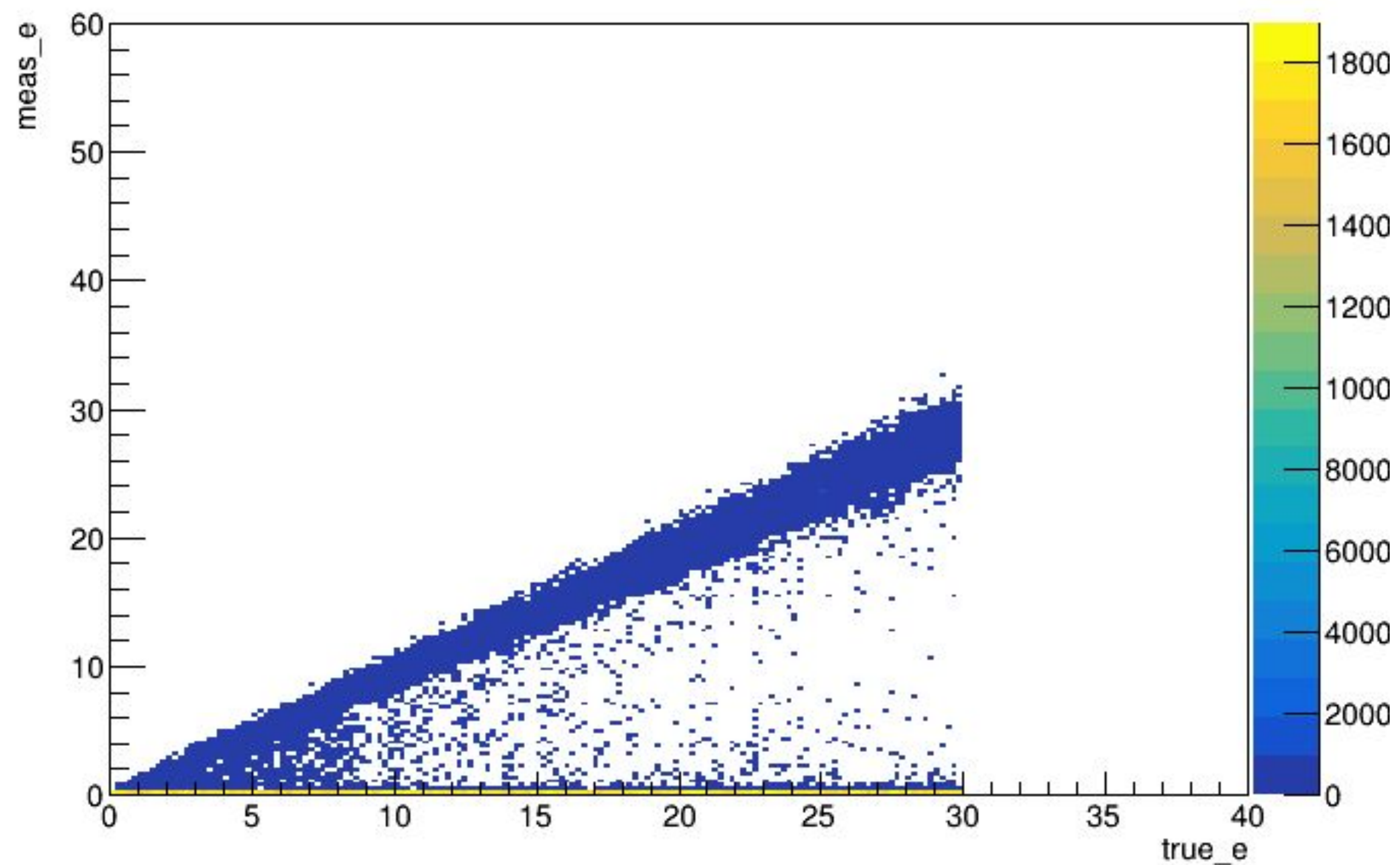


Kaon

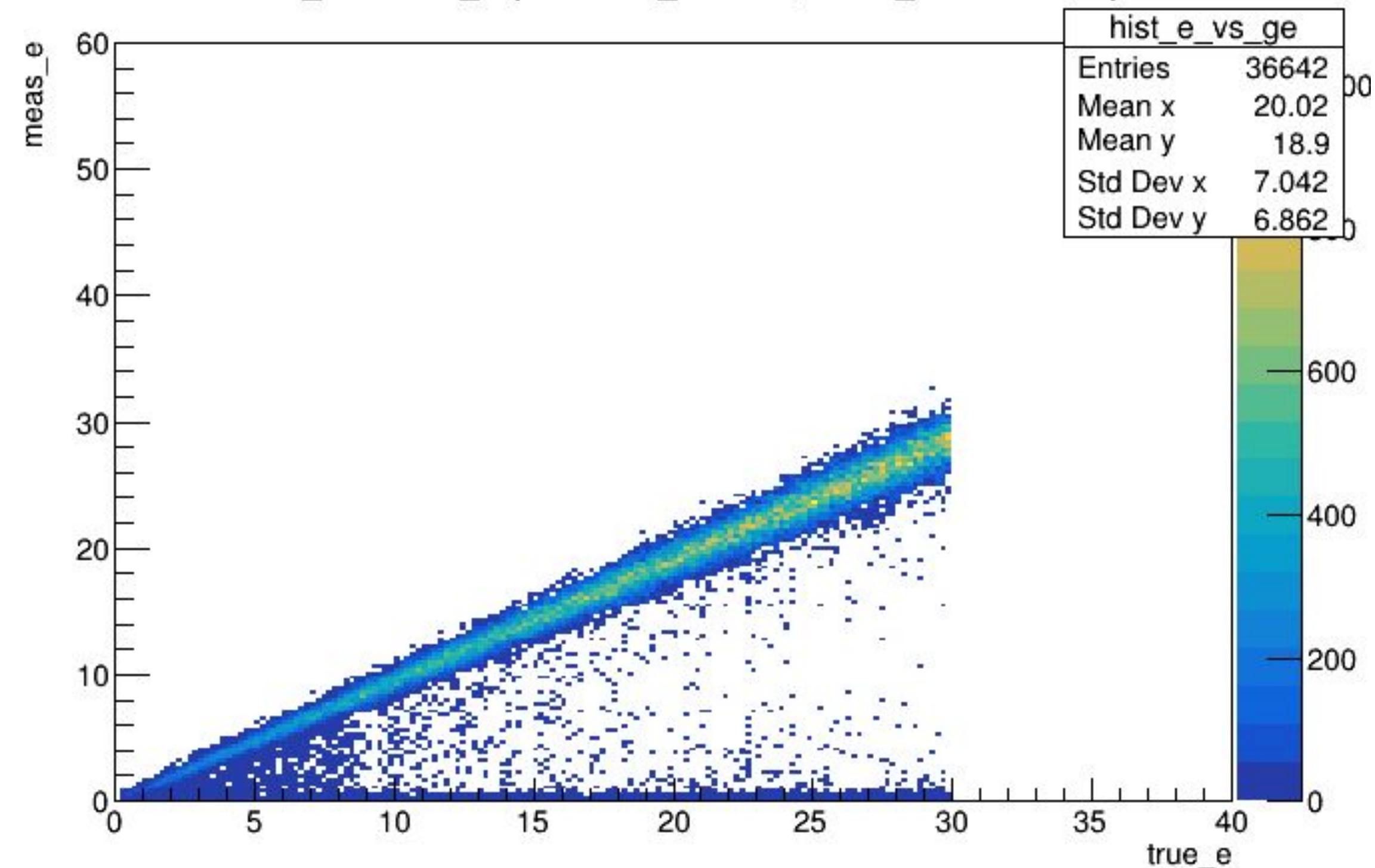
CEMC

e vs ge

meas_e vs true_e



meas_e vs true_e $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

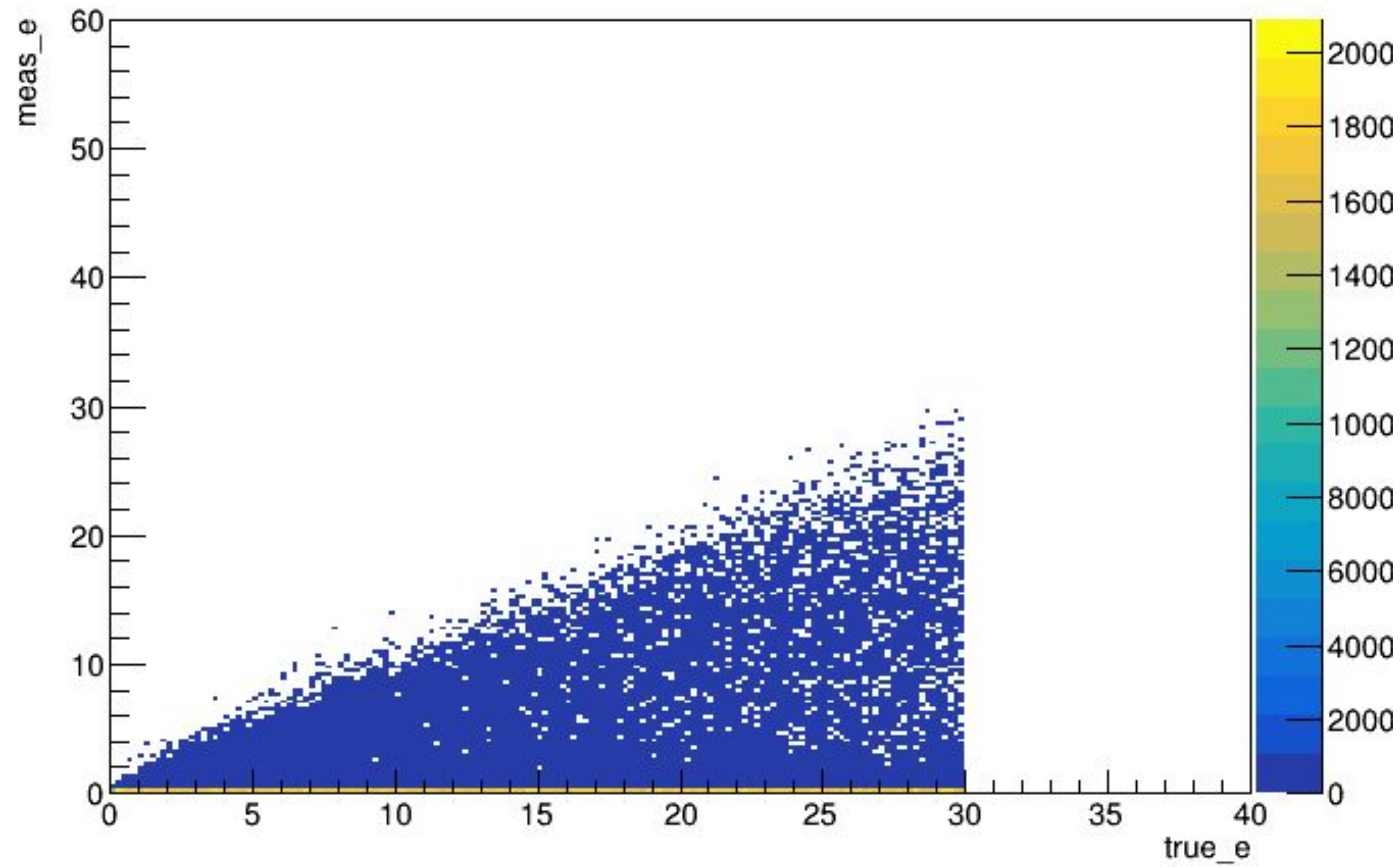


Electron

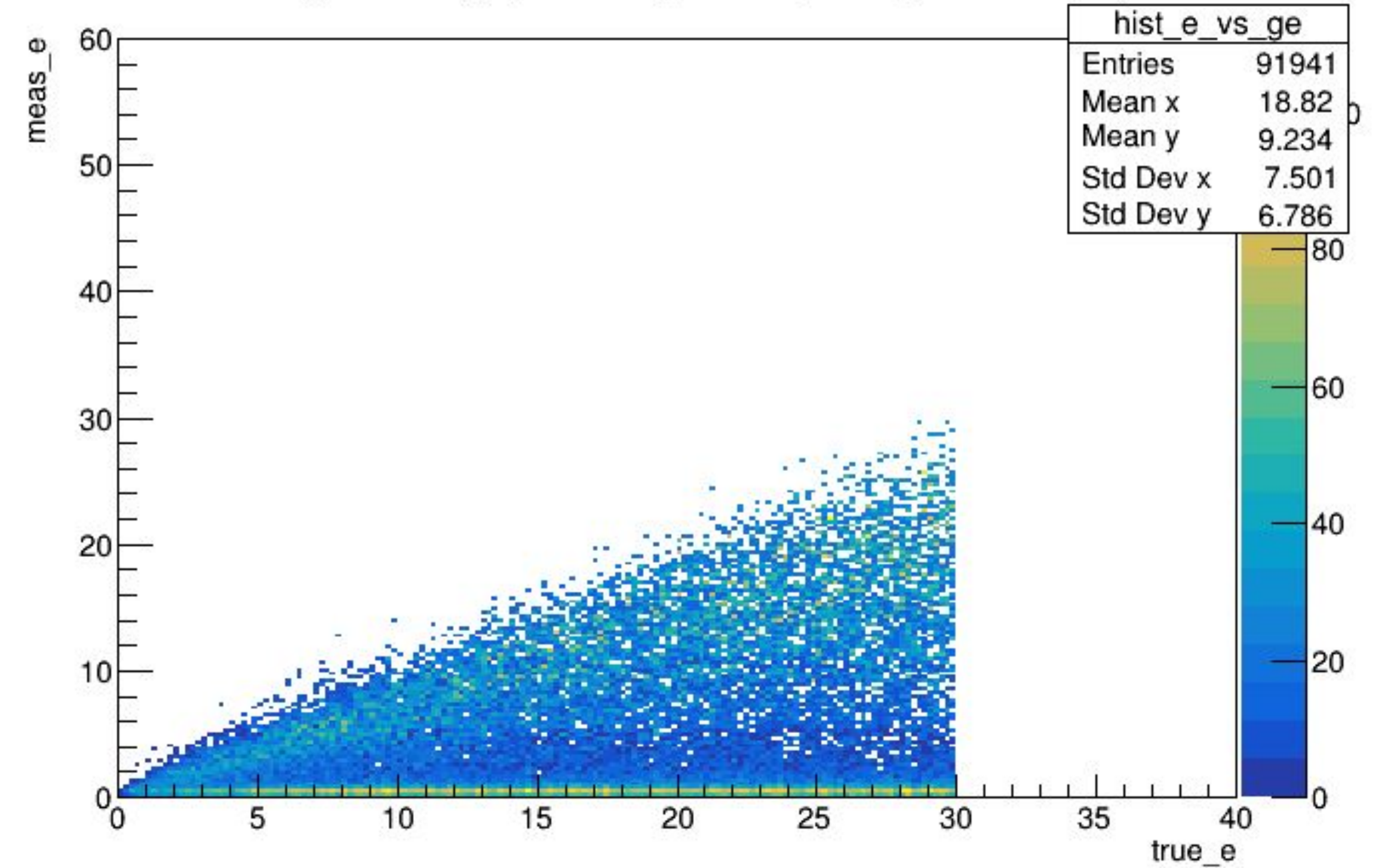
CEMC

e vs ge

meas_e vs true_e



meas_e vs true_e $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

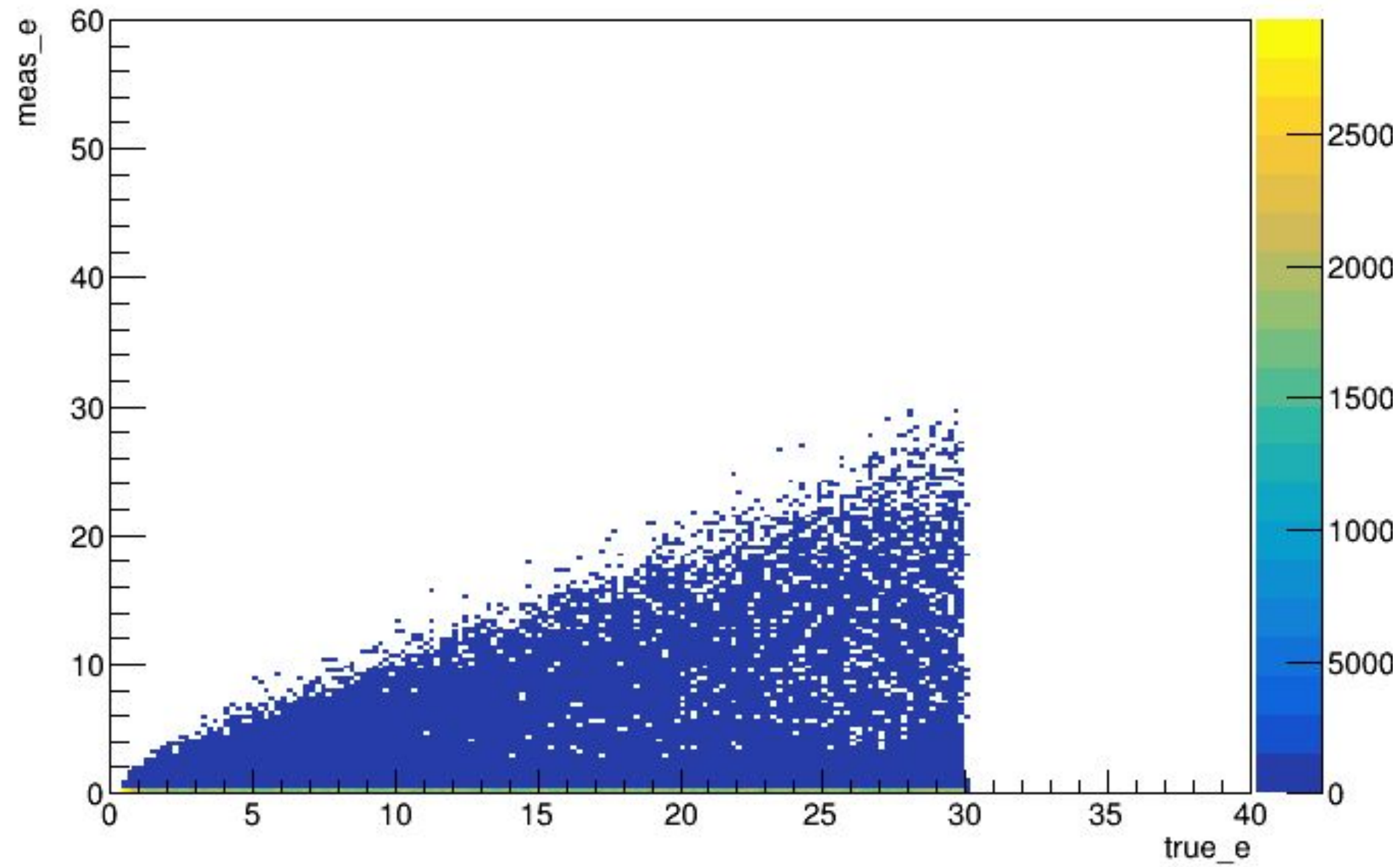


Pion

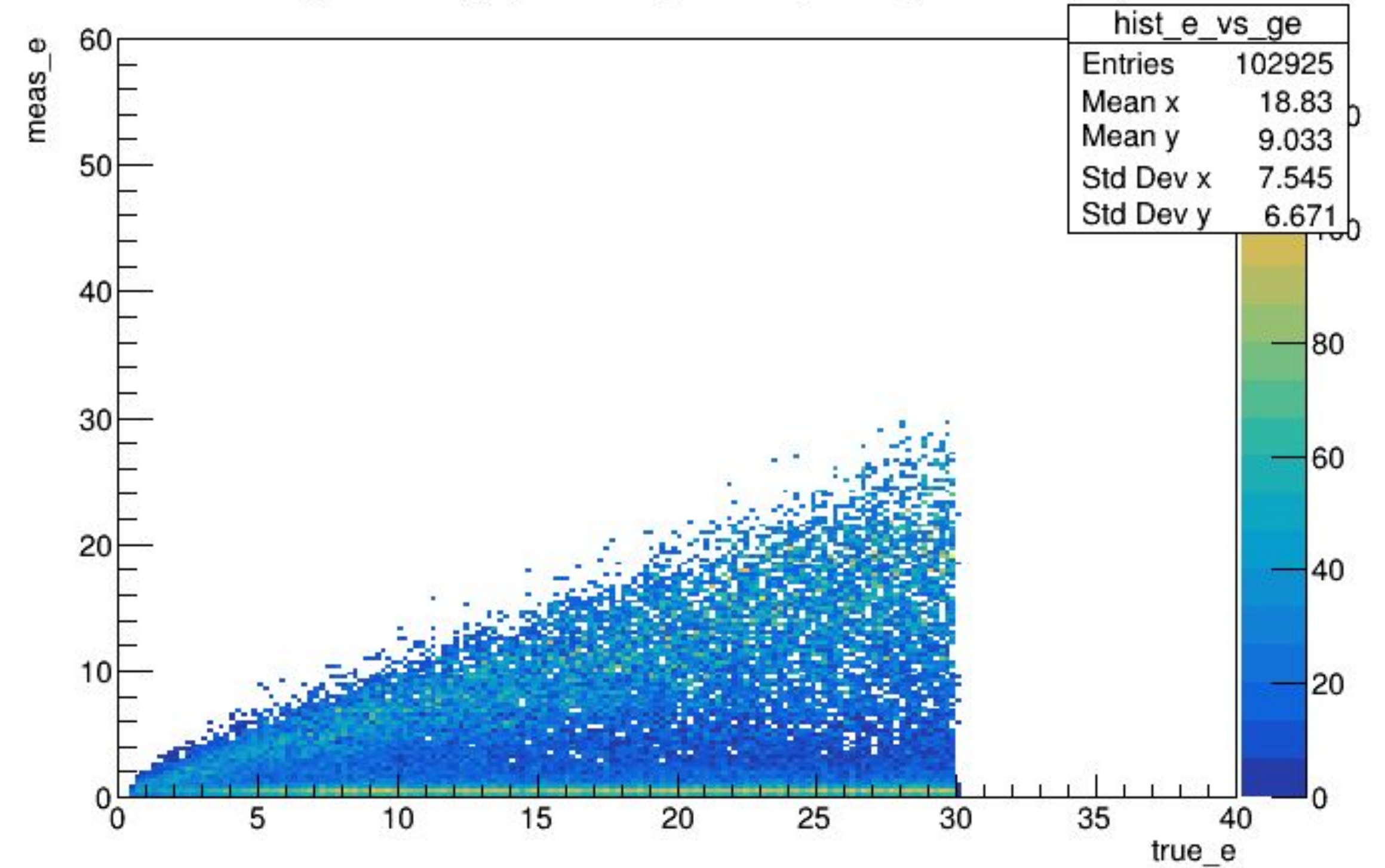
CEMC

e vs ge

meas_e vs true_e



meas_e vs true_e $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

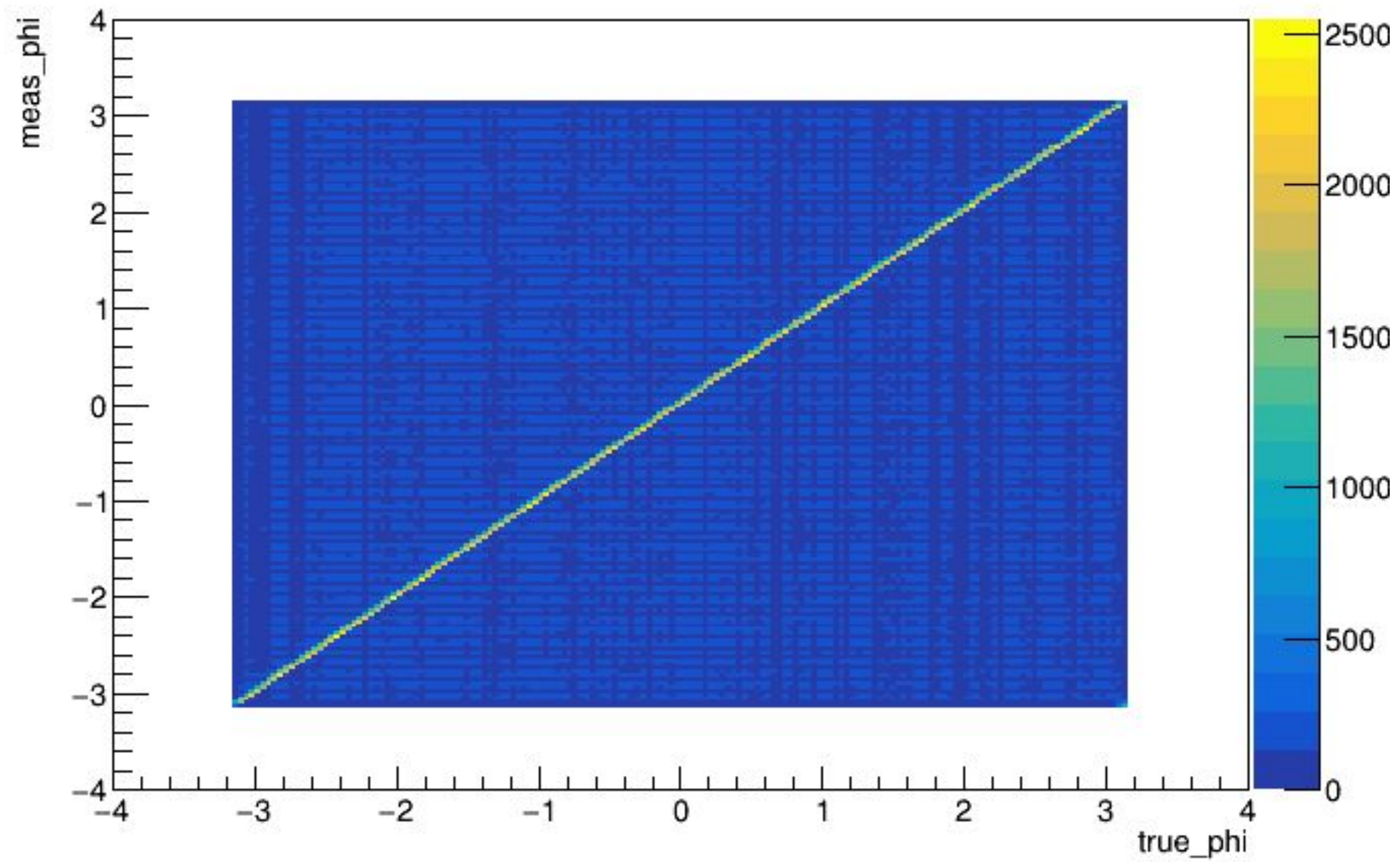


Kaon

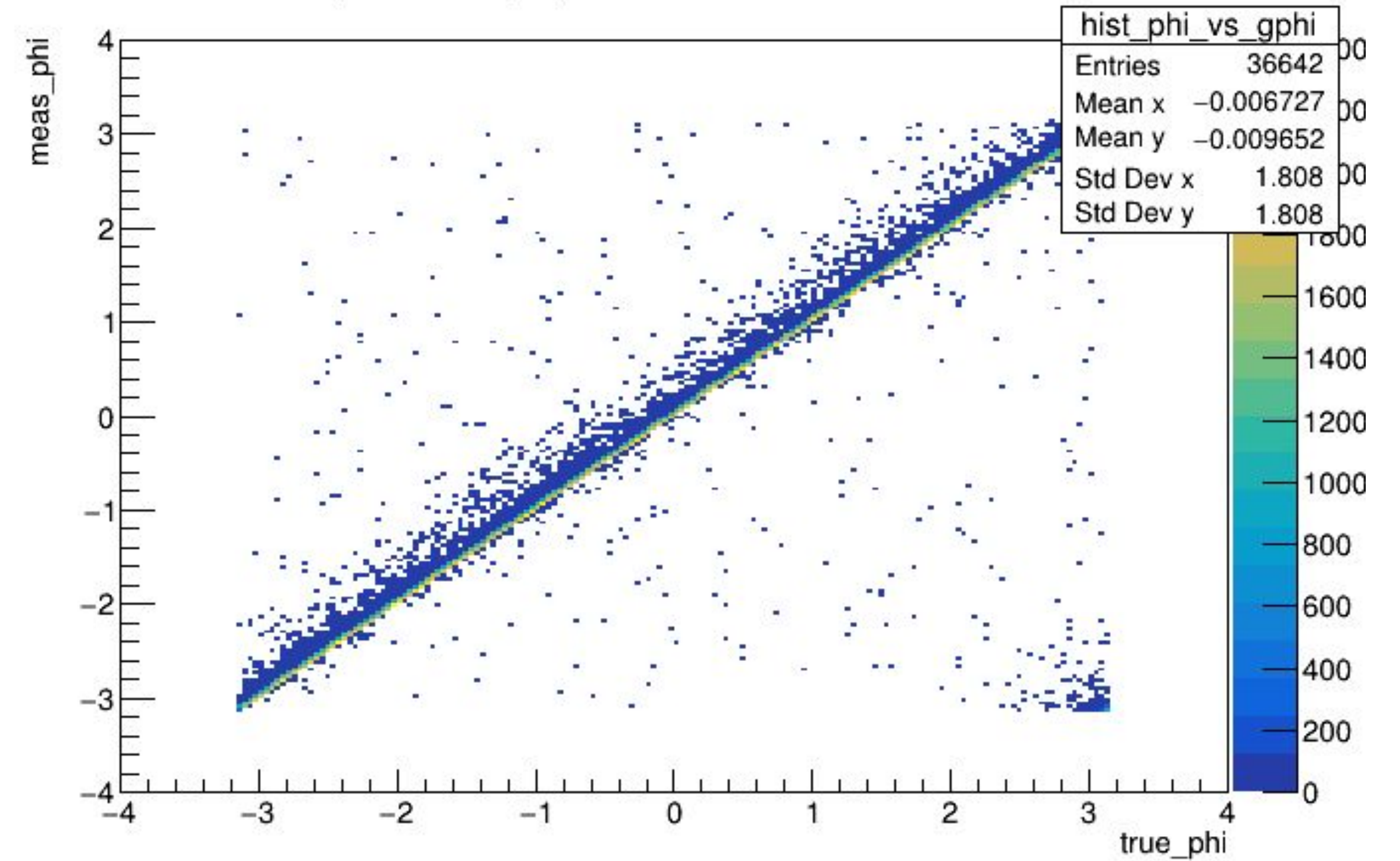
CEMC

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

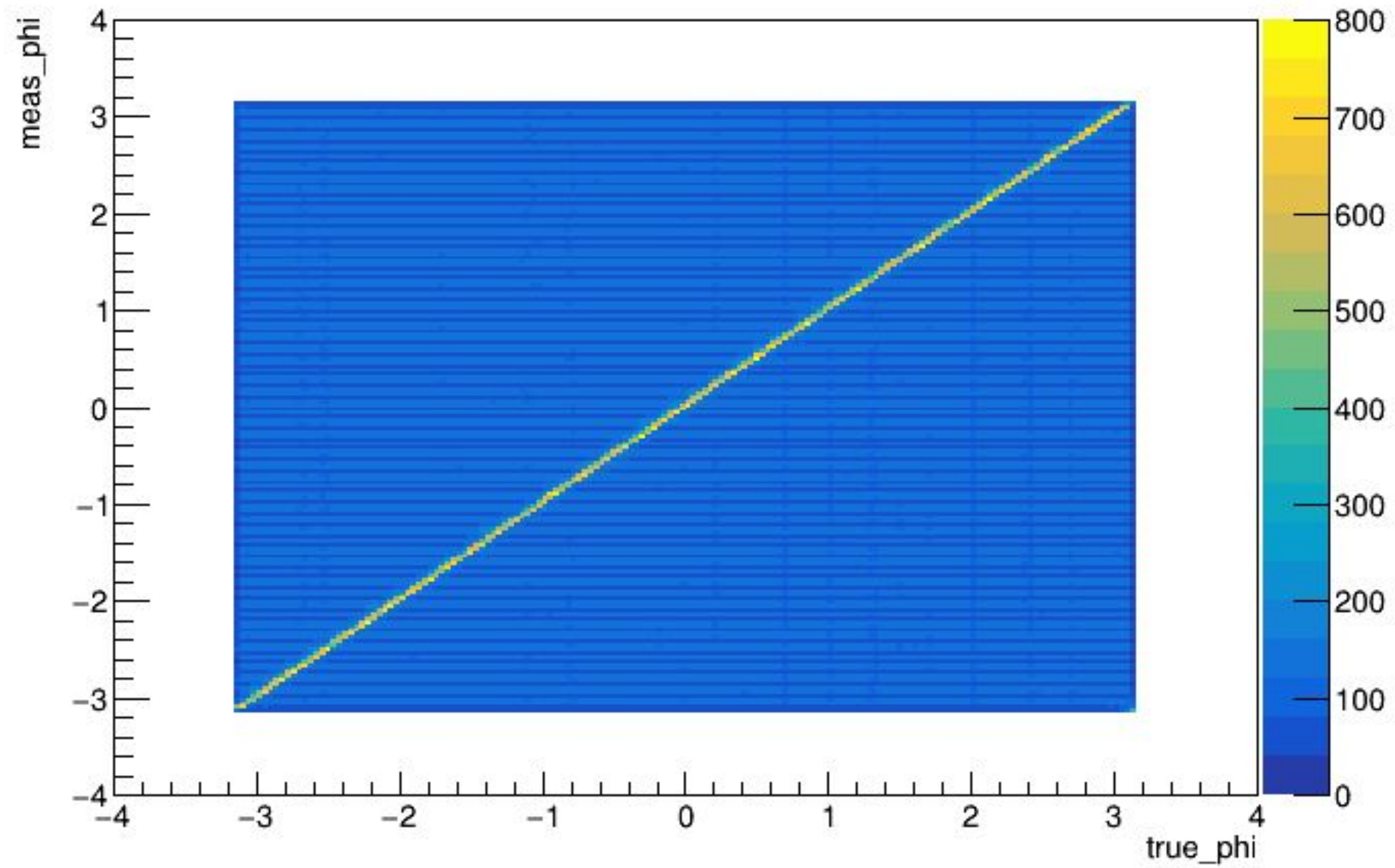


Electron

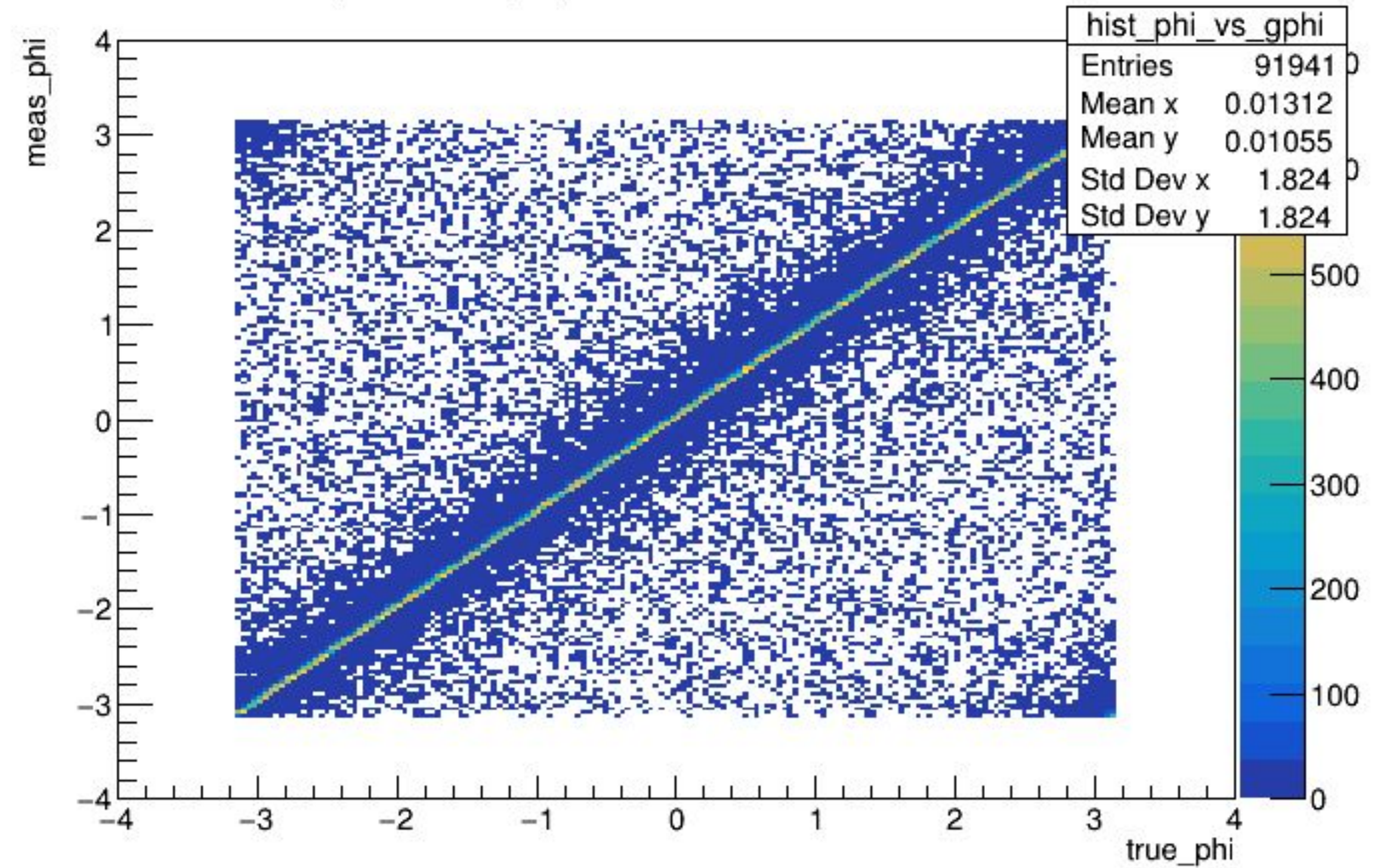
CEMC

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

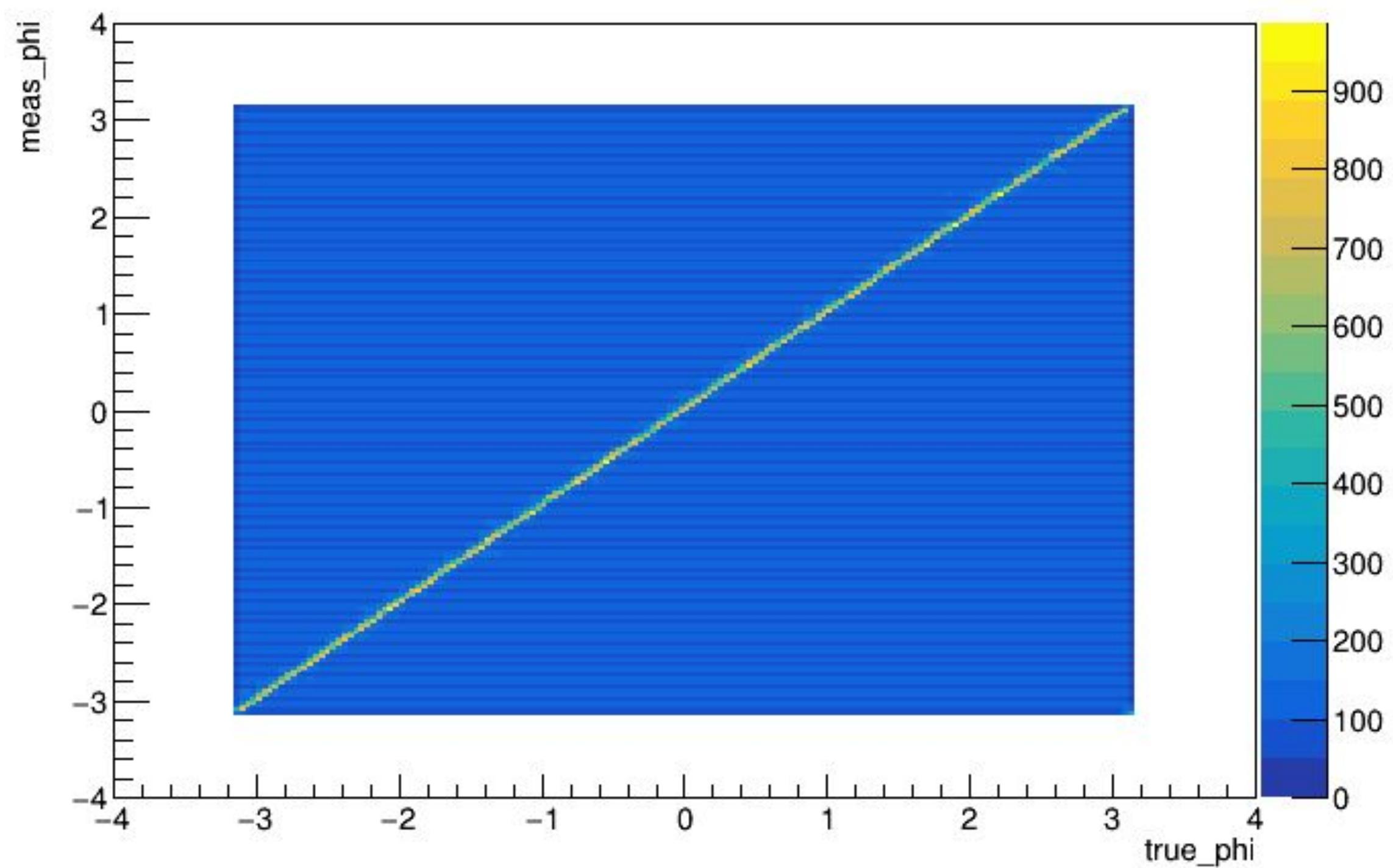


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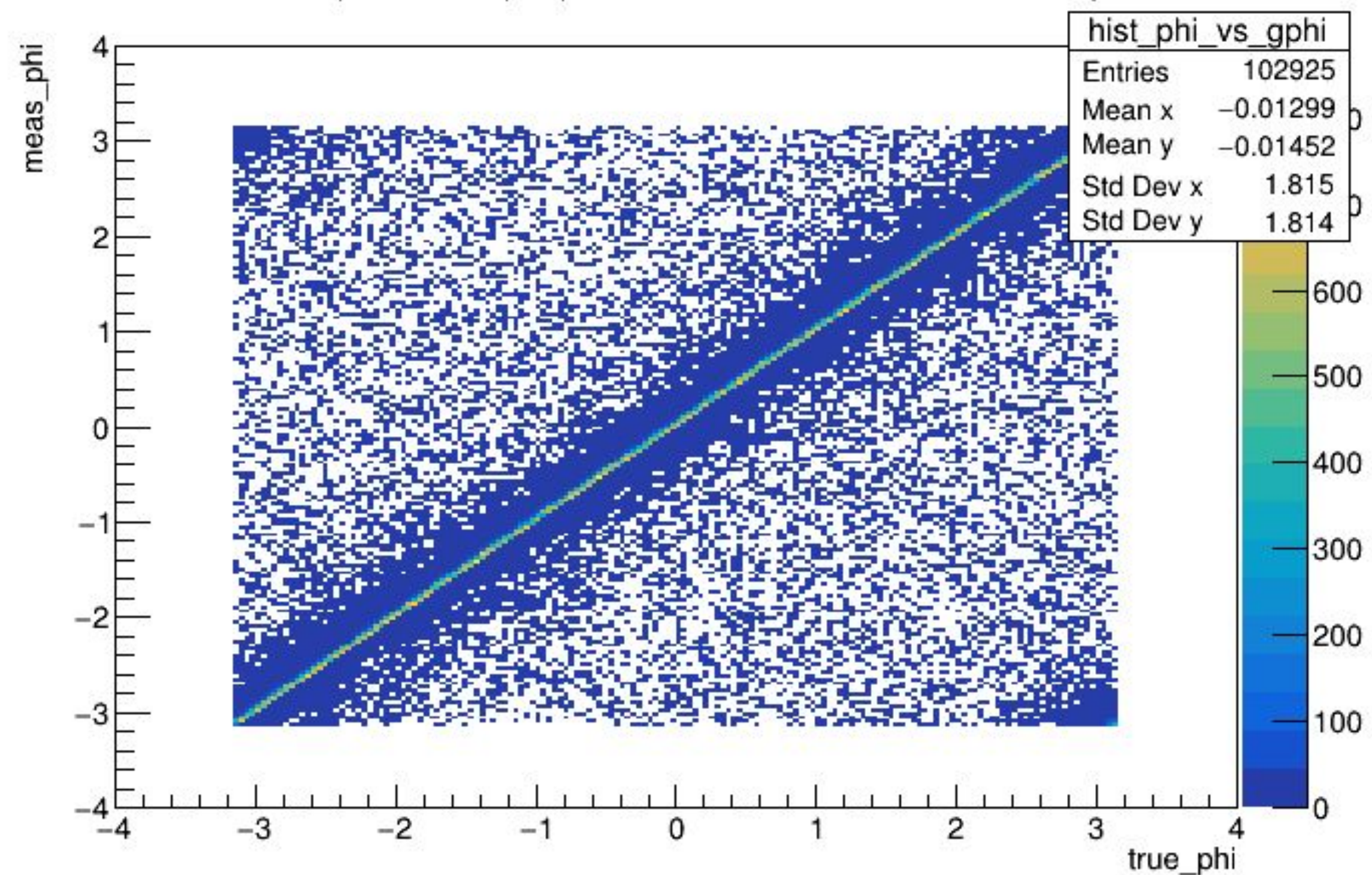
CEMC

phi vs gphi

meas_phi vs true_phi



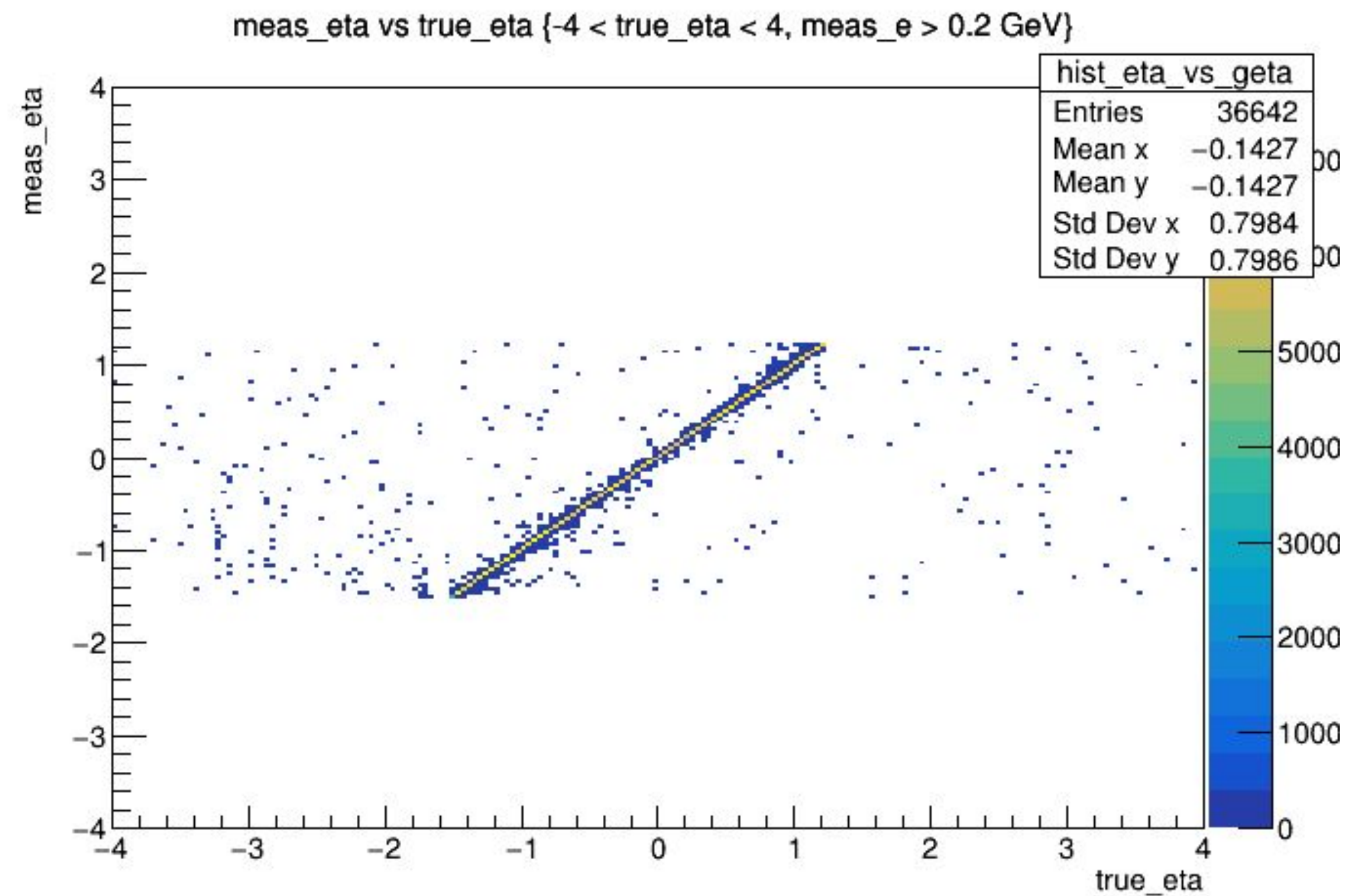
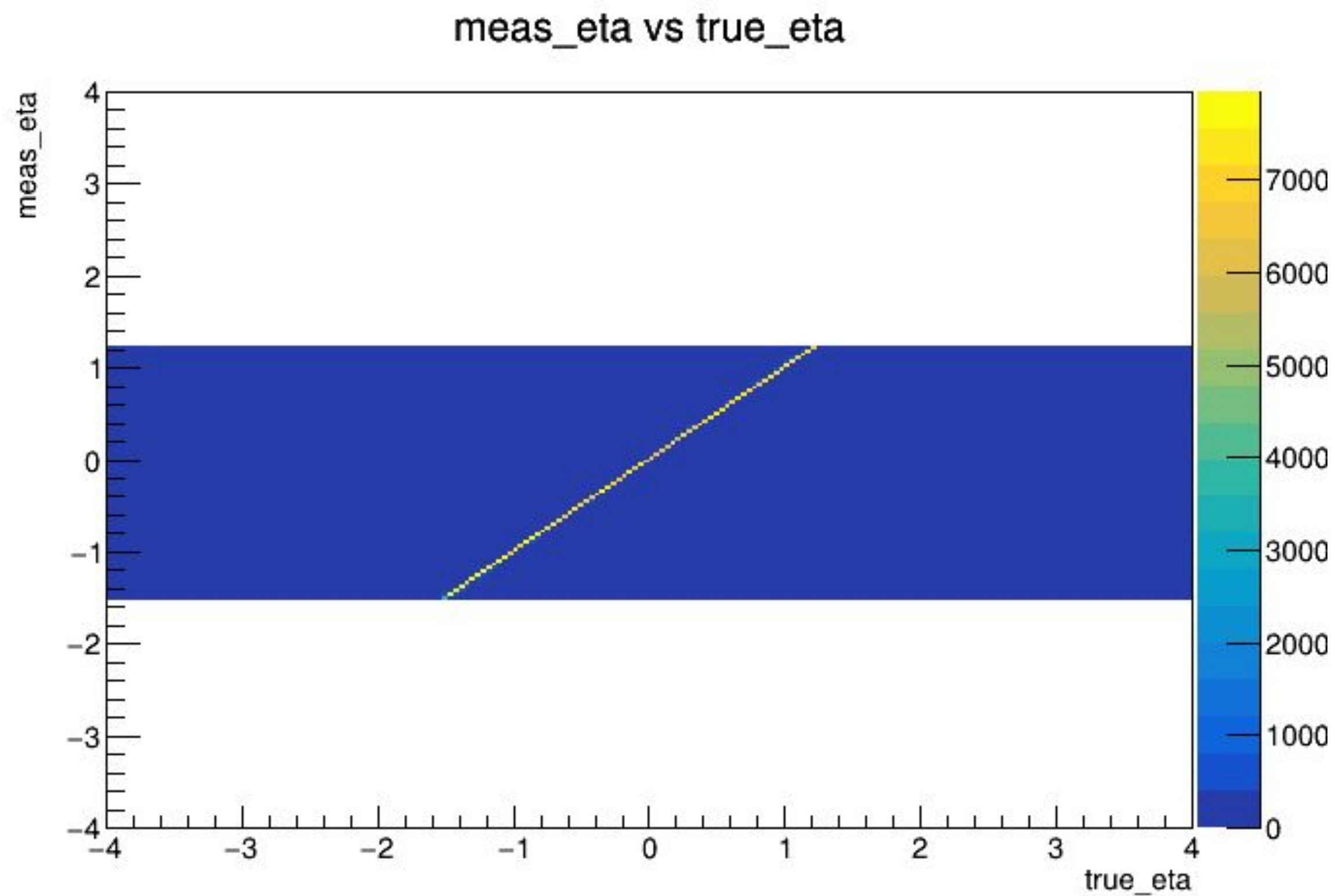
meas_phi vs true_phi $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$



Kaon

CEMC

eta vs geta

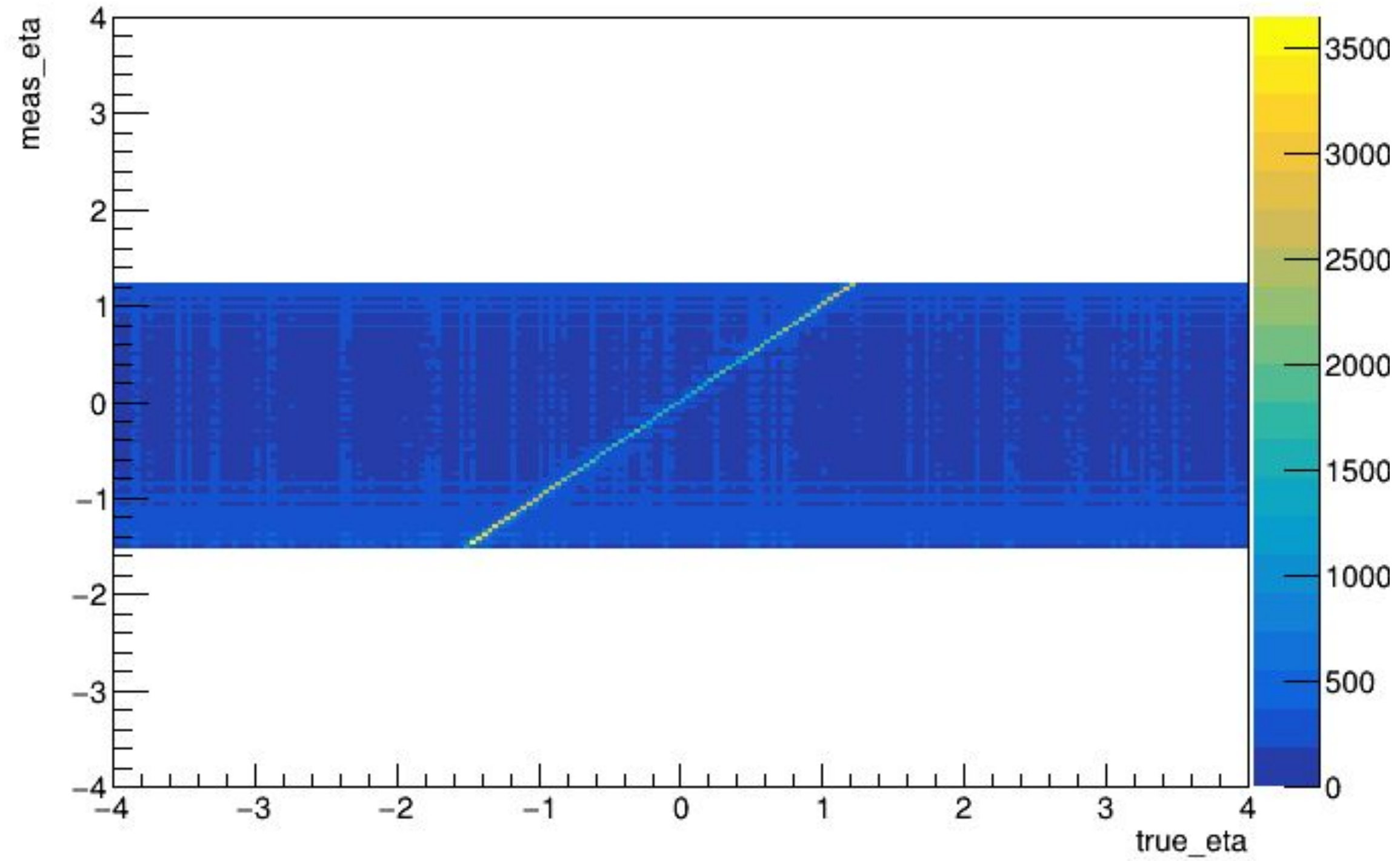


Electron

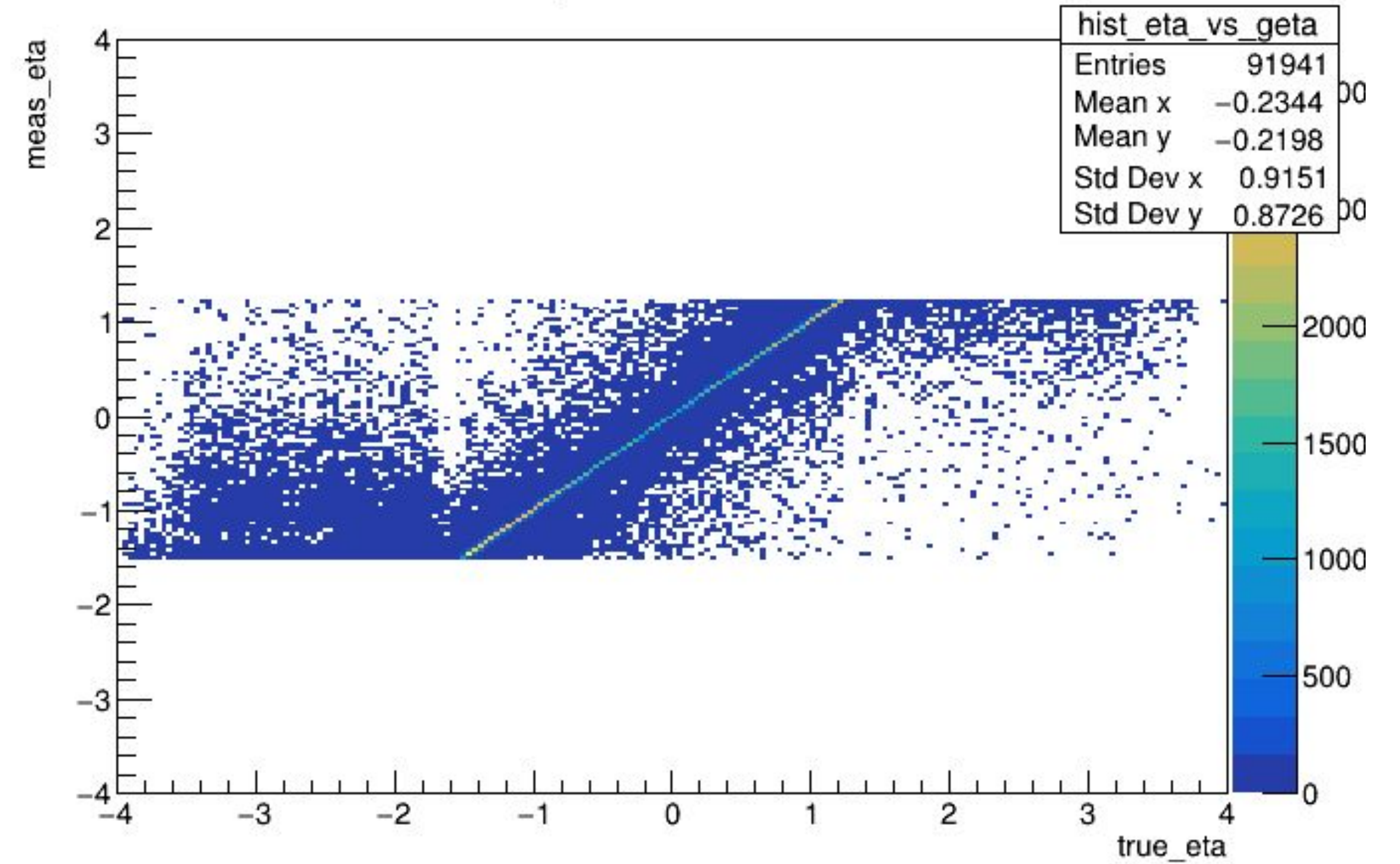
CEMC

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

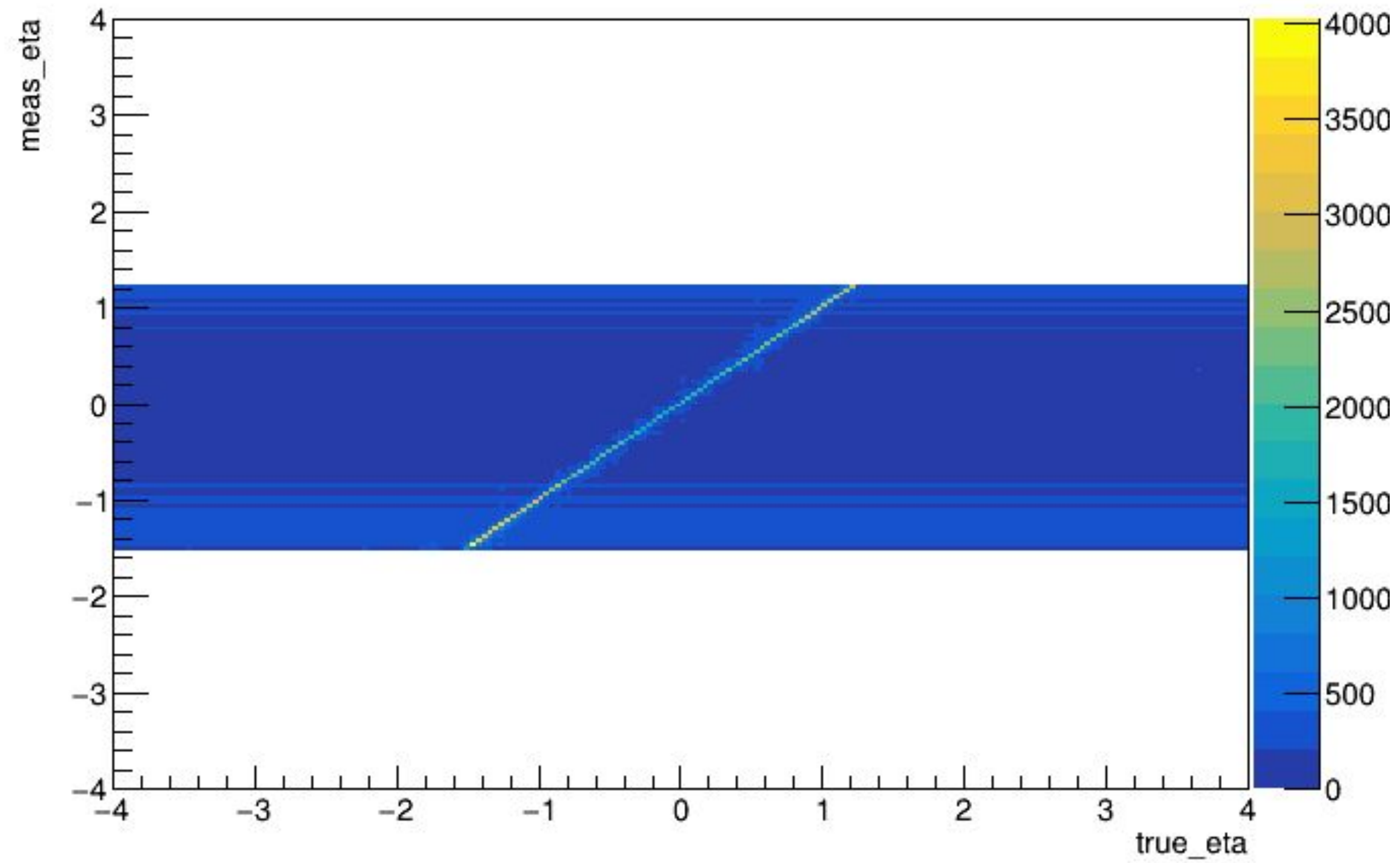


Pion

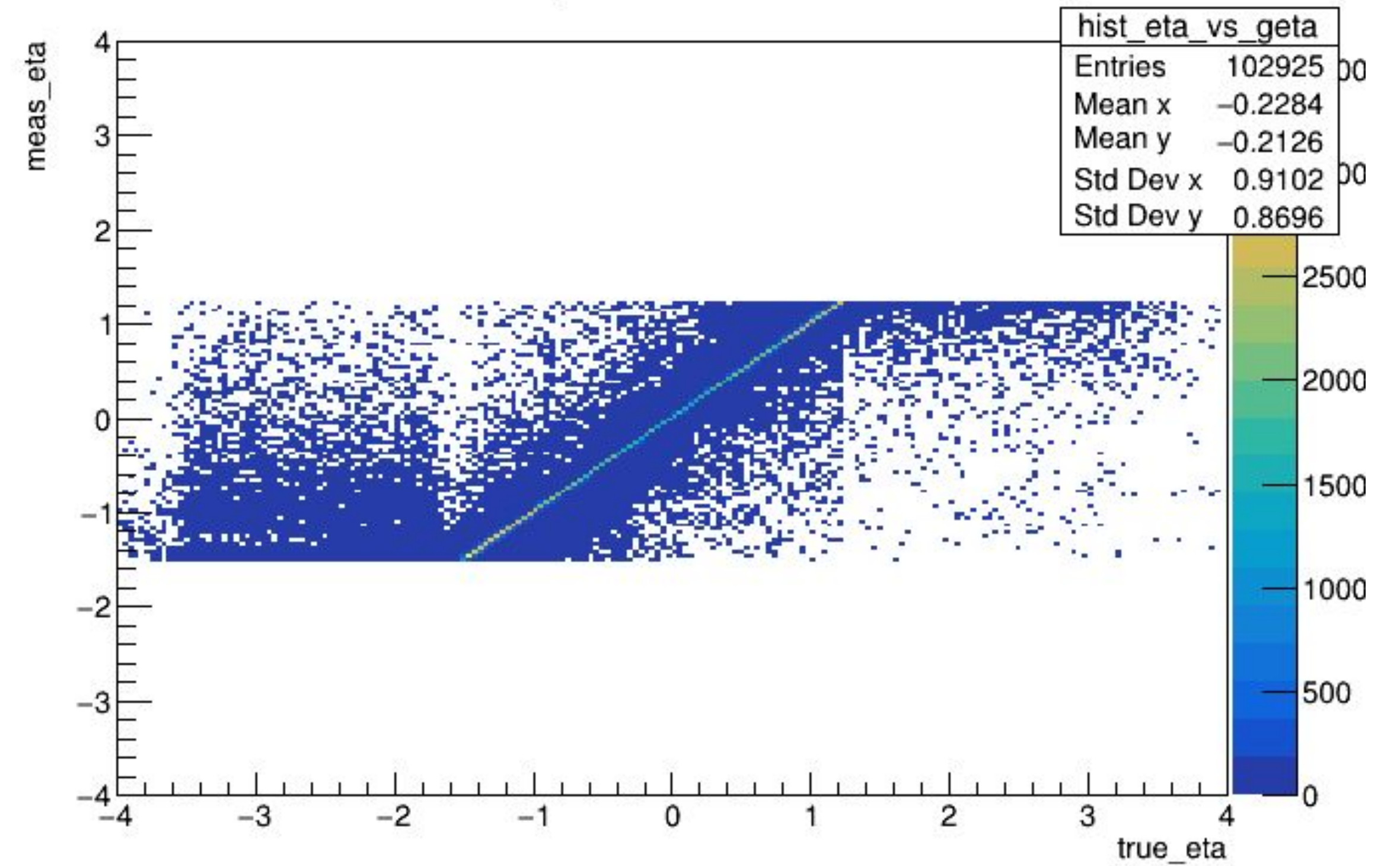
CEMC

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta {-4 < true_eta < 4, meas_e > 0.2 GeV}

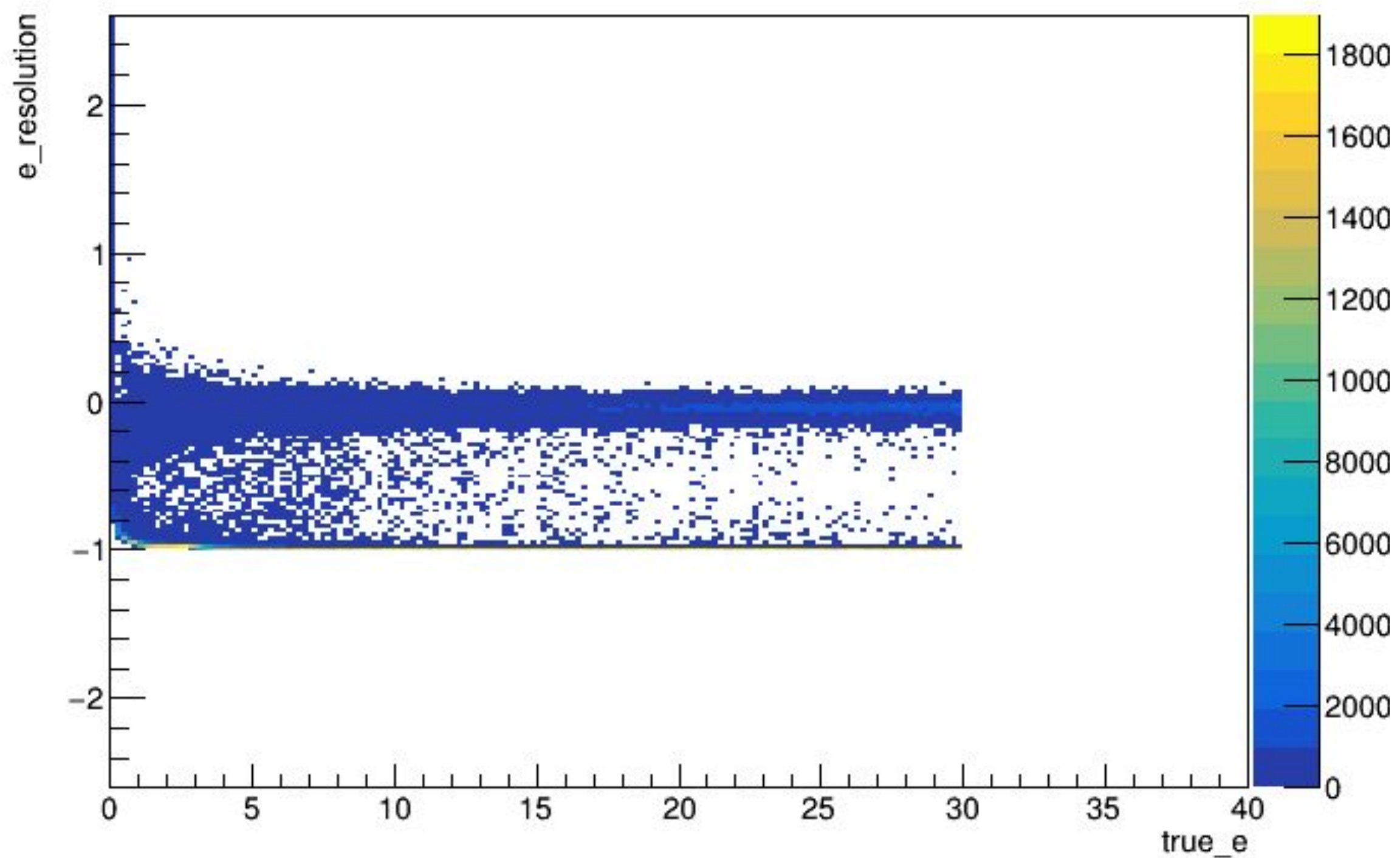


Kaon

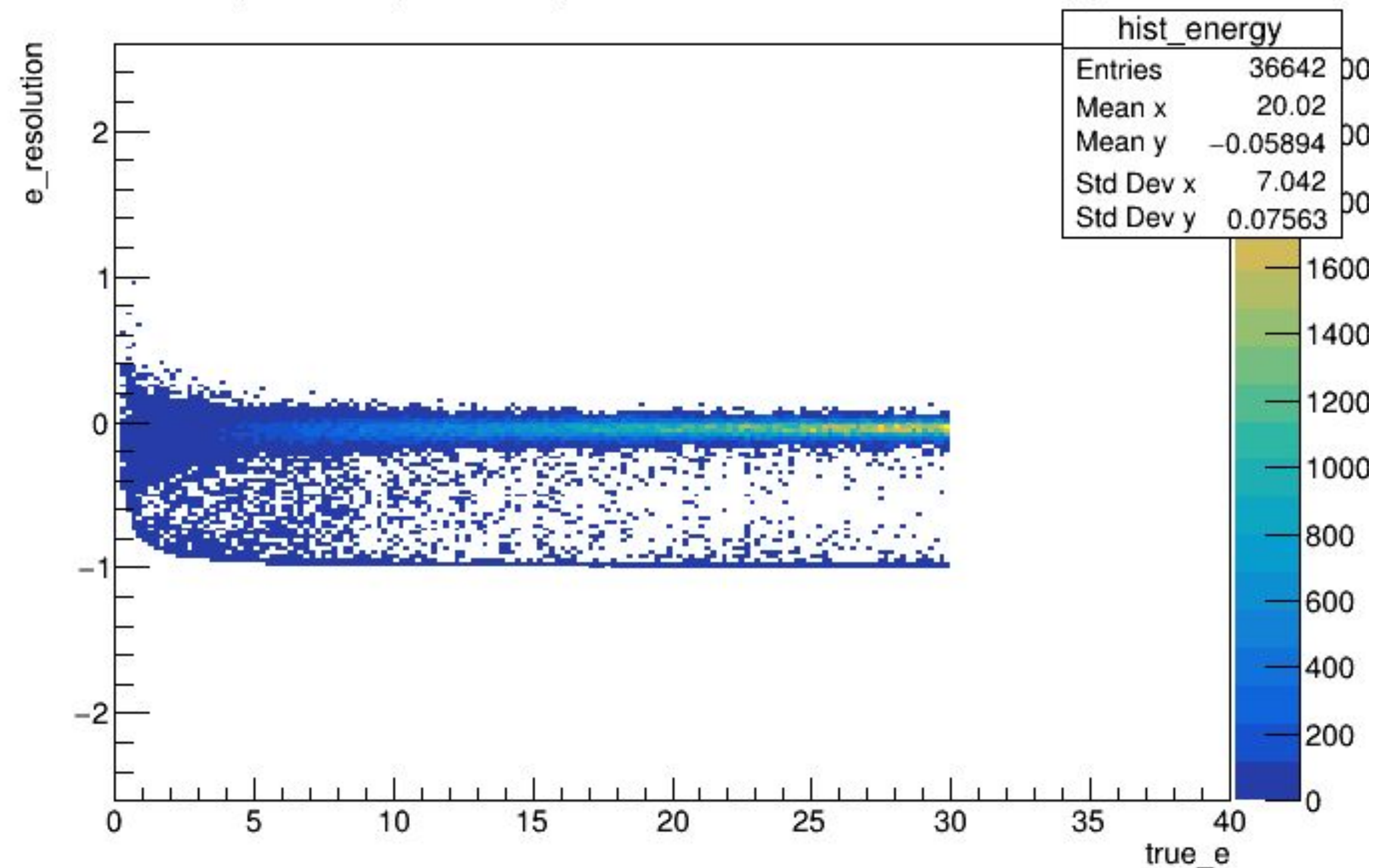
CEMC

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

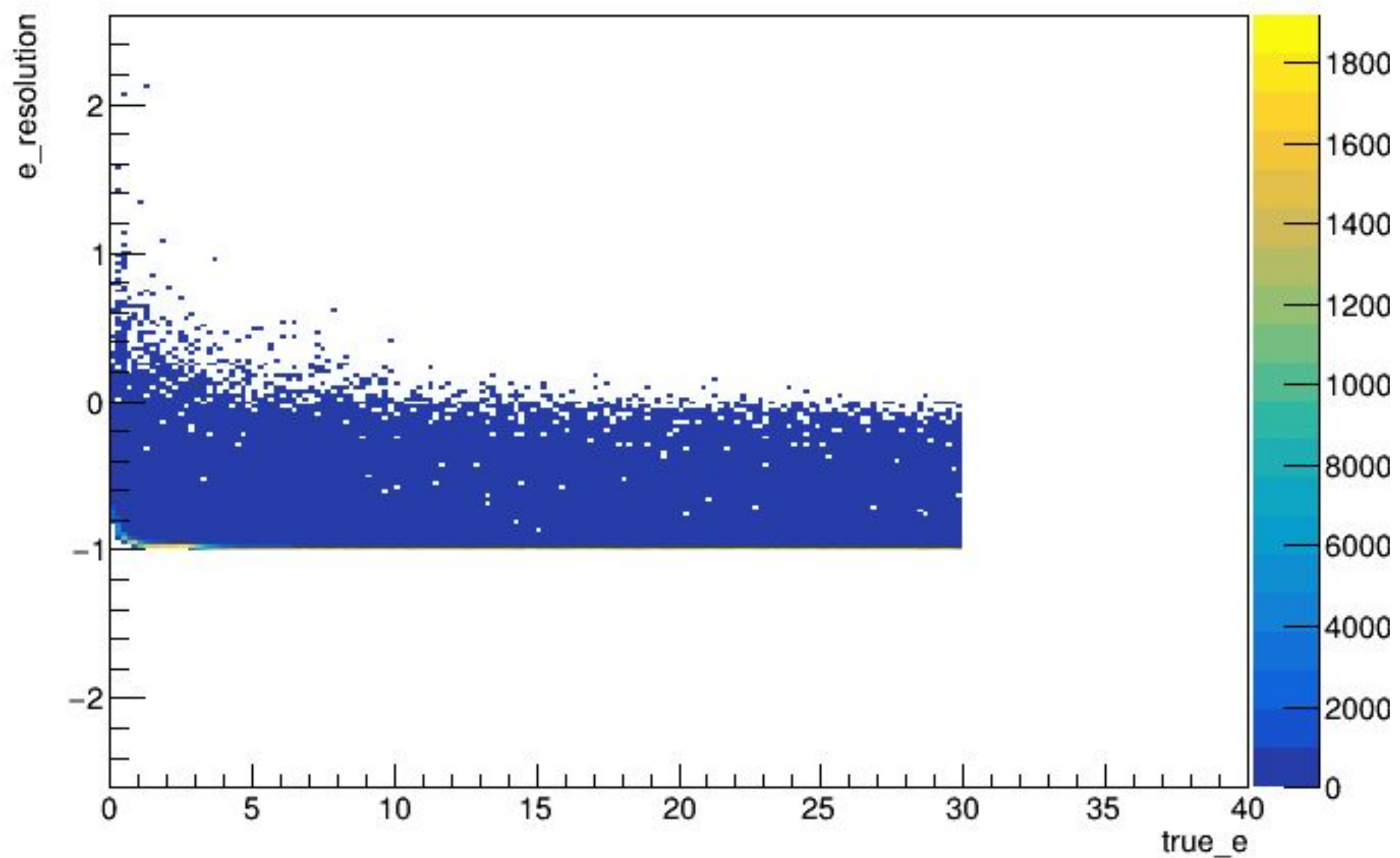


Electron

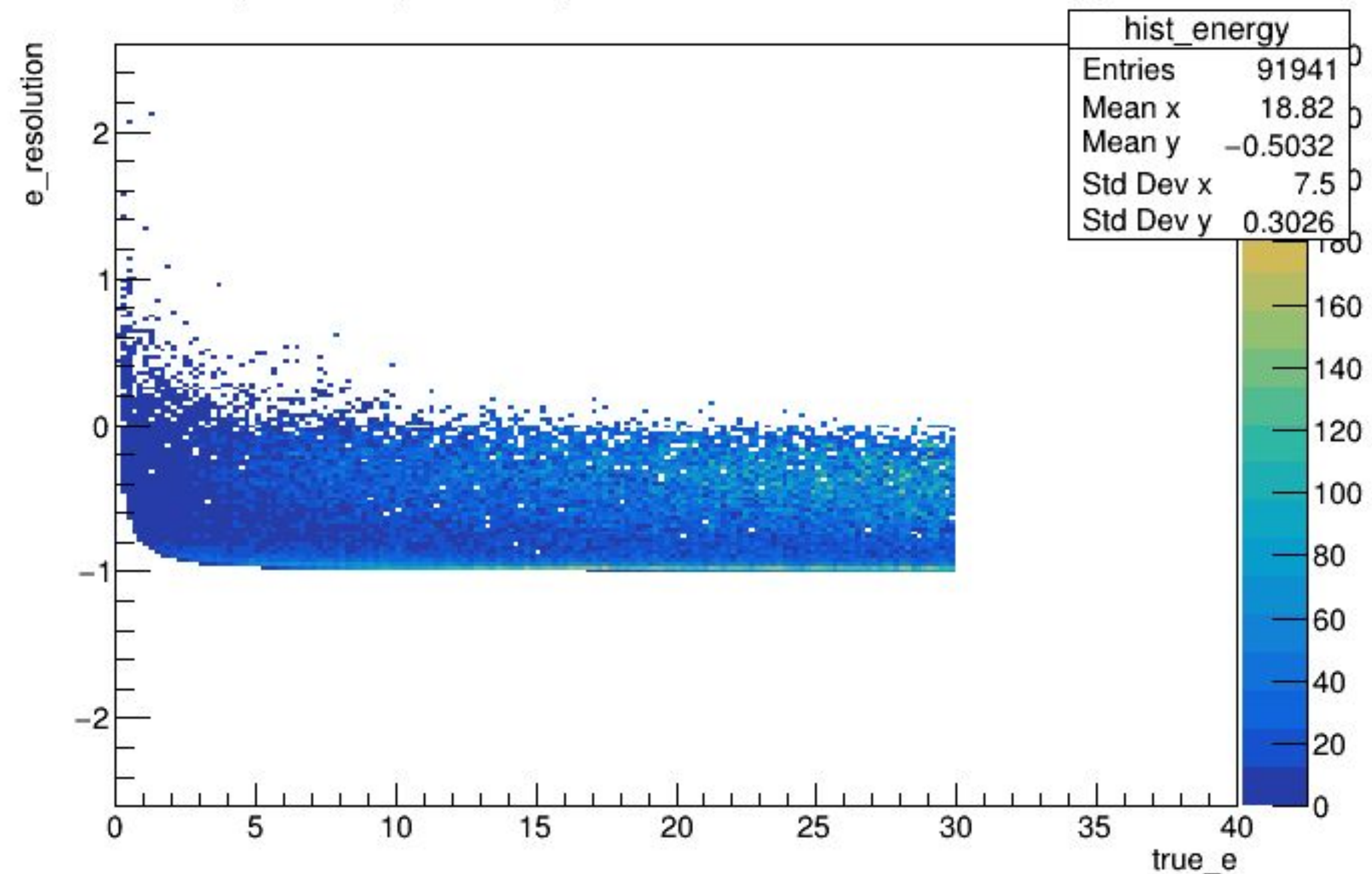
CEMC

$\Delta e/ge$ vs ge

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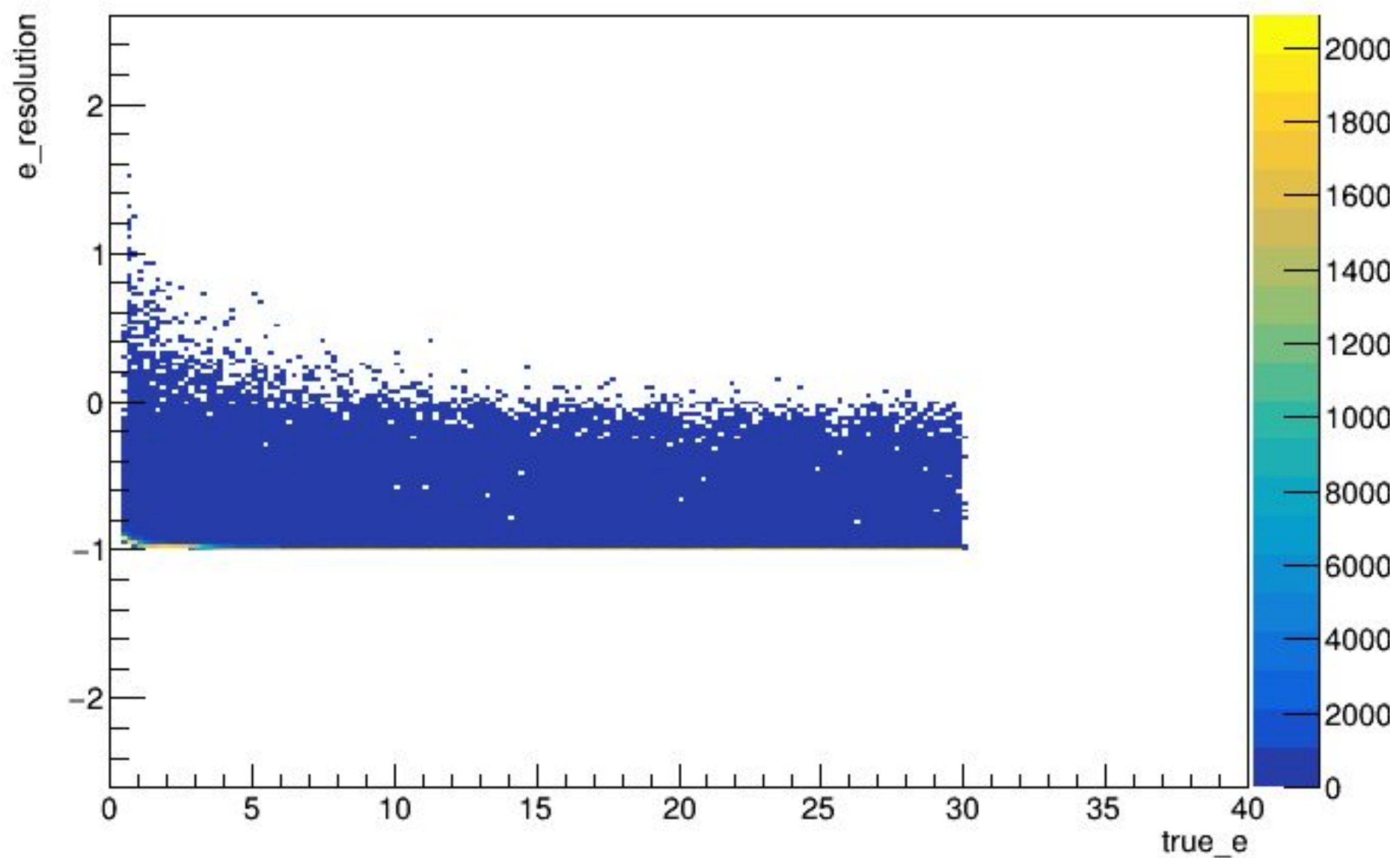


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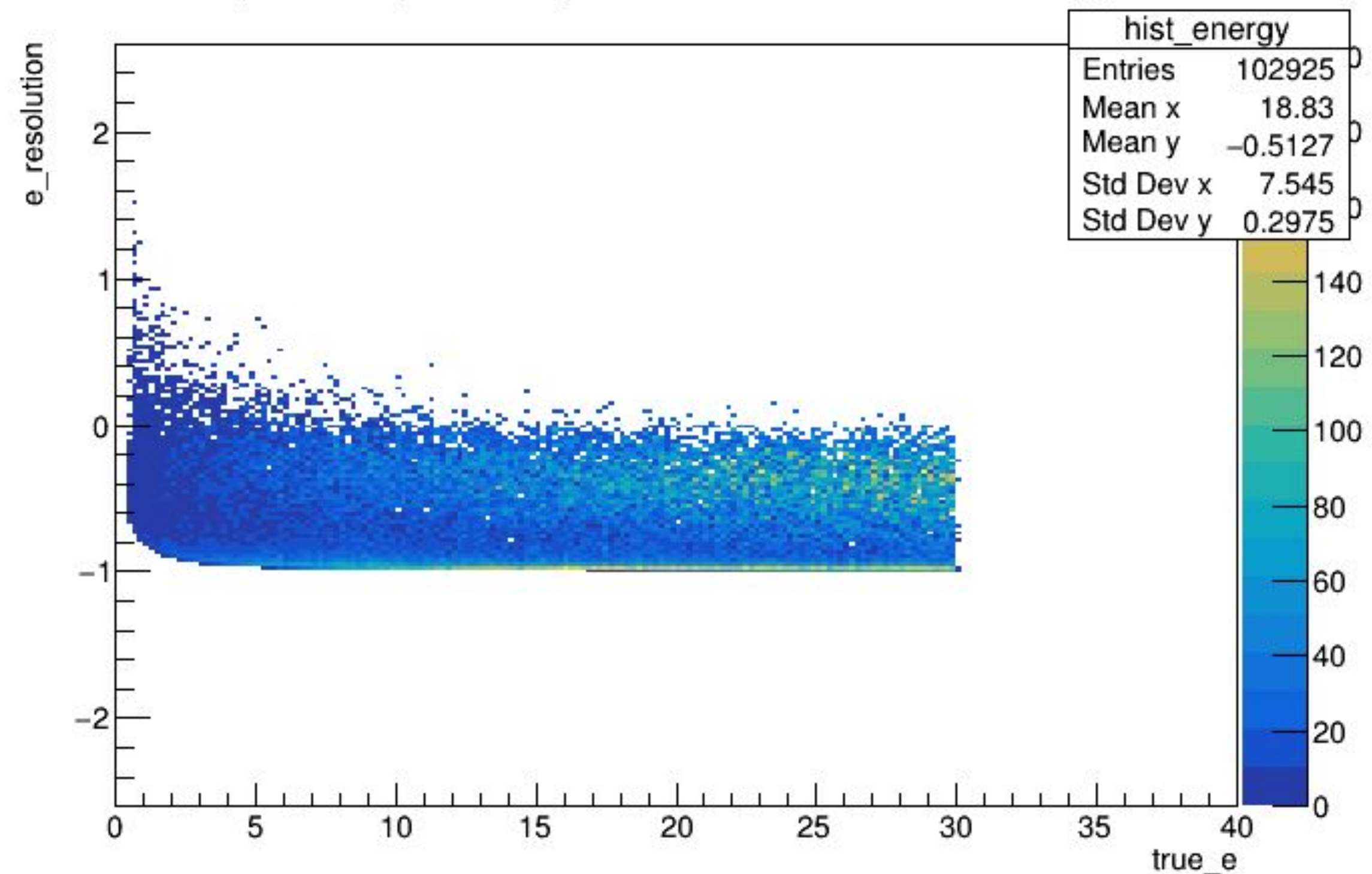
CEMC

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



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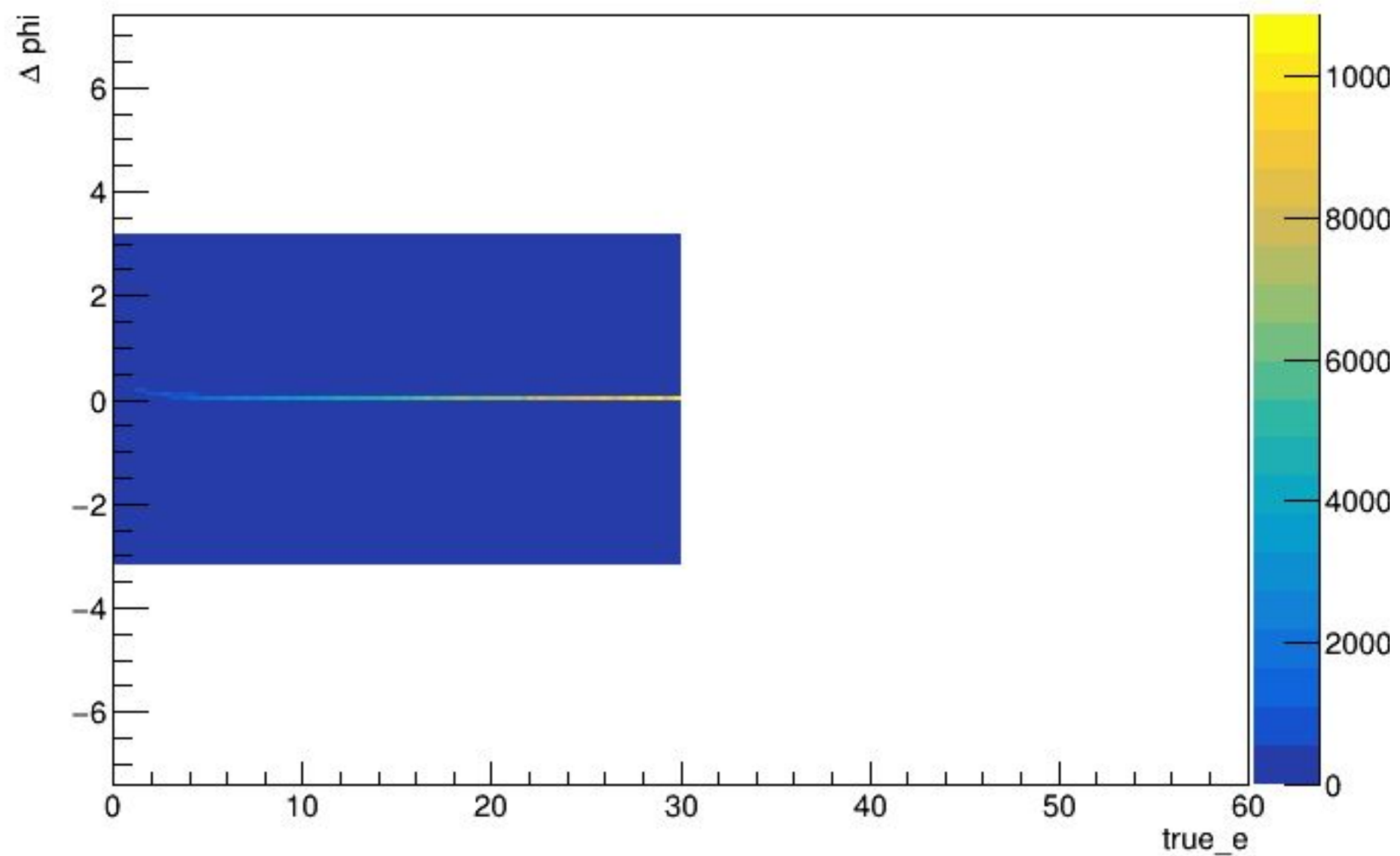


Kaon

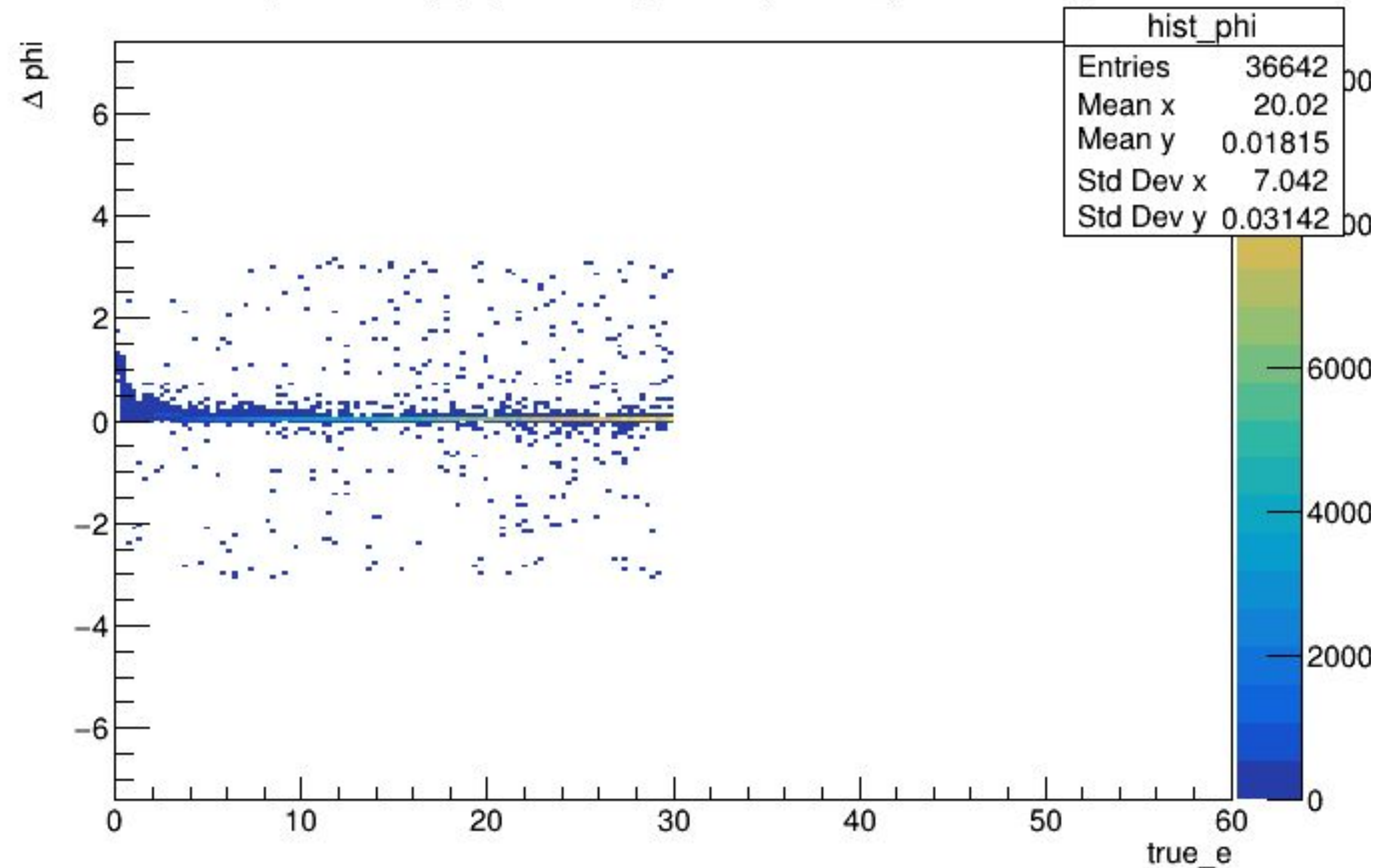
CEMC

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

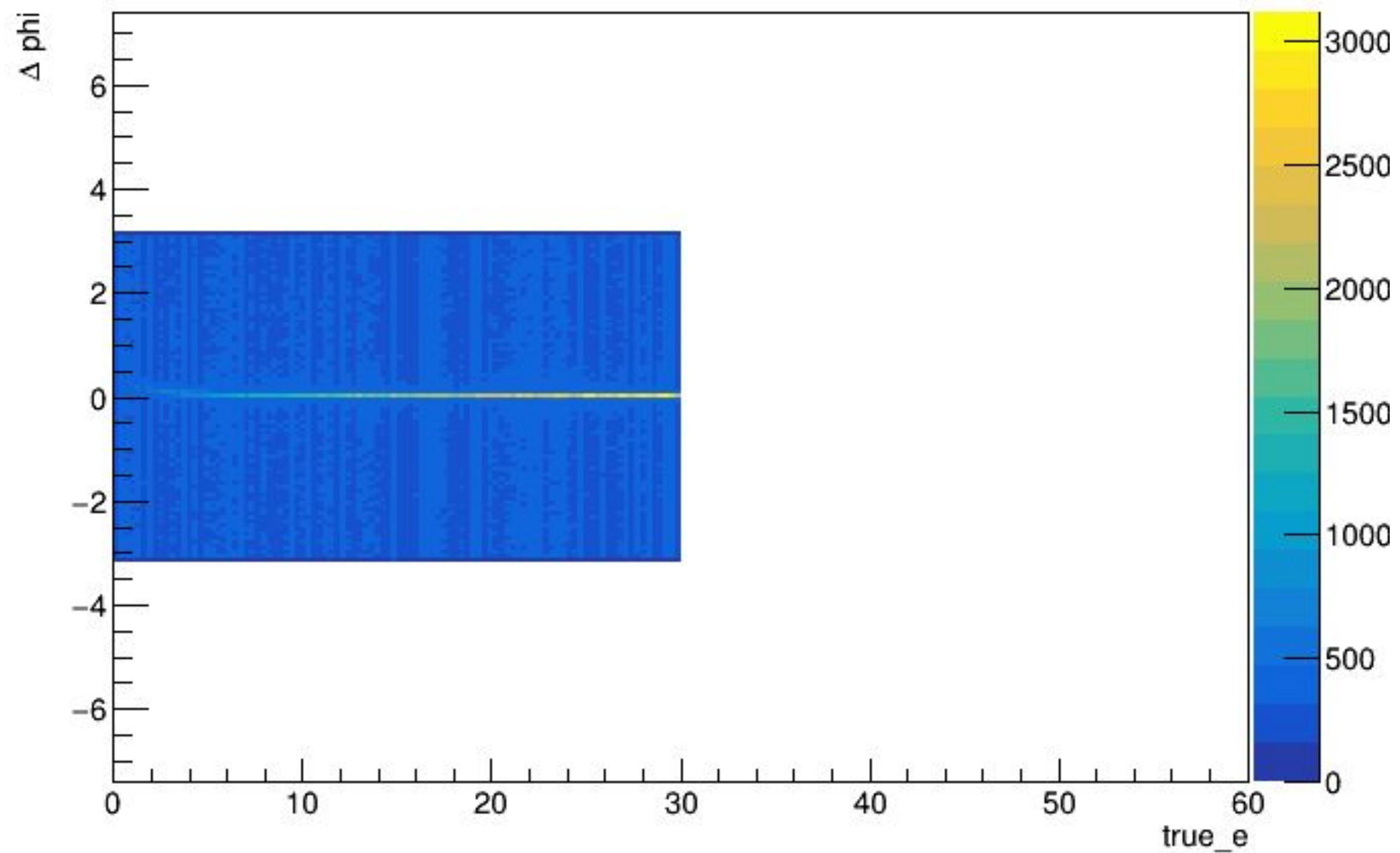


Electron

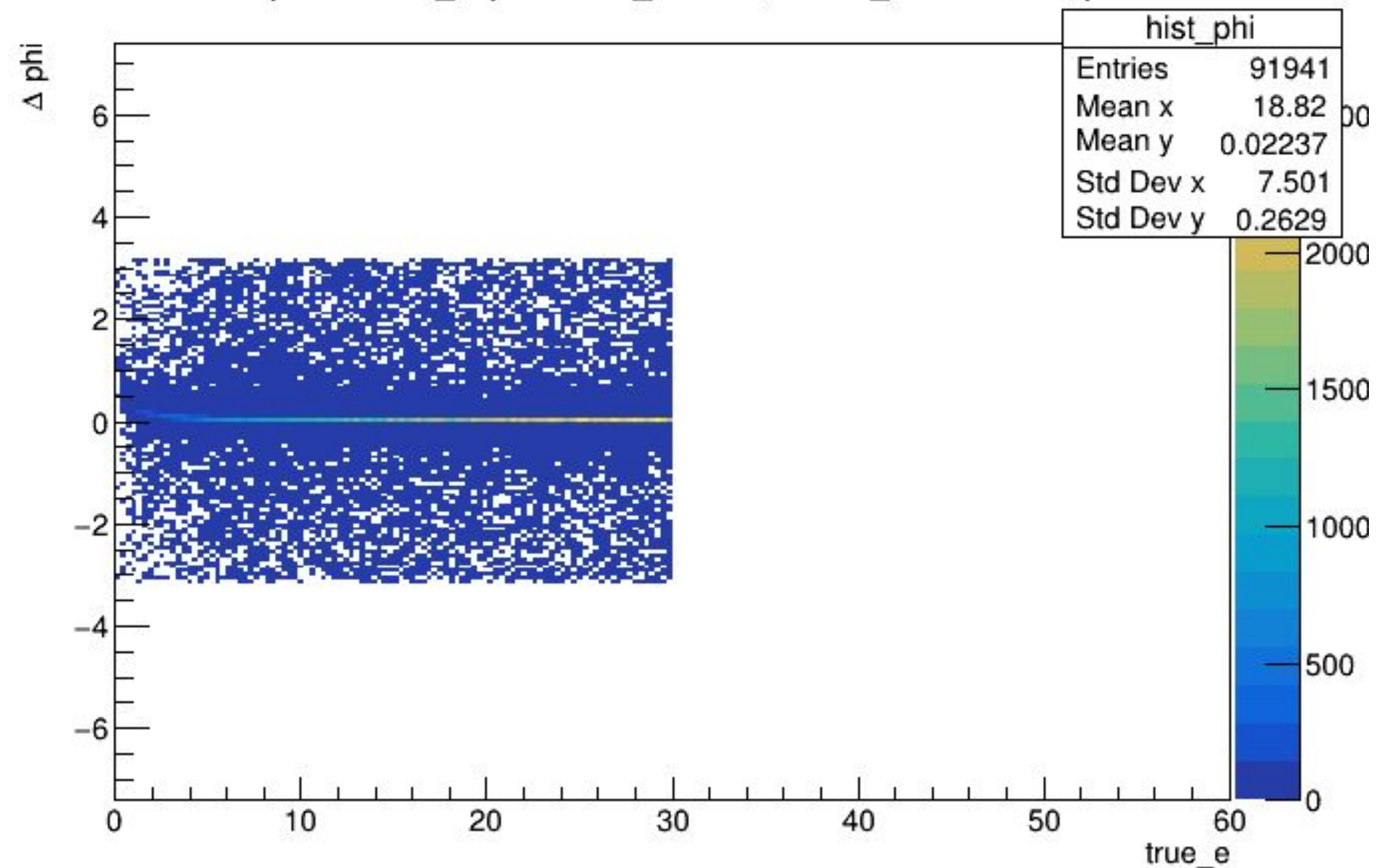
CEMC

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

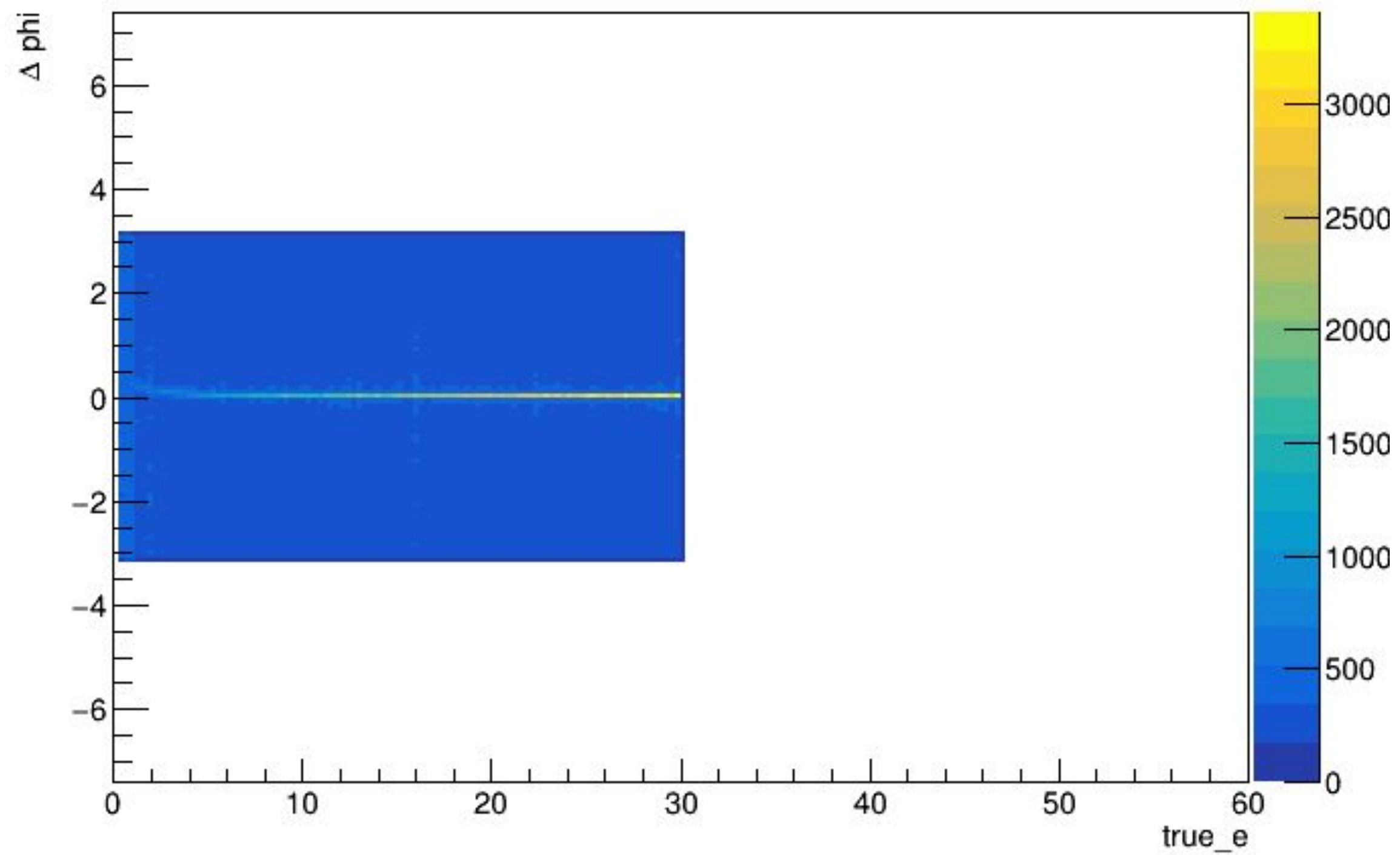


Pion

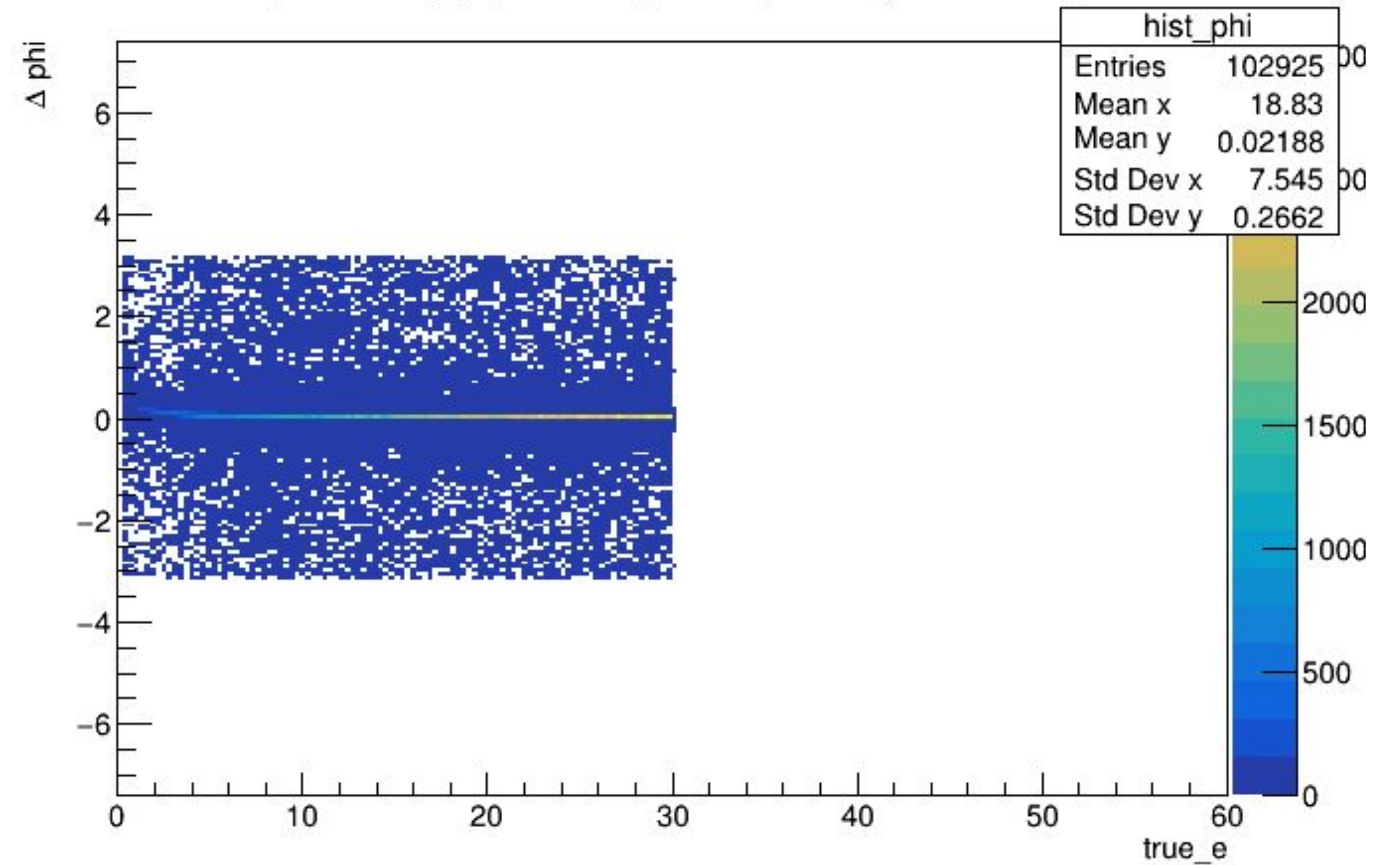
CEMC

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

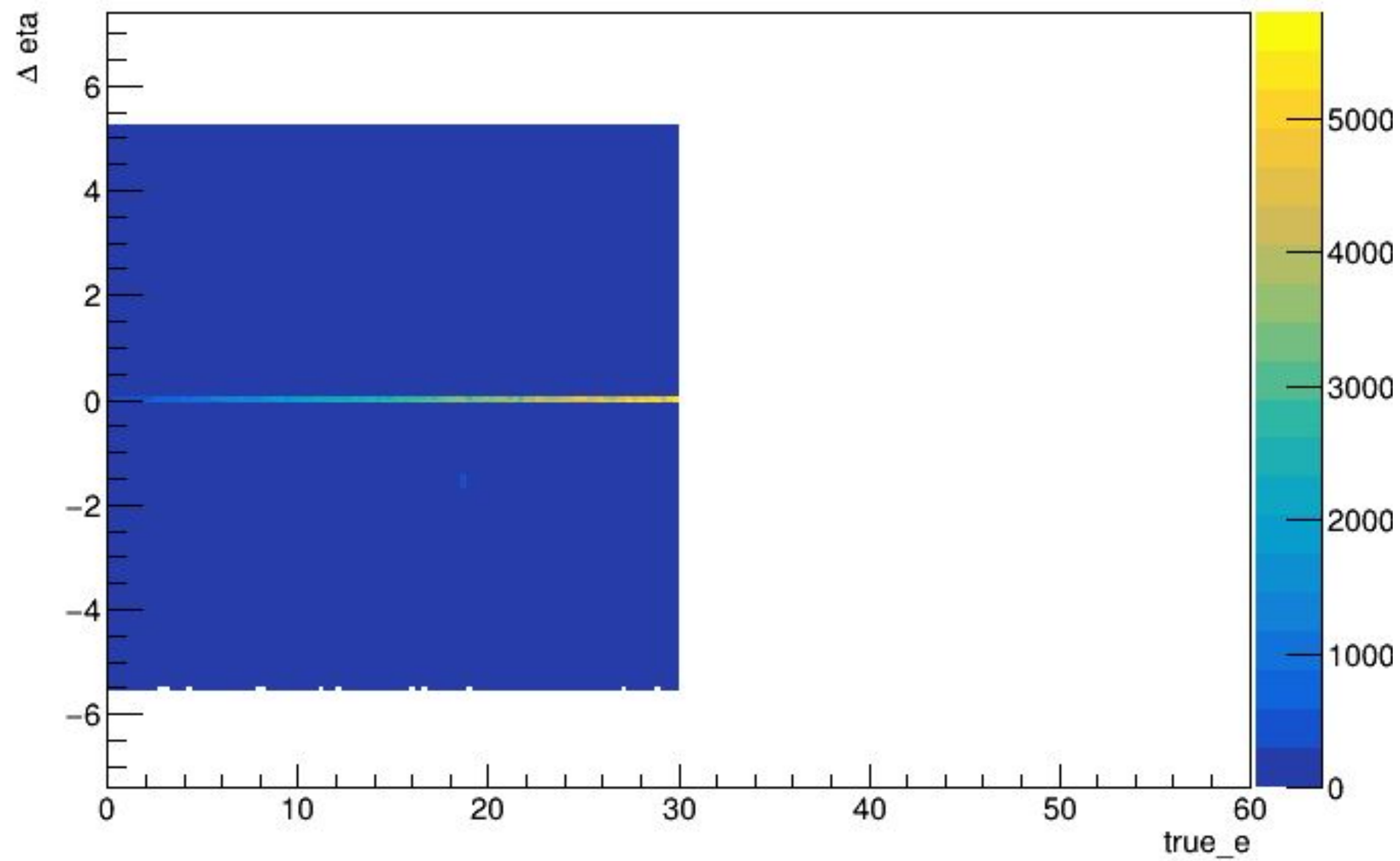


Kaon

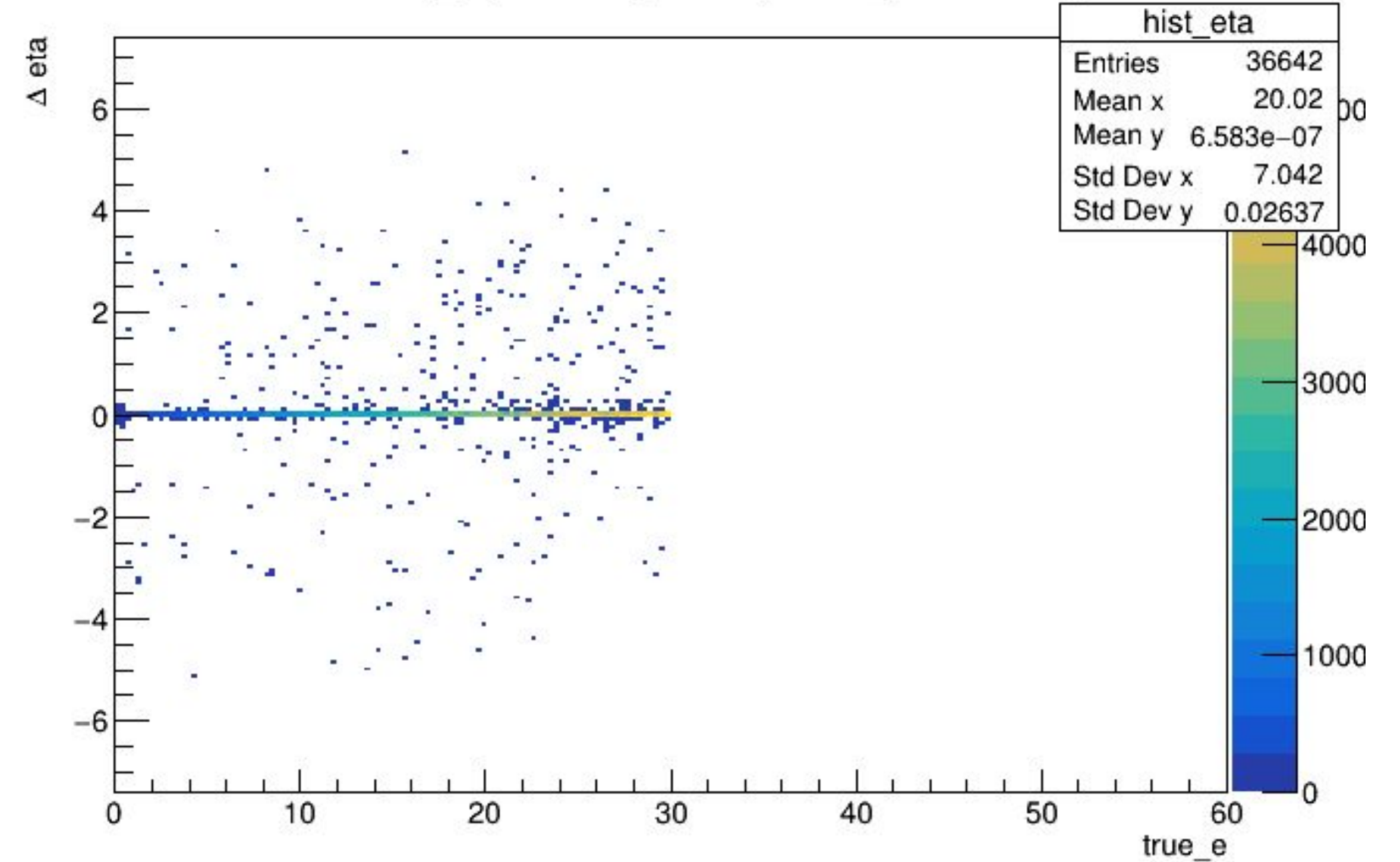
CEMC

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



$\Delta\eta$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

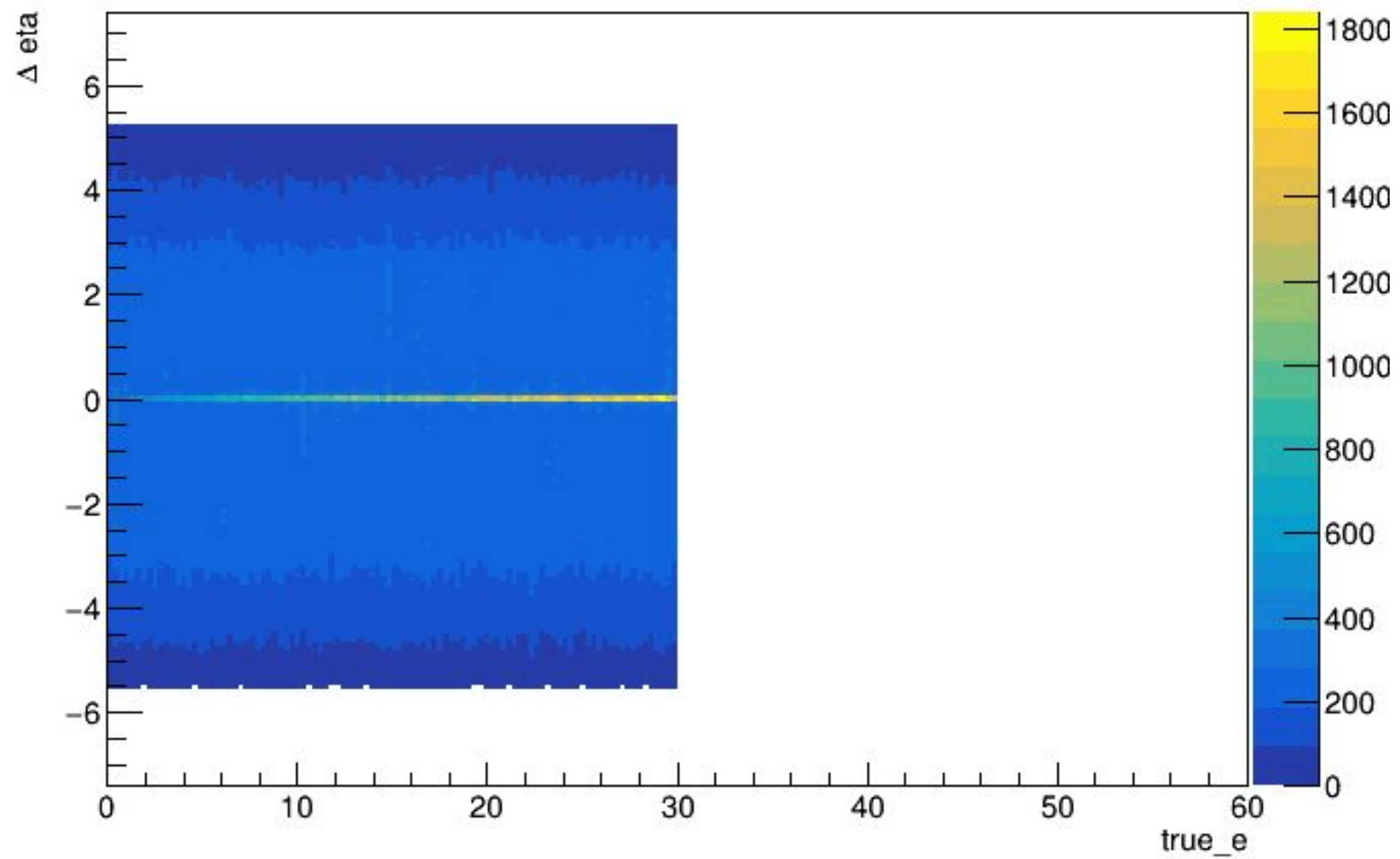


Electron

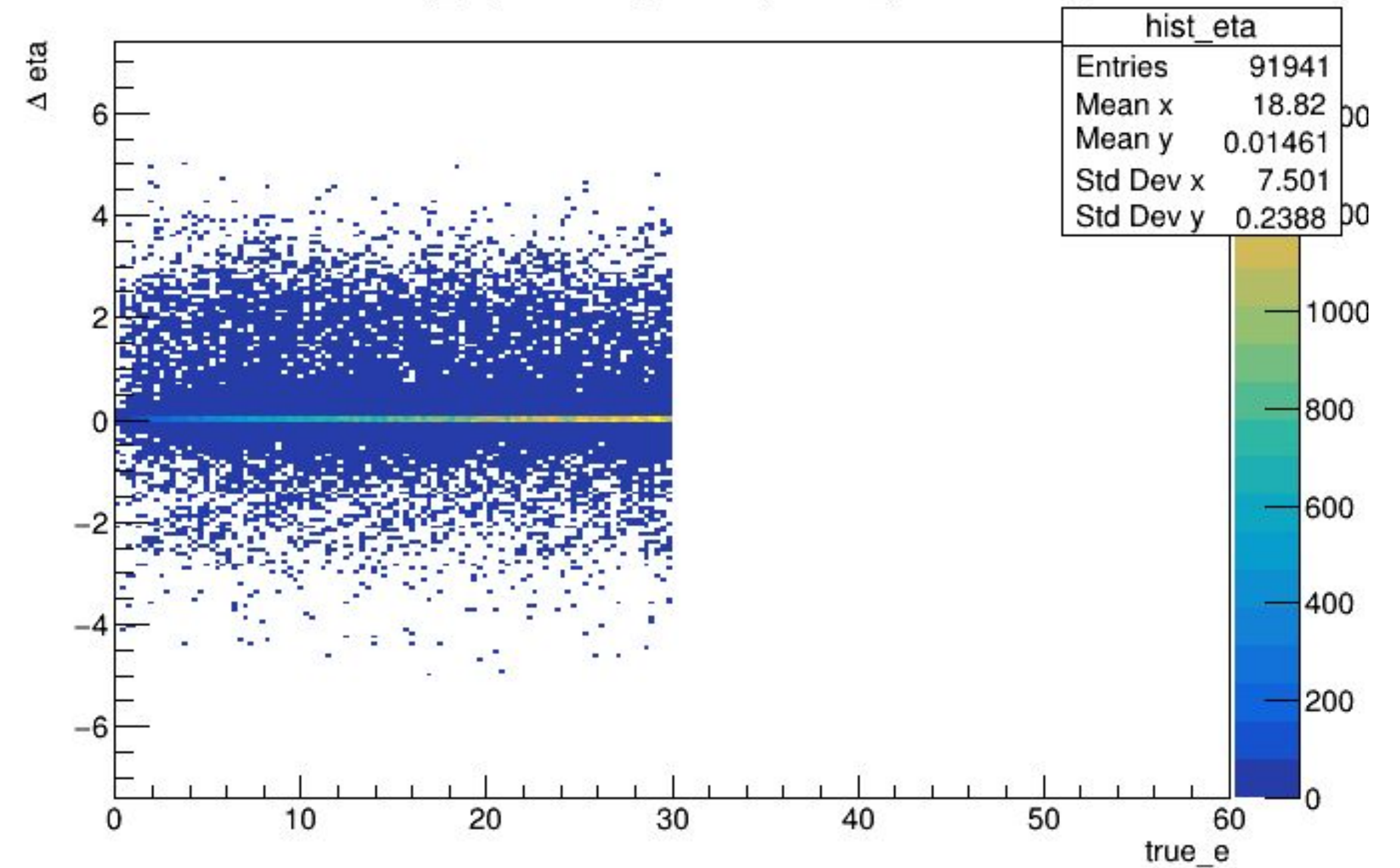
CEMC

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



$\Delta\eta$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

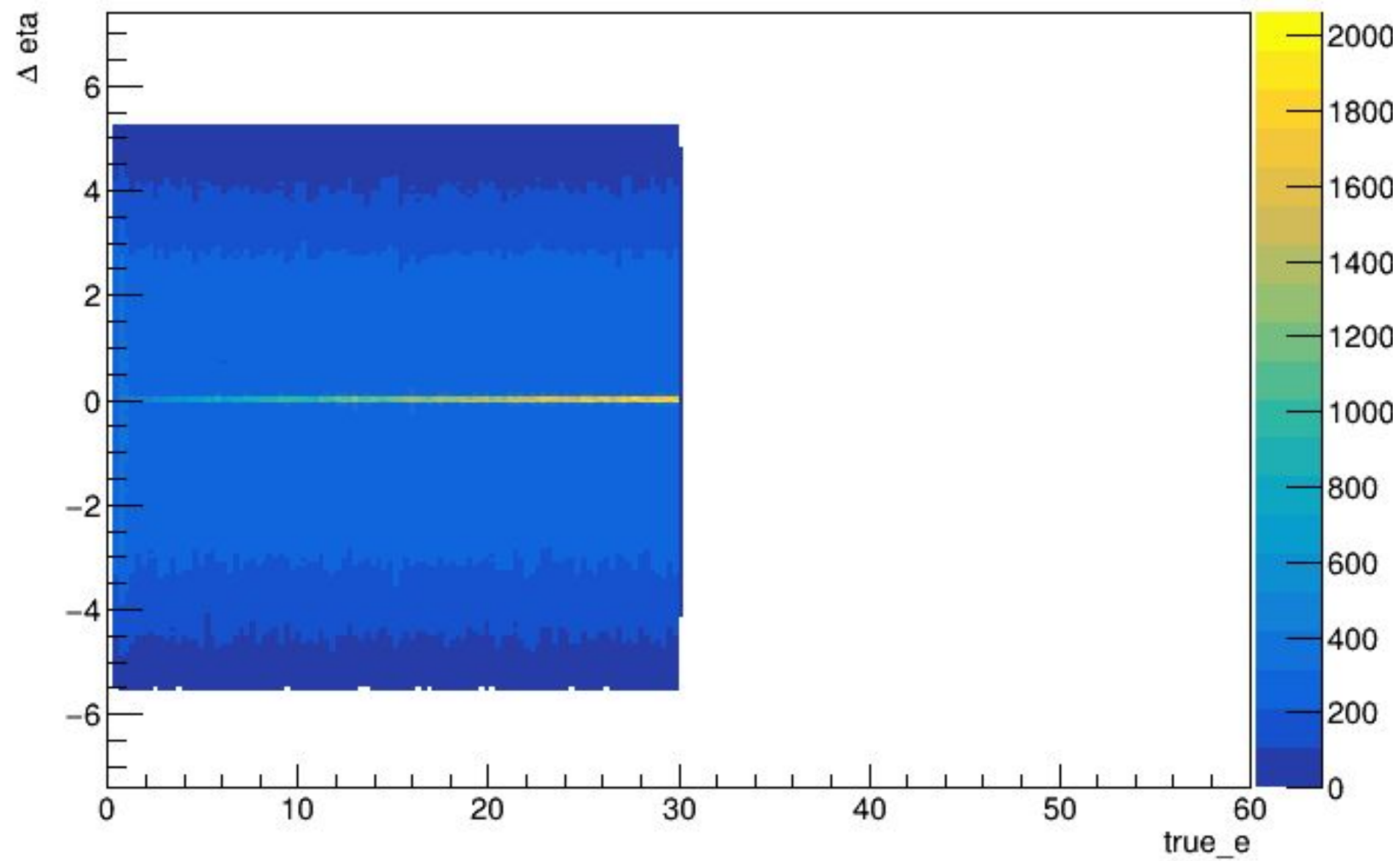


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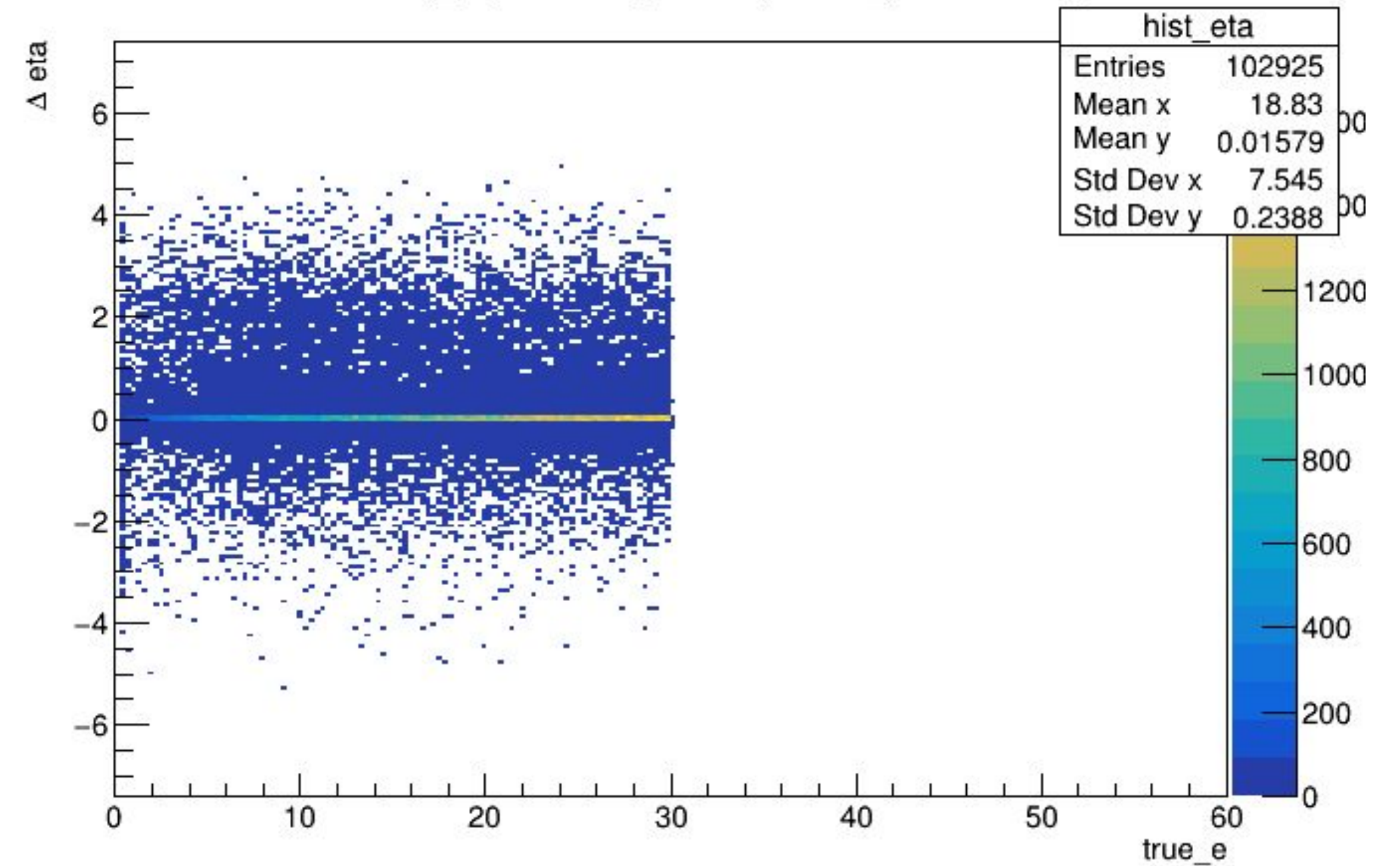
CEMC

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



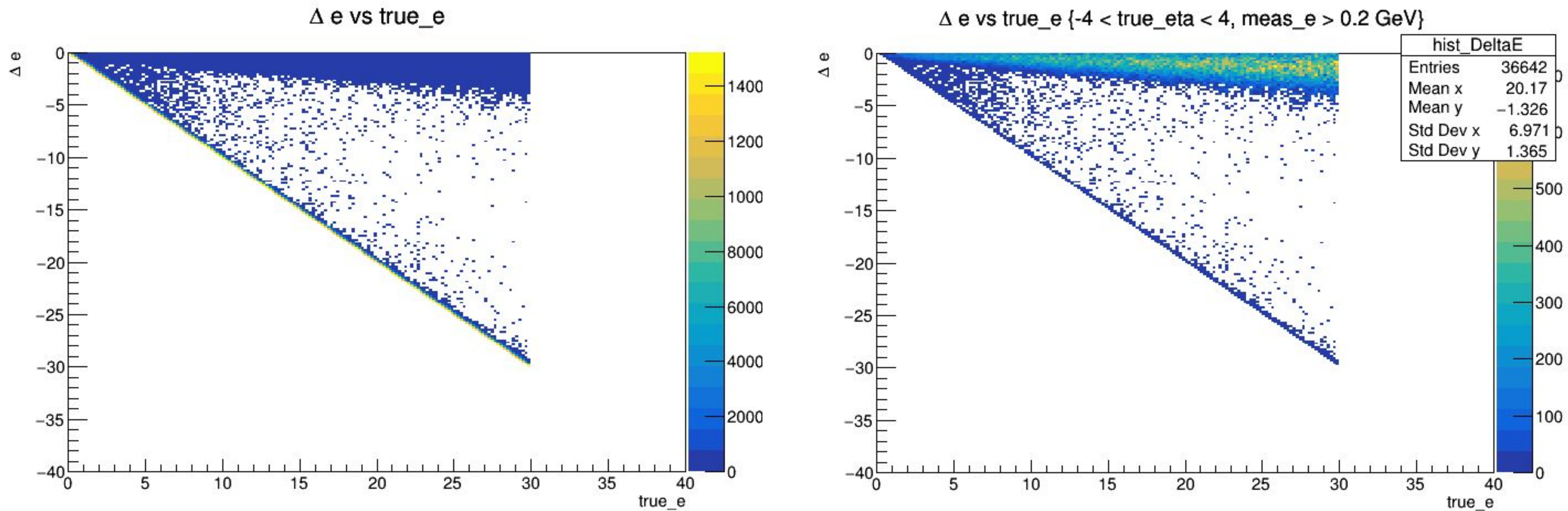
$\Delta\eta$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$



Kaon

CEMC

Δe vs g_e

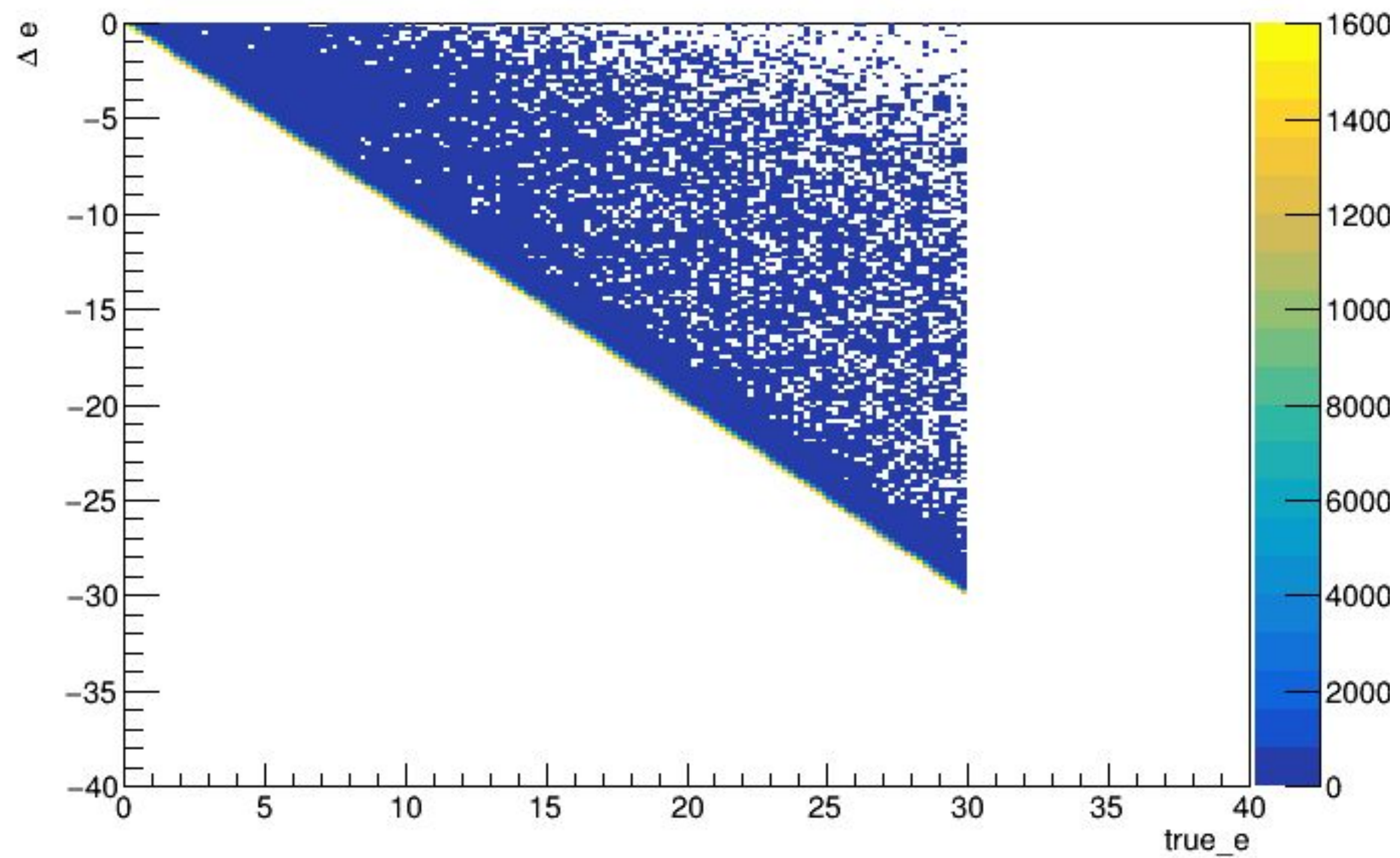


Electron

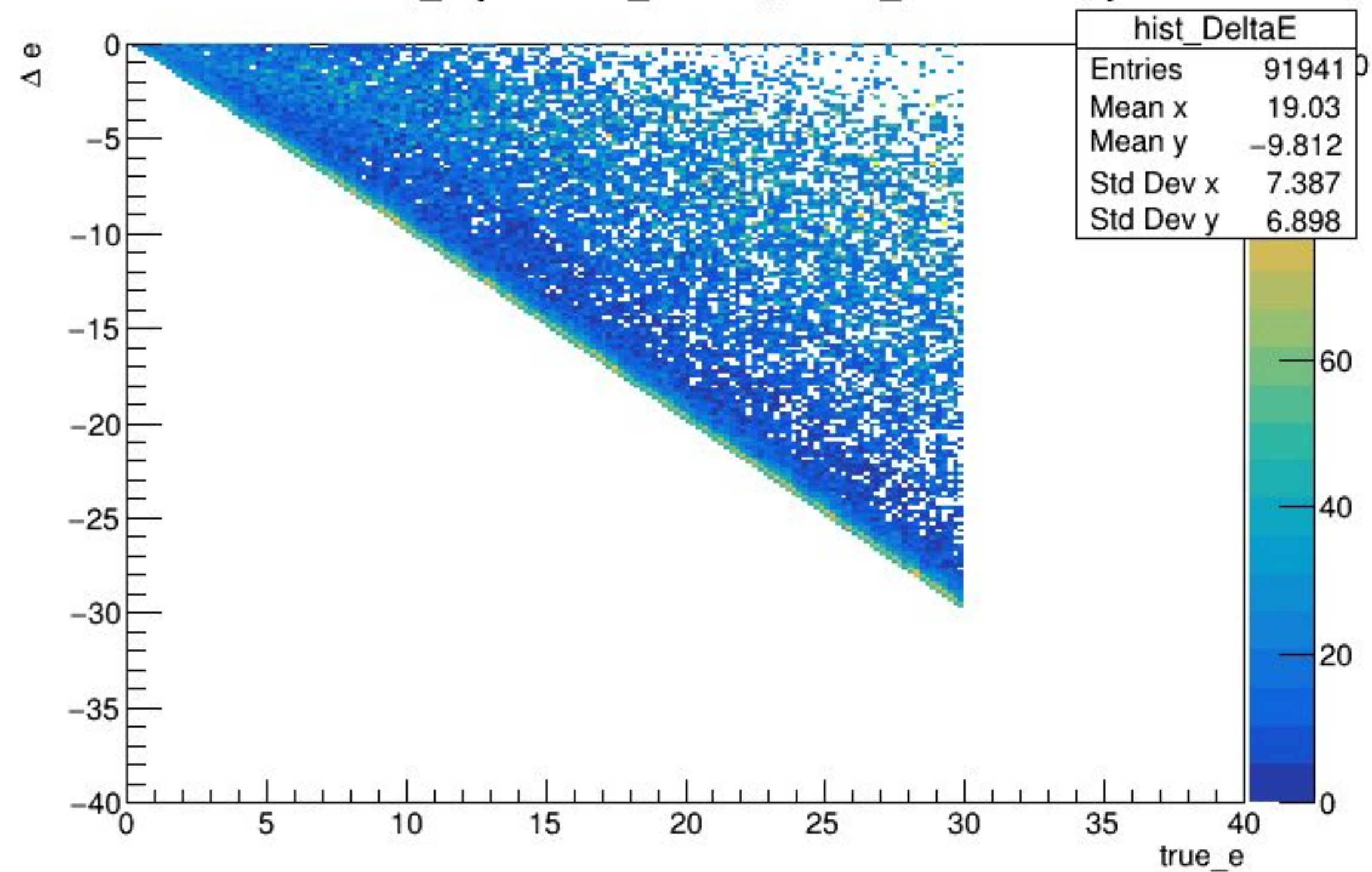
CEMC

Δe vs g_e

Δe vs true_e



Δe vs true_e $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

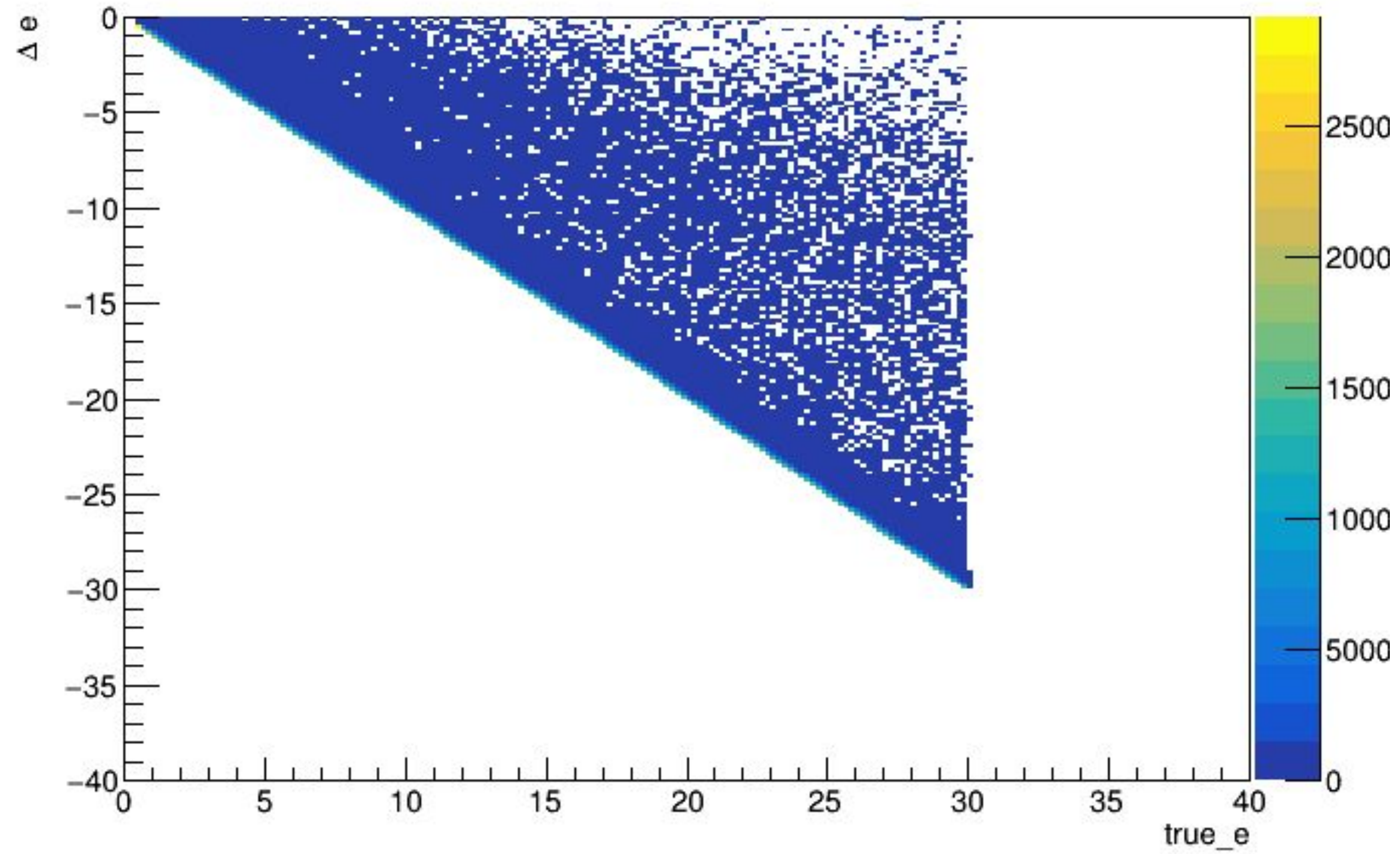


Pion

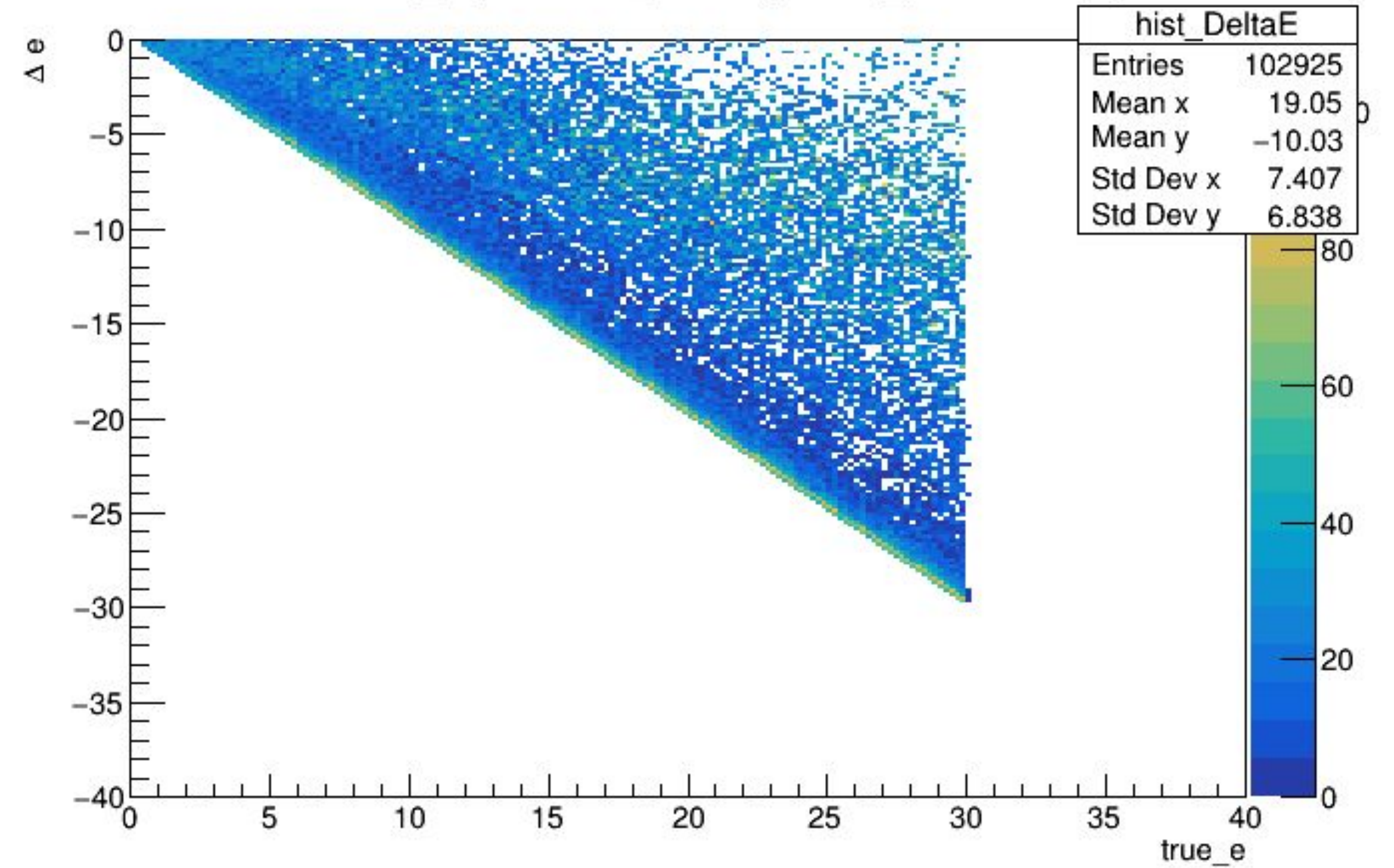
CEMC

Δe vs g_e

Δe vs true_e



Δe vs true_e $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$



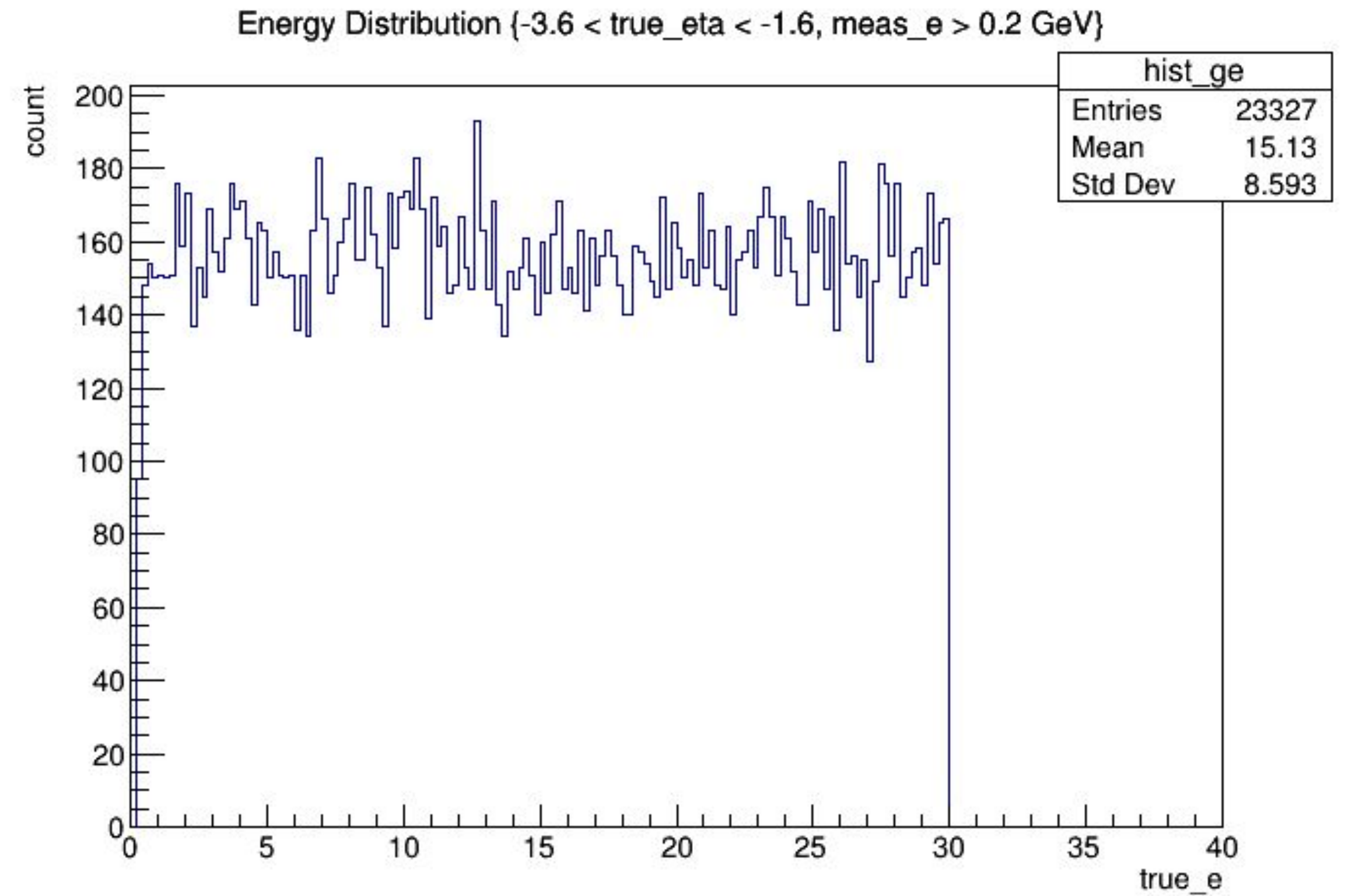
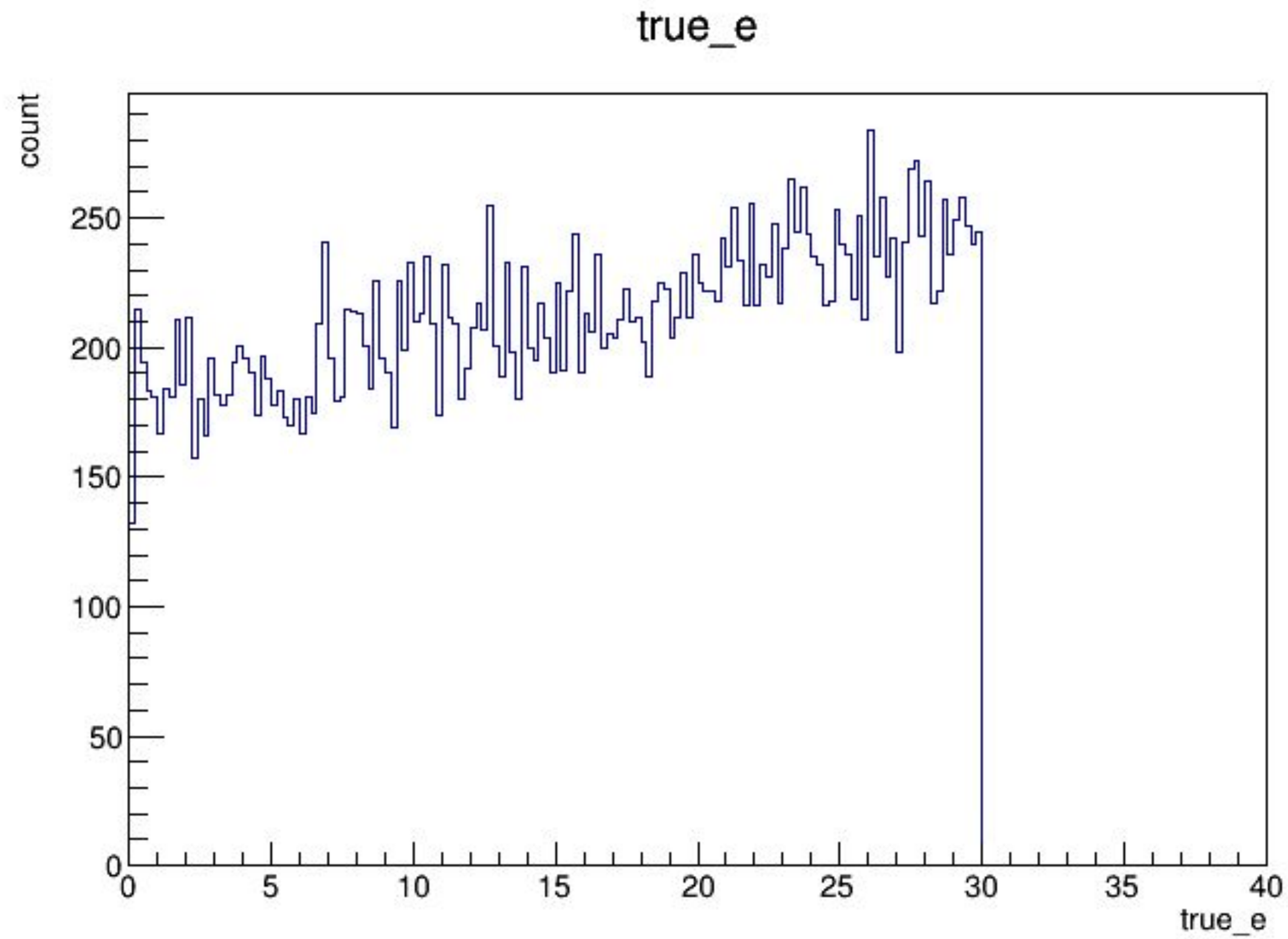
Kaon



EEMC

EEMC

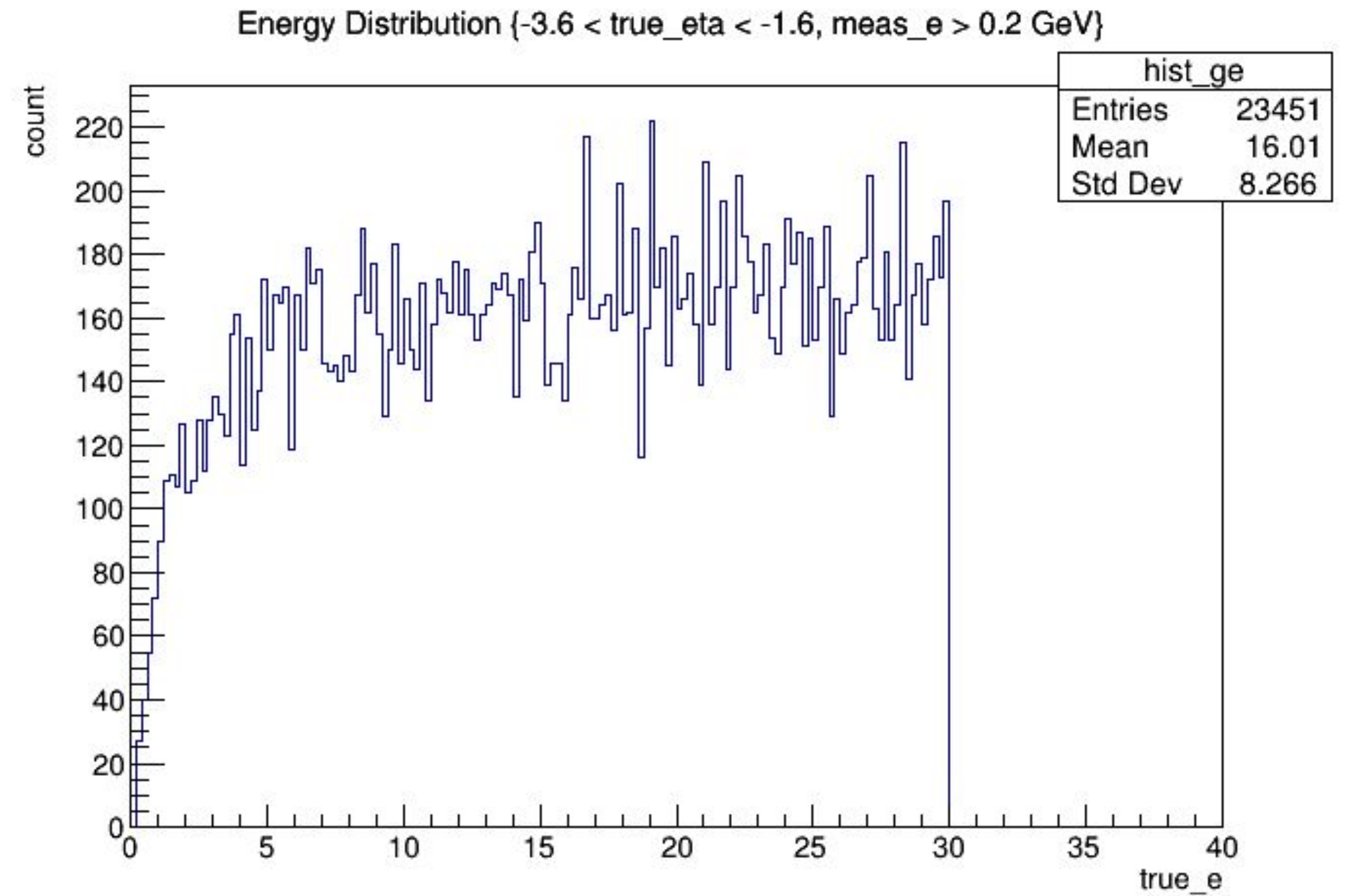
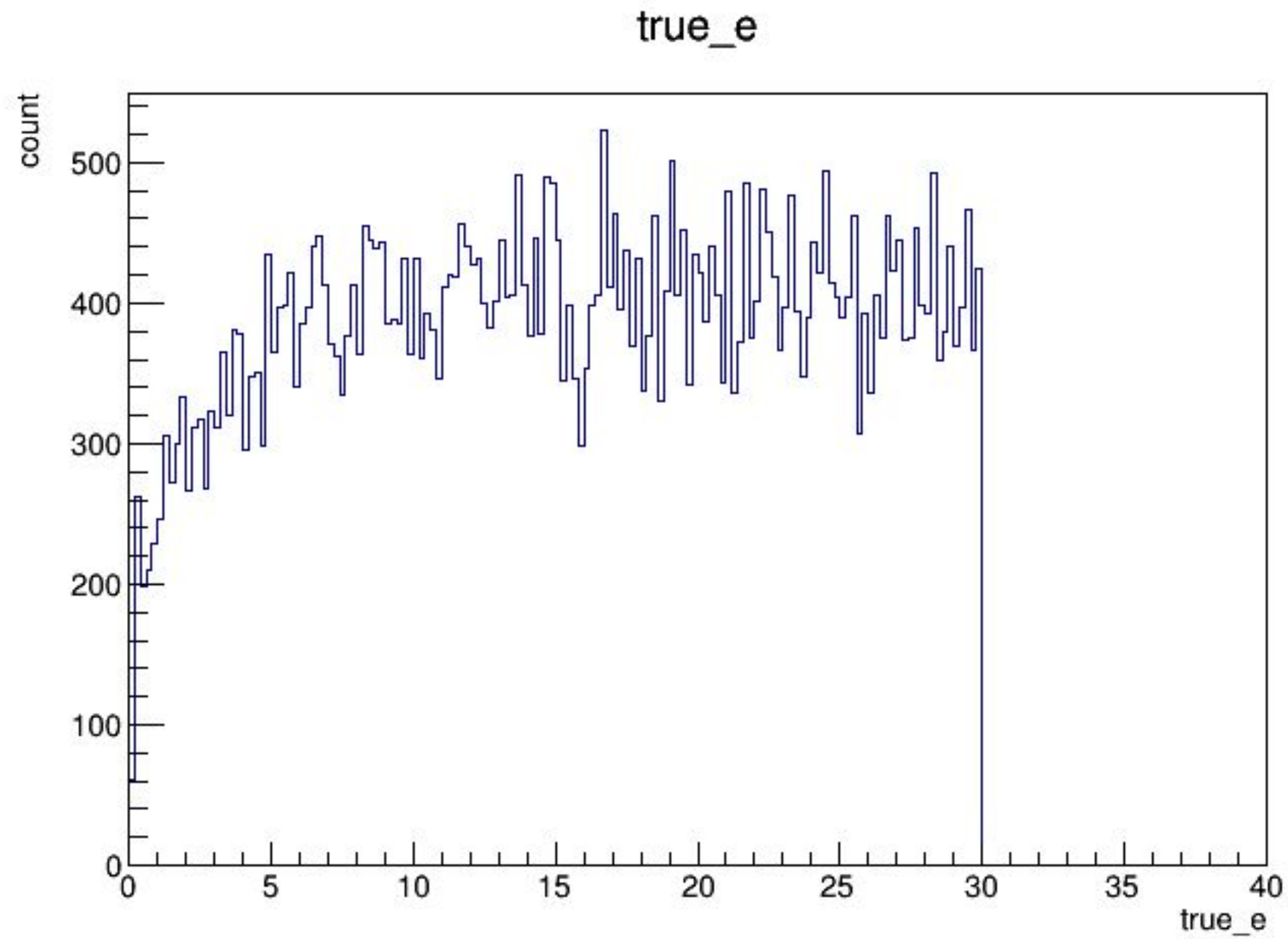
ge distribution



Electron

EEMC

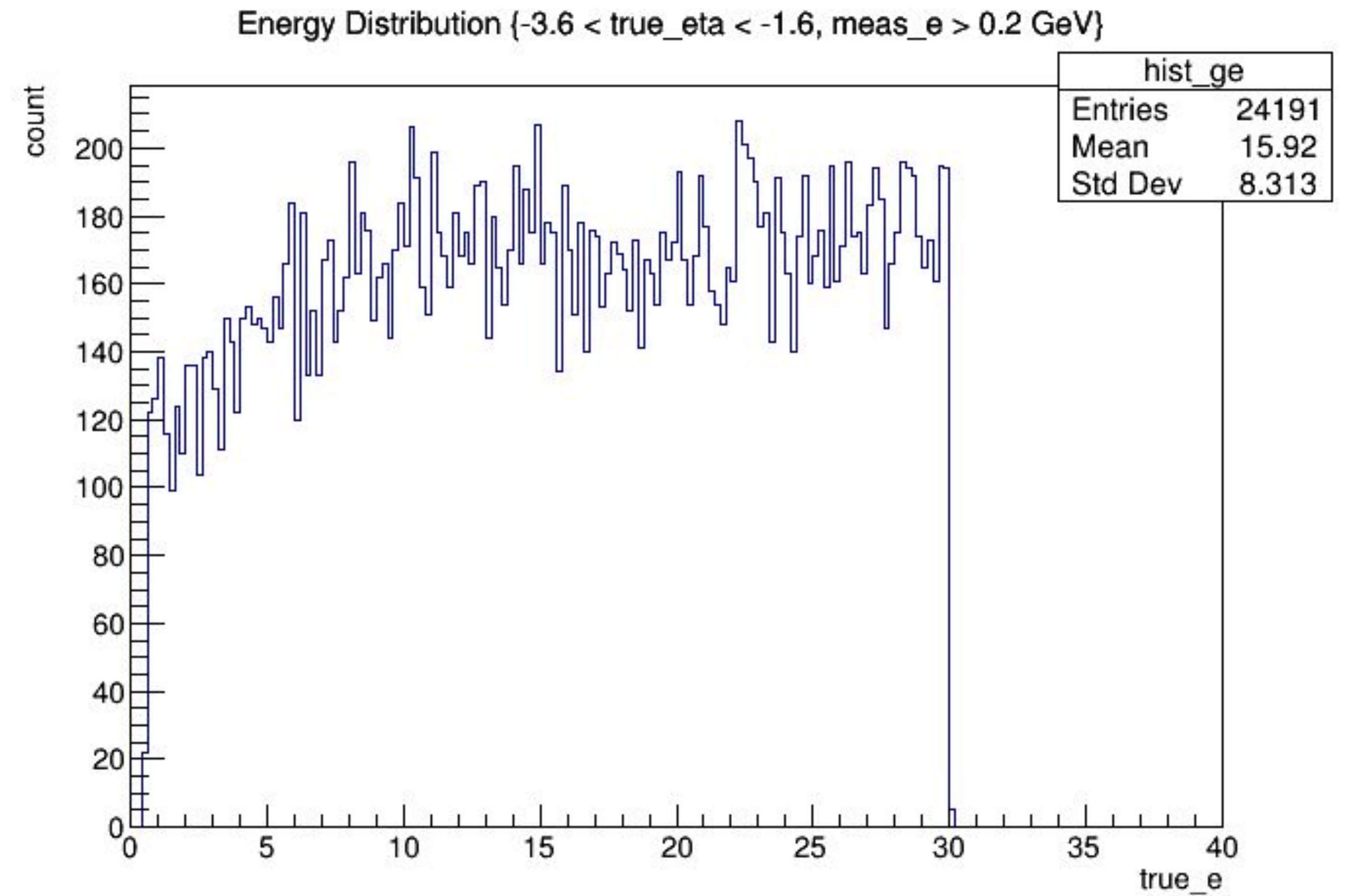
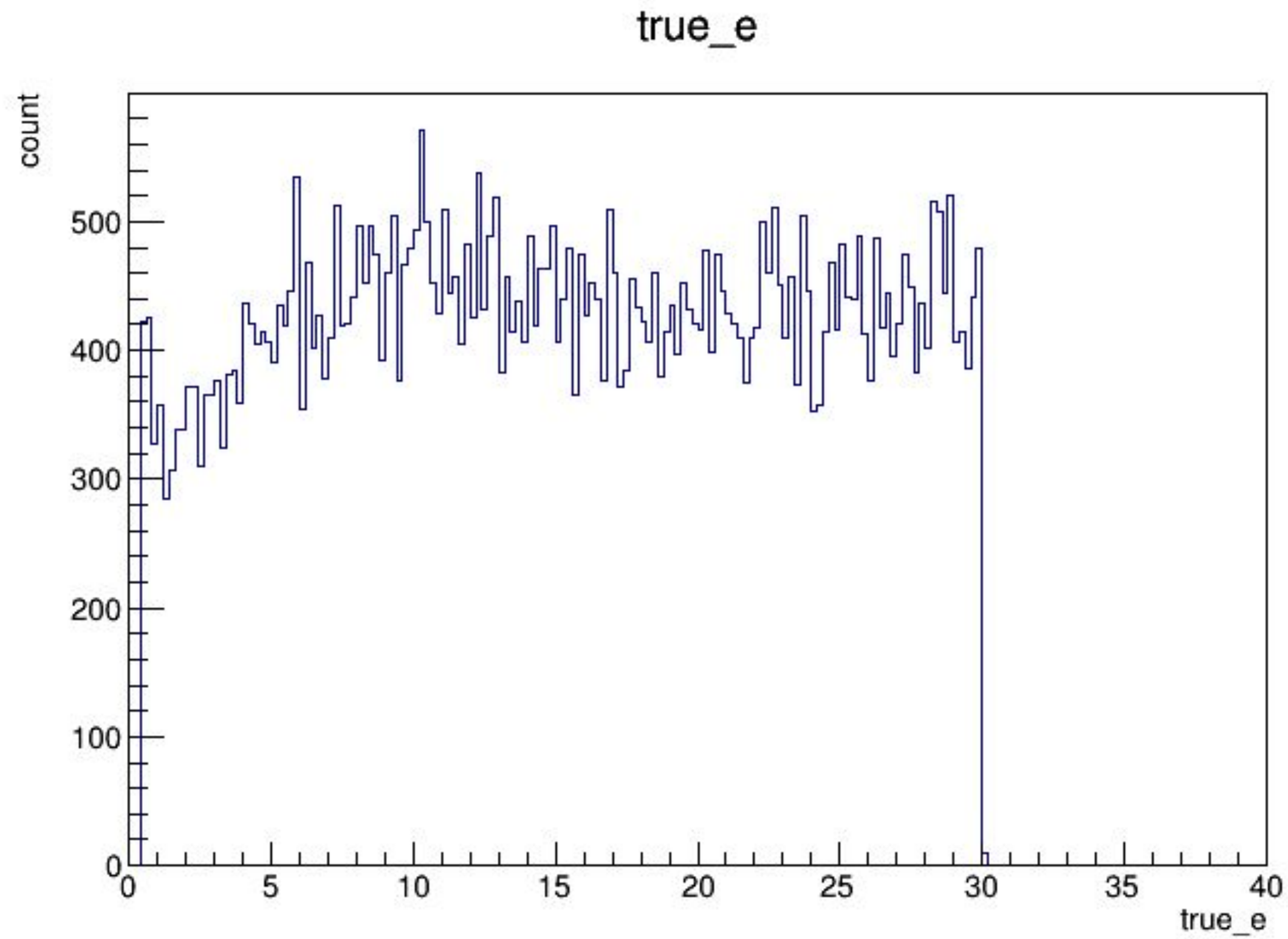
ge distribution



Pion

EEMC

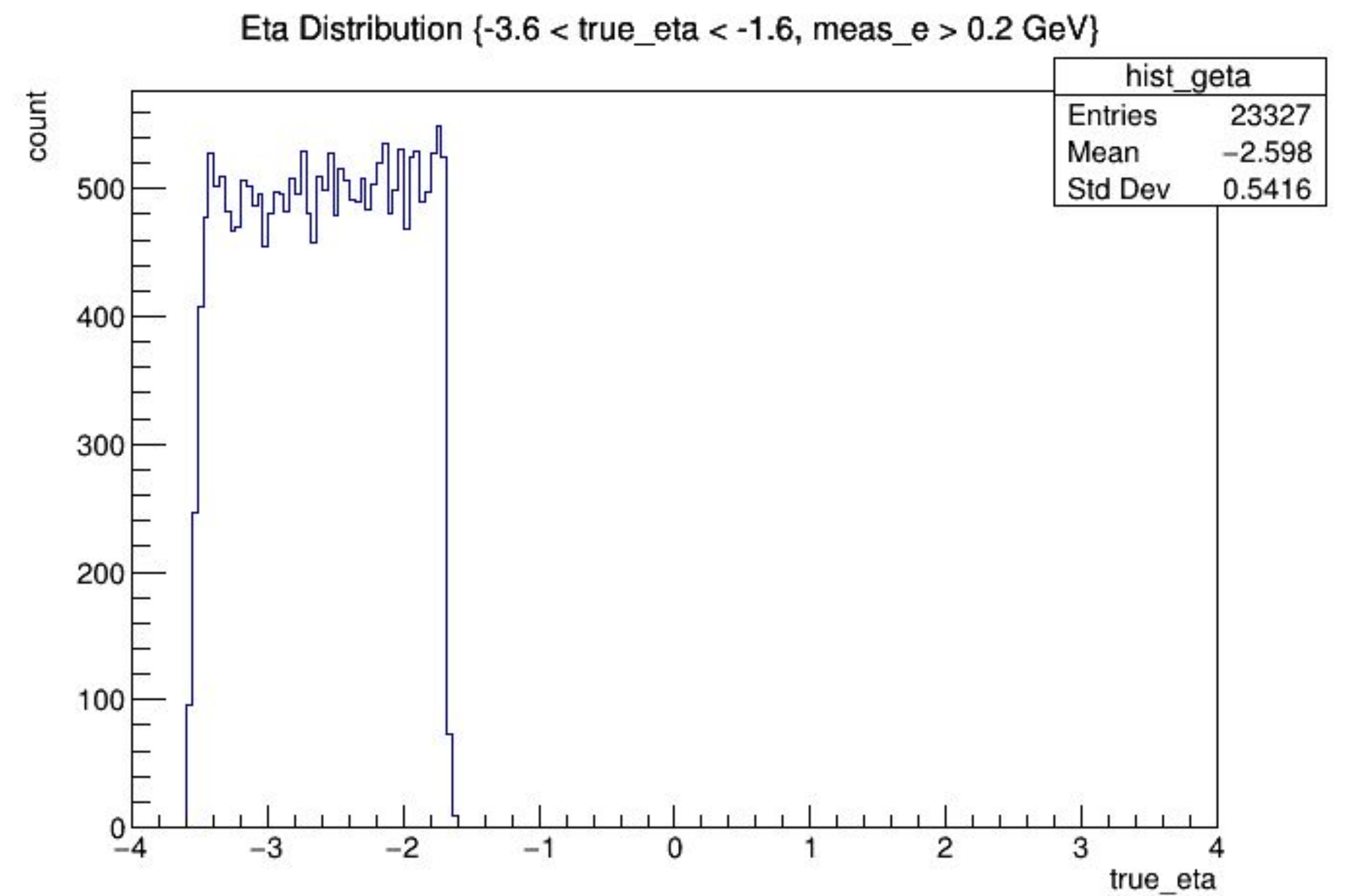
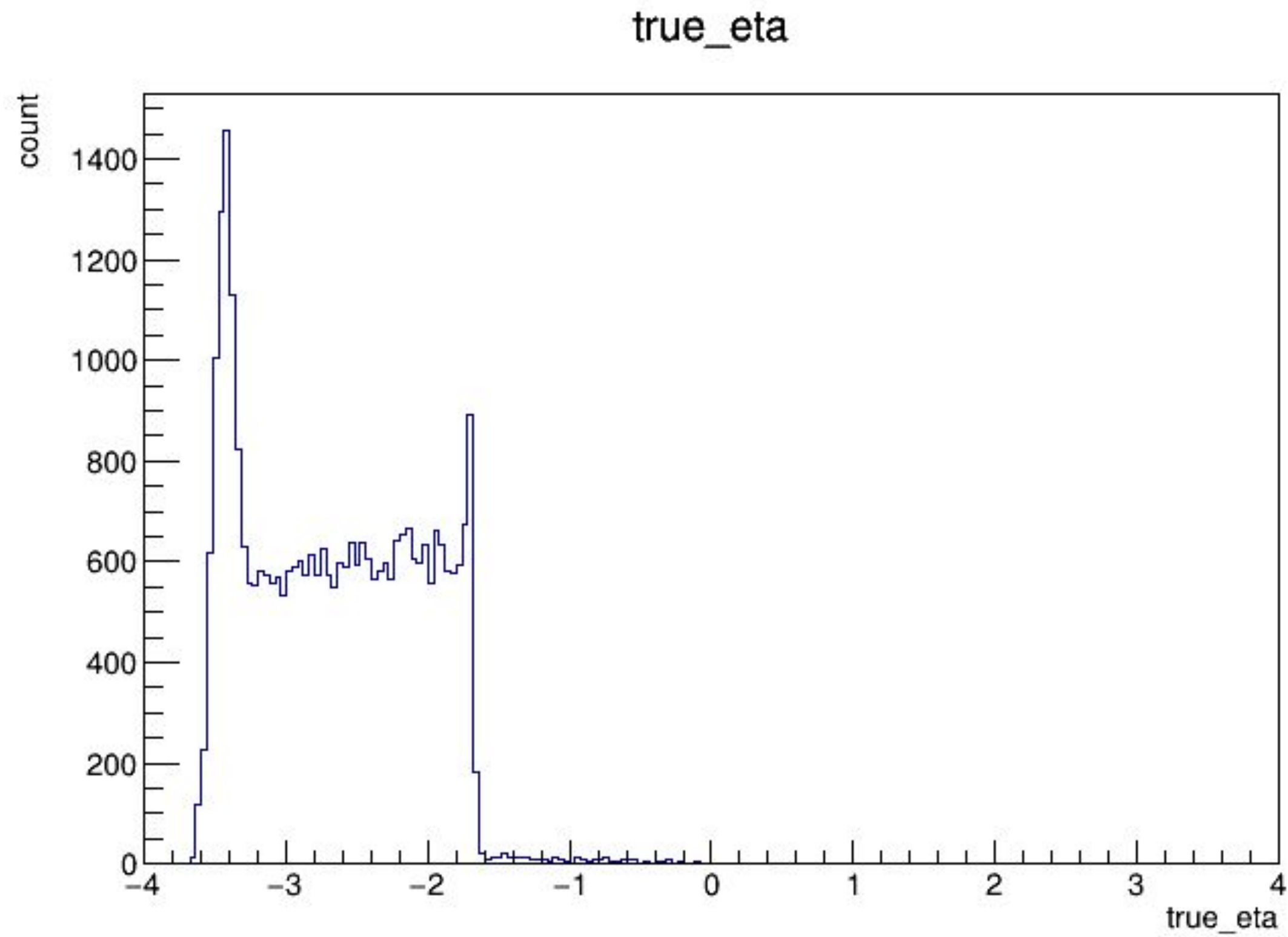
ge distribution



Kaon

EEMC

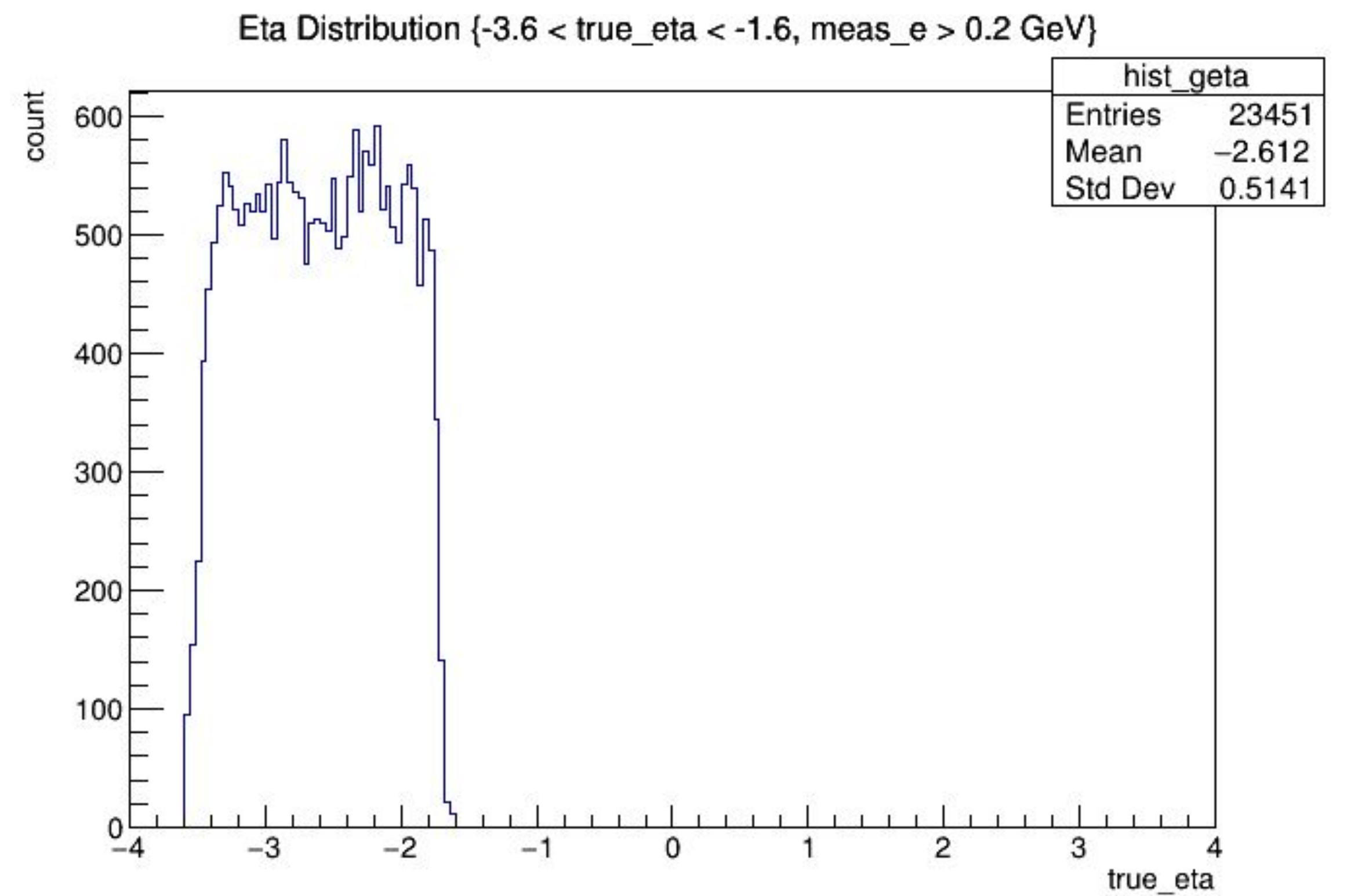
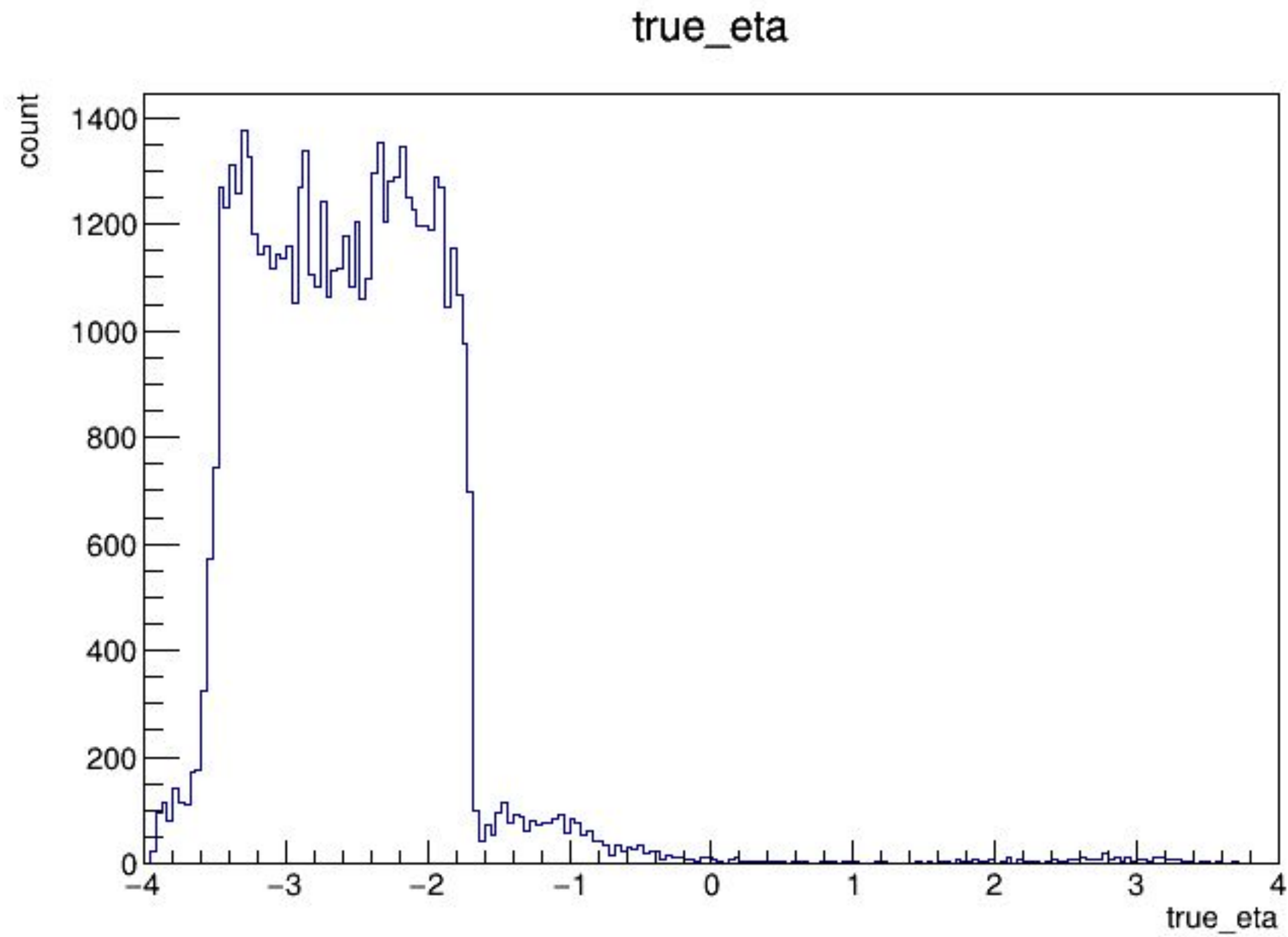
geta distribution



Electron

EEMC

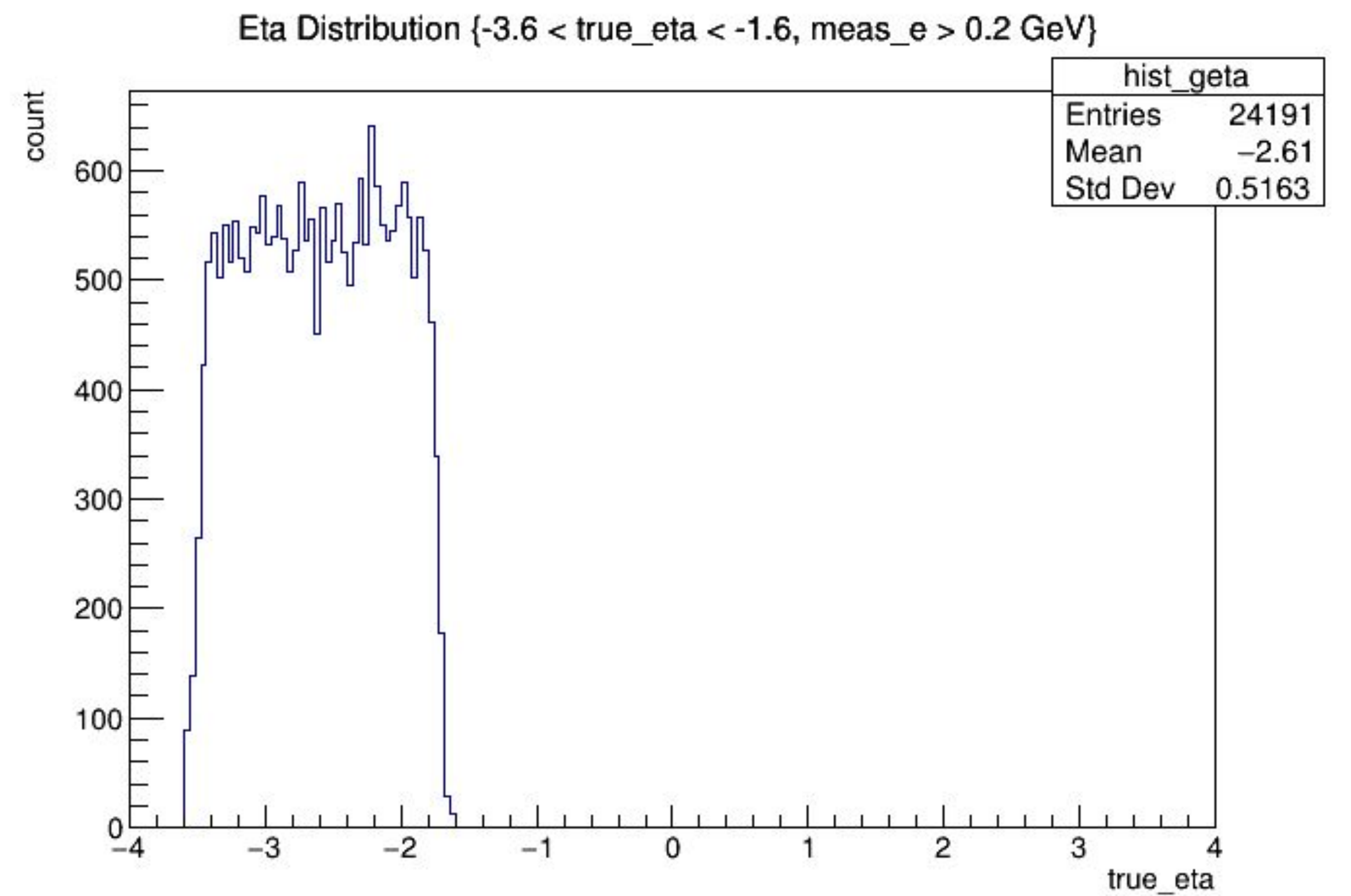
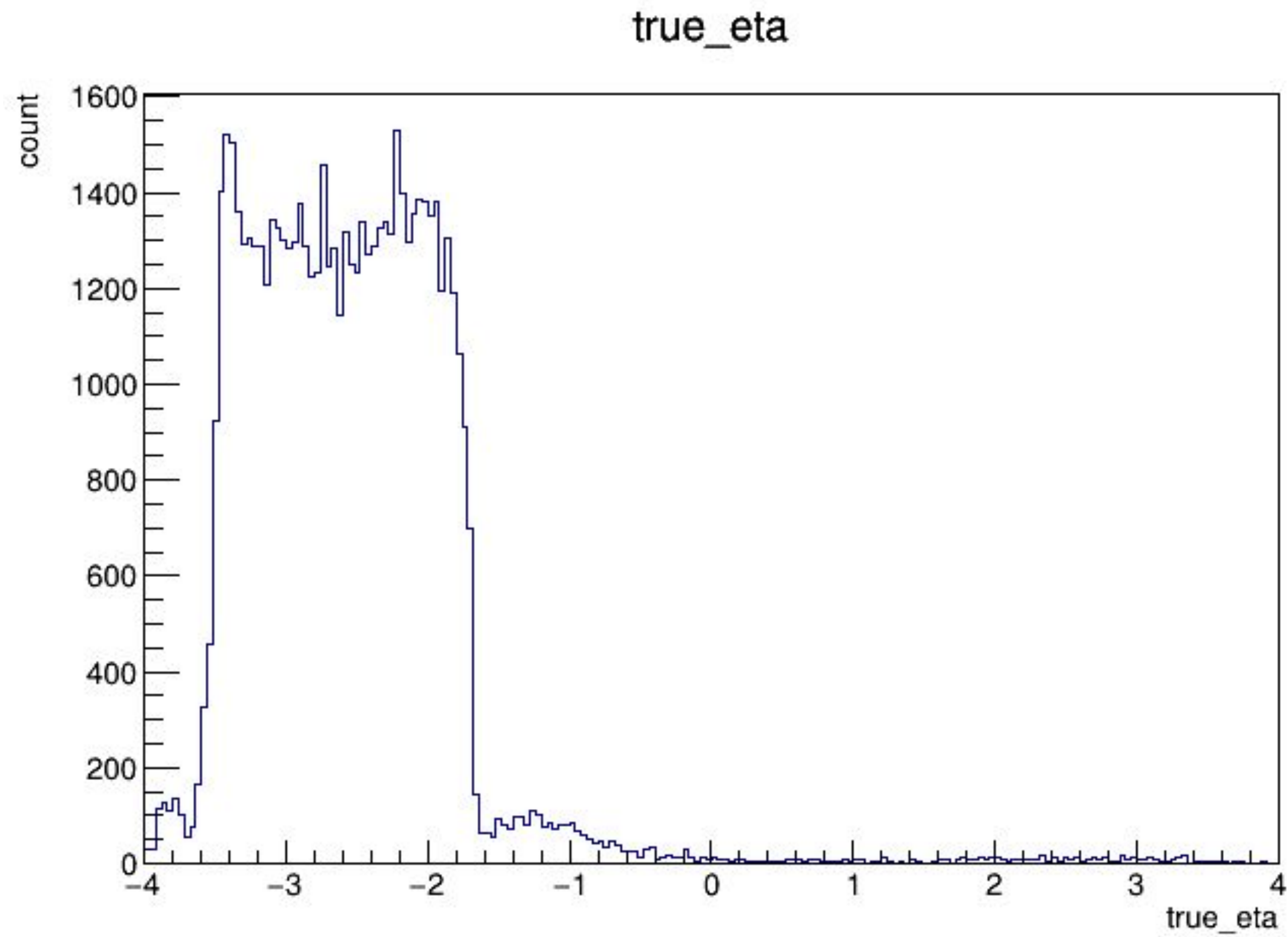
geta distribution



Pion

EEMC

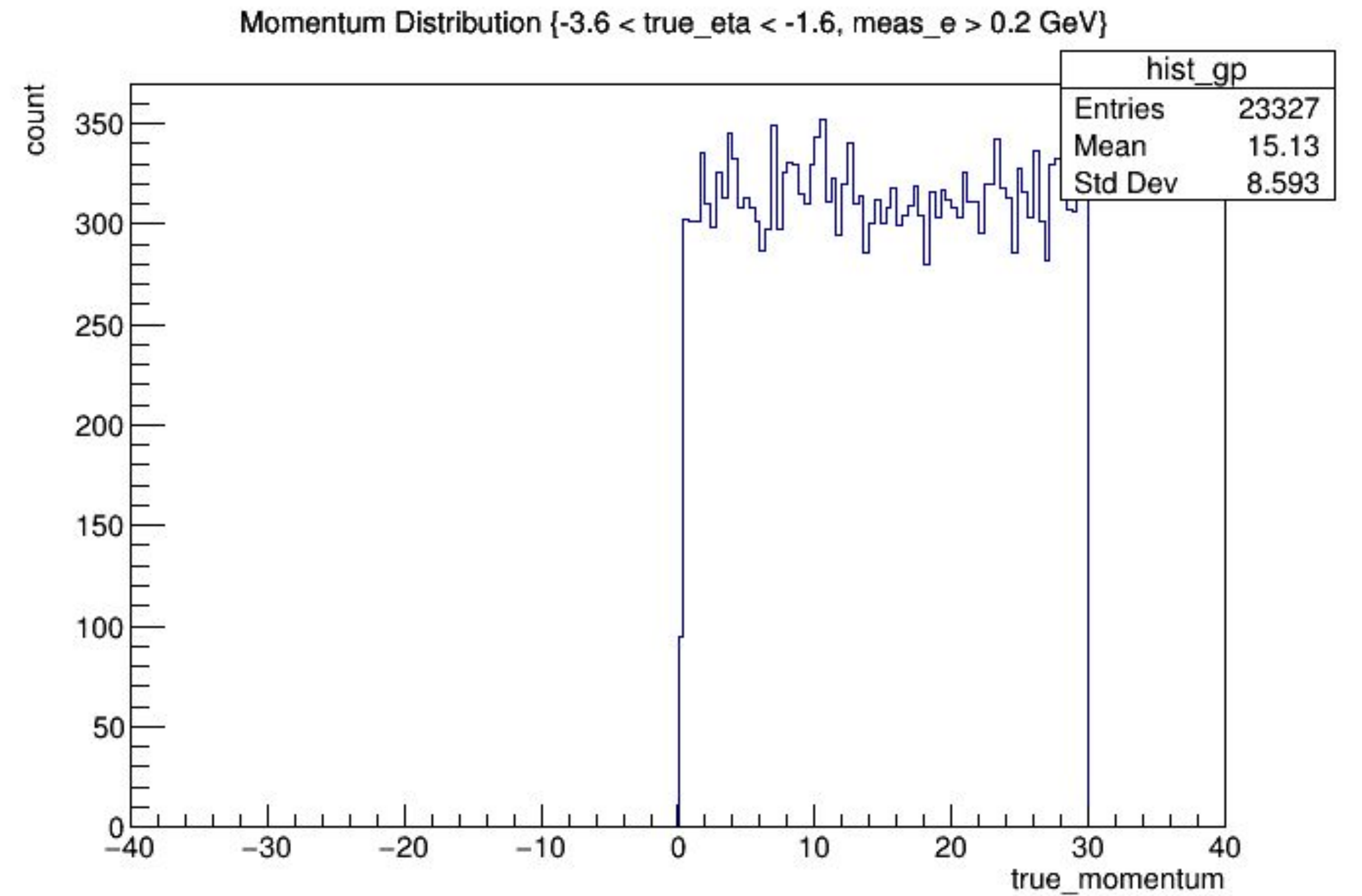
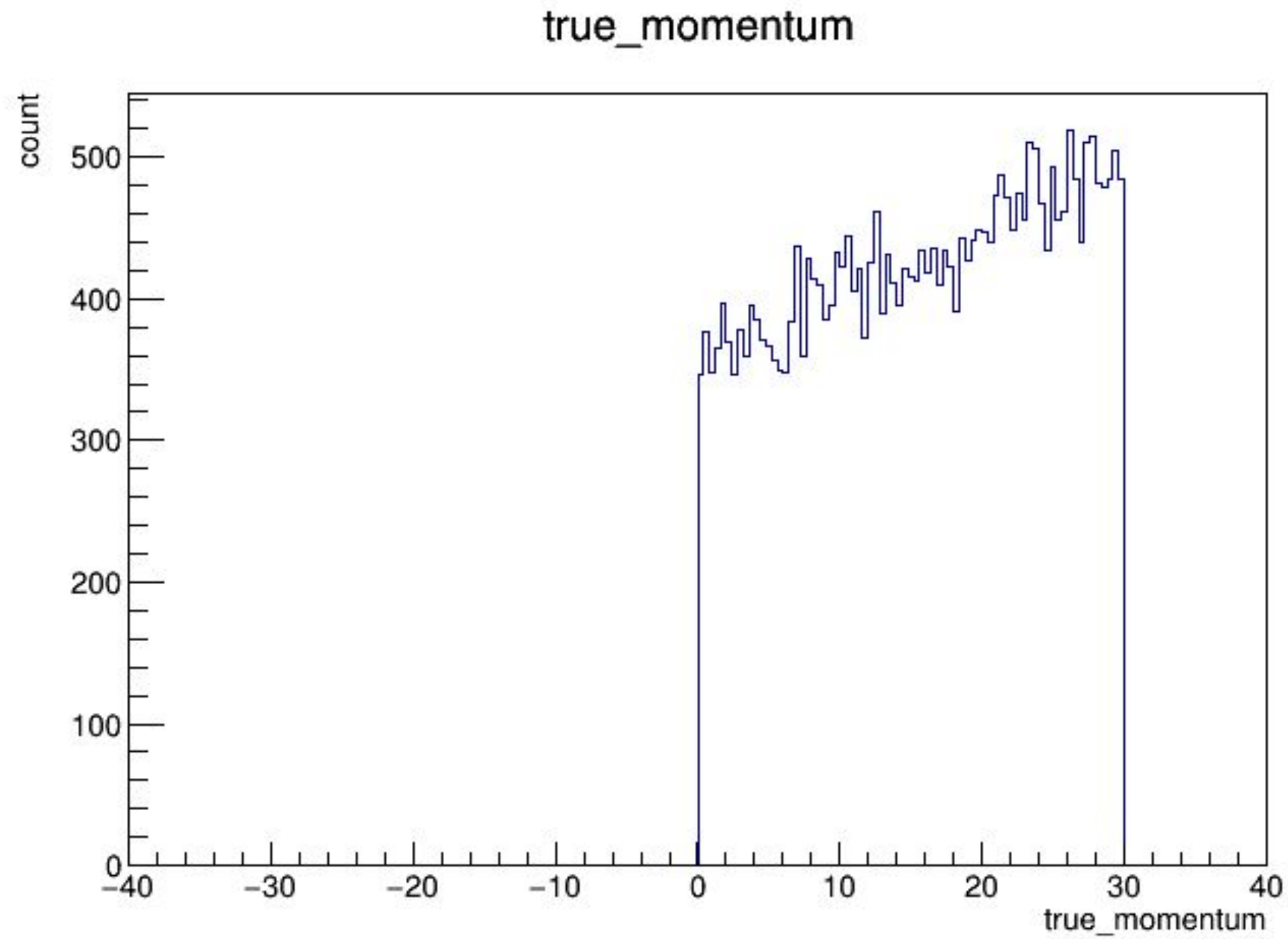
geta distribution



Kaon

EEMC

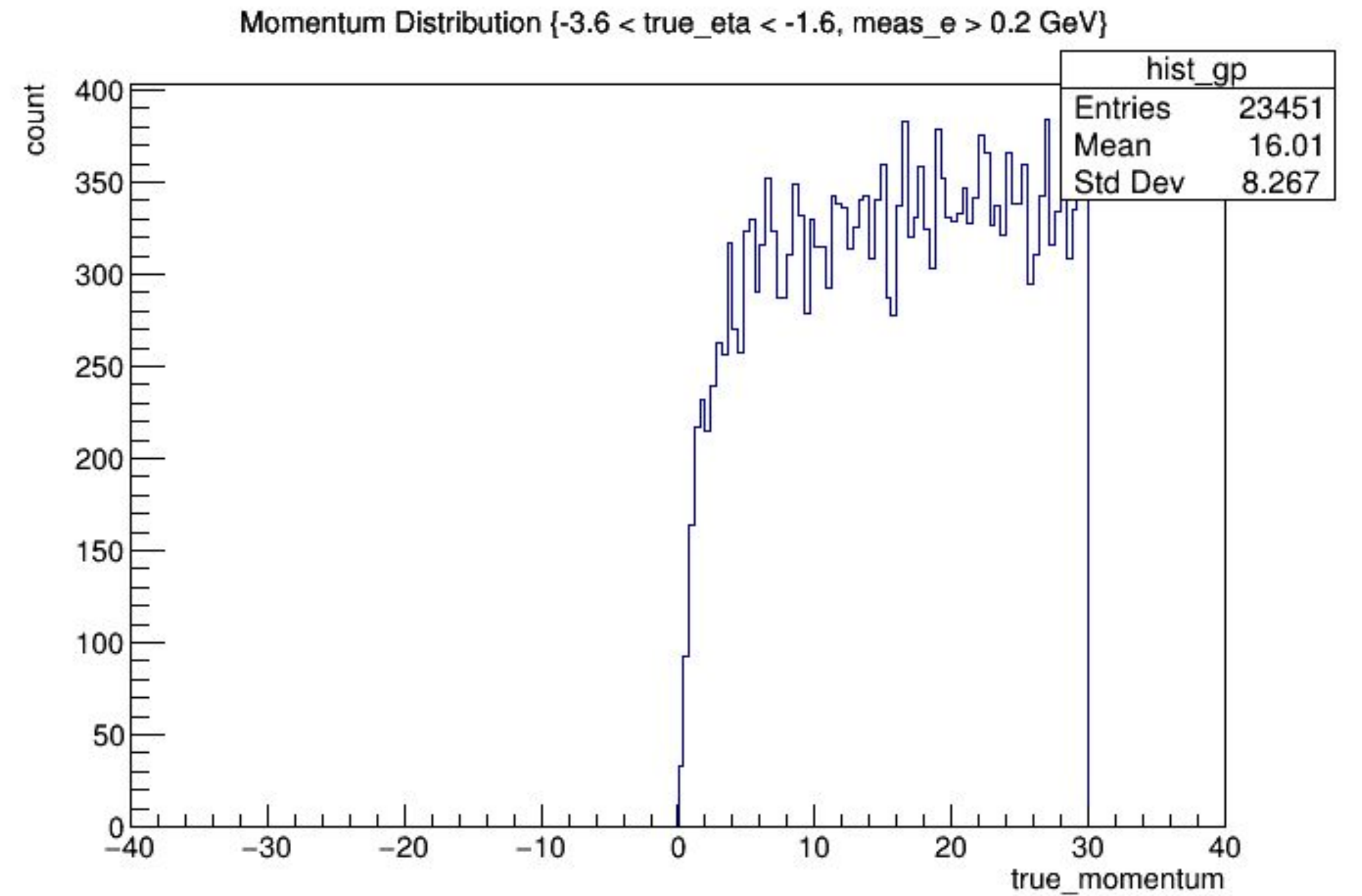
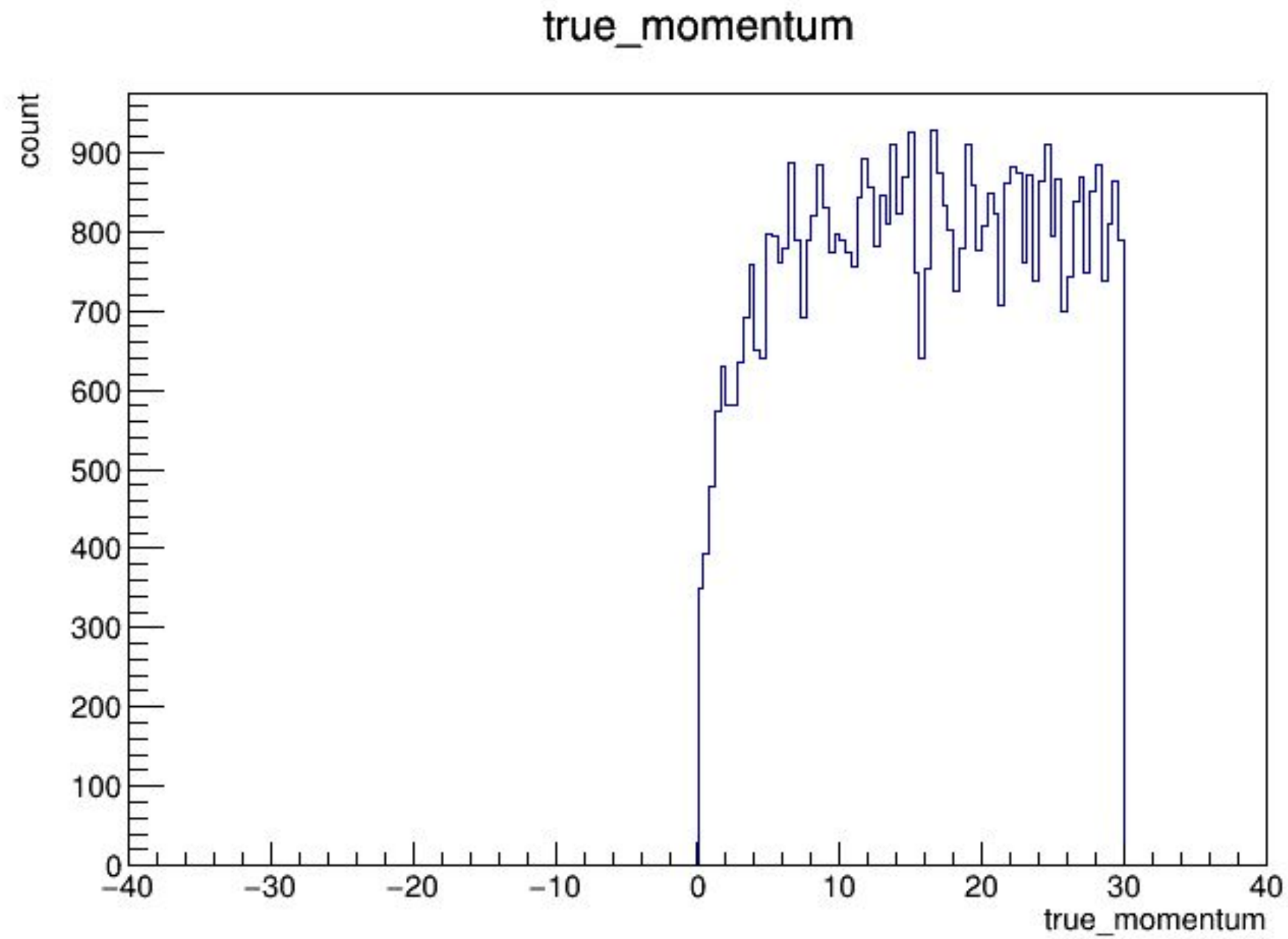
Momentum distribution



Electron

EEMC

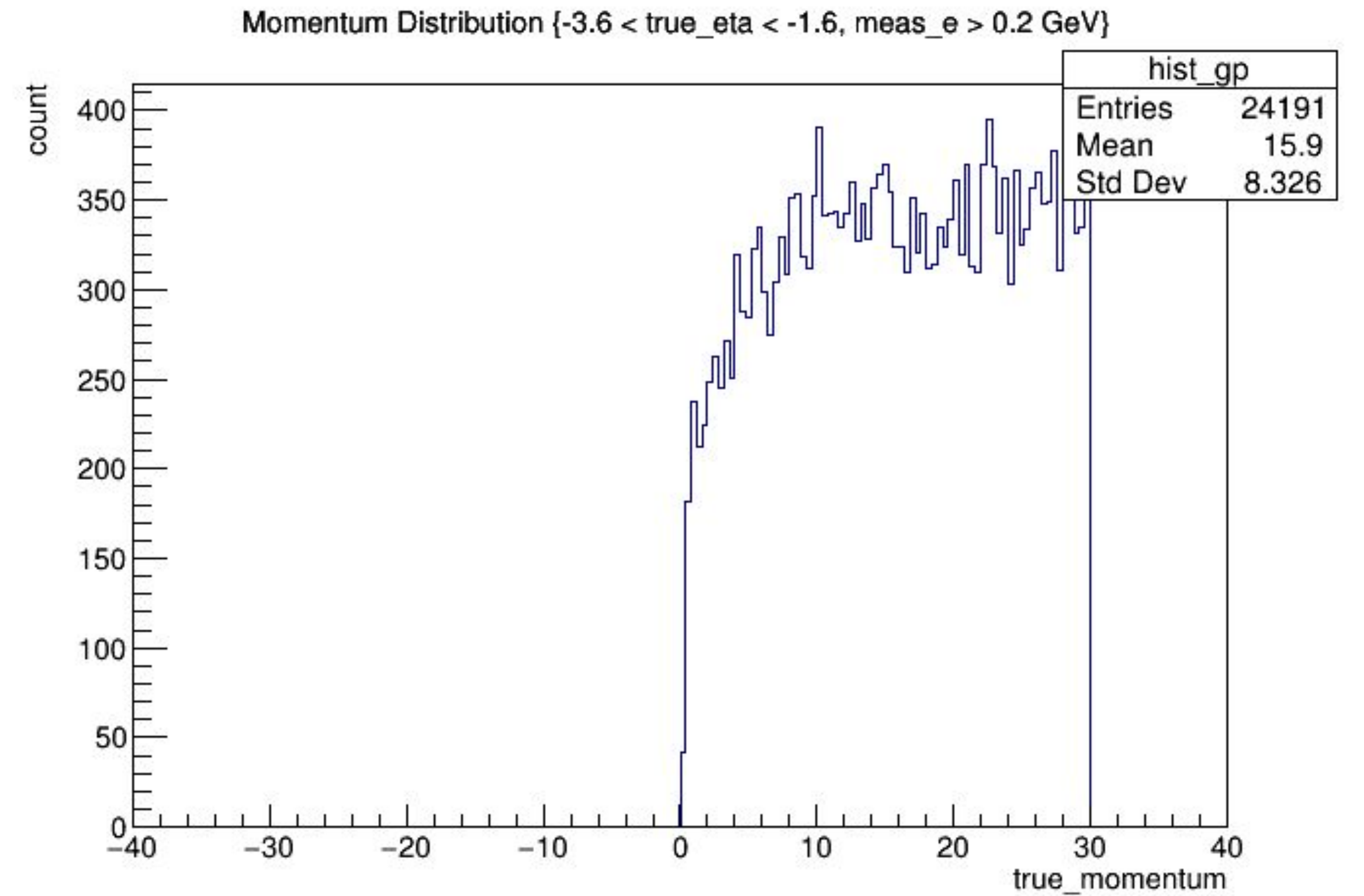
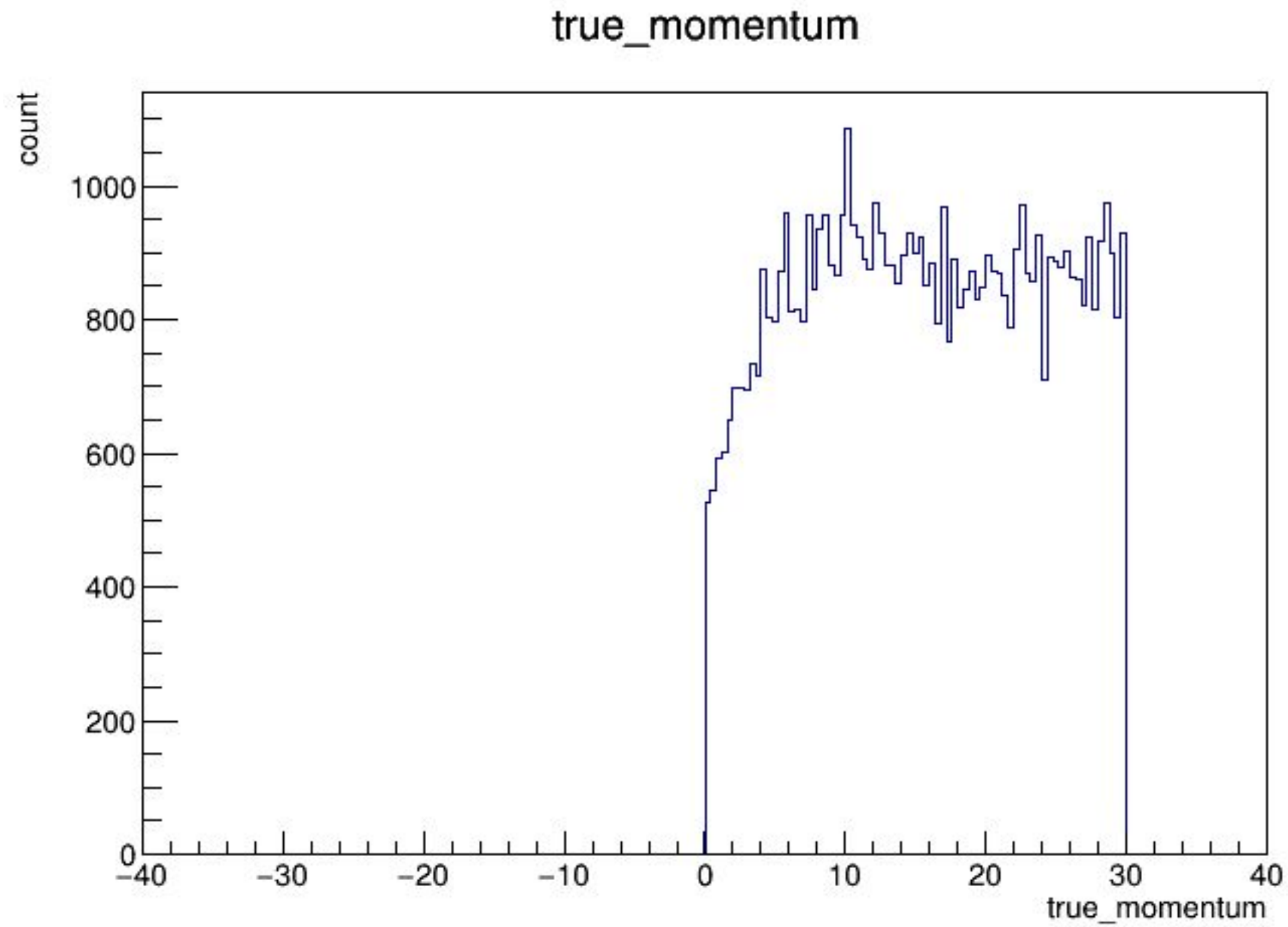
Momentum distribution



Pion

EEMC

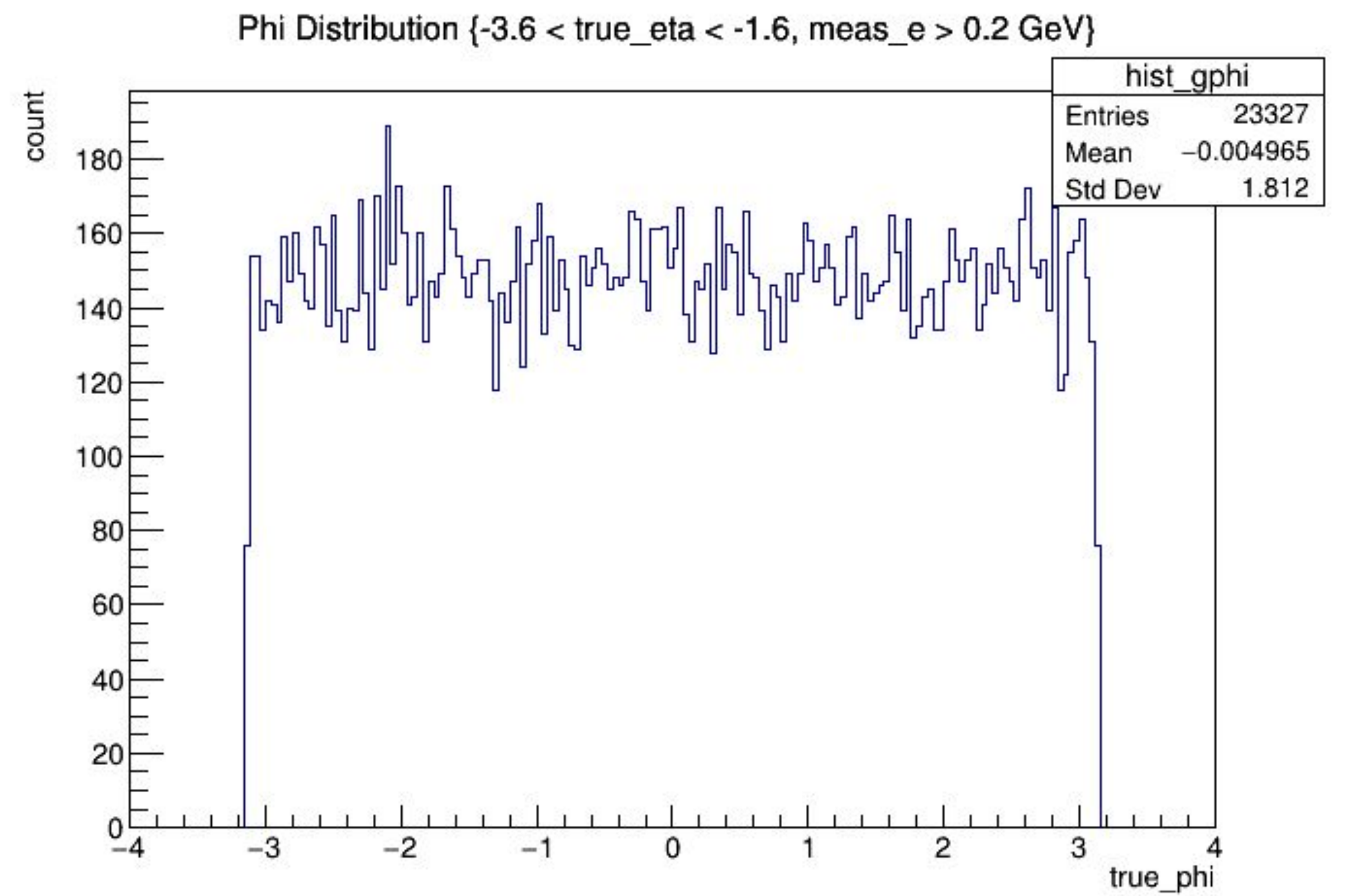
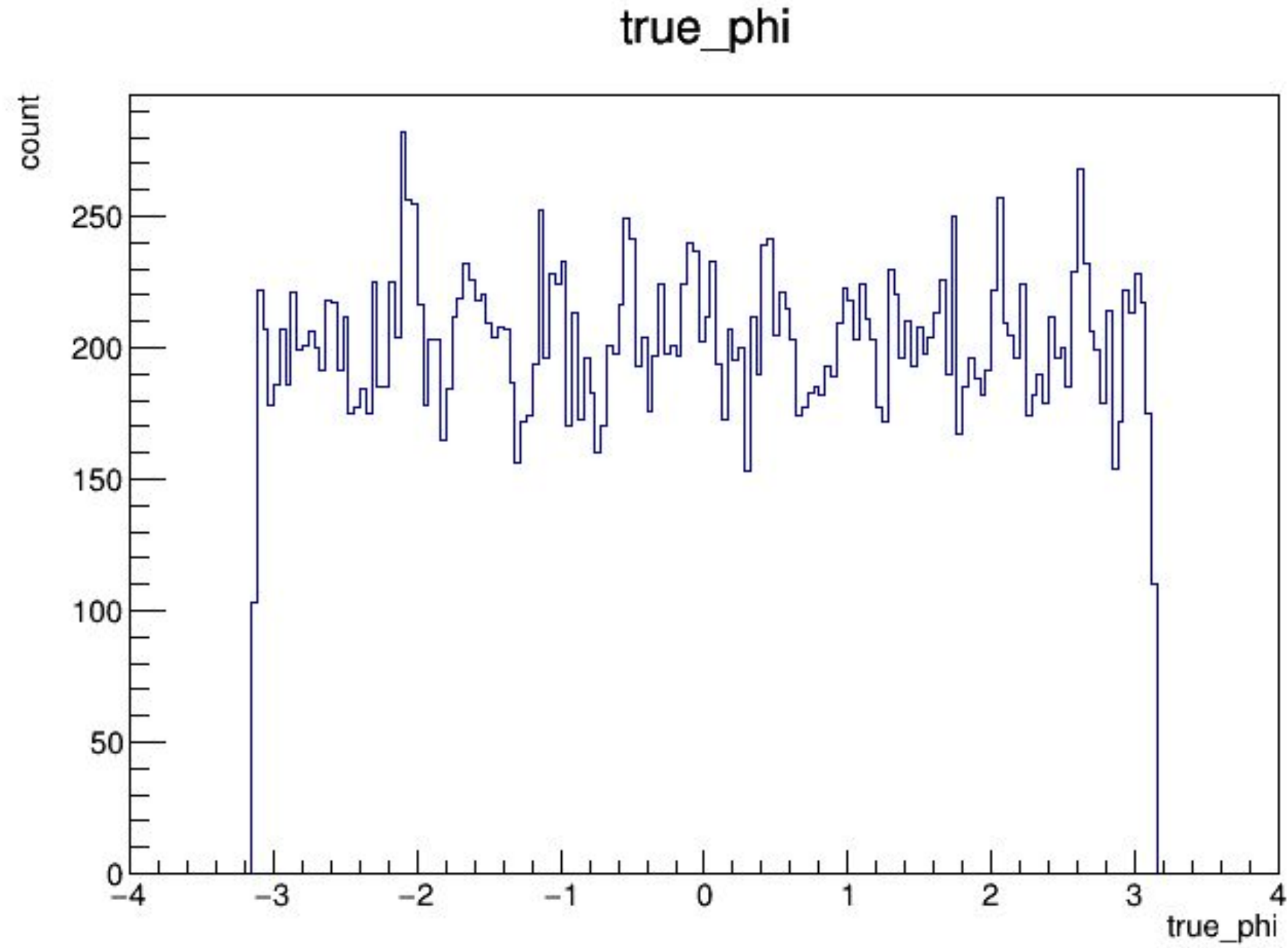
Momentum distribution



Kaon

EEMC

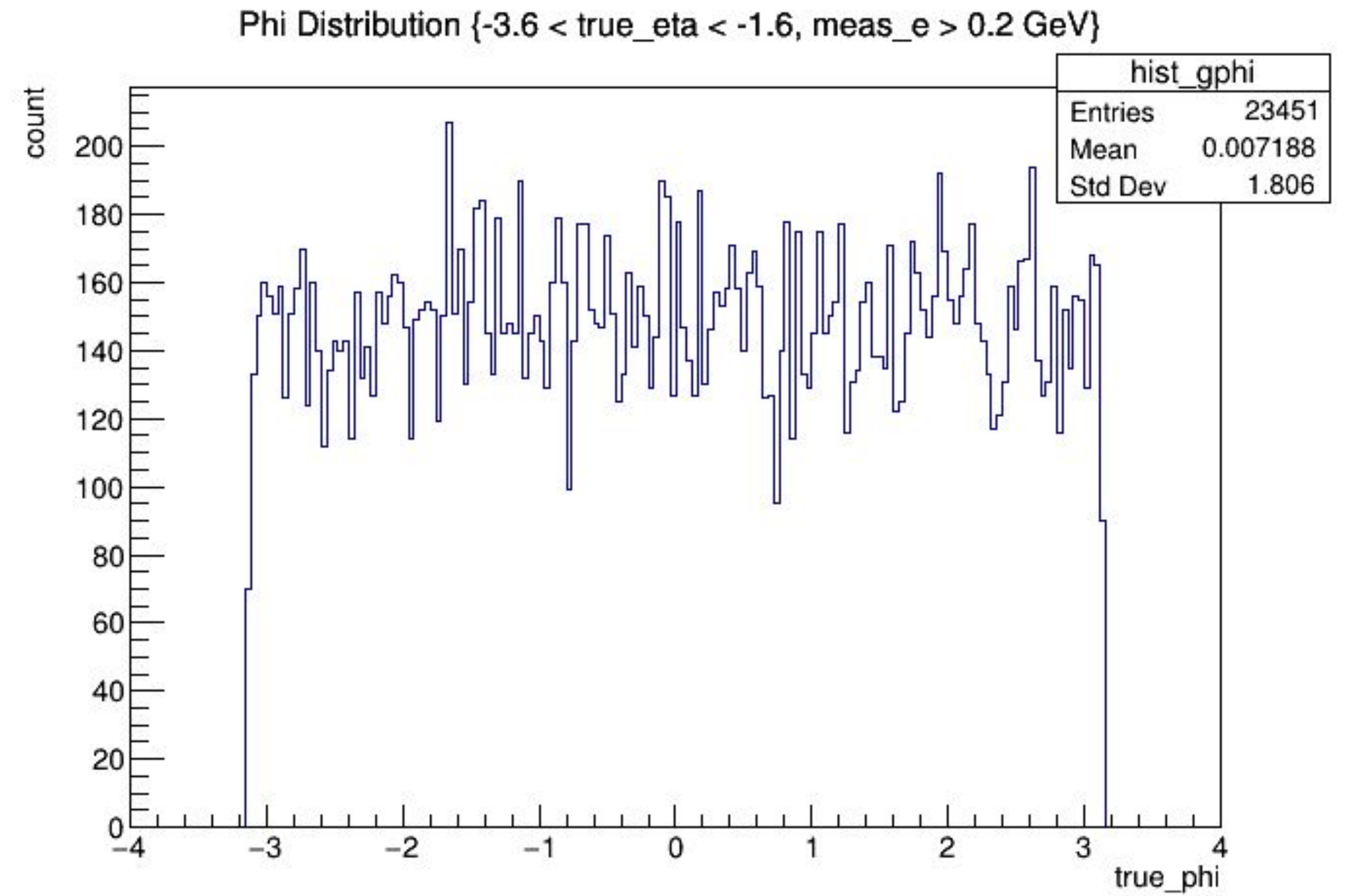
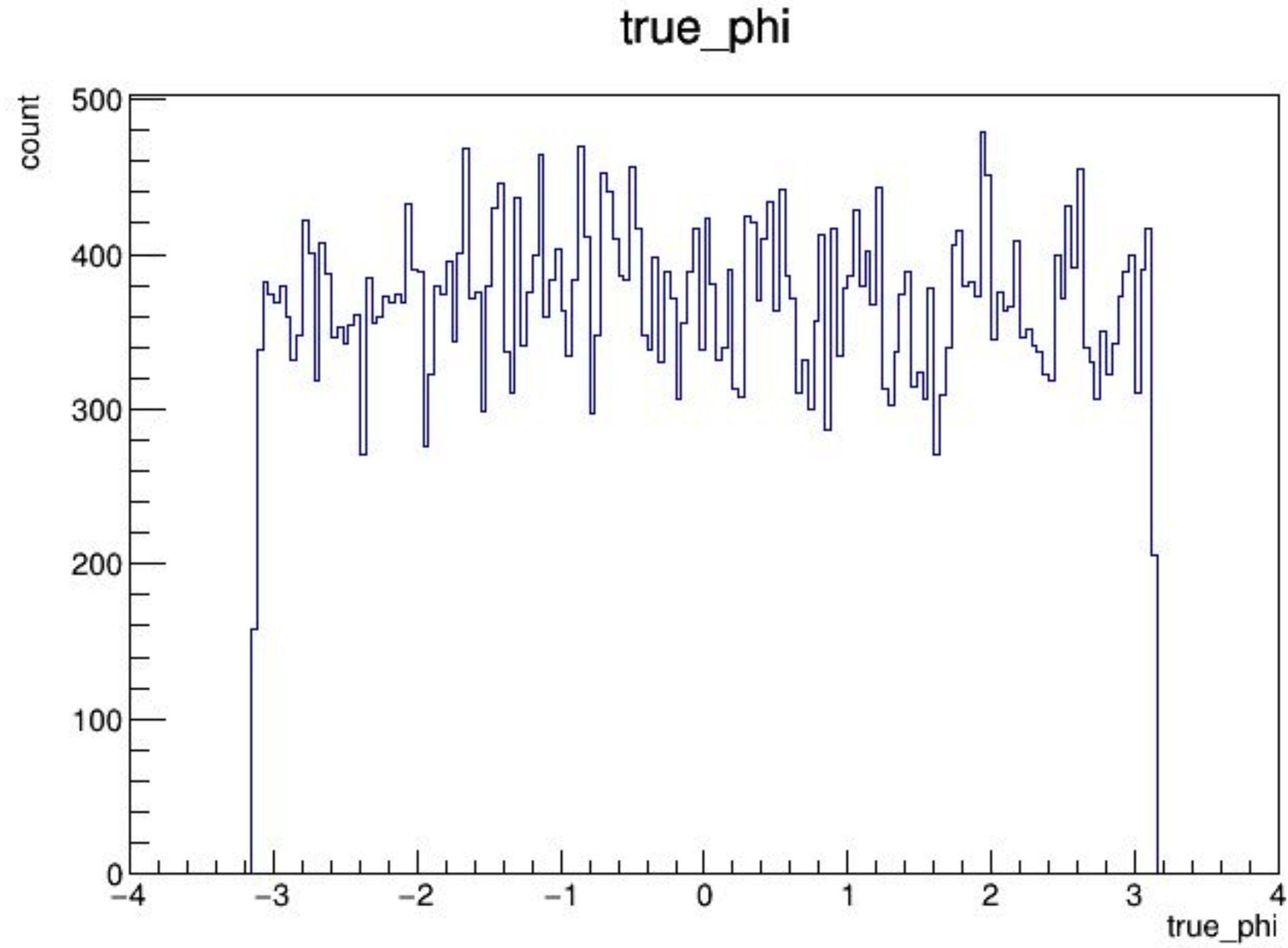
Phi distribution



Electron

EEMC

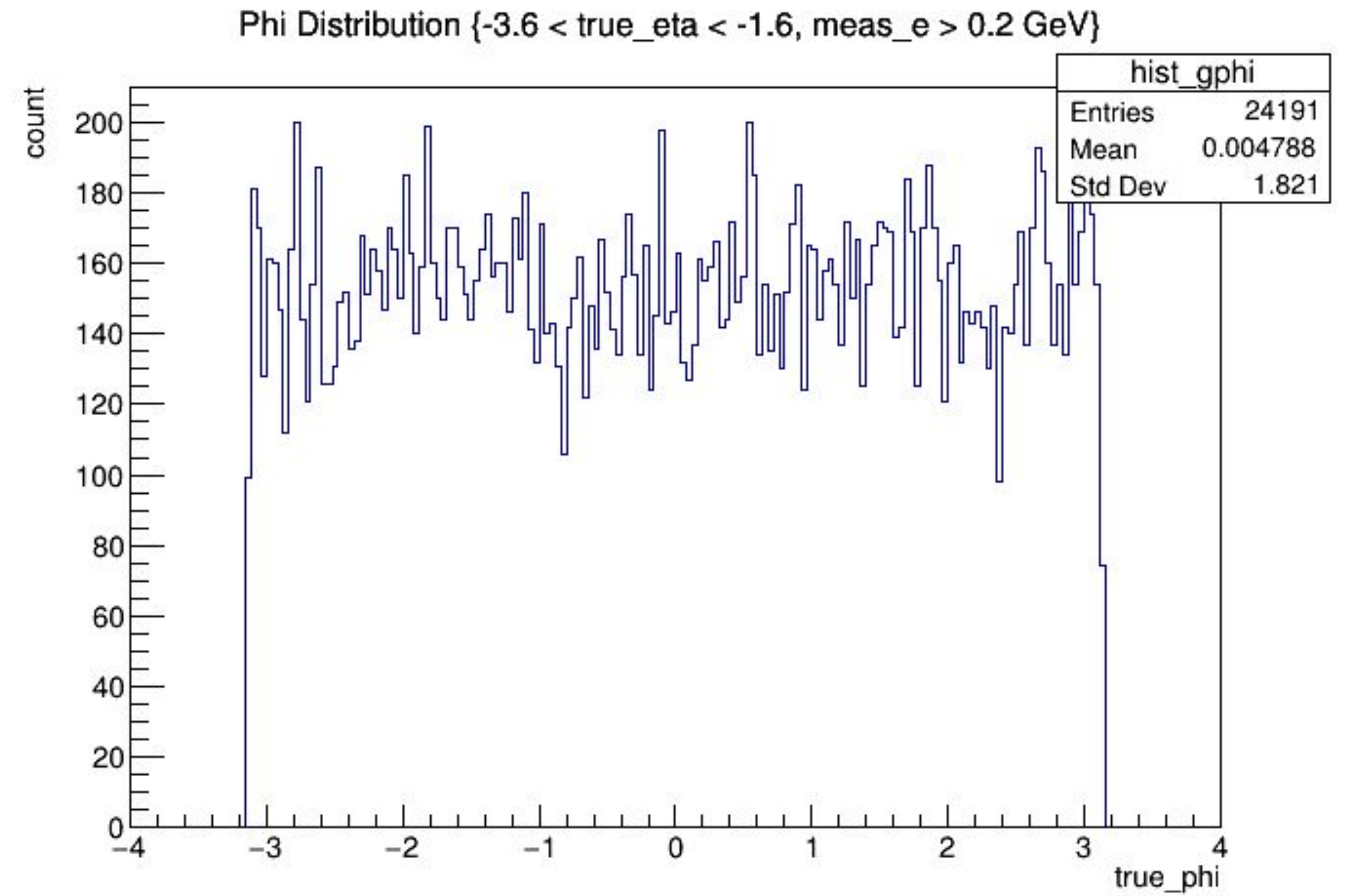
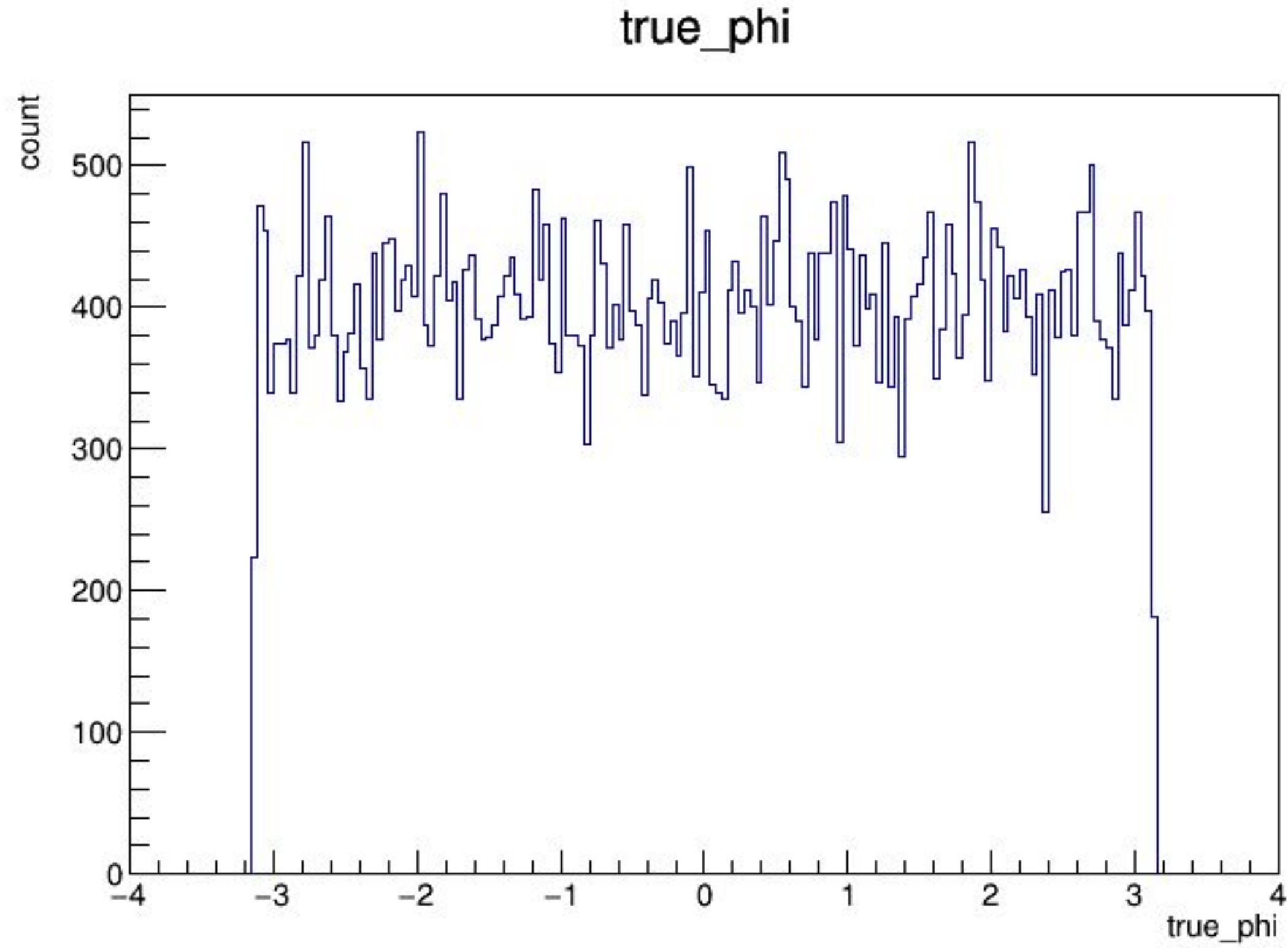
Phi distribution



Pion

EEMC

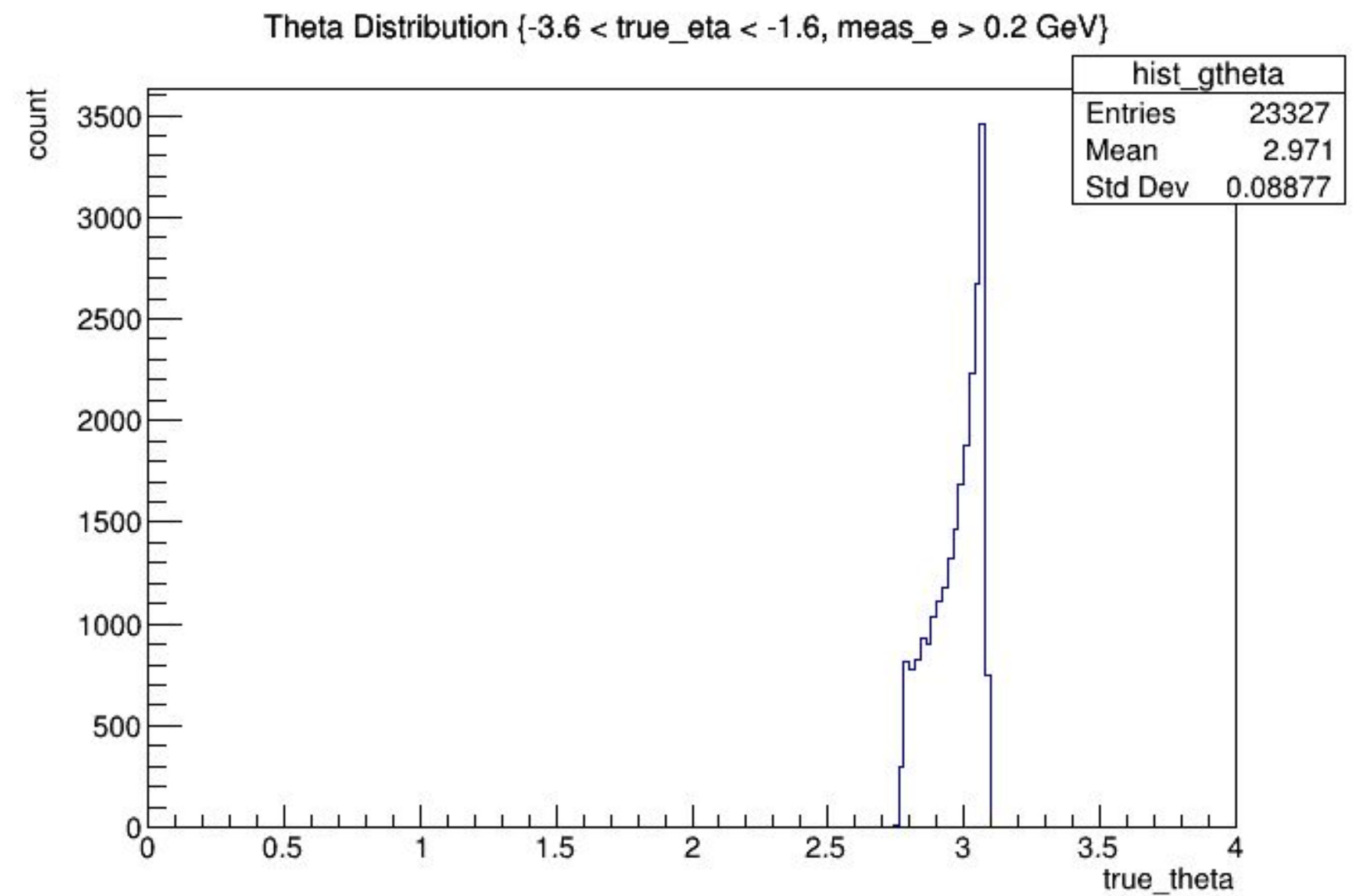
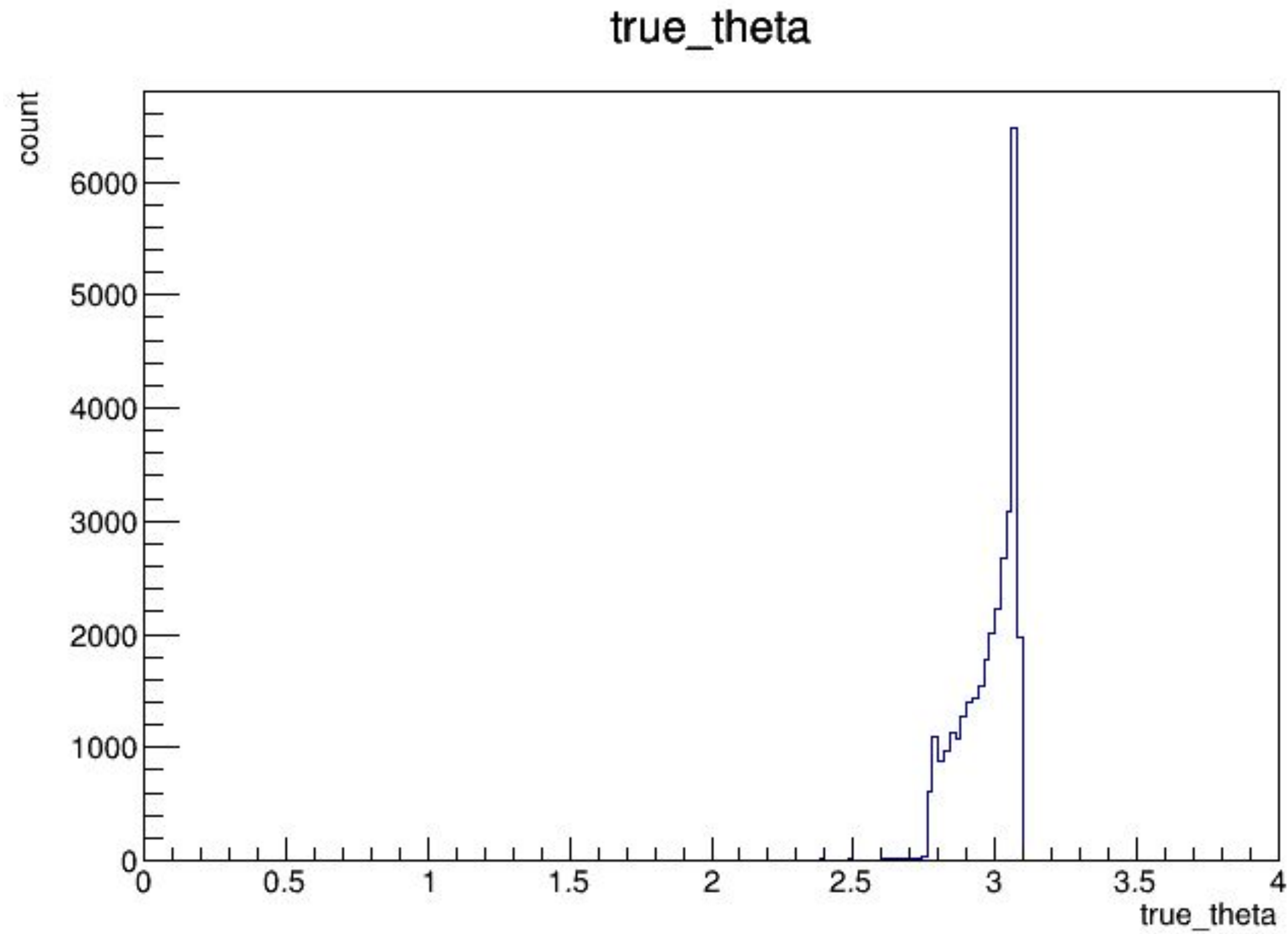
Phi distribution



Kaon

EEMC

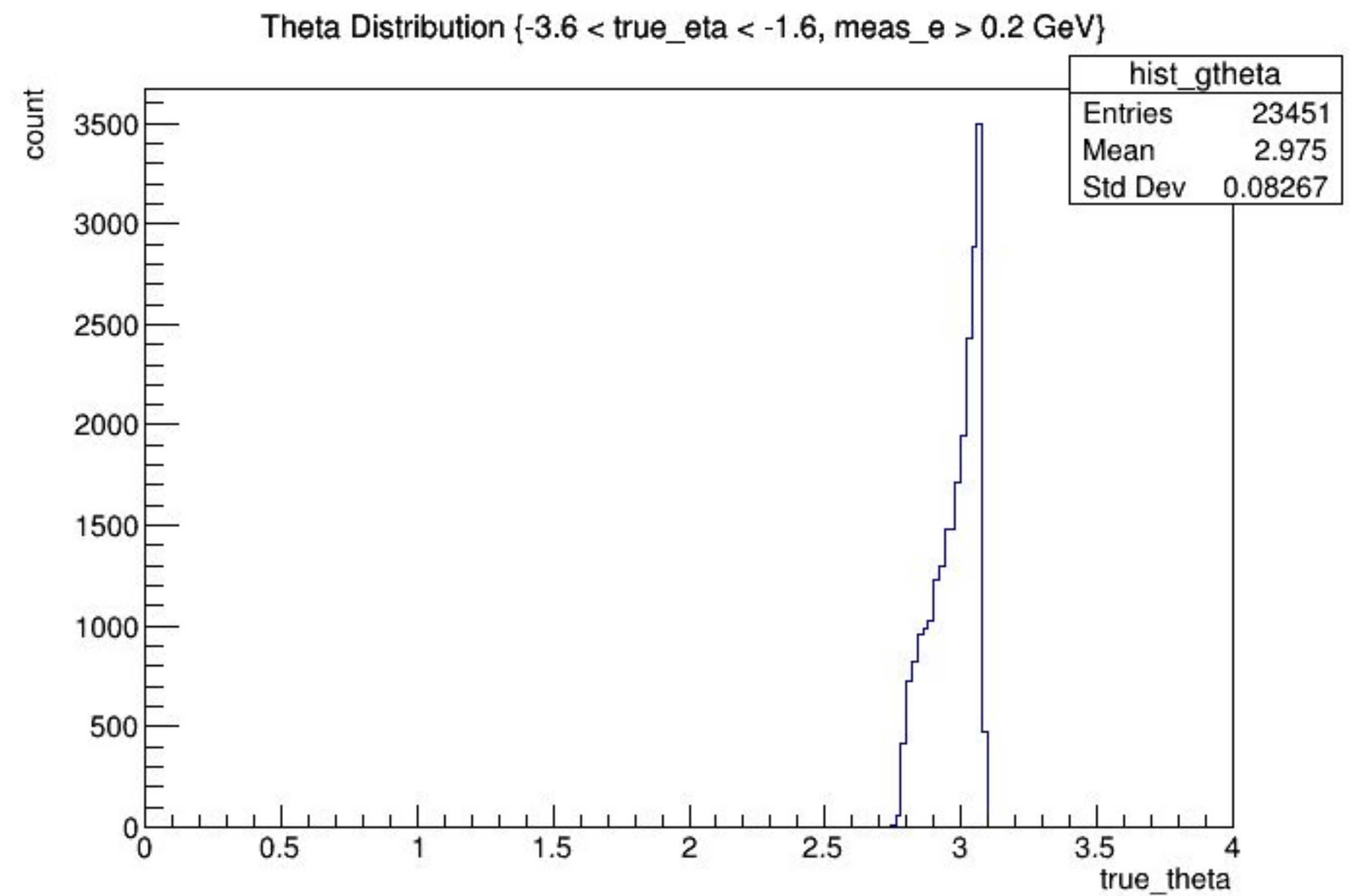
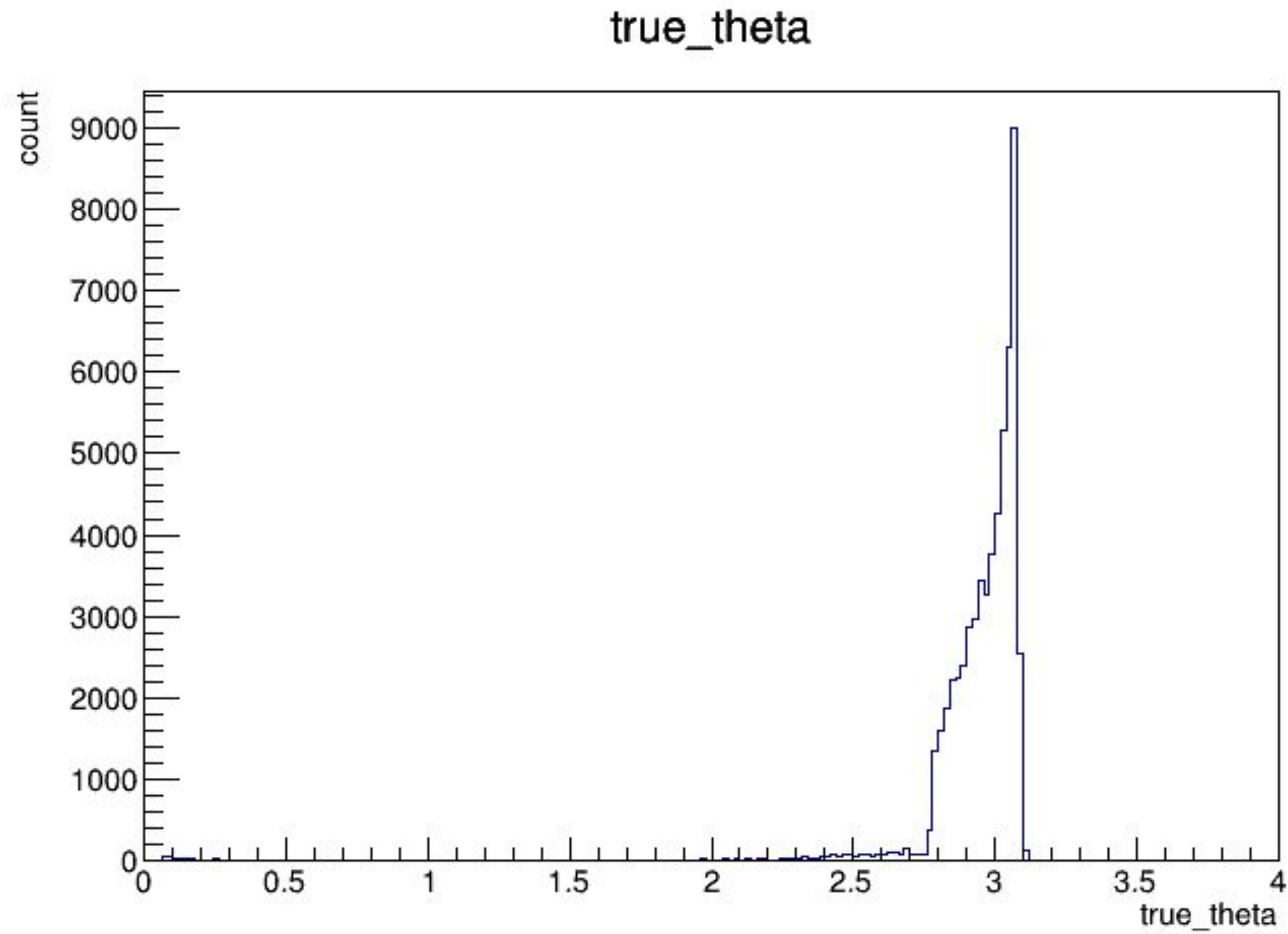
Theta distribution



Electron

EEMC

Theta distribution

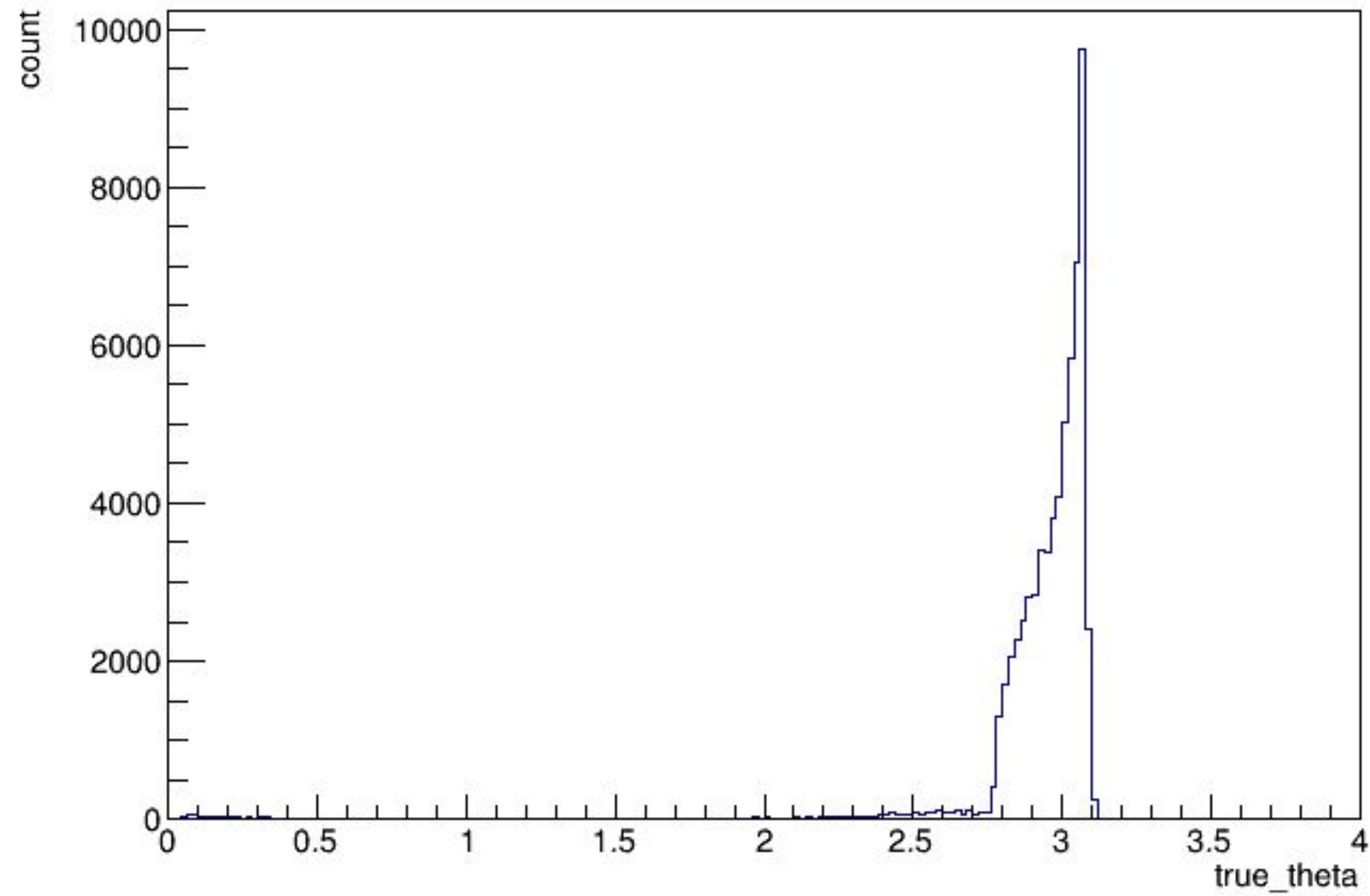


Pion

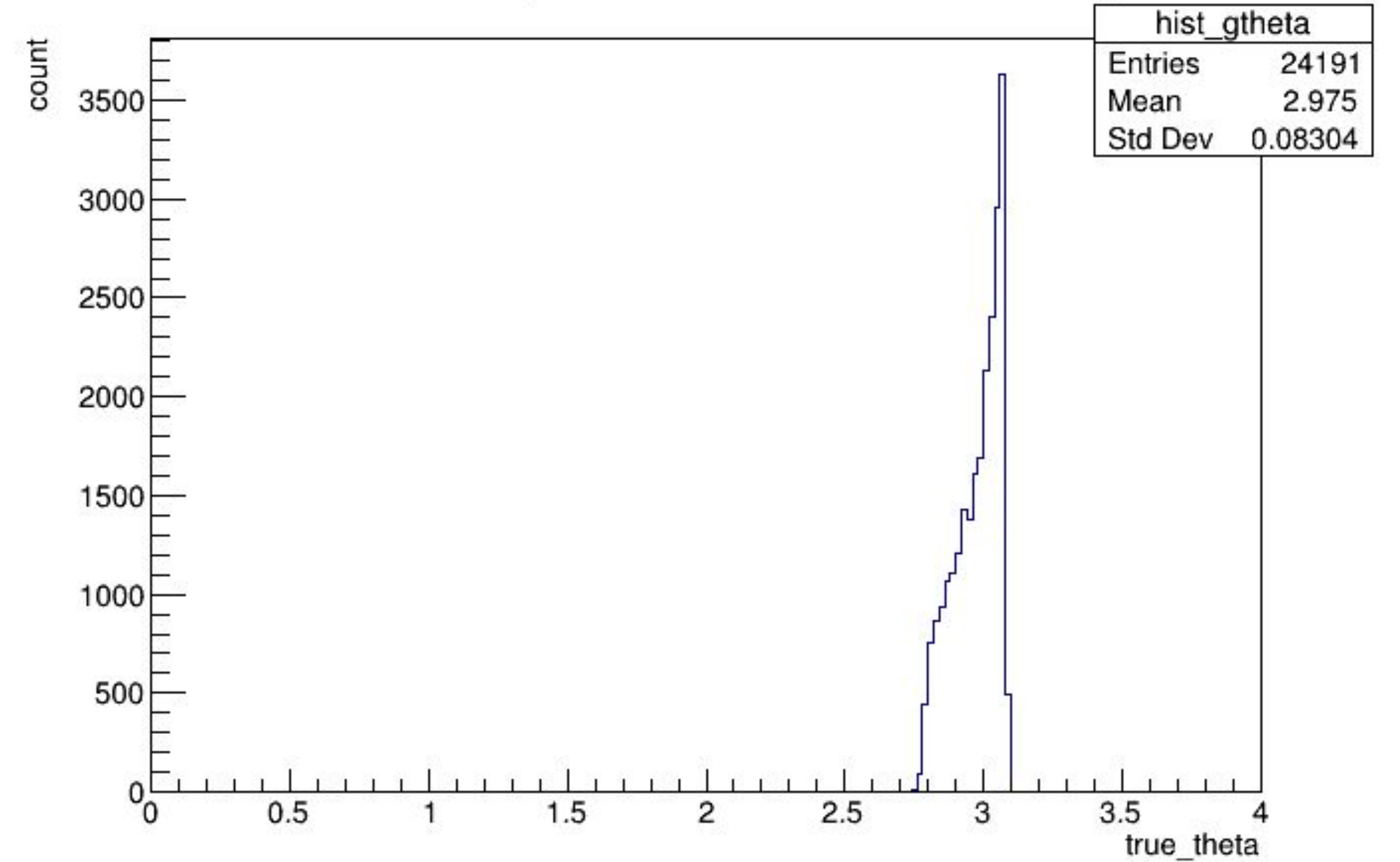
EEMC

Theta distribution

true_theta



Theta Distribution $\{-3.6 < \text{true_eta} < -1.6, \text{meas_e} > 0.2 \text{ GeV}\}$

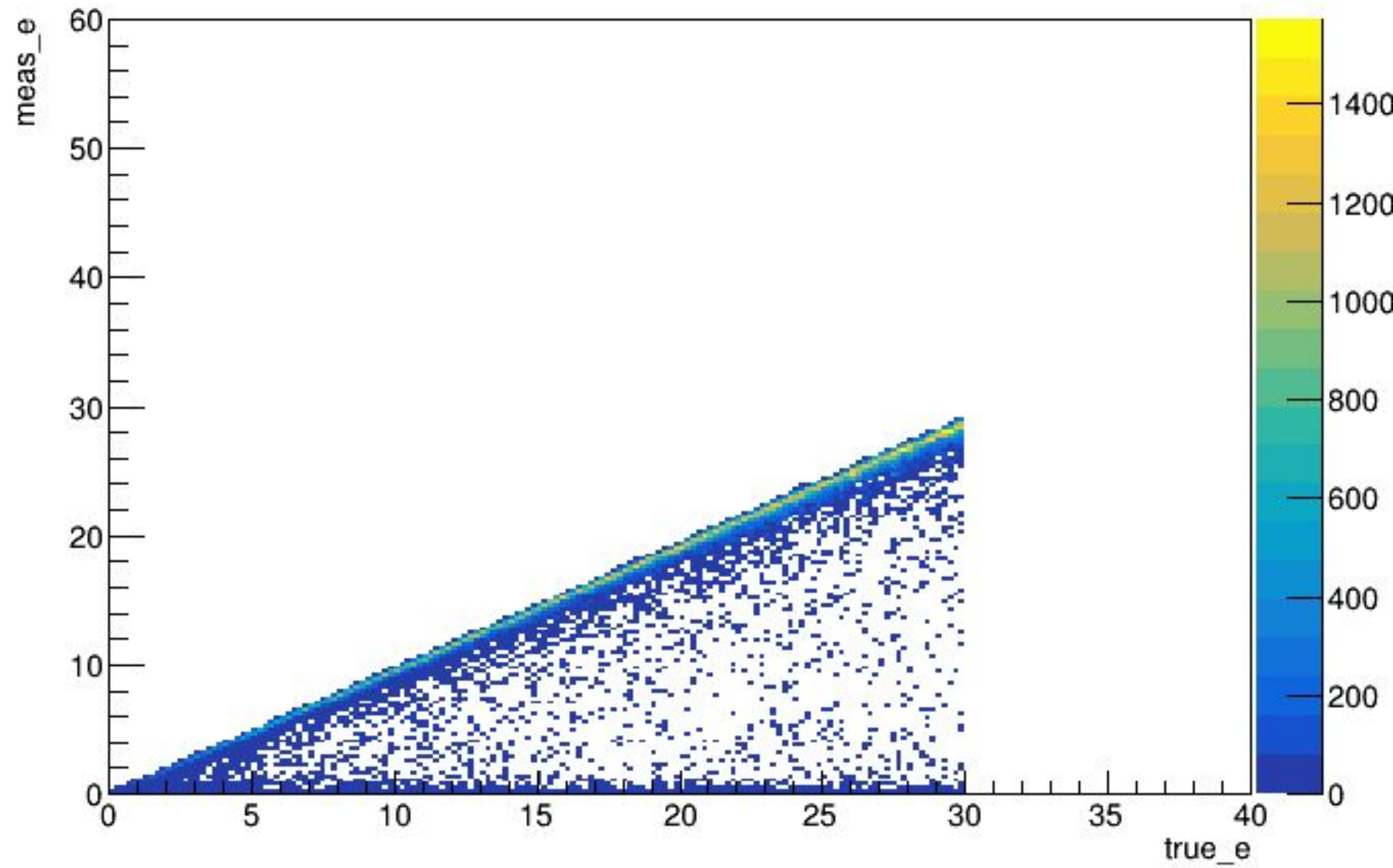


Kaon

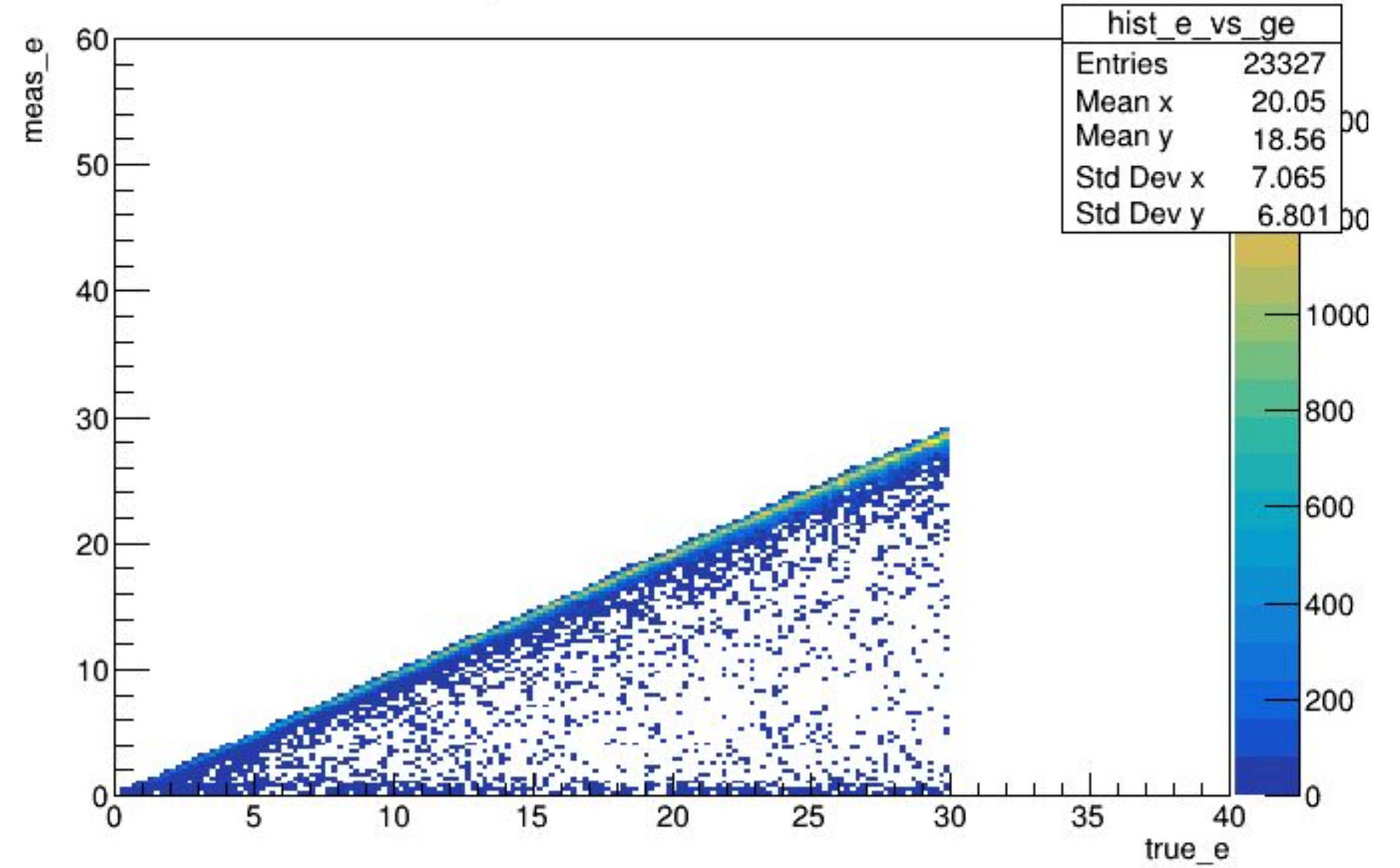
EEMC

e vs ge

meas_e vs true_e



meas_e vs true_e $\{-3.6 < \text{true_eta} < -1.6, \text{meas_e} > 0.2 \text{ GeV}\}$

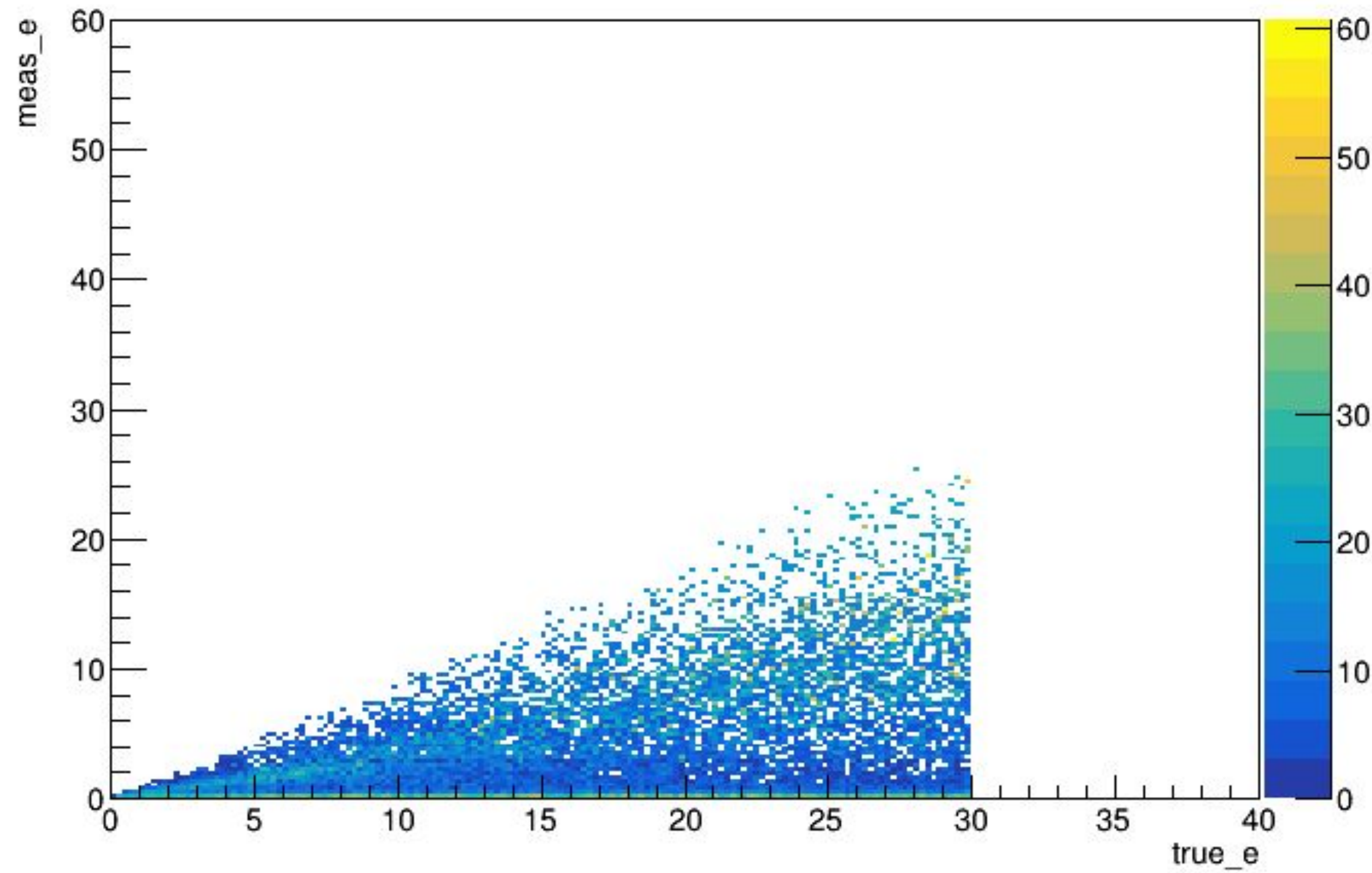


Electron

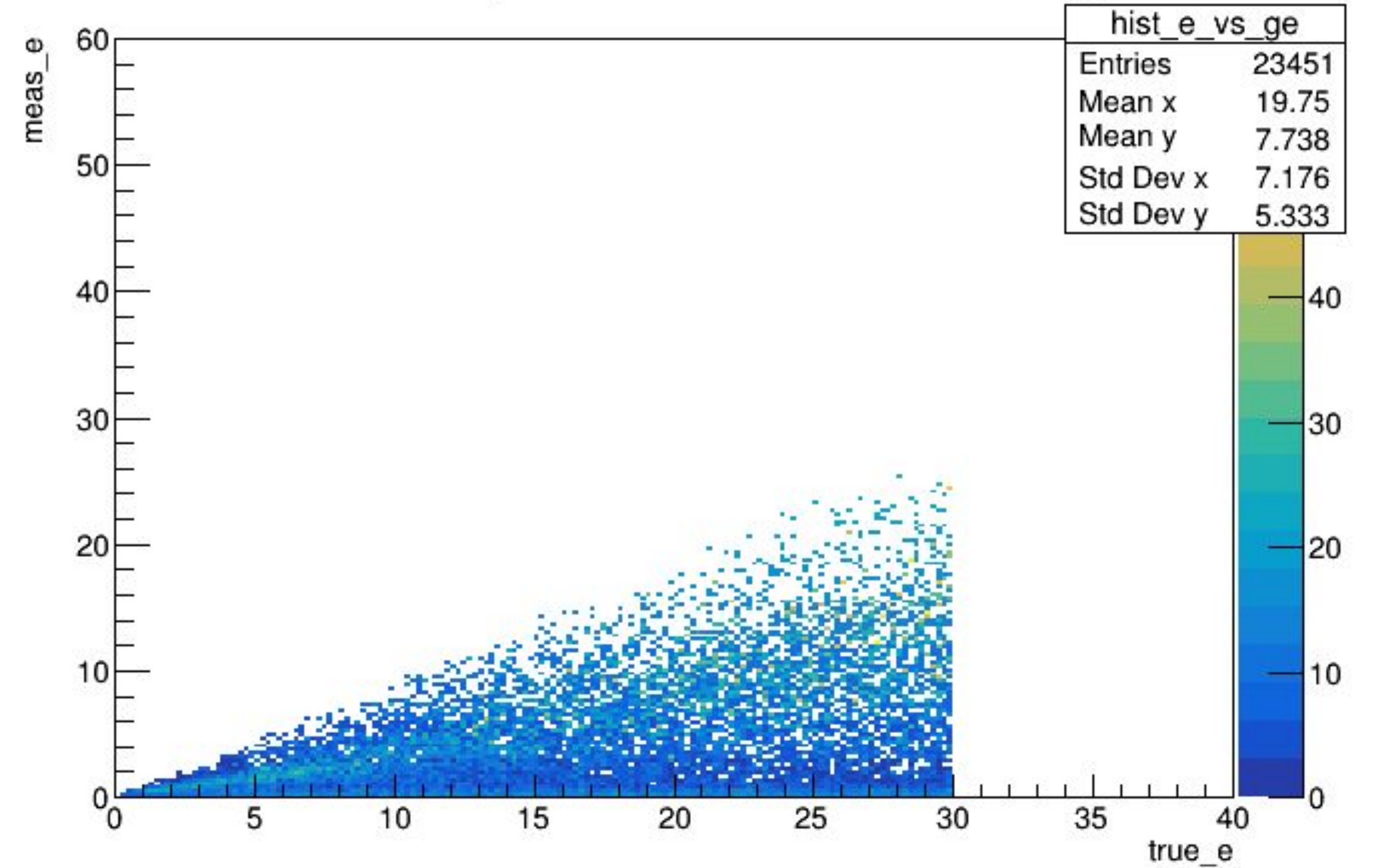
EEMC

e vs ge

meas_e vs true_e



meas_e vs true_e $\{-3.6 < \text{true_eta} < -1.6, \text{meas_e} > 0.2 \text{ GeV}\}$

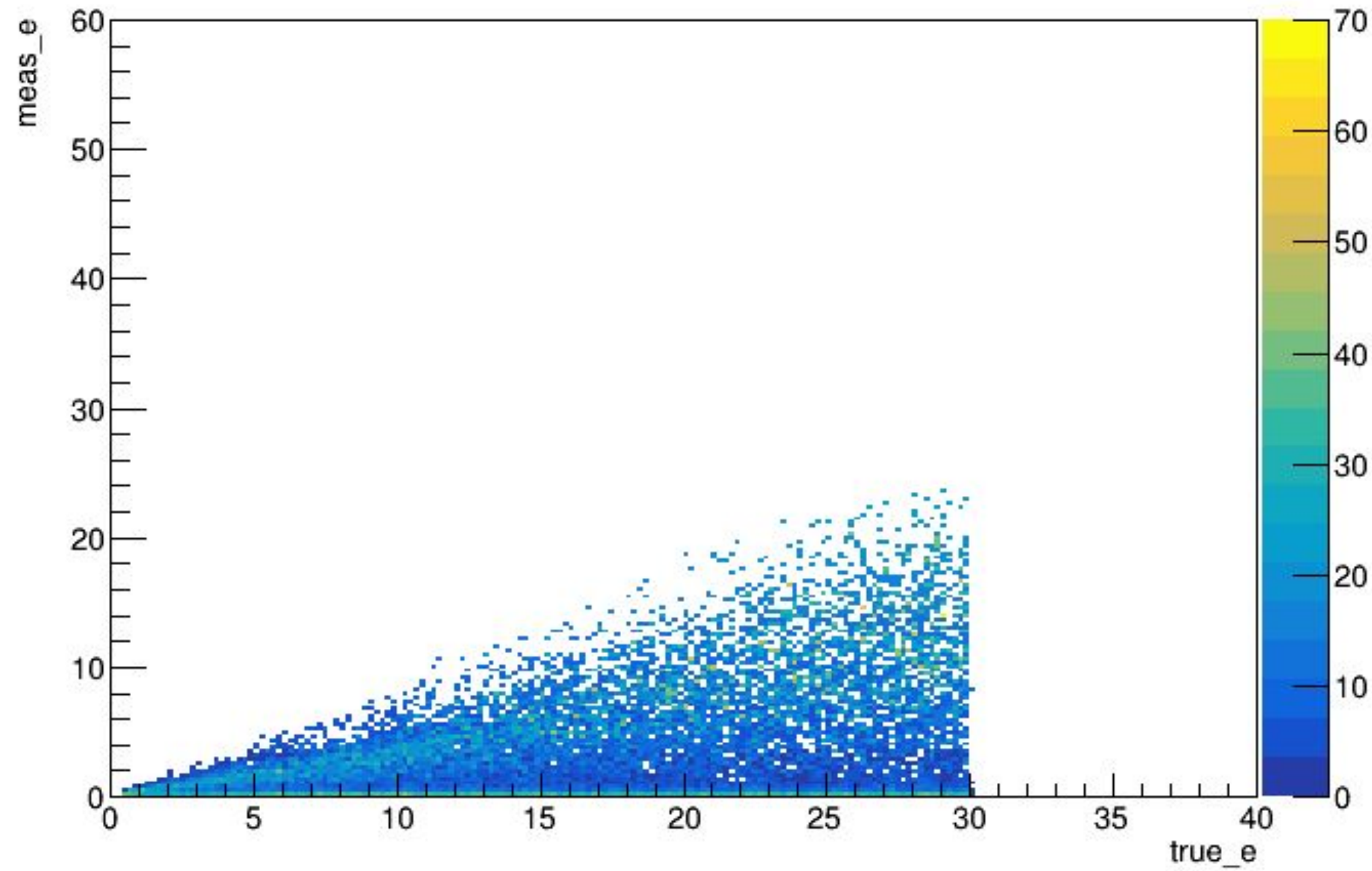


Pion

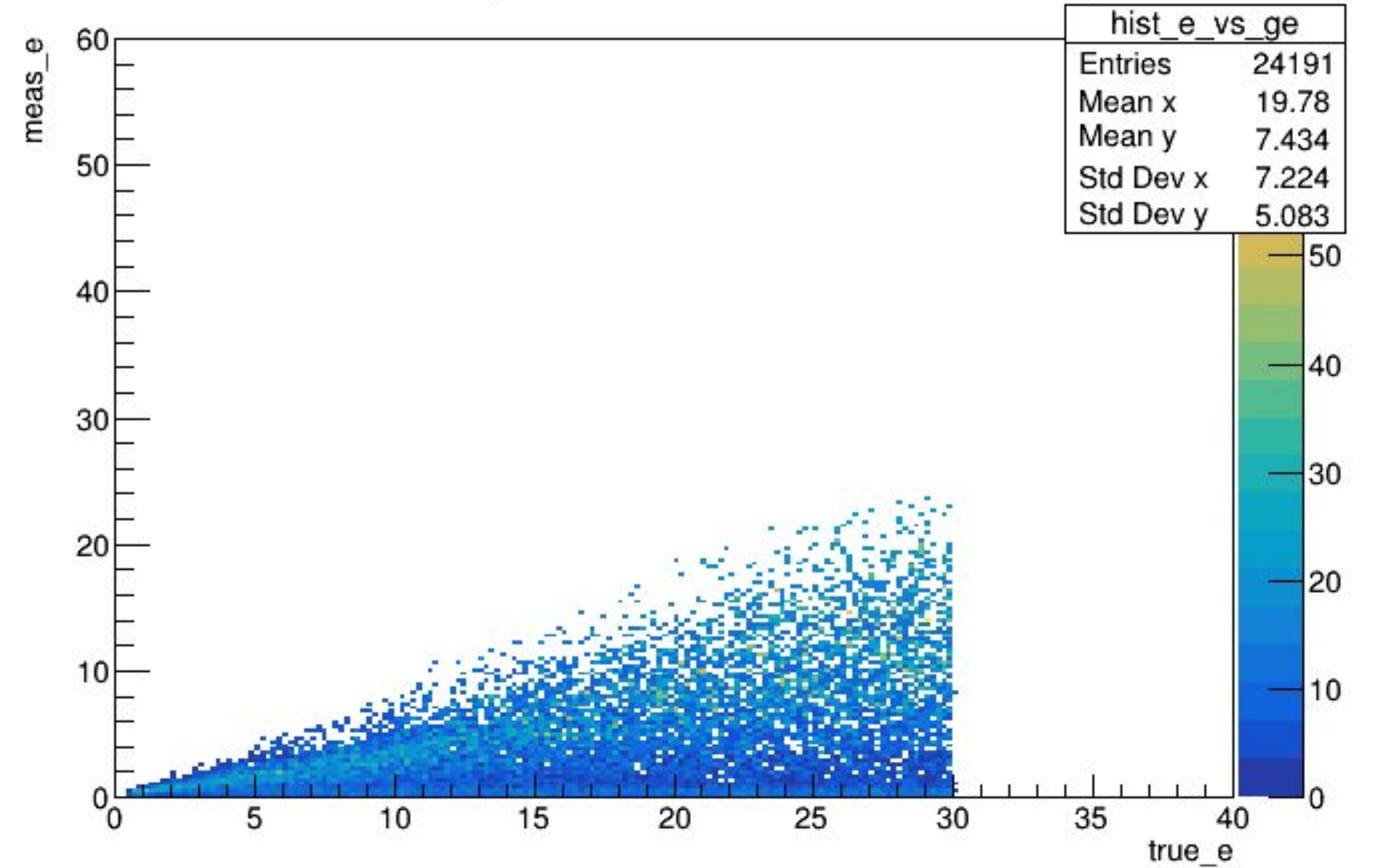
EEMC

e vs ge

meas_e vs true_e



meas_e vs true_e $\{-3.6 < \text{true_eta} < -1.6, \text{meas_e} > 0.2 \text{ GeV}\}$

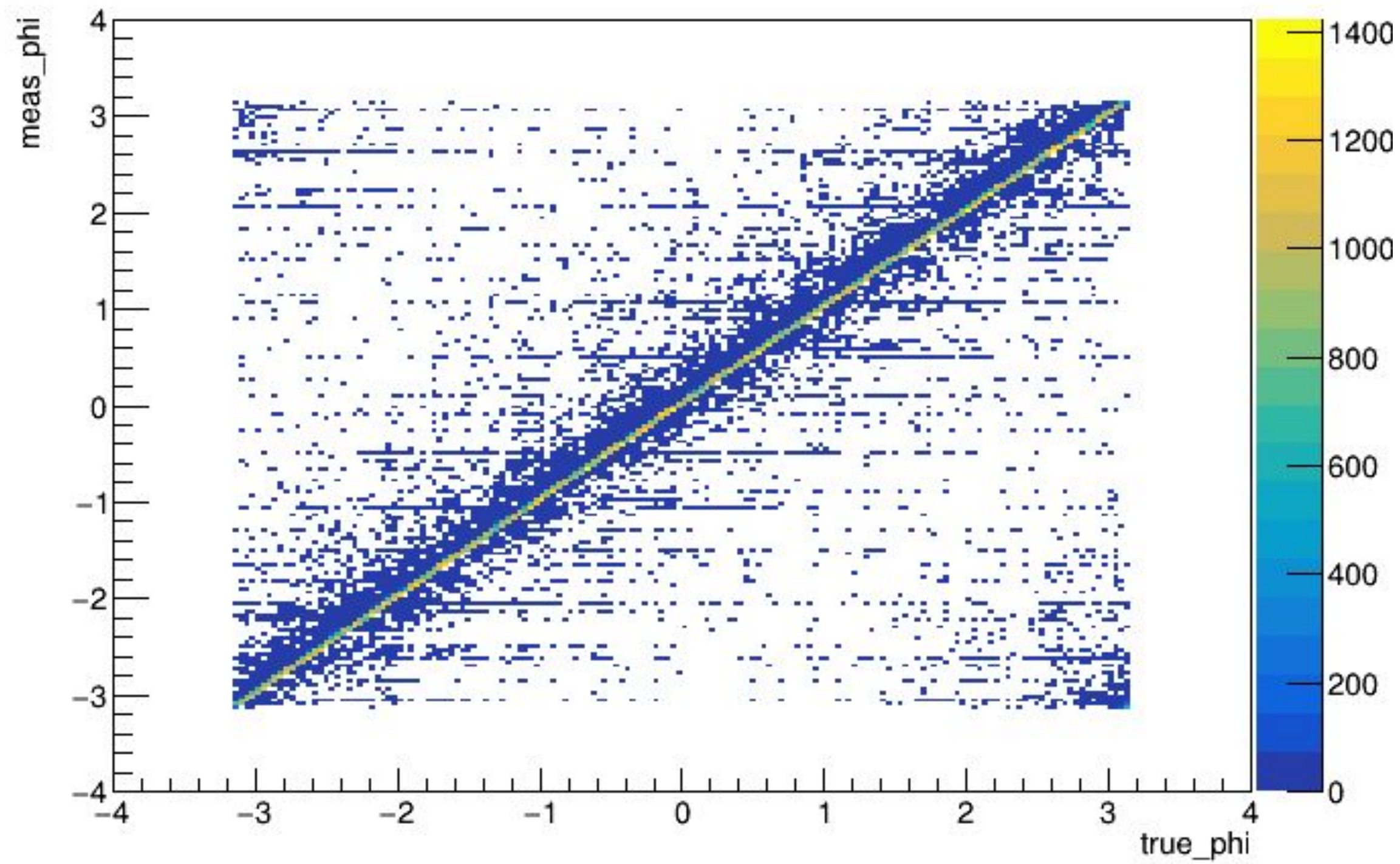


Kaon

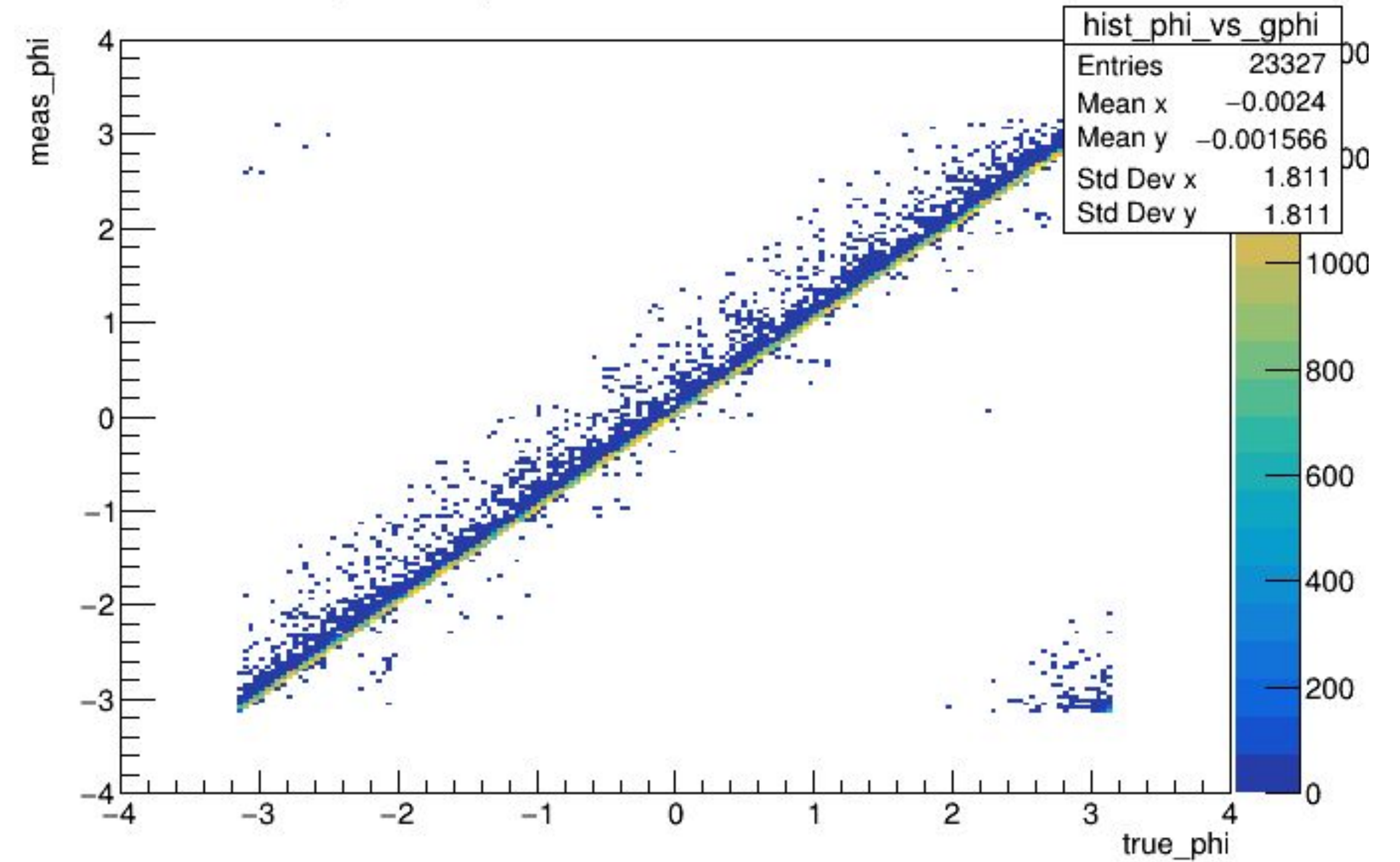
EEMC

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi $\{-3.6 < \text{true_eta} < -1.6, \text{meas_e} > 0.2 \text{ GeV}\}$

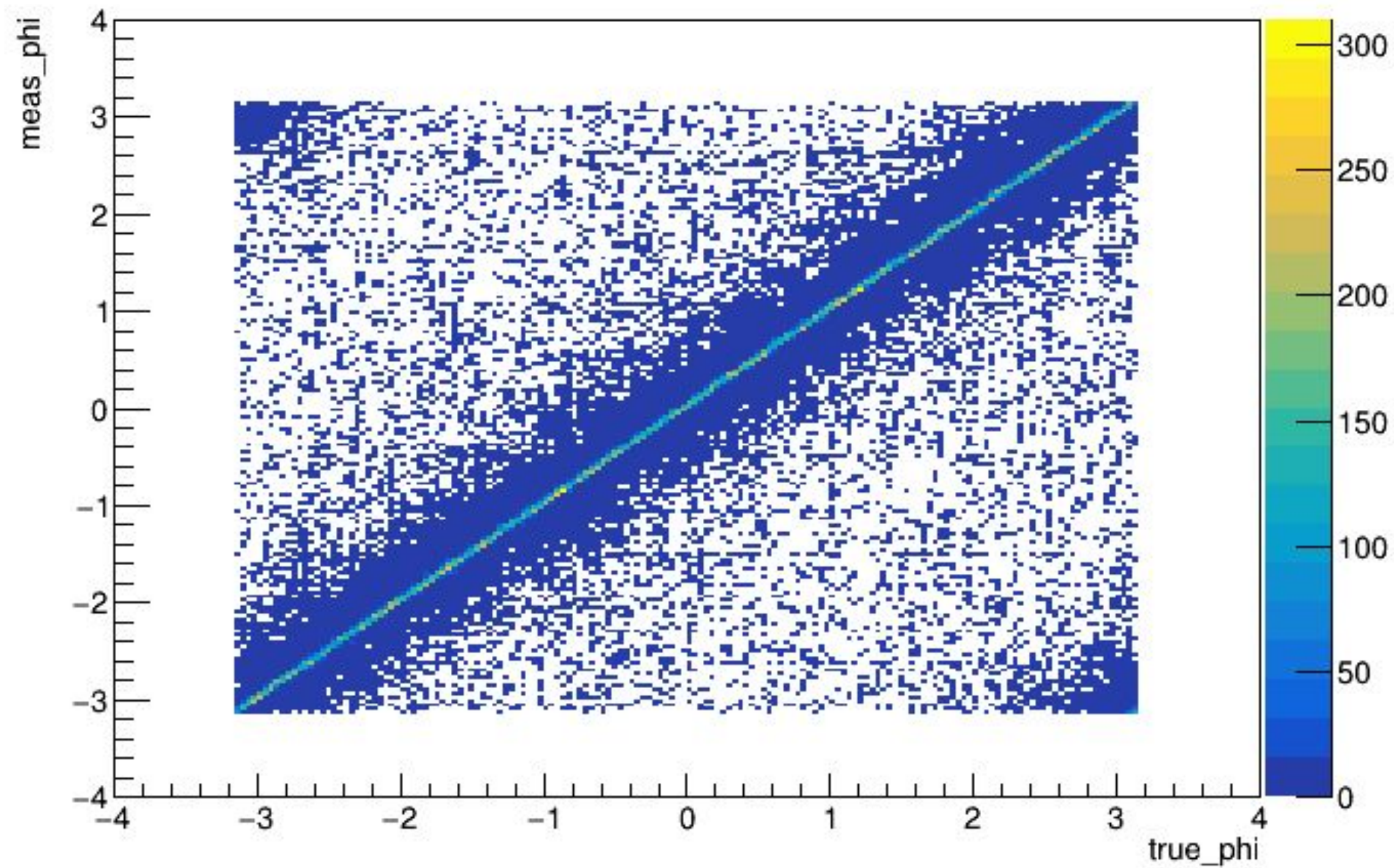


Electron

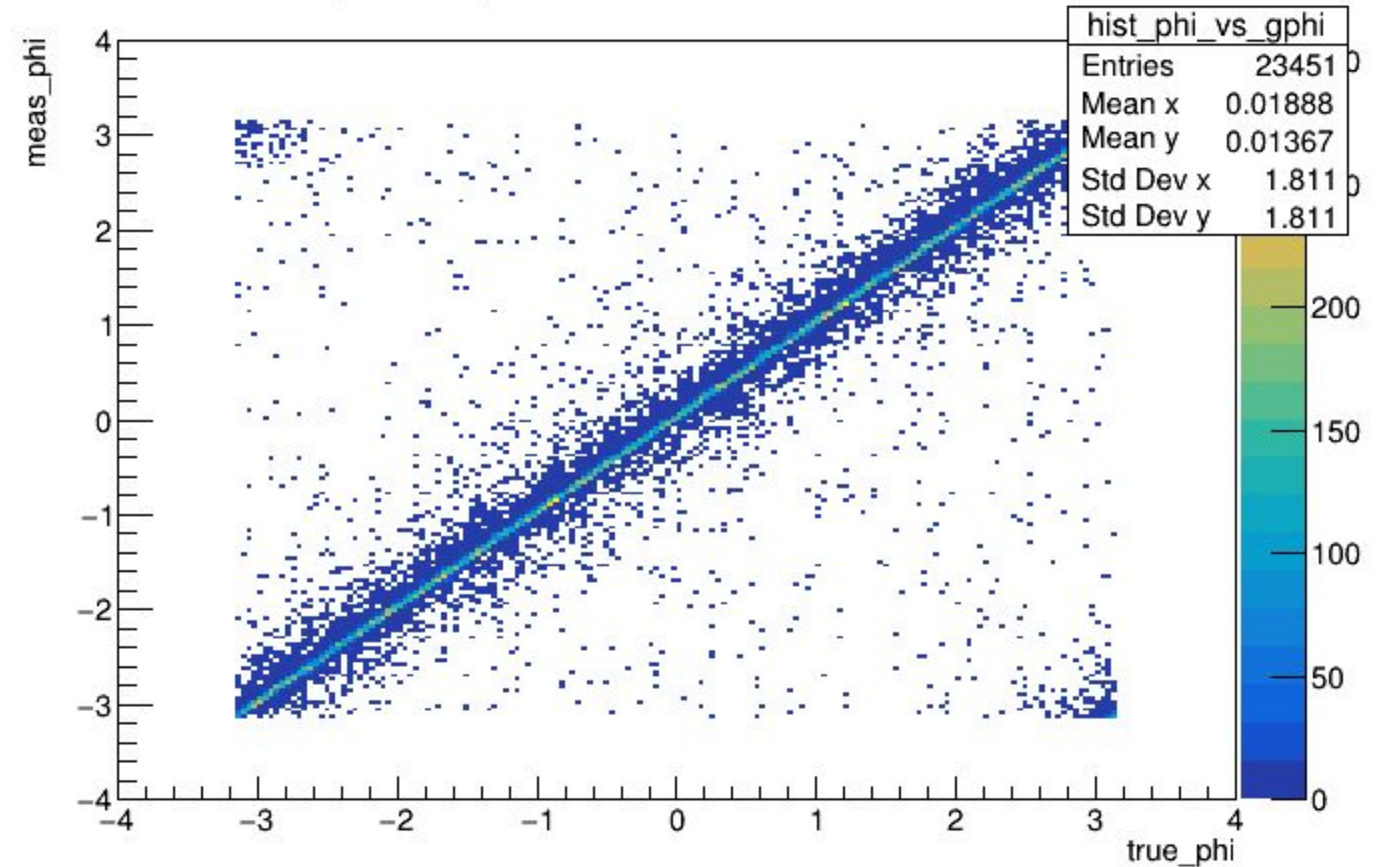
EEMC

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi $\{-3.6 < \text{true_eta} < -1.6, \text{meas_e} > 0.2 \text{ GeV}\}$

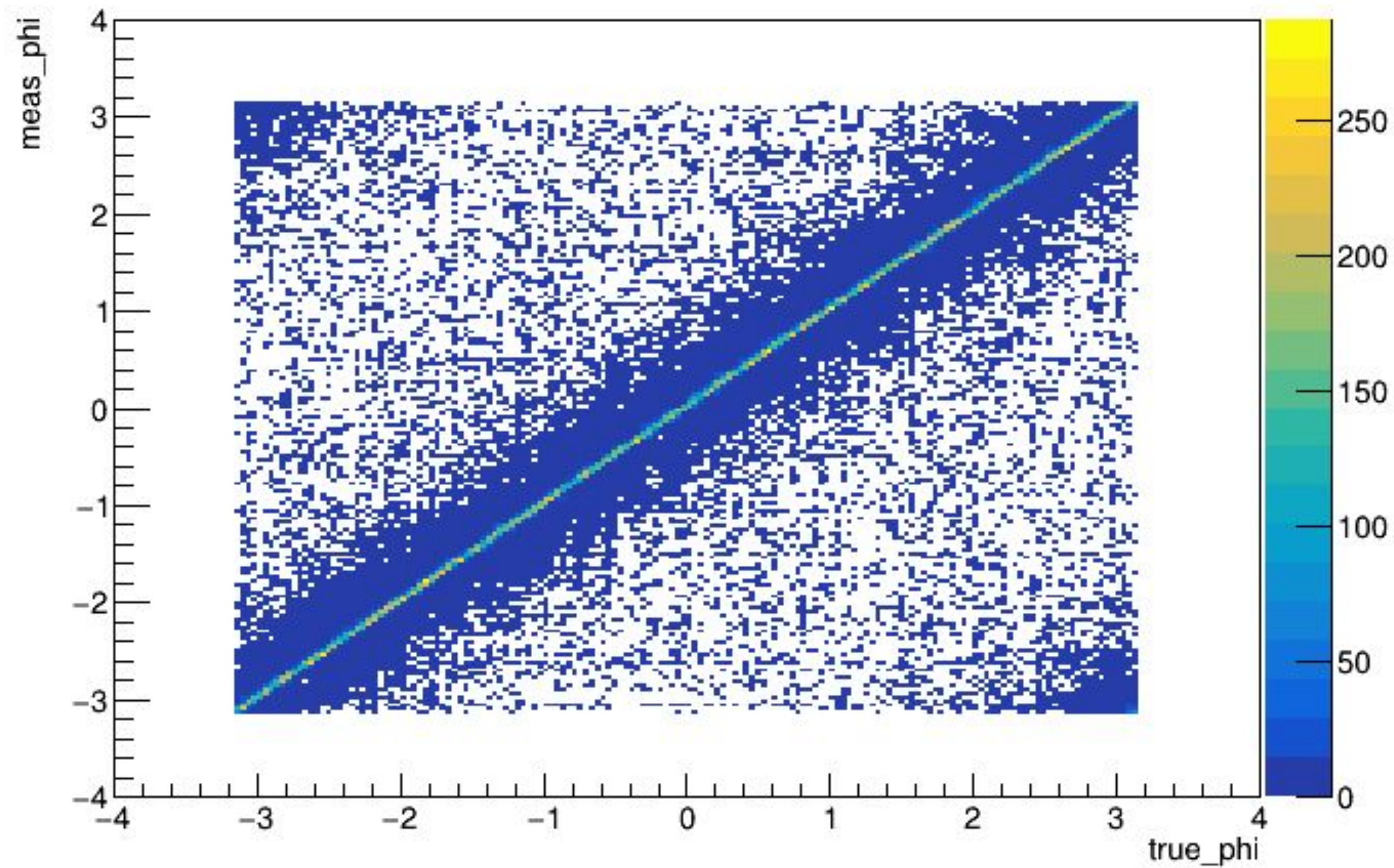


Pion

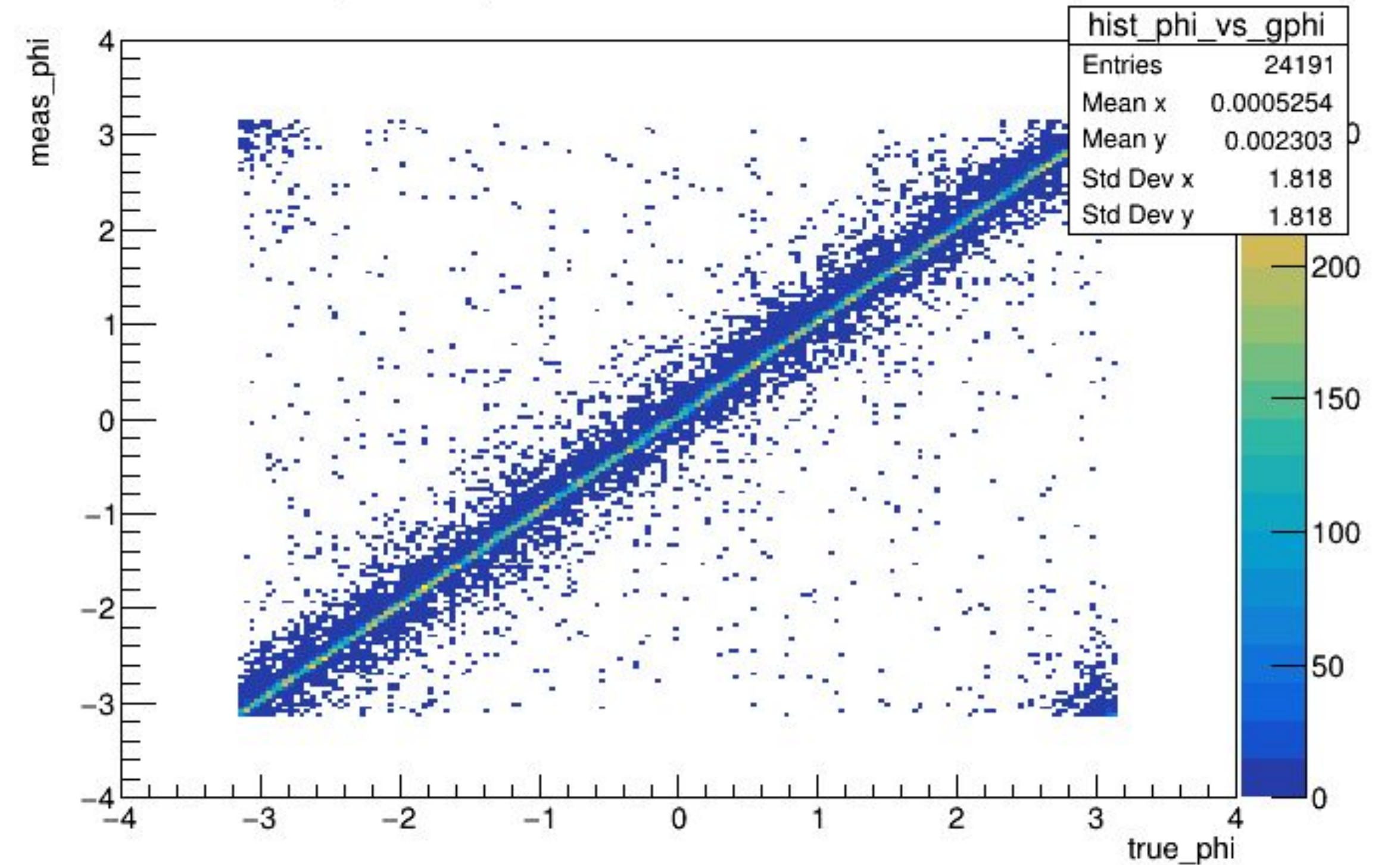
EEMC

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi $\{-3.6 < \text{true_eta} < -1.6, \text{meas_e} > 0.2 \text{ GeV}\}$

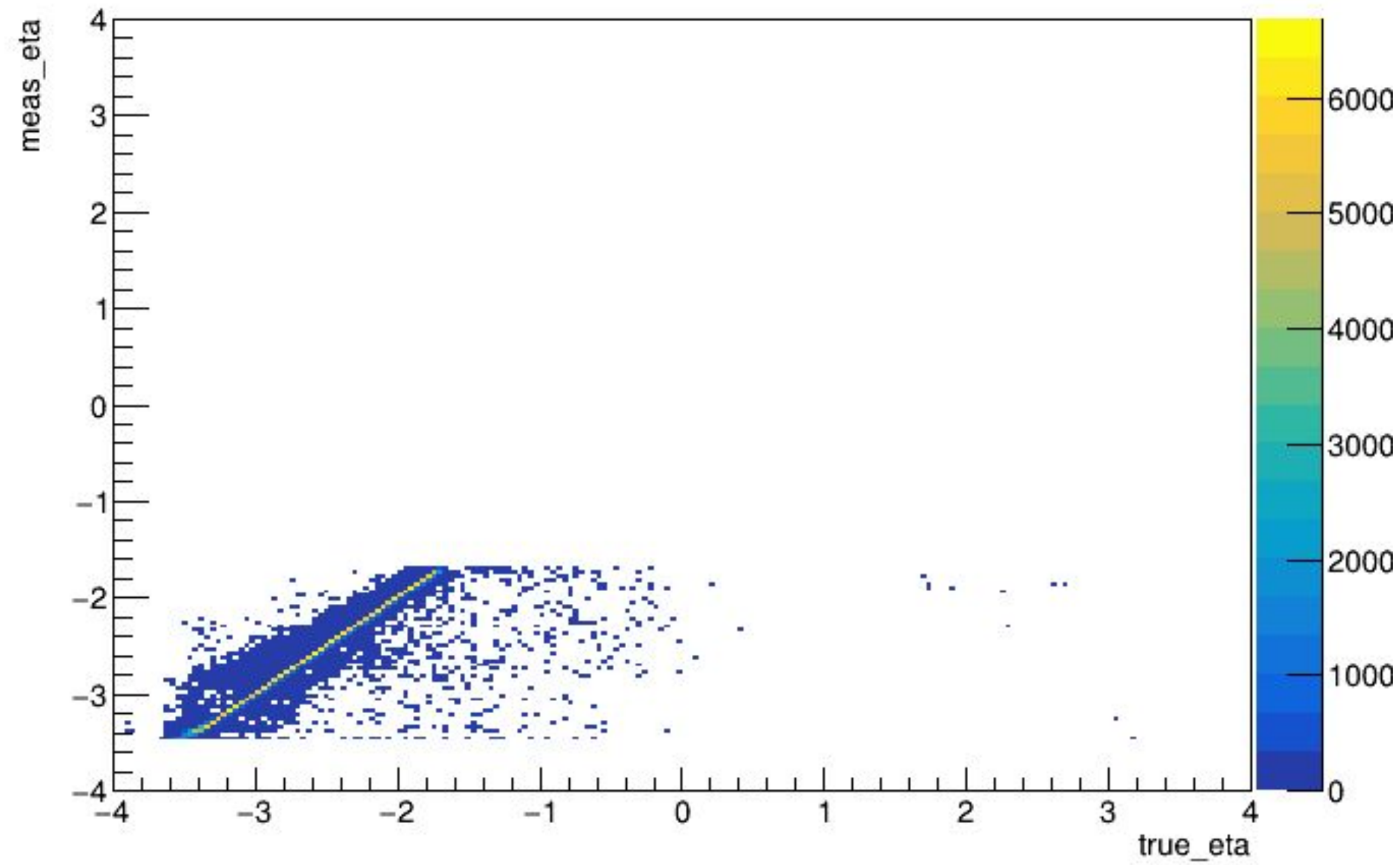


Kaon

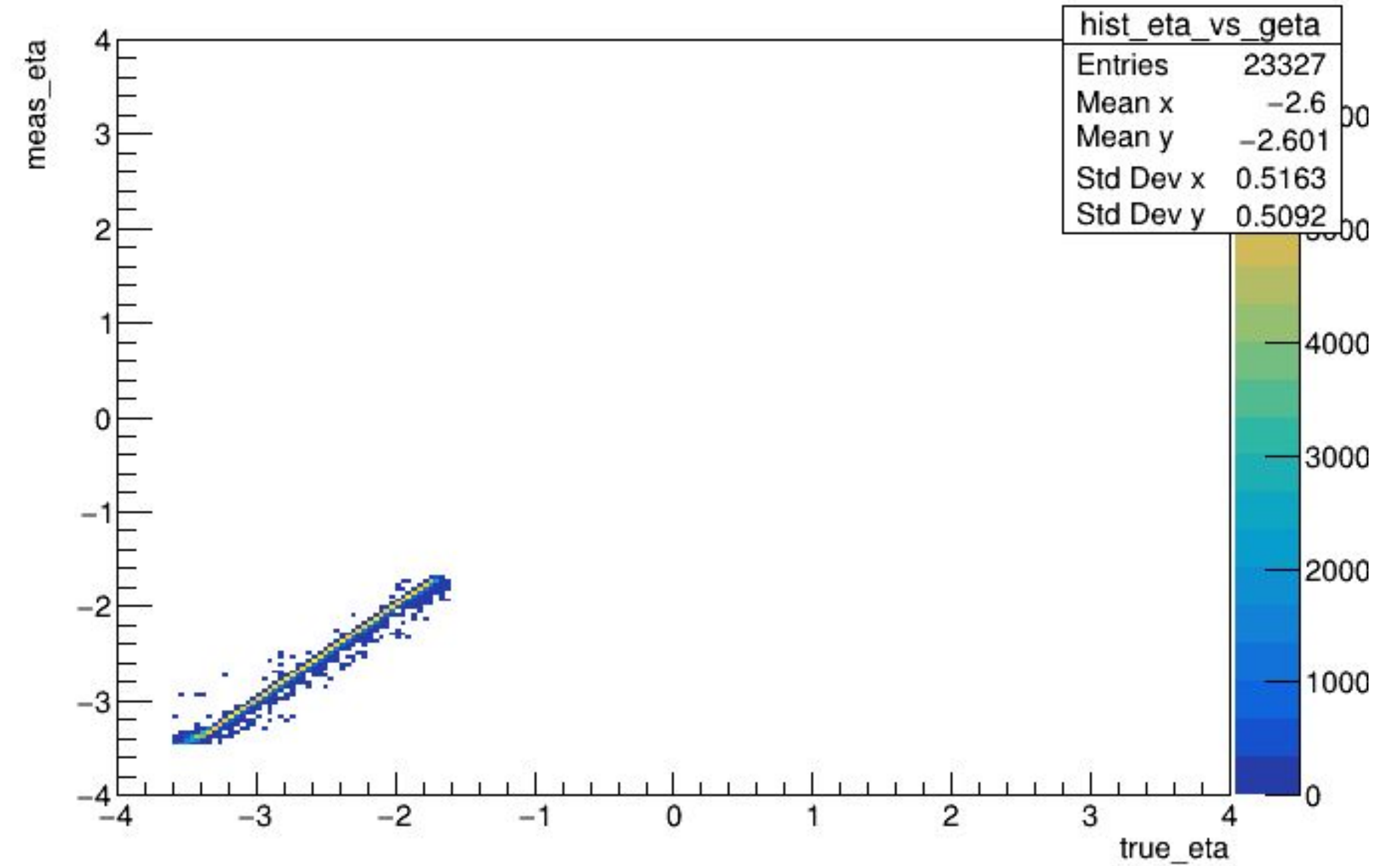
EEMC

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta {-3.6 < true_eta < -1.6, meas_e > 0.2 GeV}

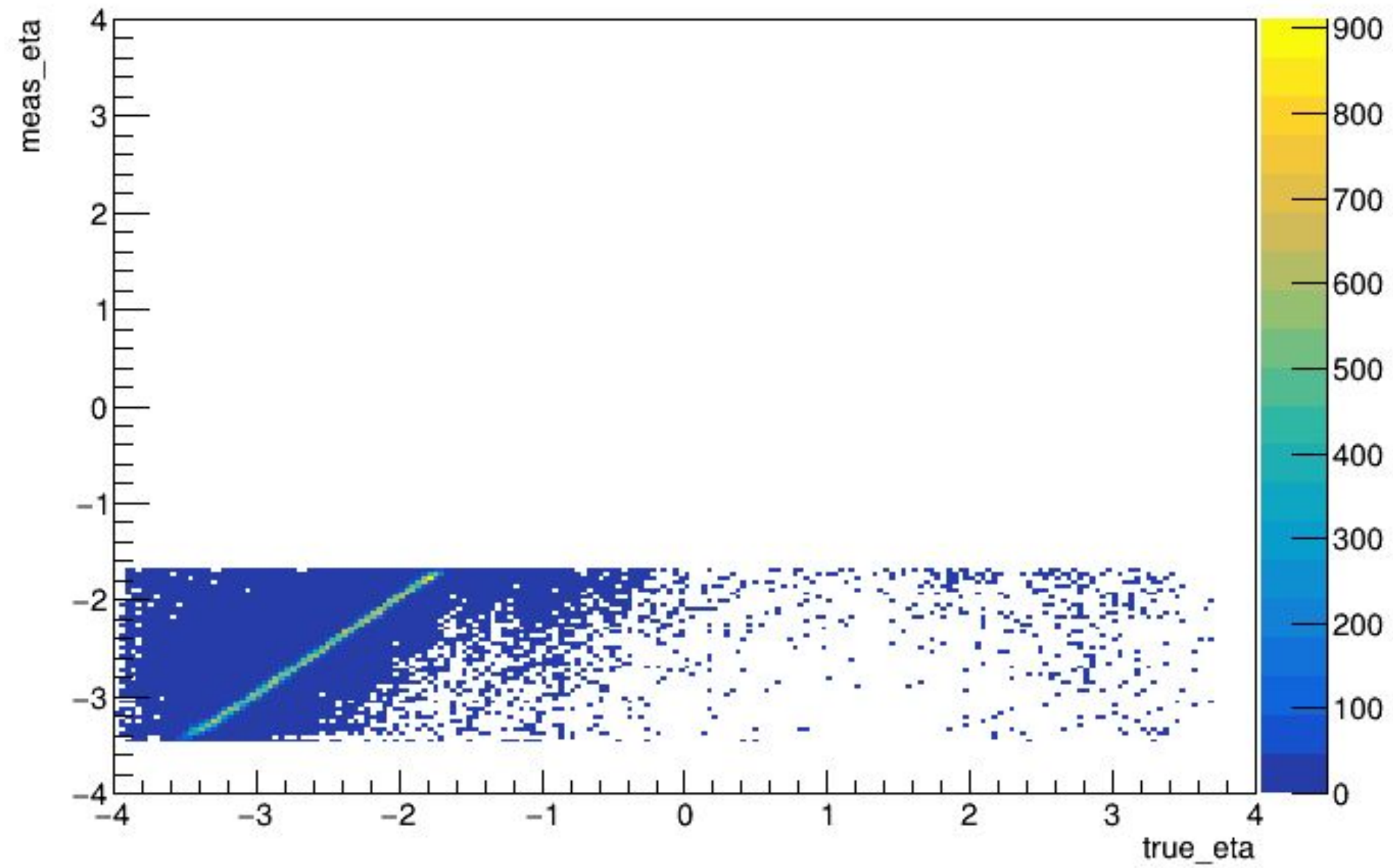


Electron

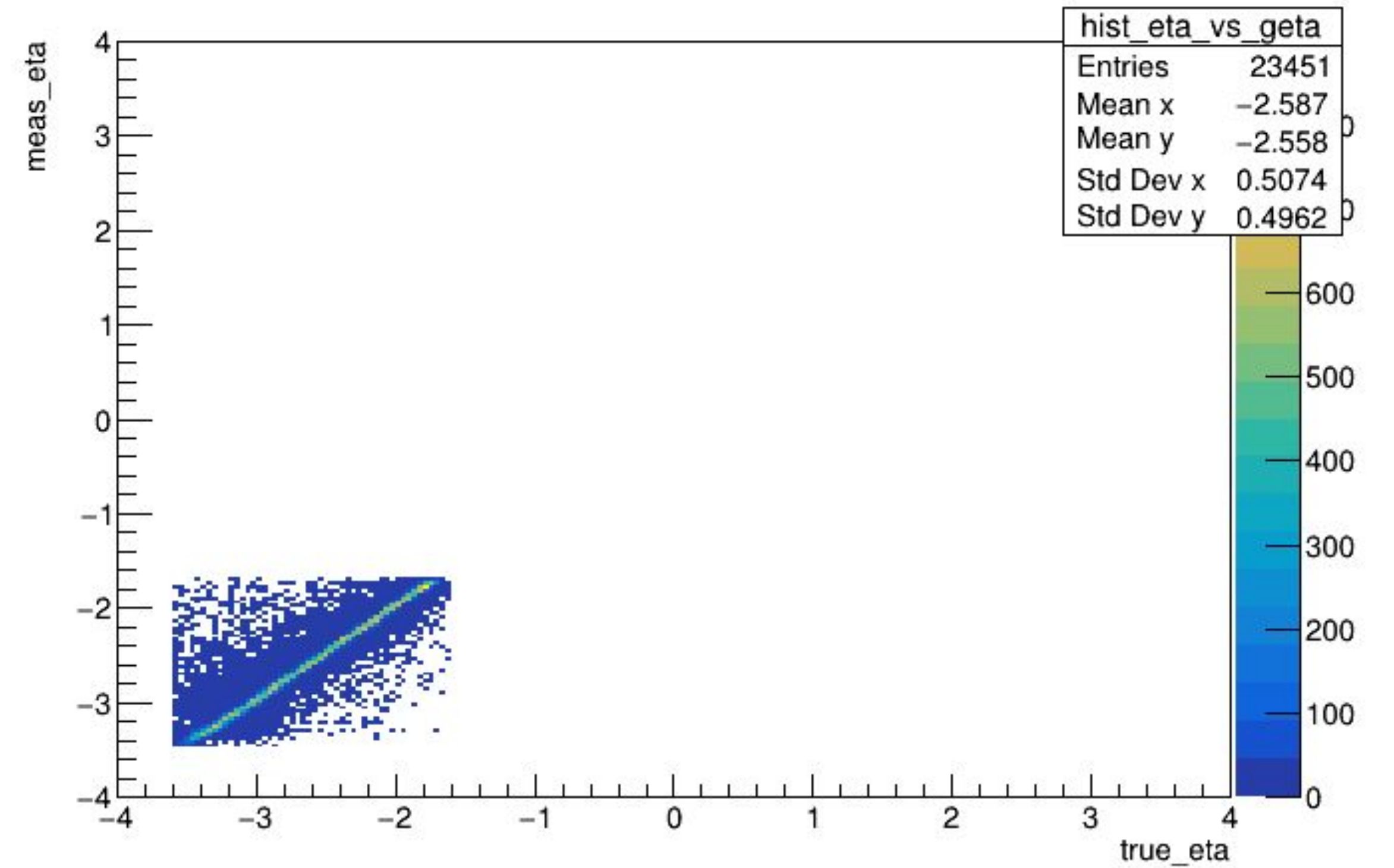
EEMC

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta {-3.6 < true_eta < -1.6, meas_e > 0.2 GeV}

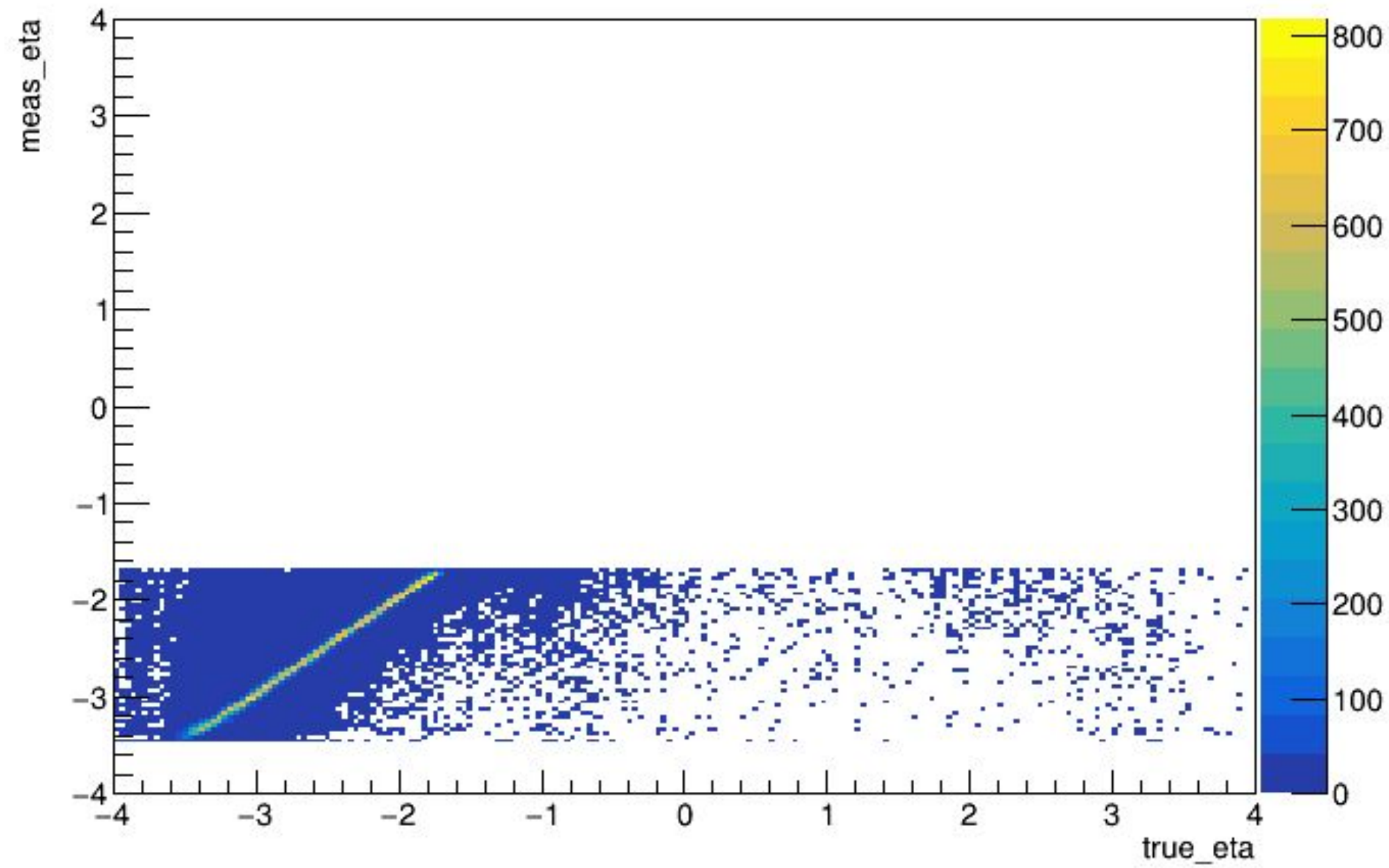


Pion

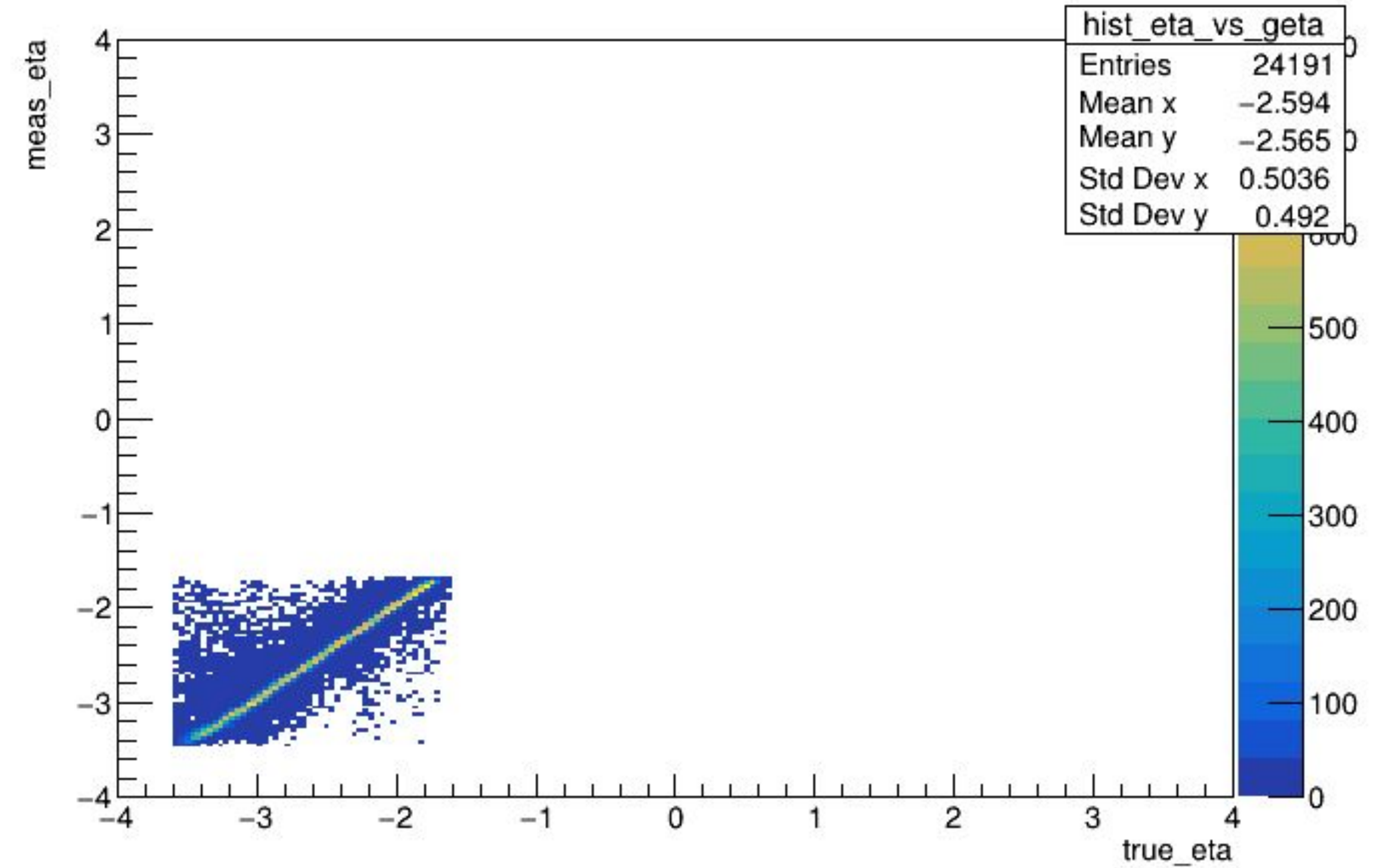
EEMC

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta {-3.6 < true_eta < -1.6, meas_e > 0.2 GeV}

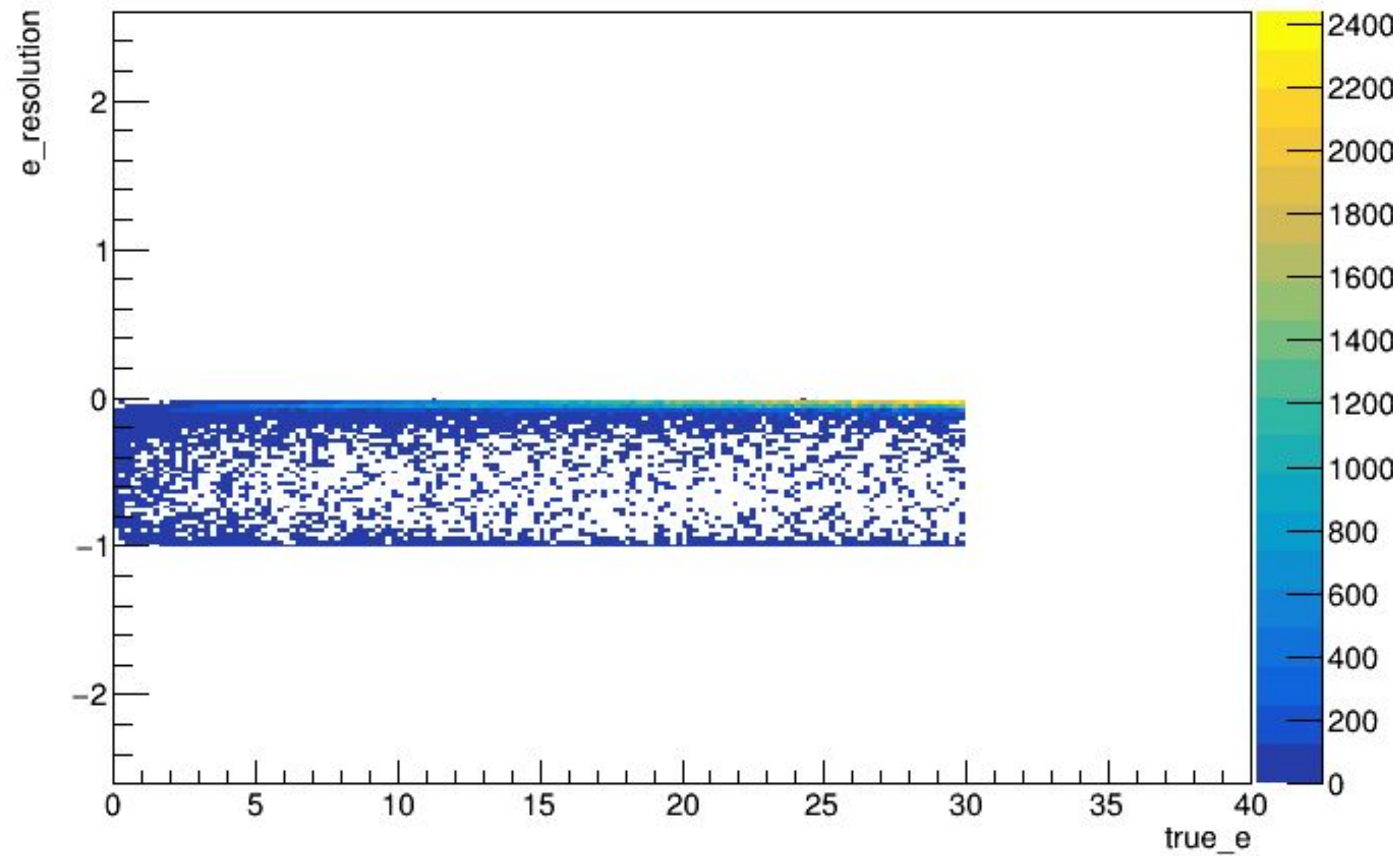


Kaon

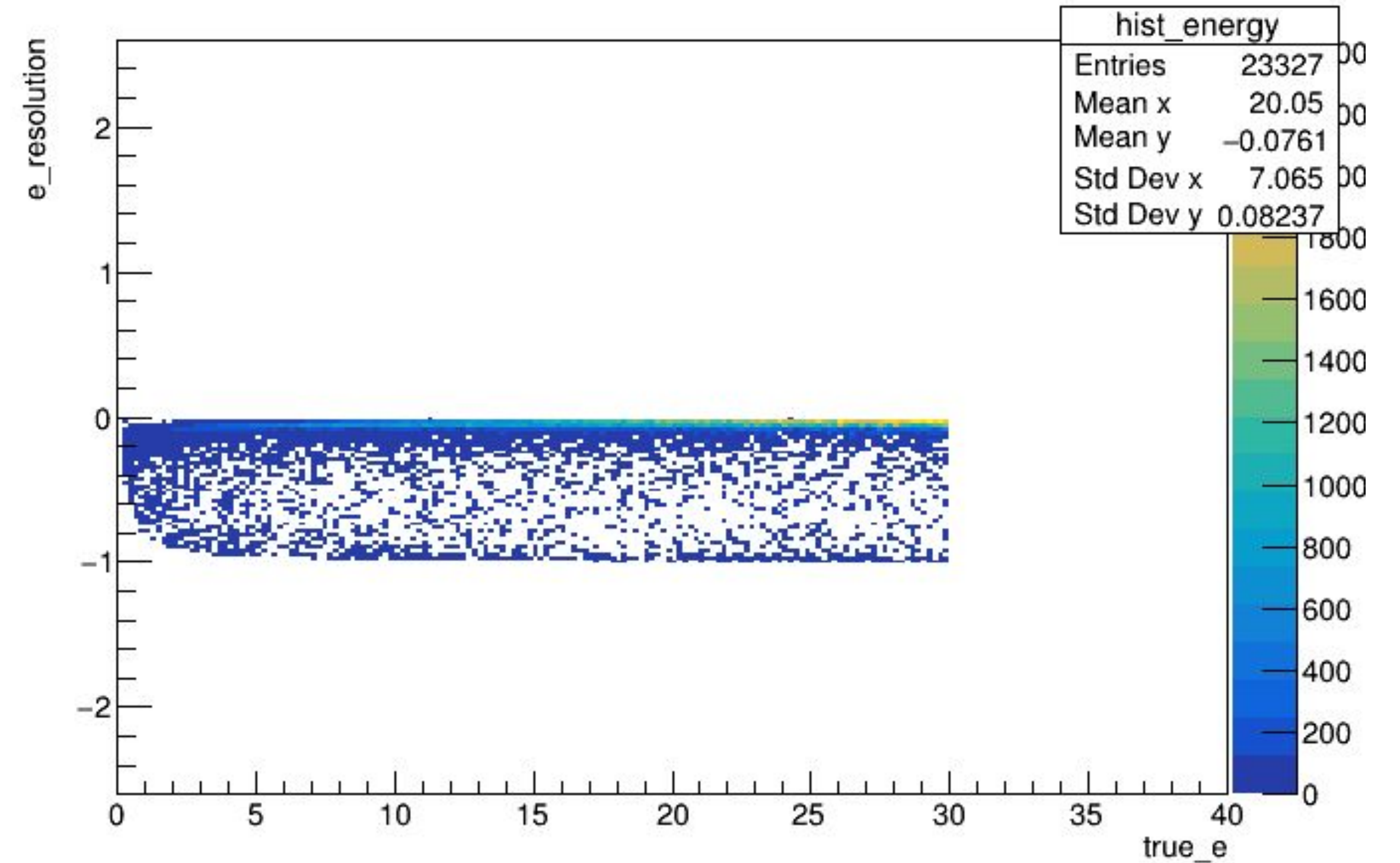
EEMC

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e $\{-3.6 < \text{true}_\eta < -1.6, \text{meas}_e > 0.2 \text{ GeV}\}$

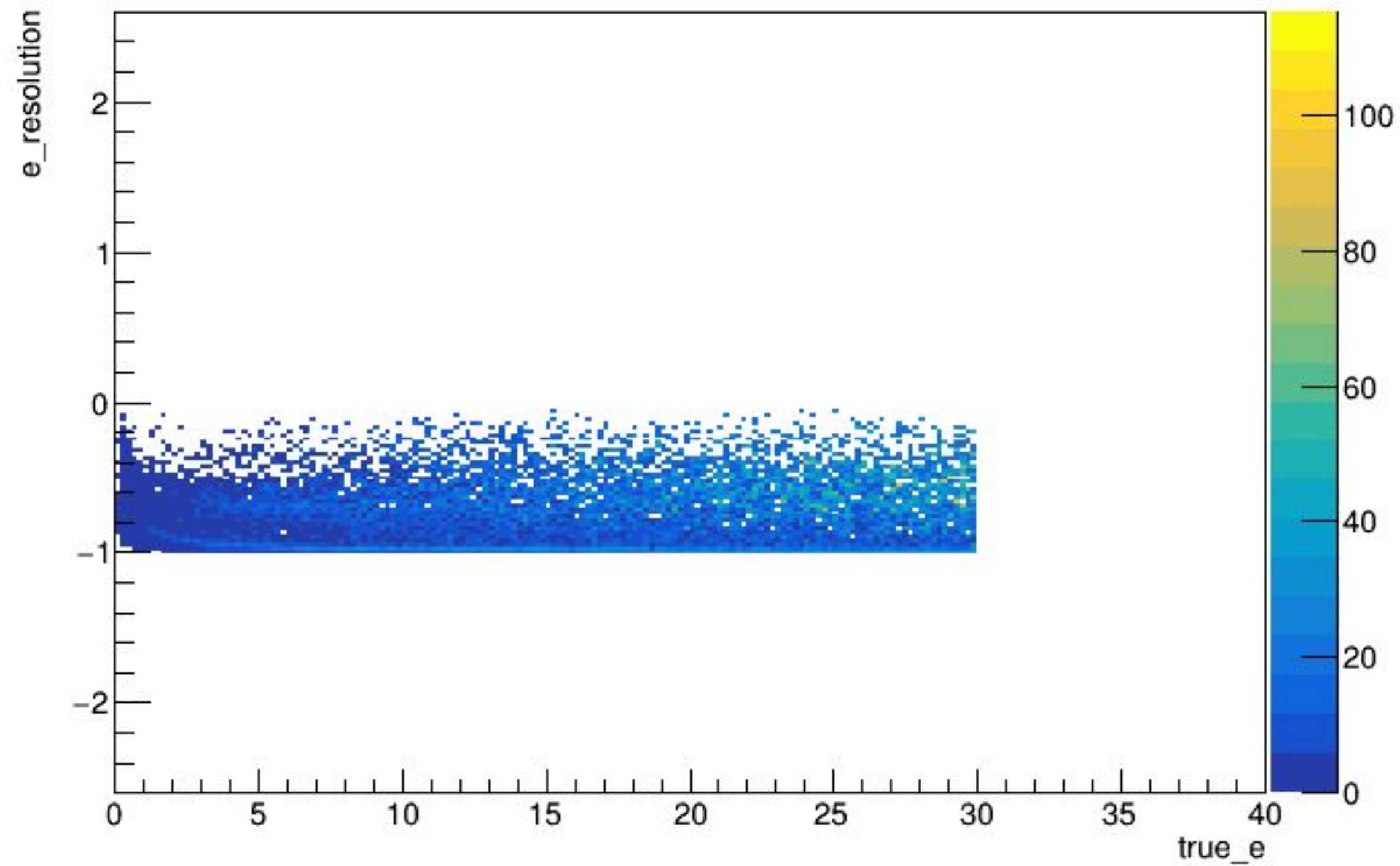


Electron

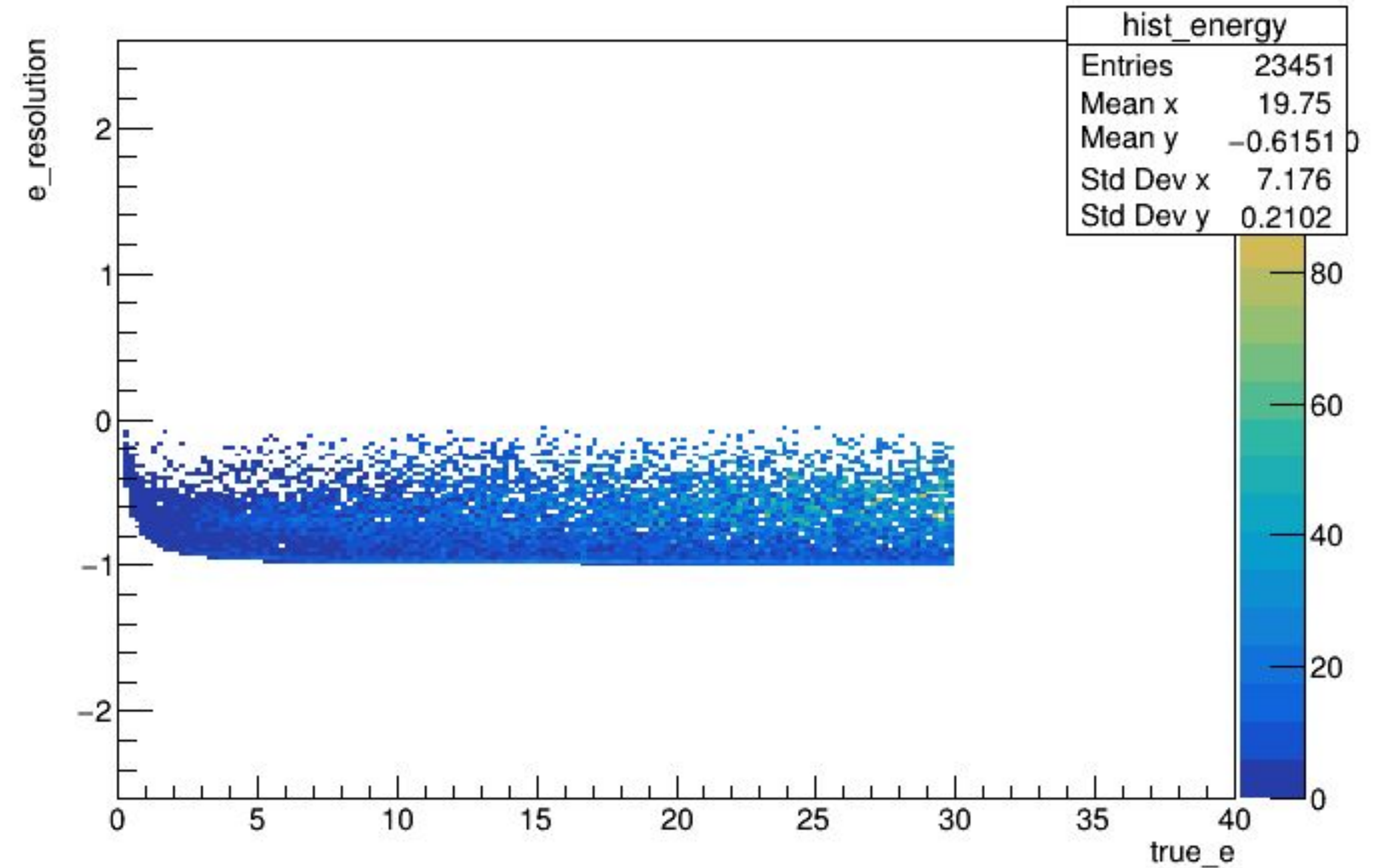
EEMC

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e $\{-3.6 < \text{true}_\eta < -1.6, \text{meas}_e > 0.2 \text{ GeV}\}$

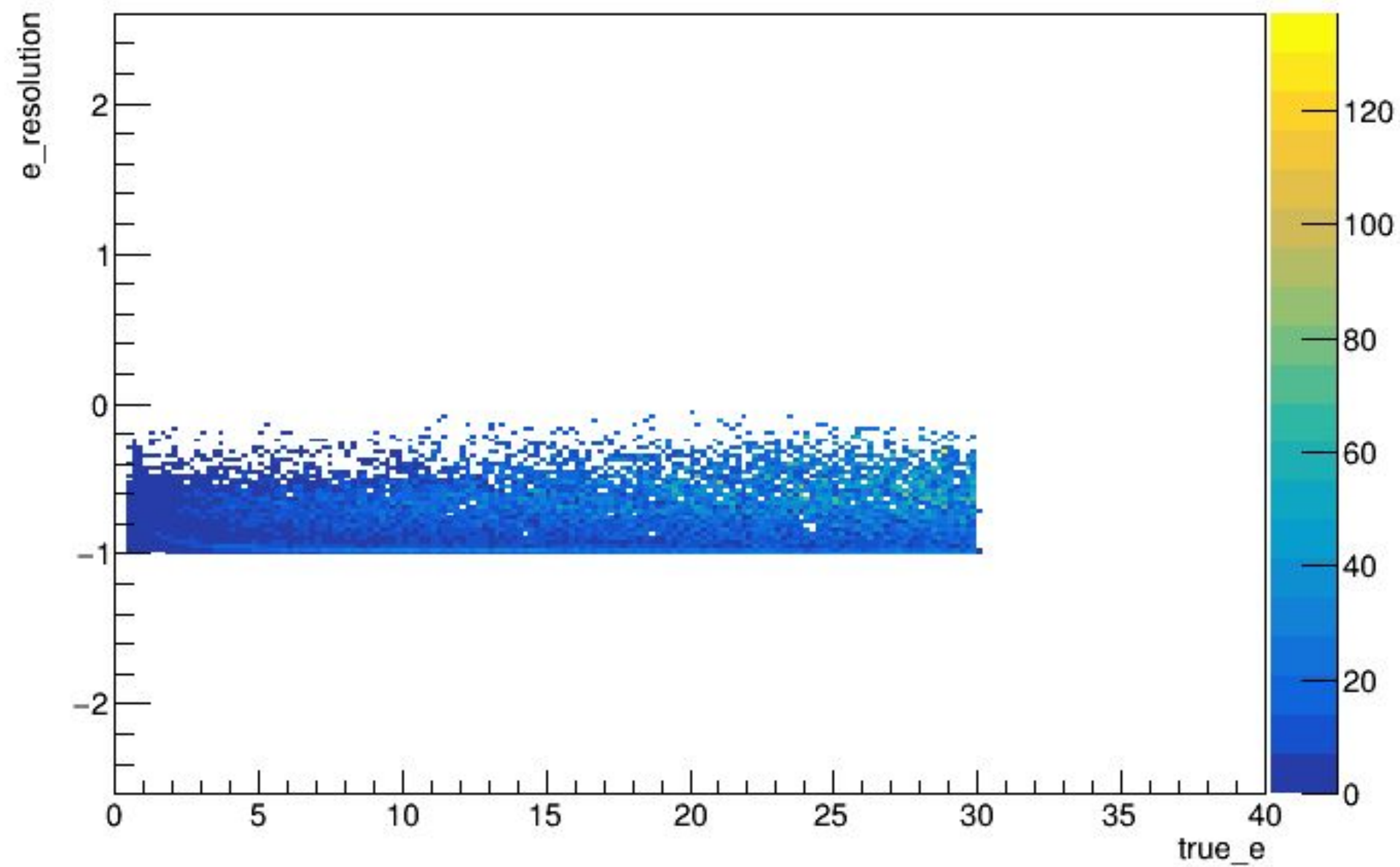


Pion

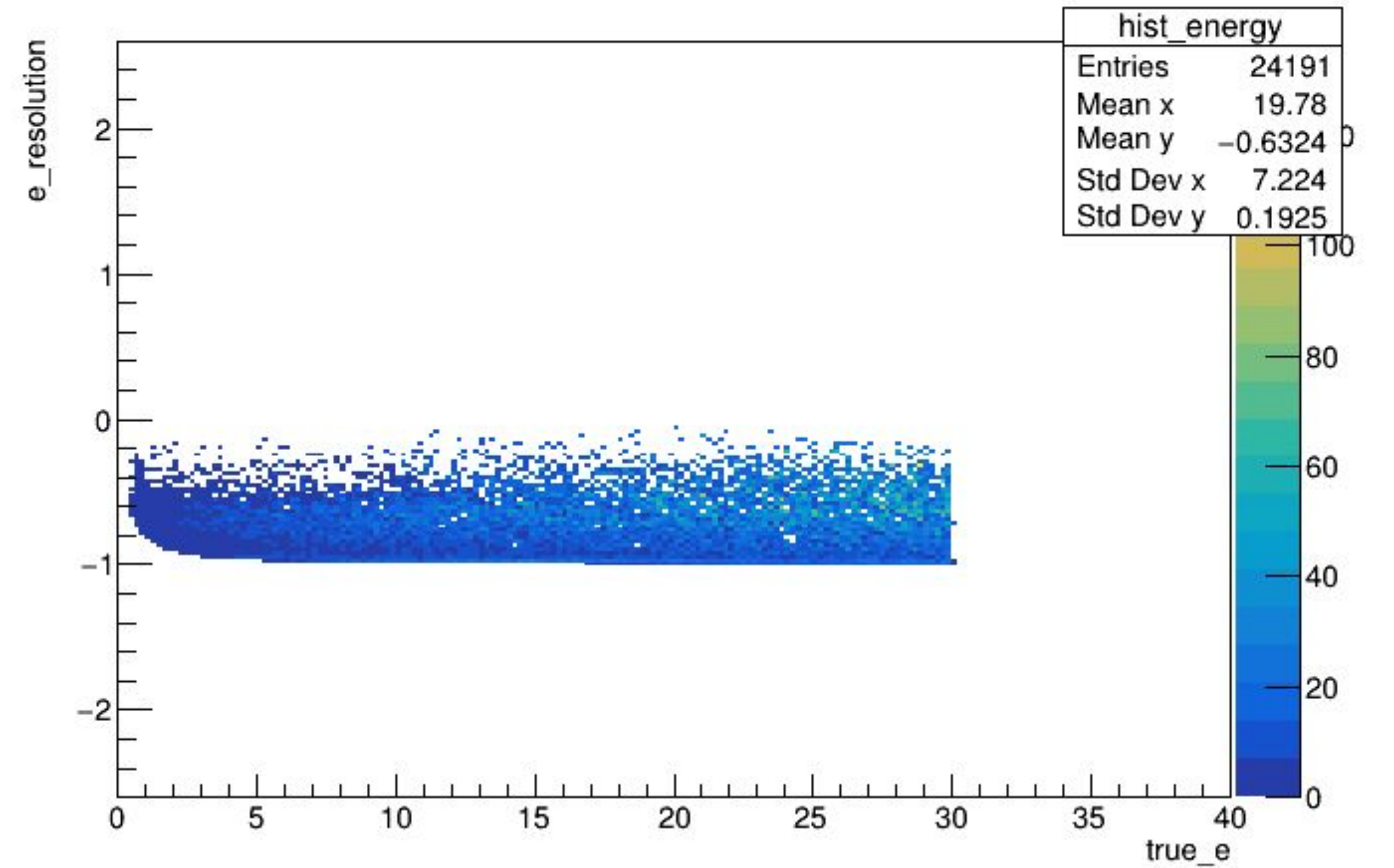
EEMC

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e $\{-3.6 < \text{true}_\eta < -1.6, \text{meas}_e > 0.2 \text{ GeV}\}$

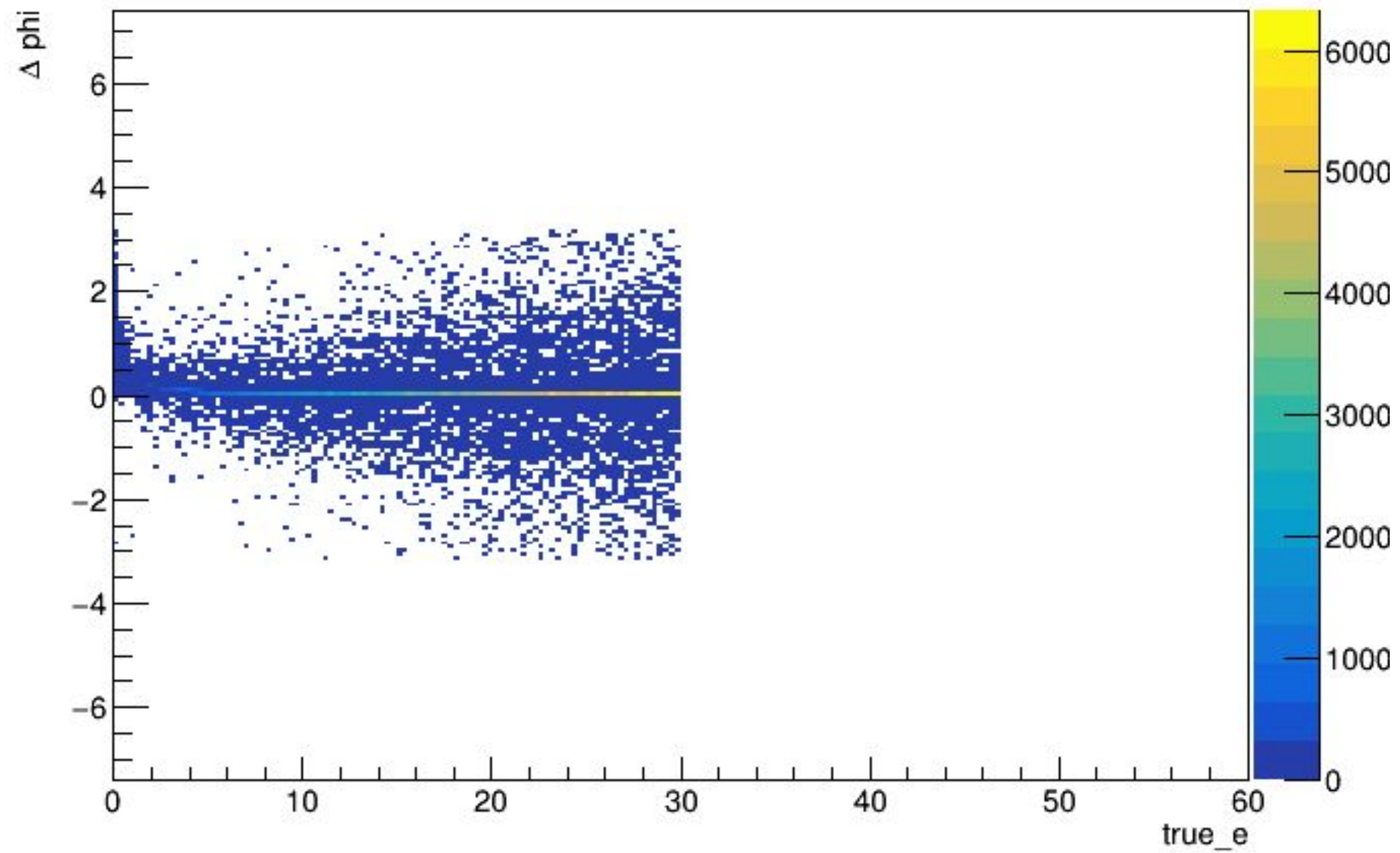


Kaon

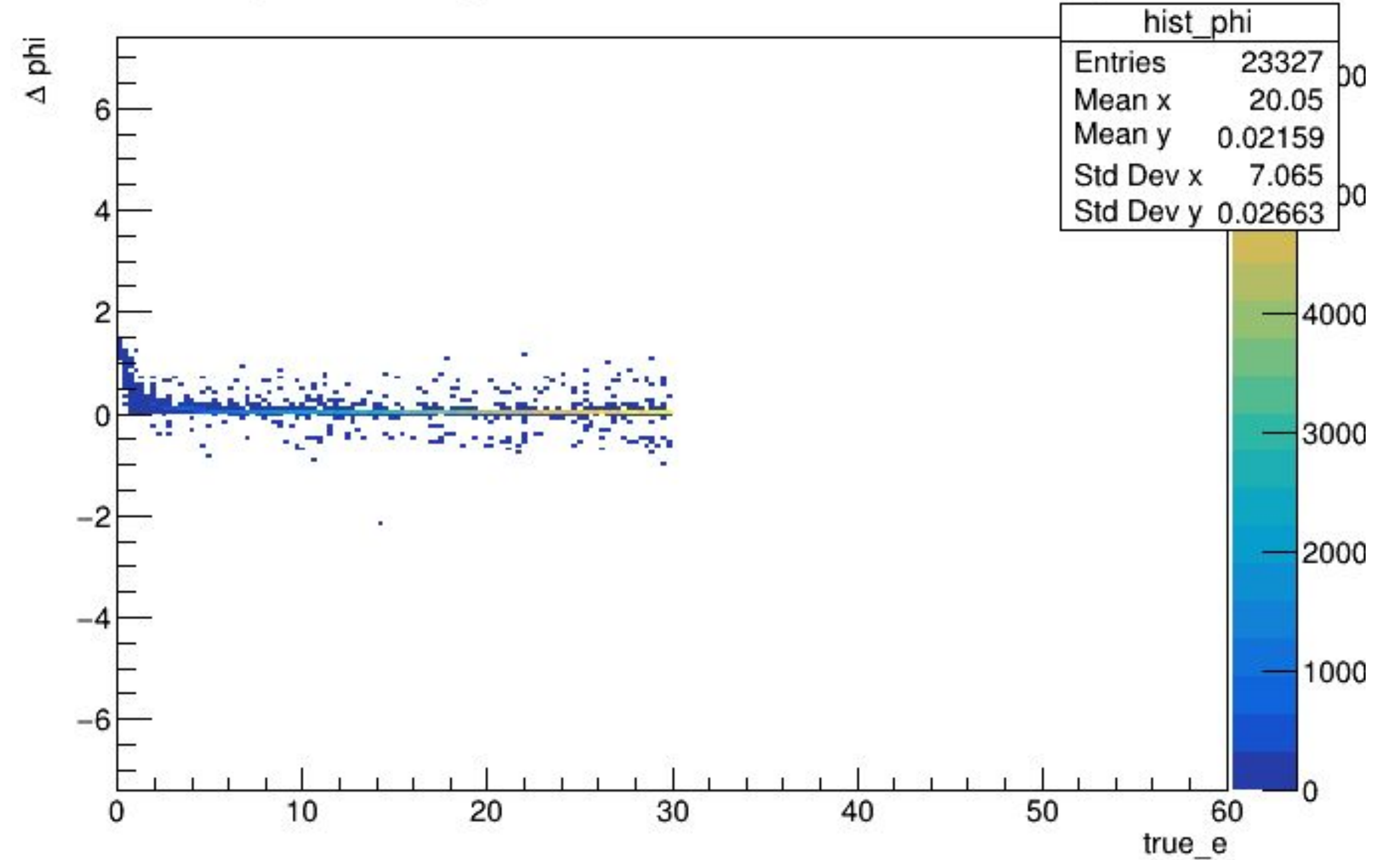
EEMC

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e $\{-3.6 < \text{true}_\eta < -1.6, \text{meas}_e > 0.2 \text{ GeV}\}$

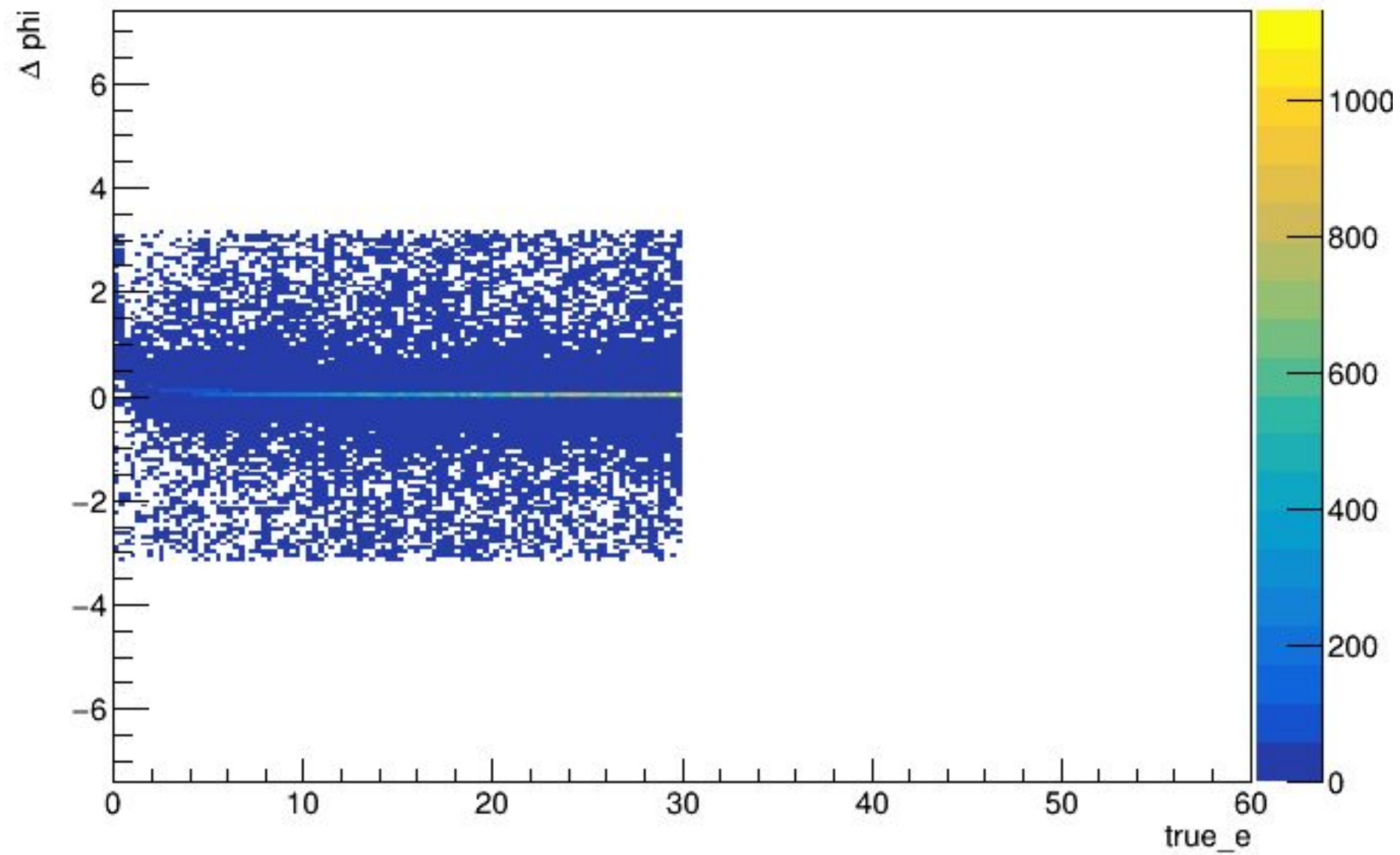


Electron

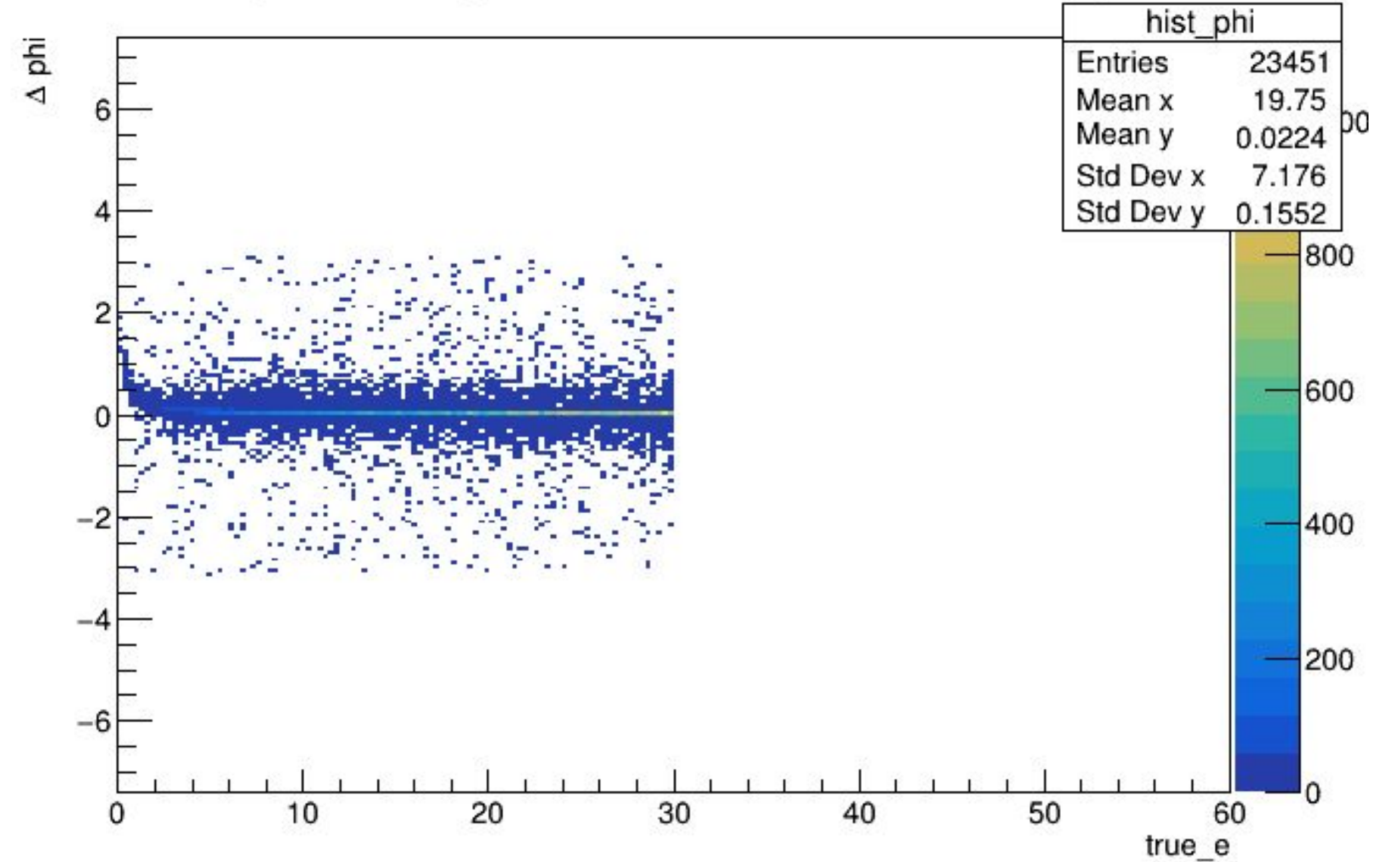
EEMC

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e $\{-3.6 < \text{true}_\eta < -1.6, \text{meas}_e > 0.2 \text{ GeV}\}$

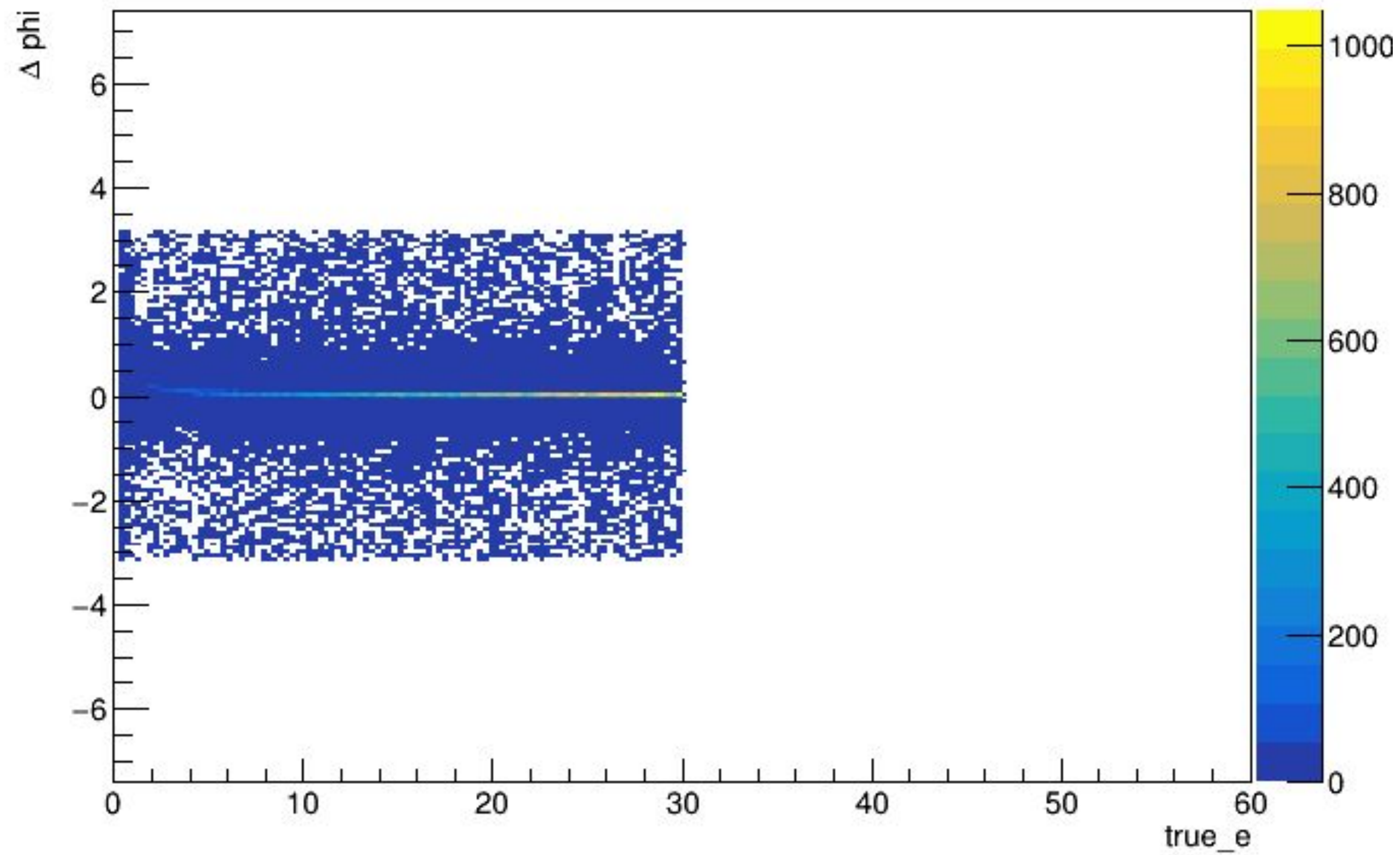


Pion

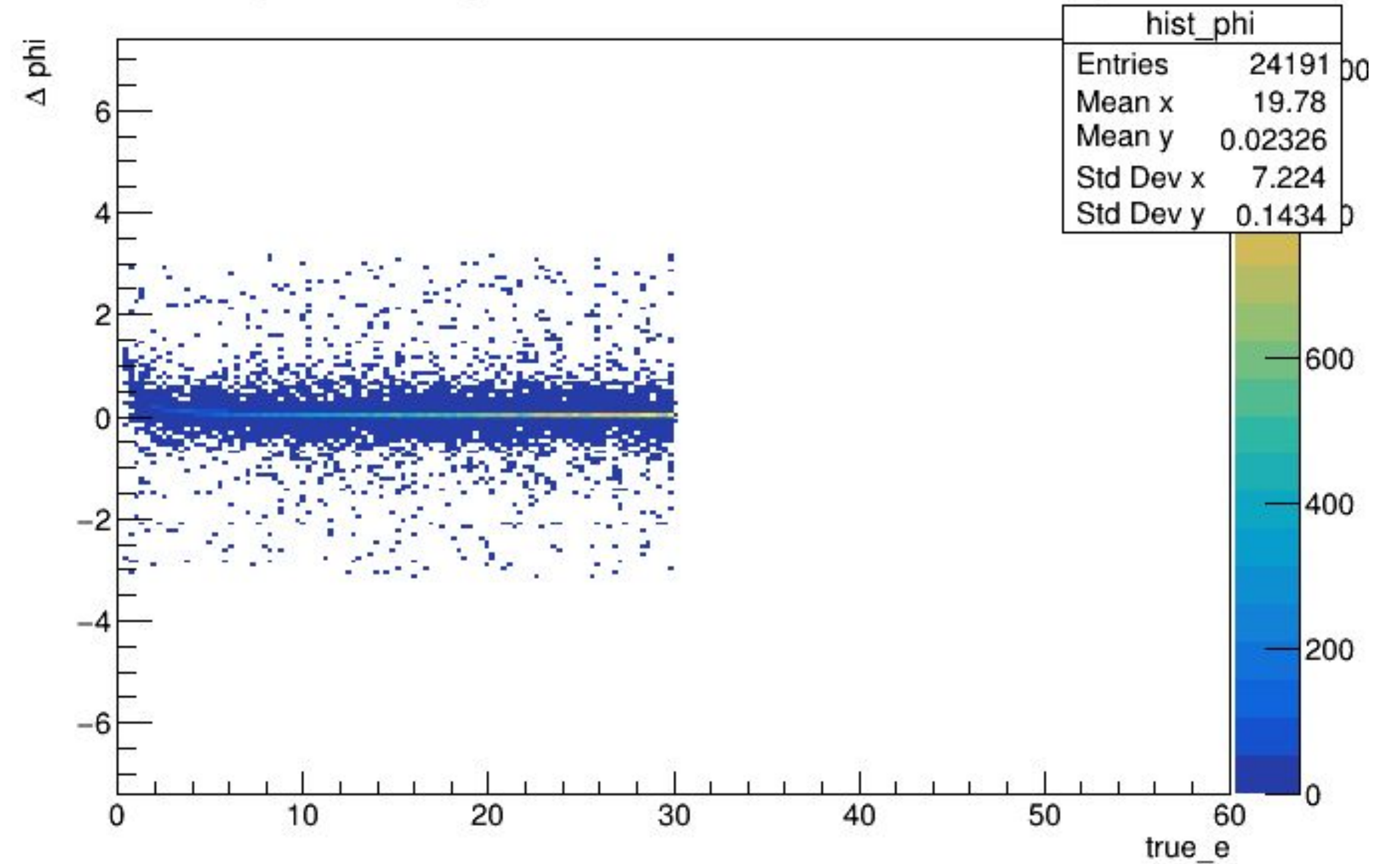
EEMC

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e $\{-3.6 < \text{true_eta} < -1.6, \text{meas_e} > 0.2 \text{ GeV}\}$

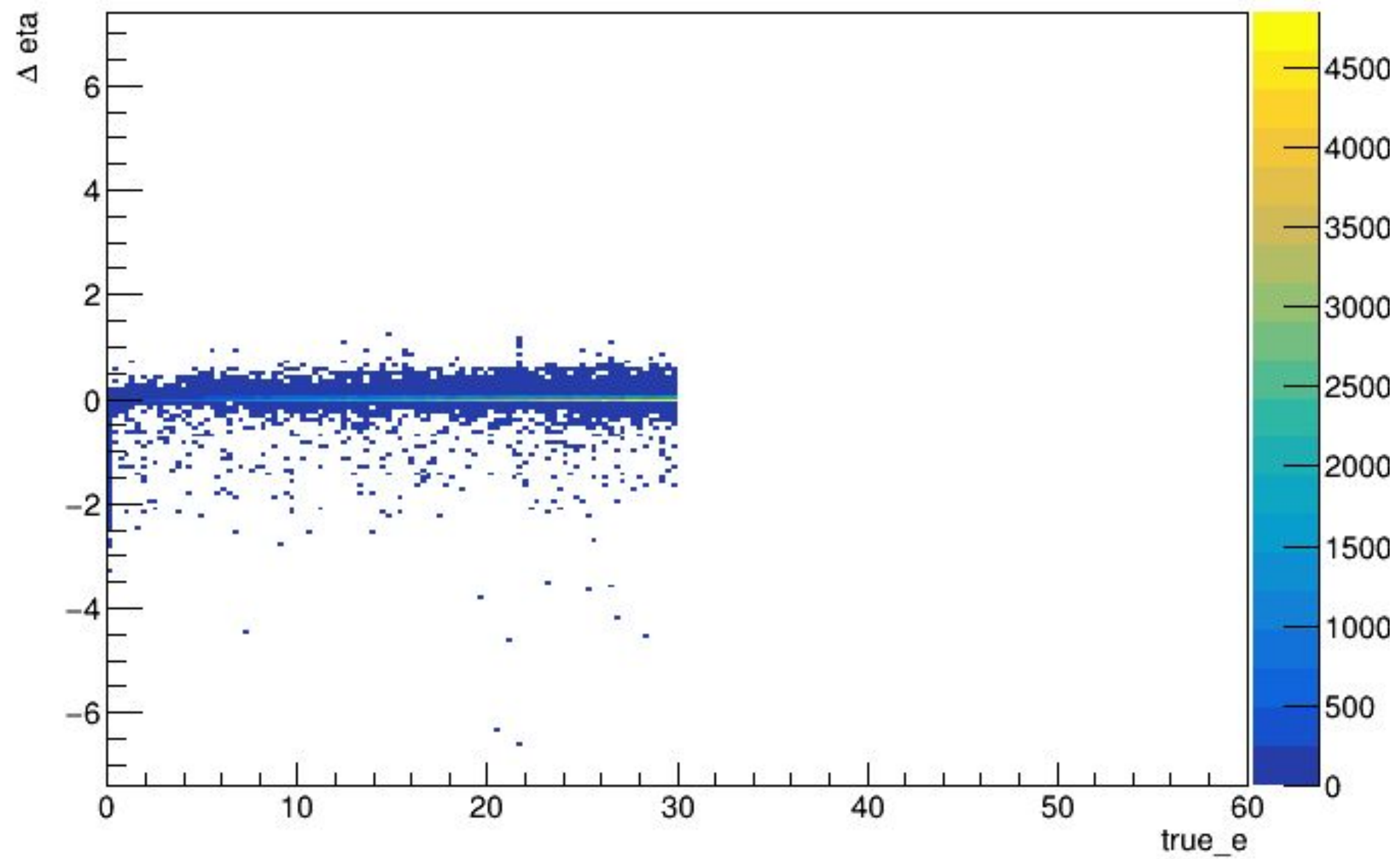


Kaon

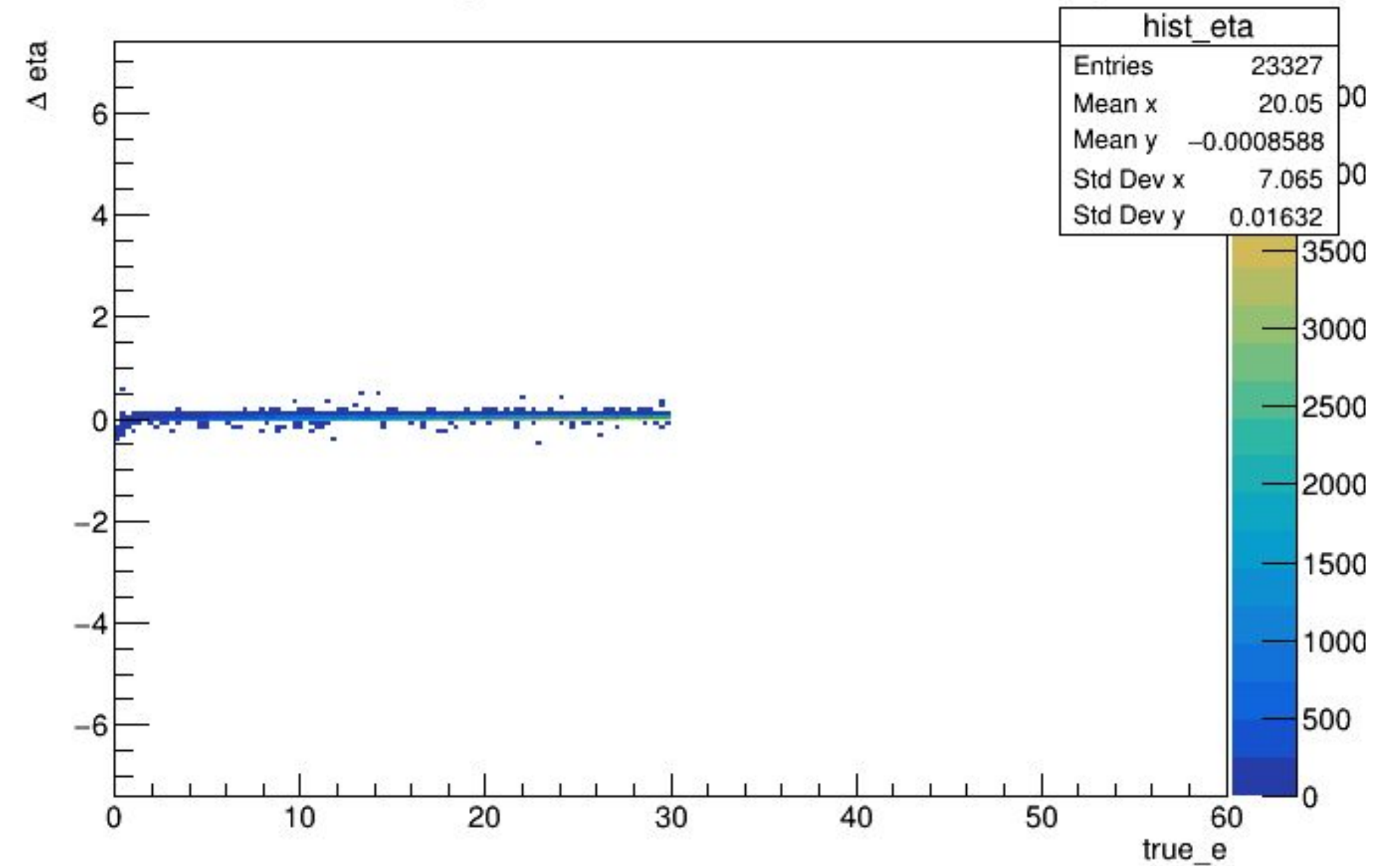
EEMC

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



$\Delta\eta$ vs true_e $\{-3.6 < \text{true}_\eta < -1.6, \text{meas}_e > 0.2 \text{ GeV}\}$

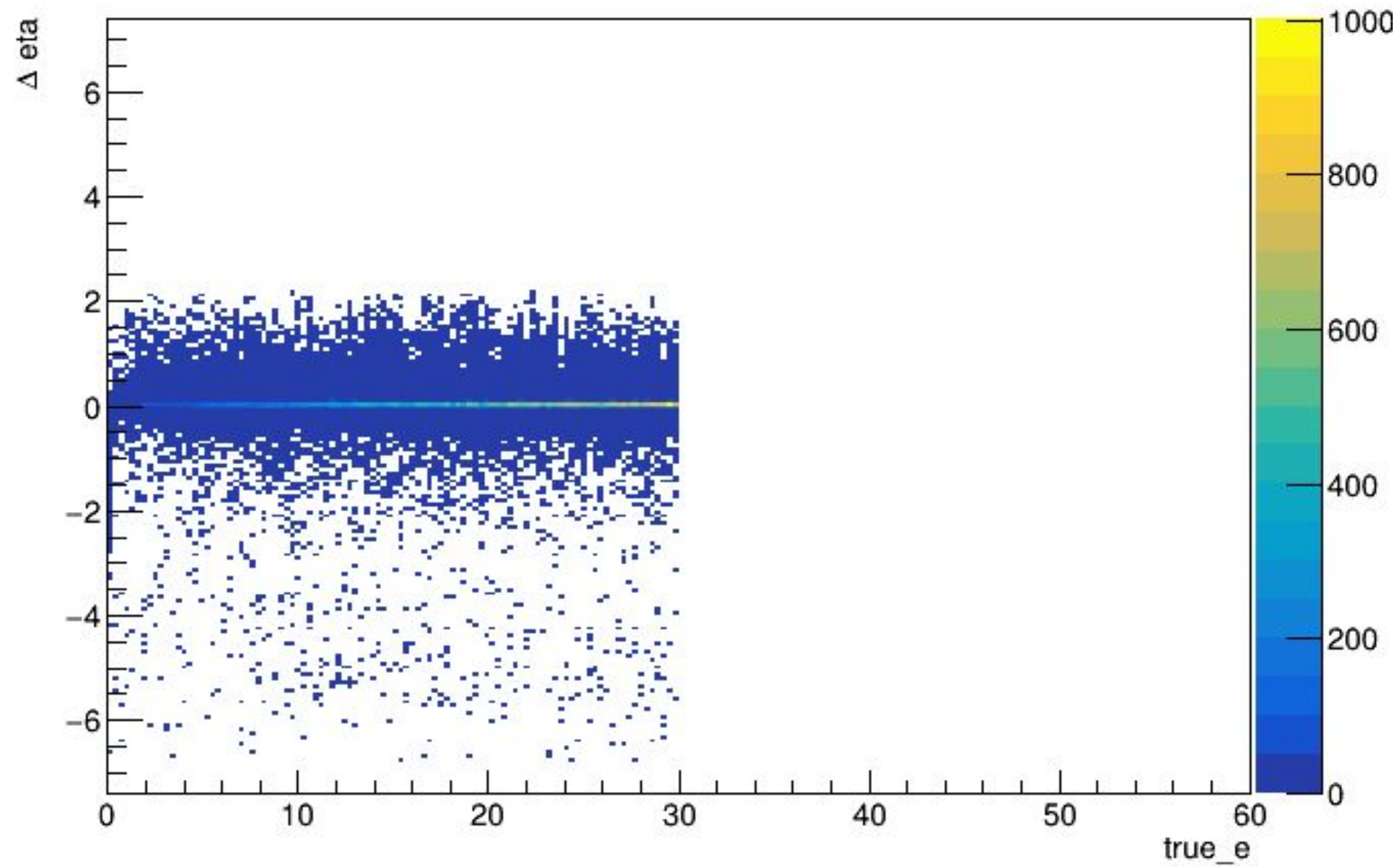


Electron

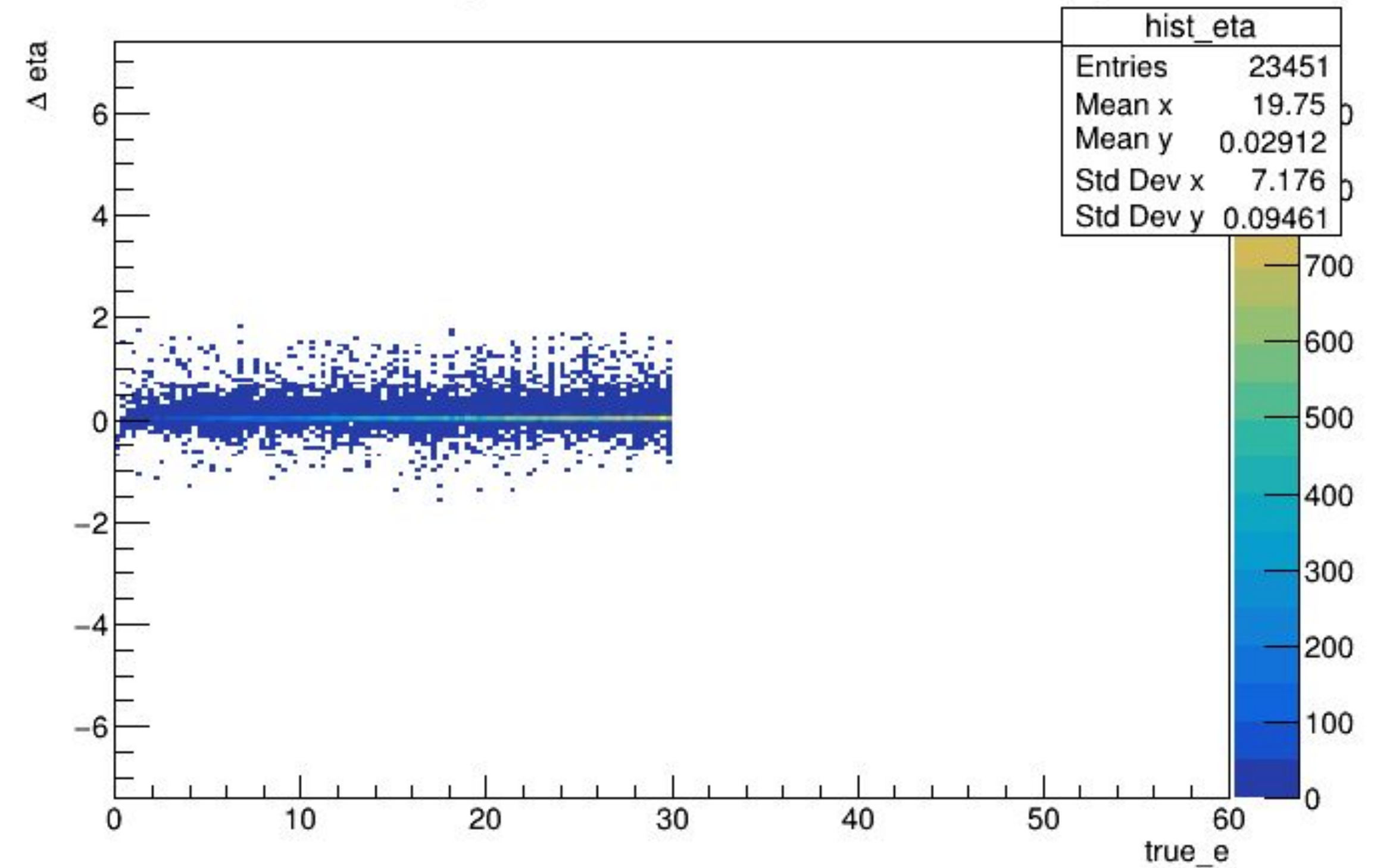
EEMC

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



$\Delta\eta$ vs true_e $\{-3.6 < \text{true}_\eta < -1.6, \text{meas}_e > 0.2 \text{ GeV}\}$

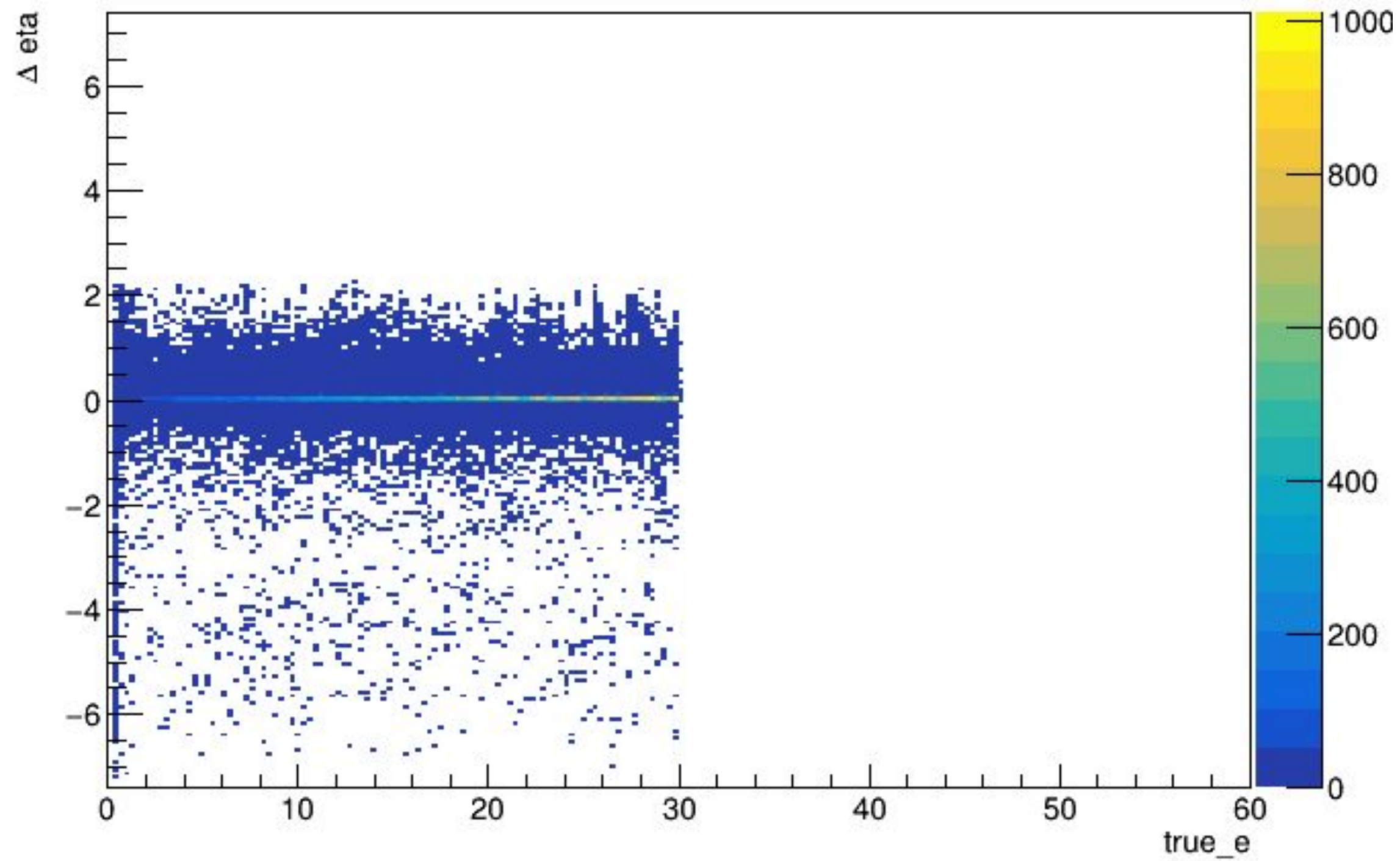


Pion

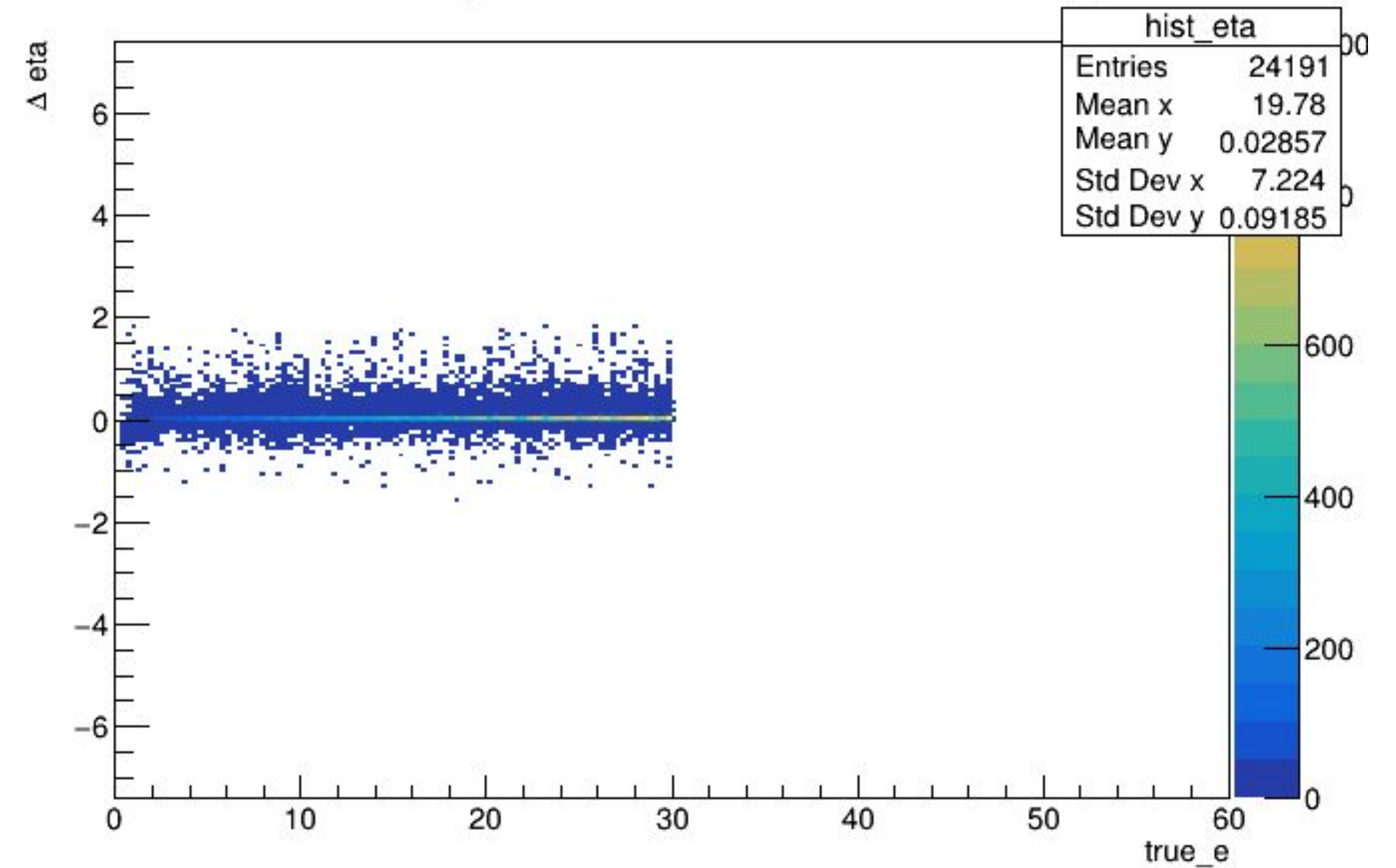
EEMC

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



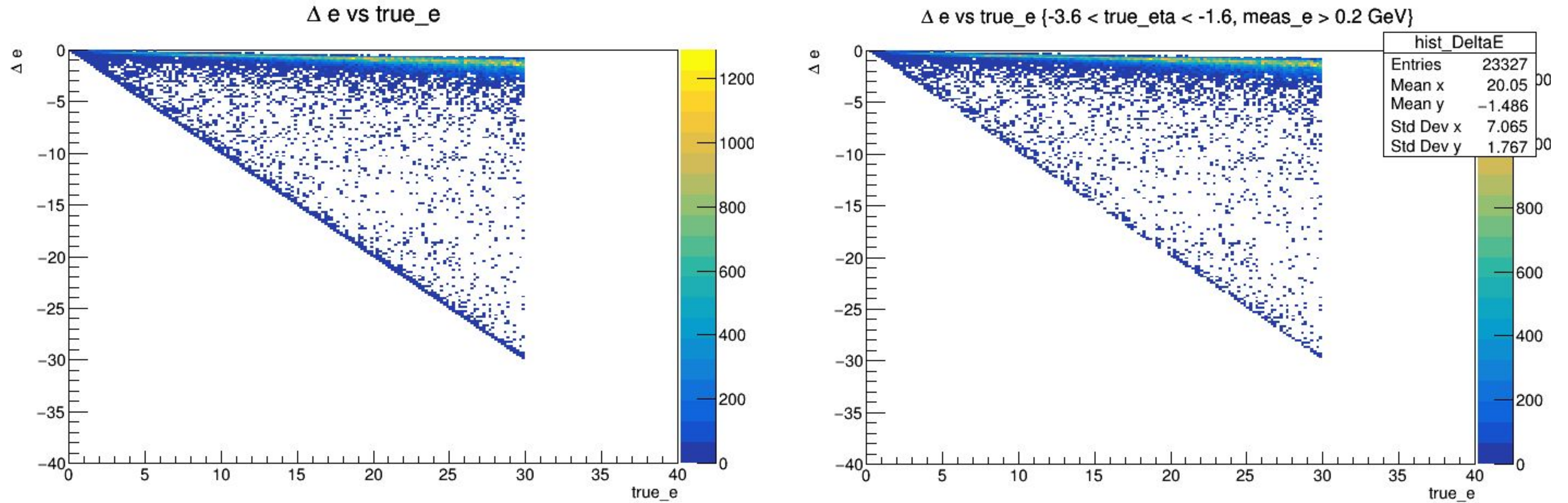
$\Delta\eta$ vs true_e $\{-3.6 < \text{true}_\eta < -1.6, \text{meas}_e > 0.2 \text{ GeV}\}$



Kaon

EEMC

Δe vs g_e

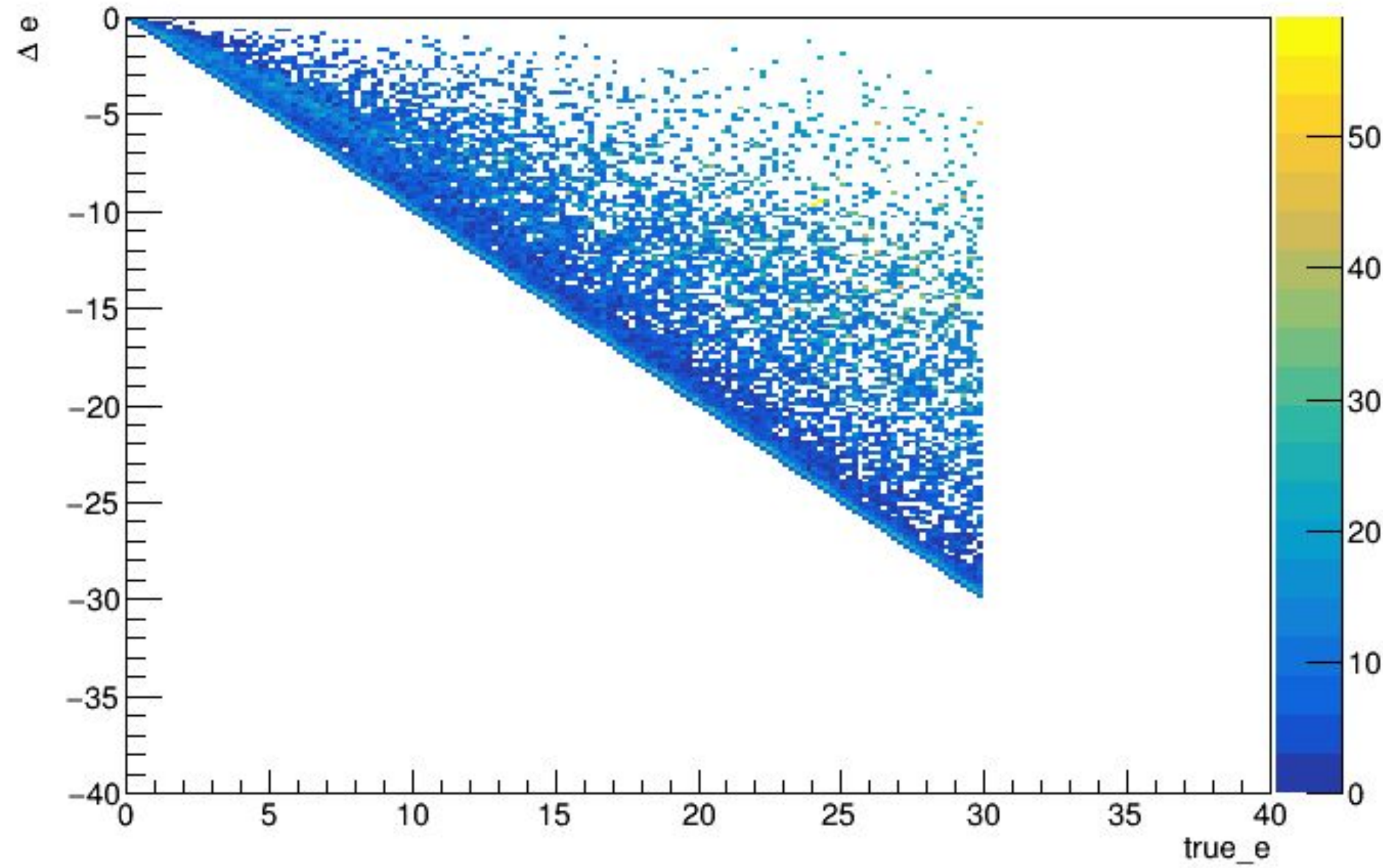


Electron

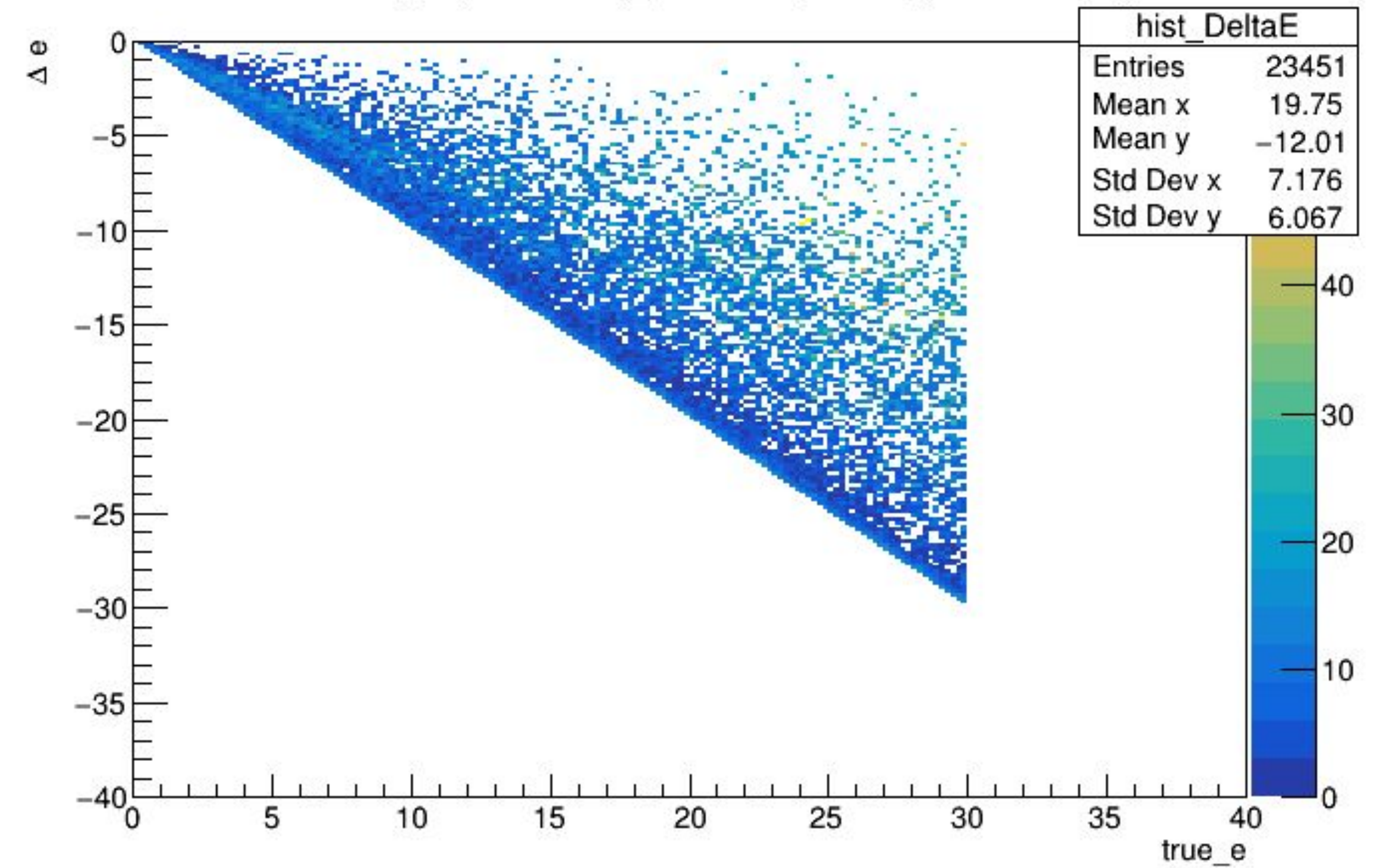
EEMC

Δe vs g_e

Δe vs true_e



Δe vs true_e $\{-3.6 < \text{true_eta} < -1.6, \text{meas_e} > 0.2 \text{ GeV}\}$

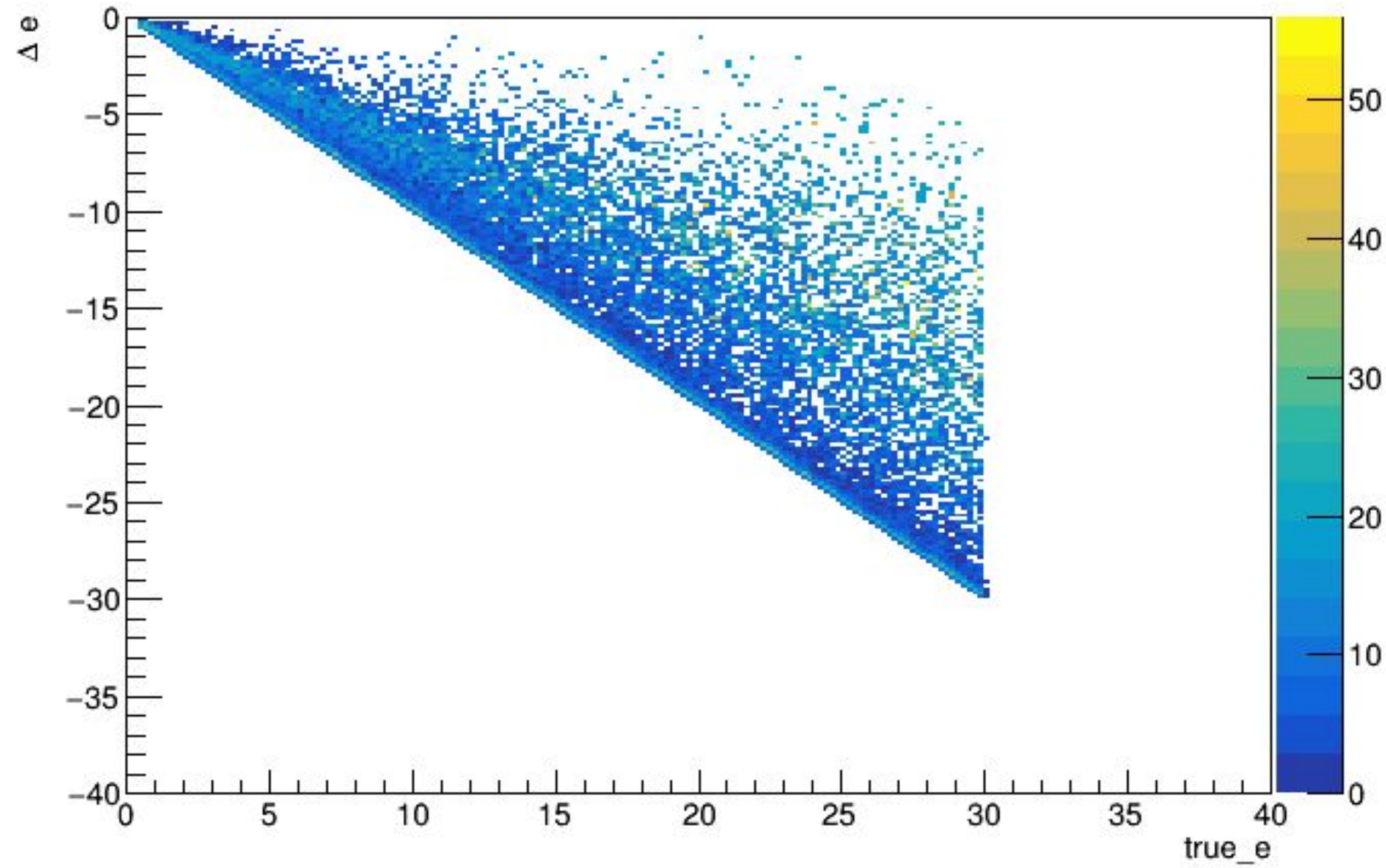


Pion

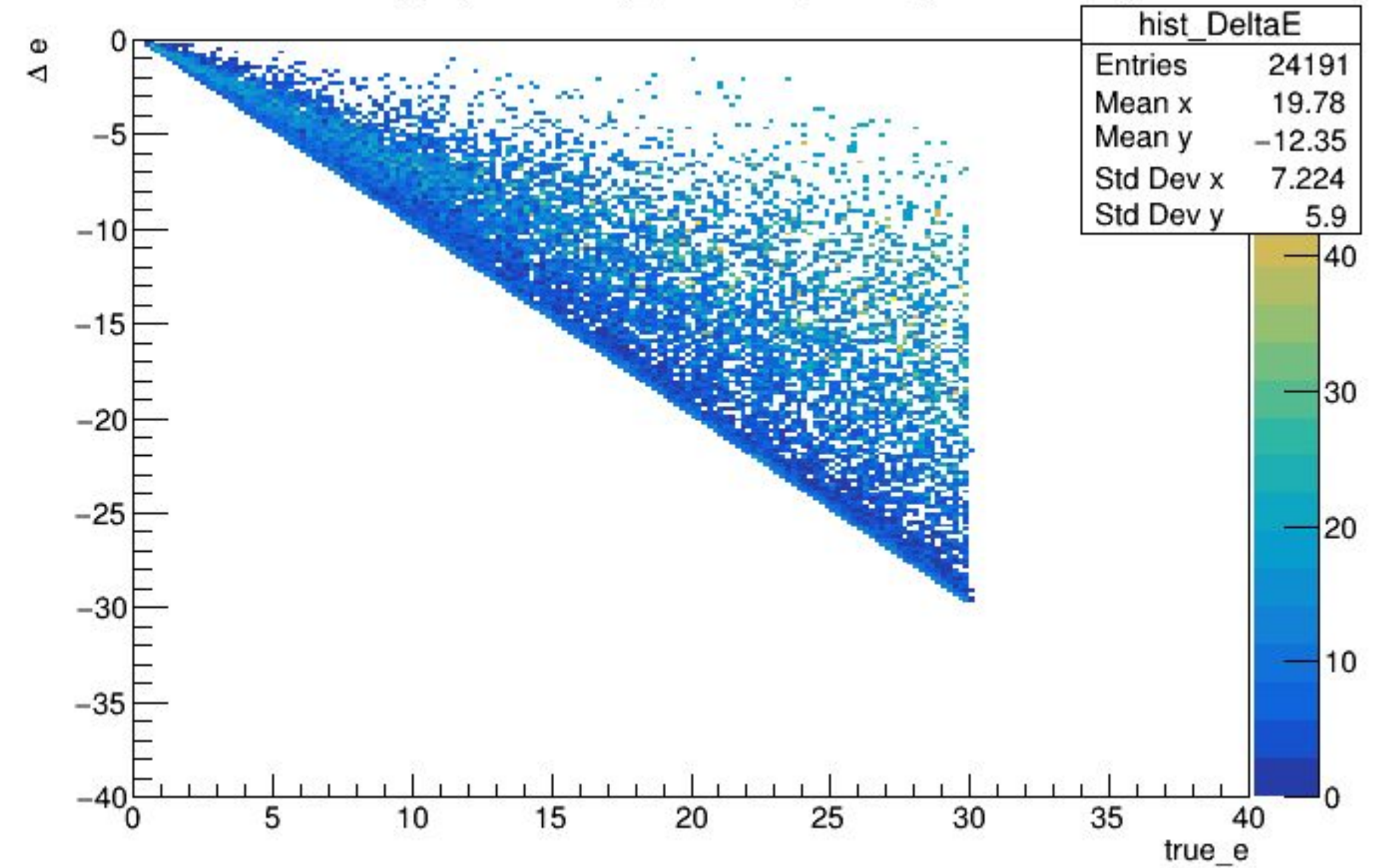
EEMC

Δe vs g_e

Δe vs true_e



Δe vs true_e $\{-3.6 < \text{true_eta} < -1.6, \text{meas_e} > 0.2 \text{ GeV}\}$



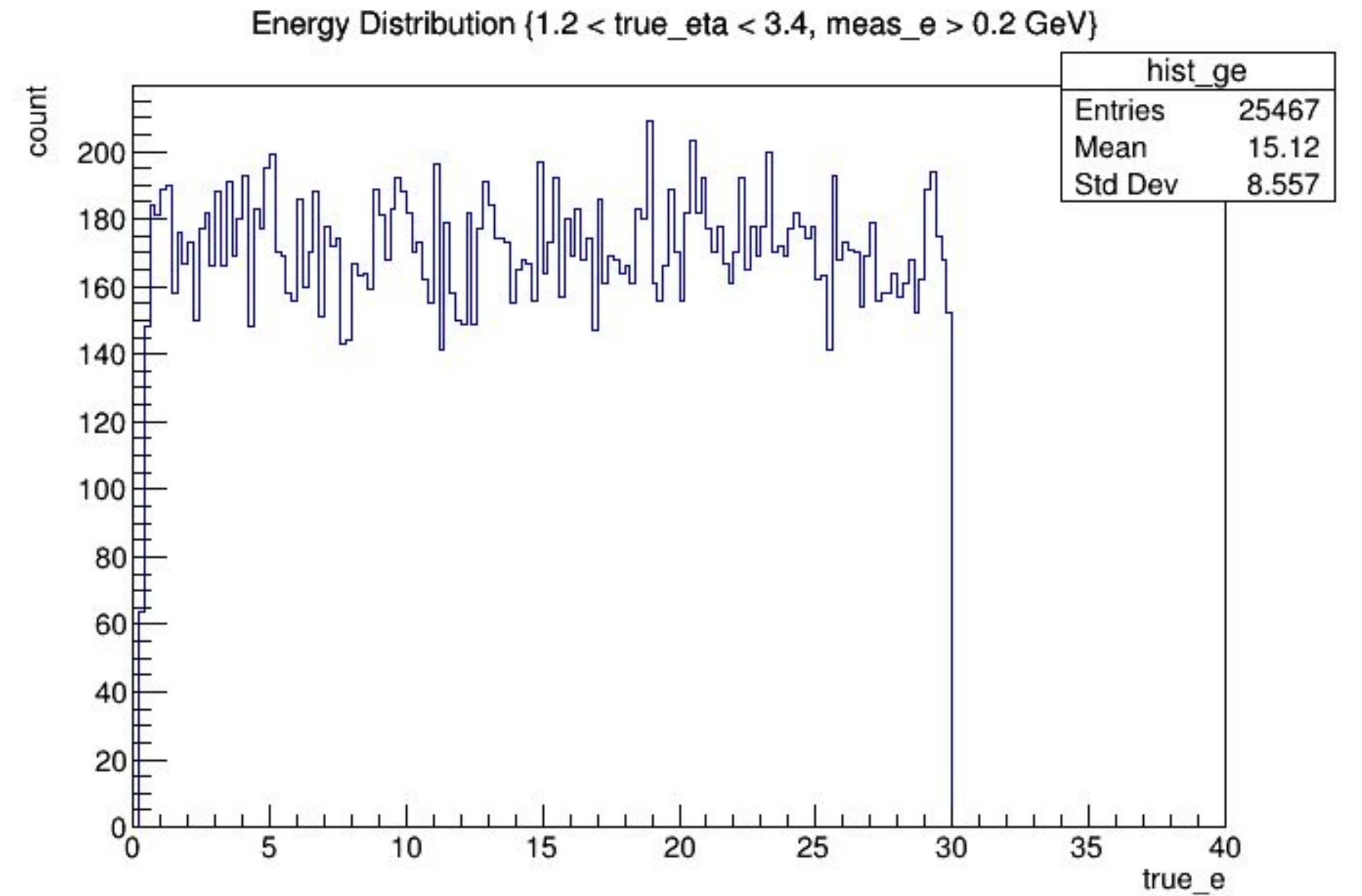
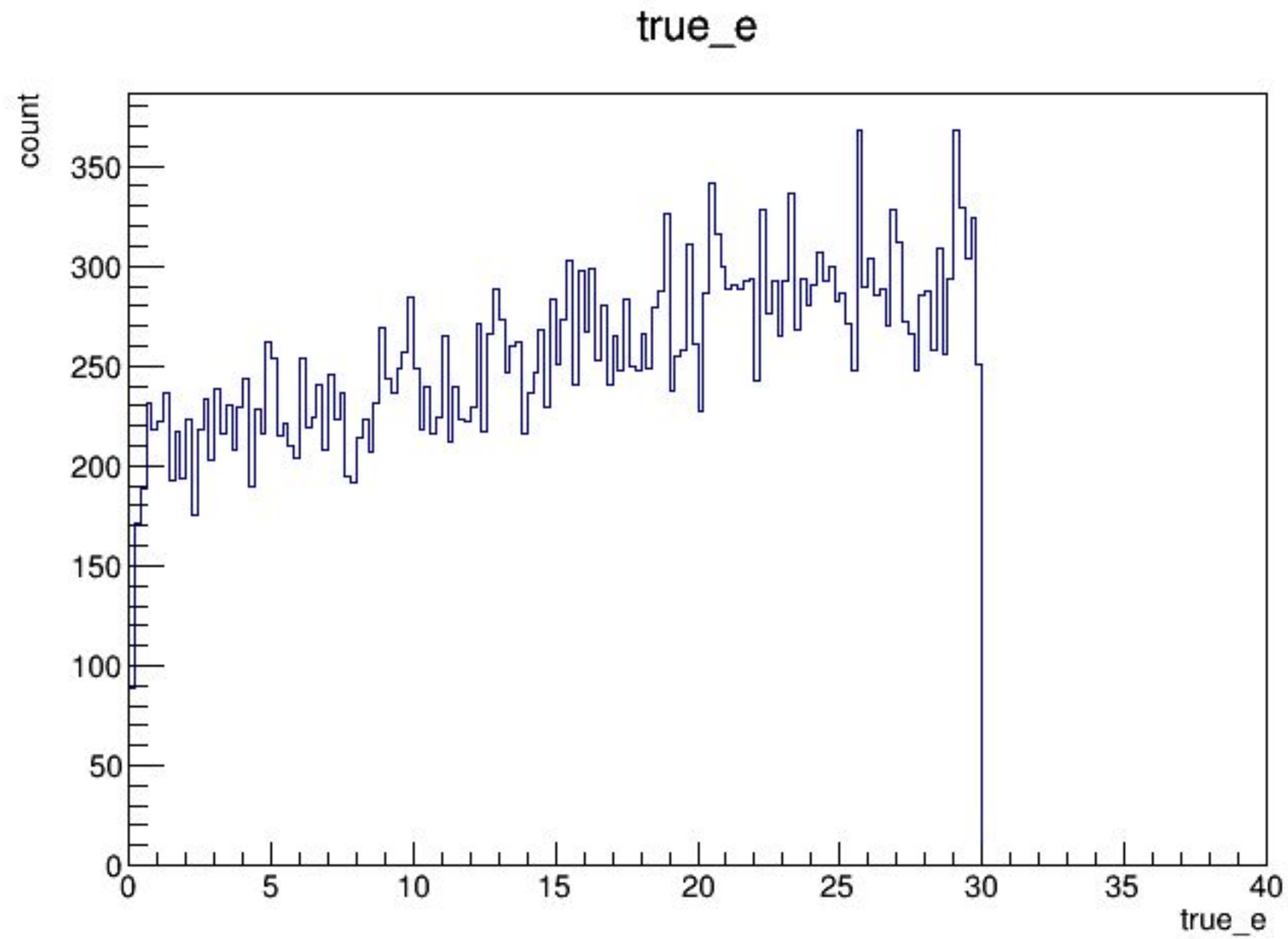
Kaon



FEMC

FEMC

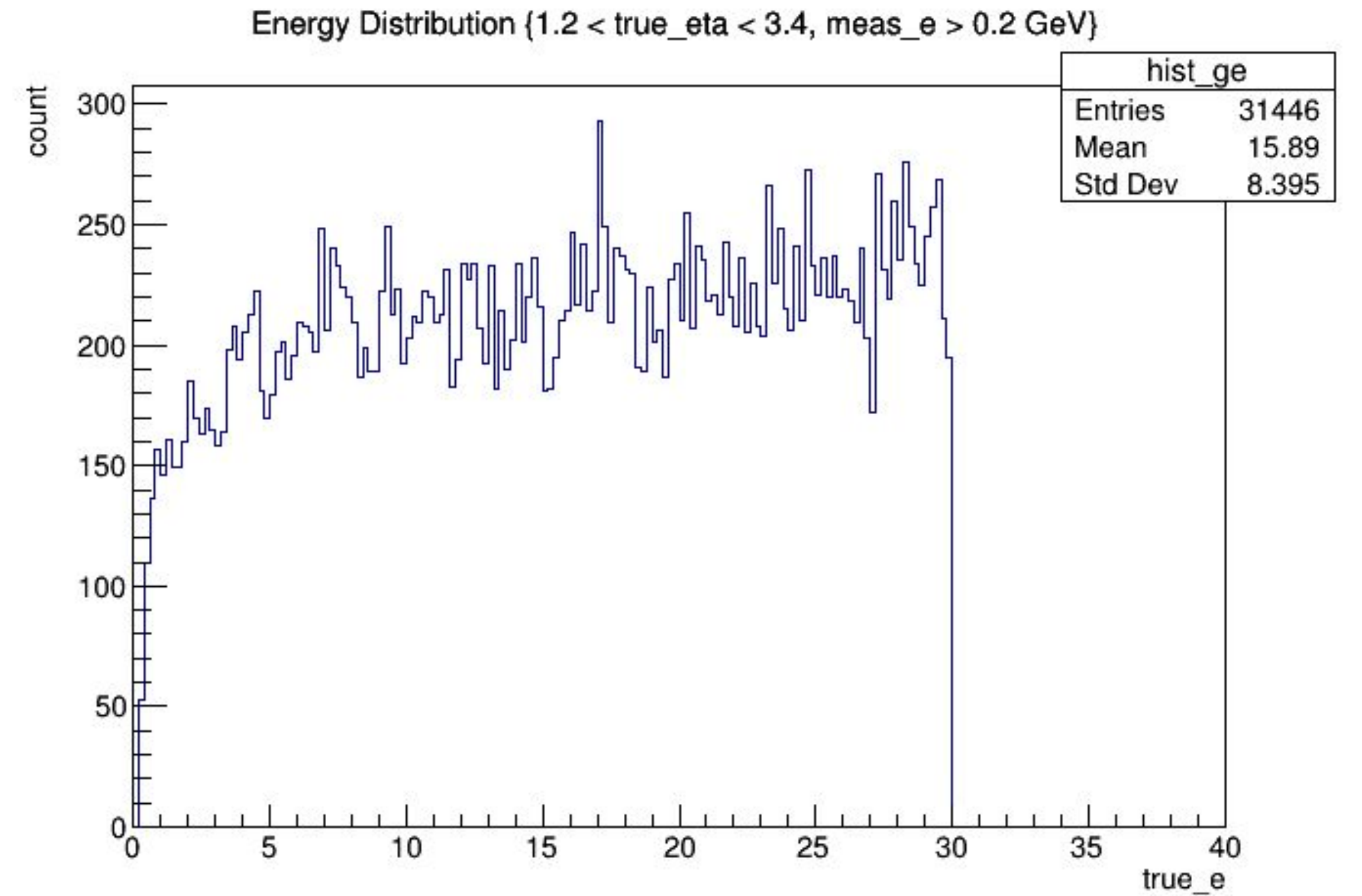
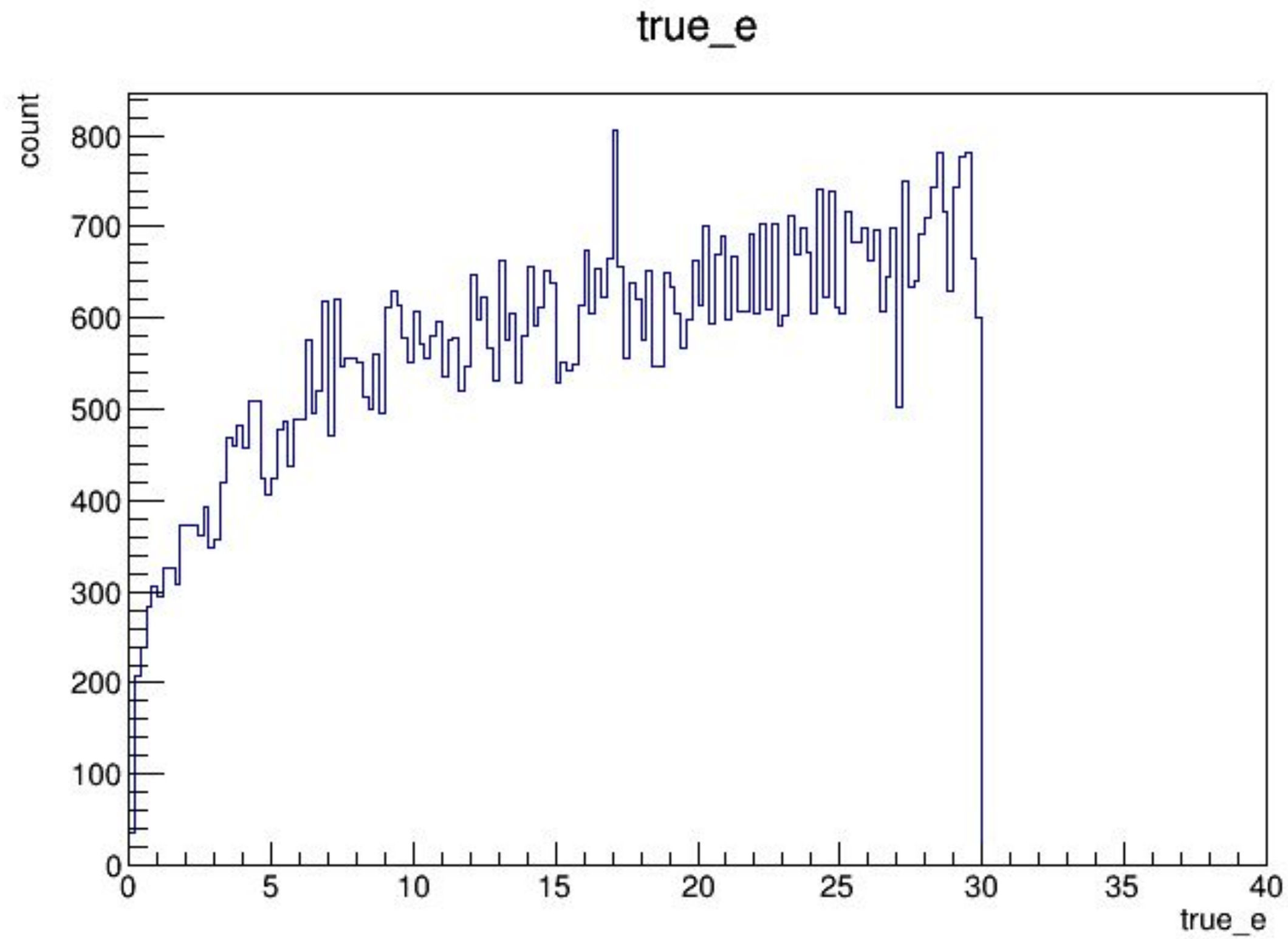
ge distribution



Electron

FEMC

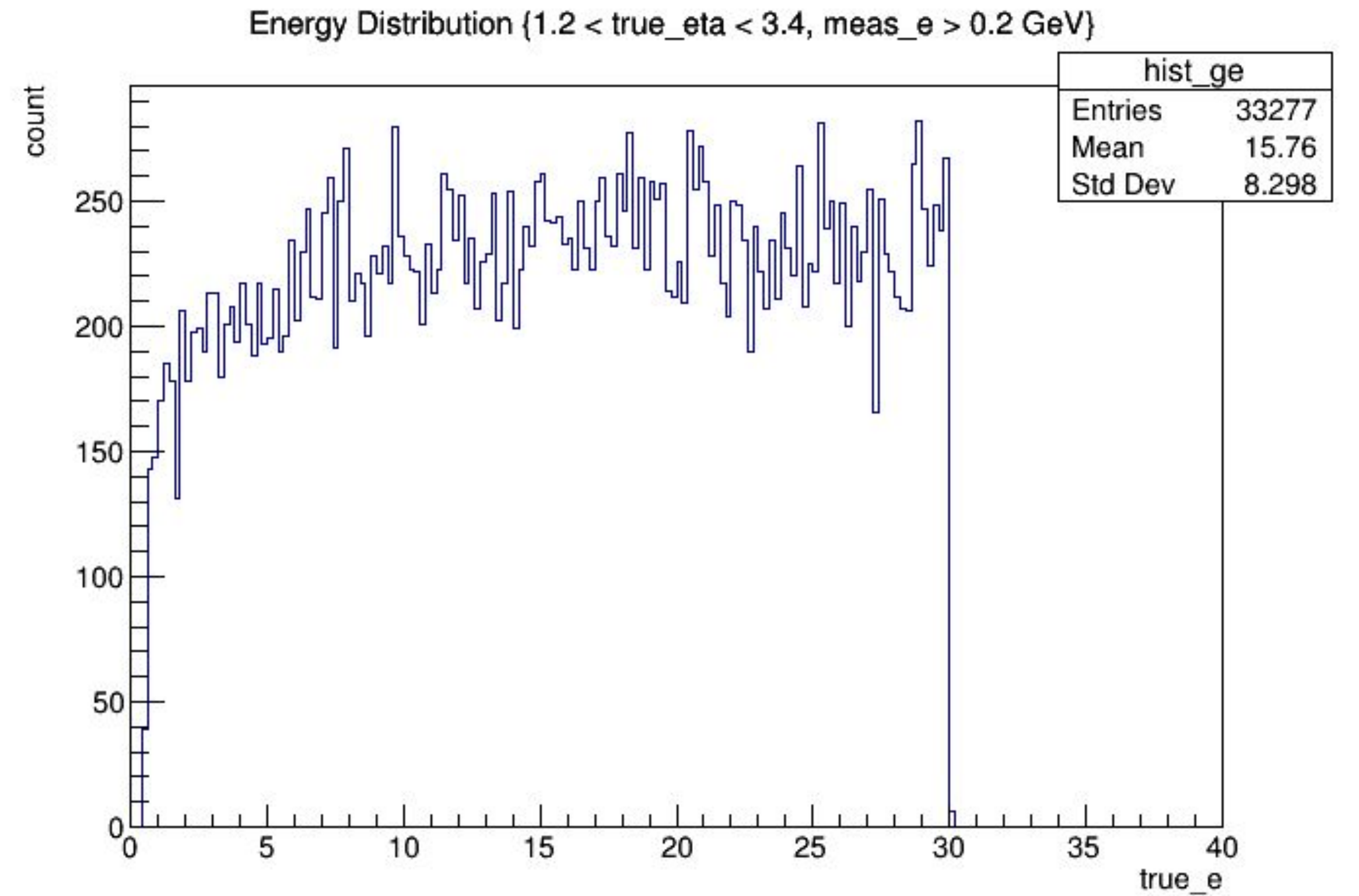
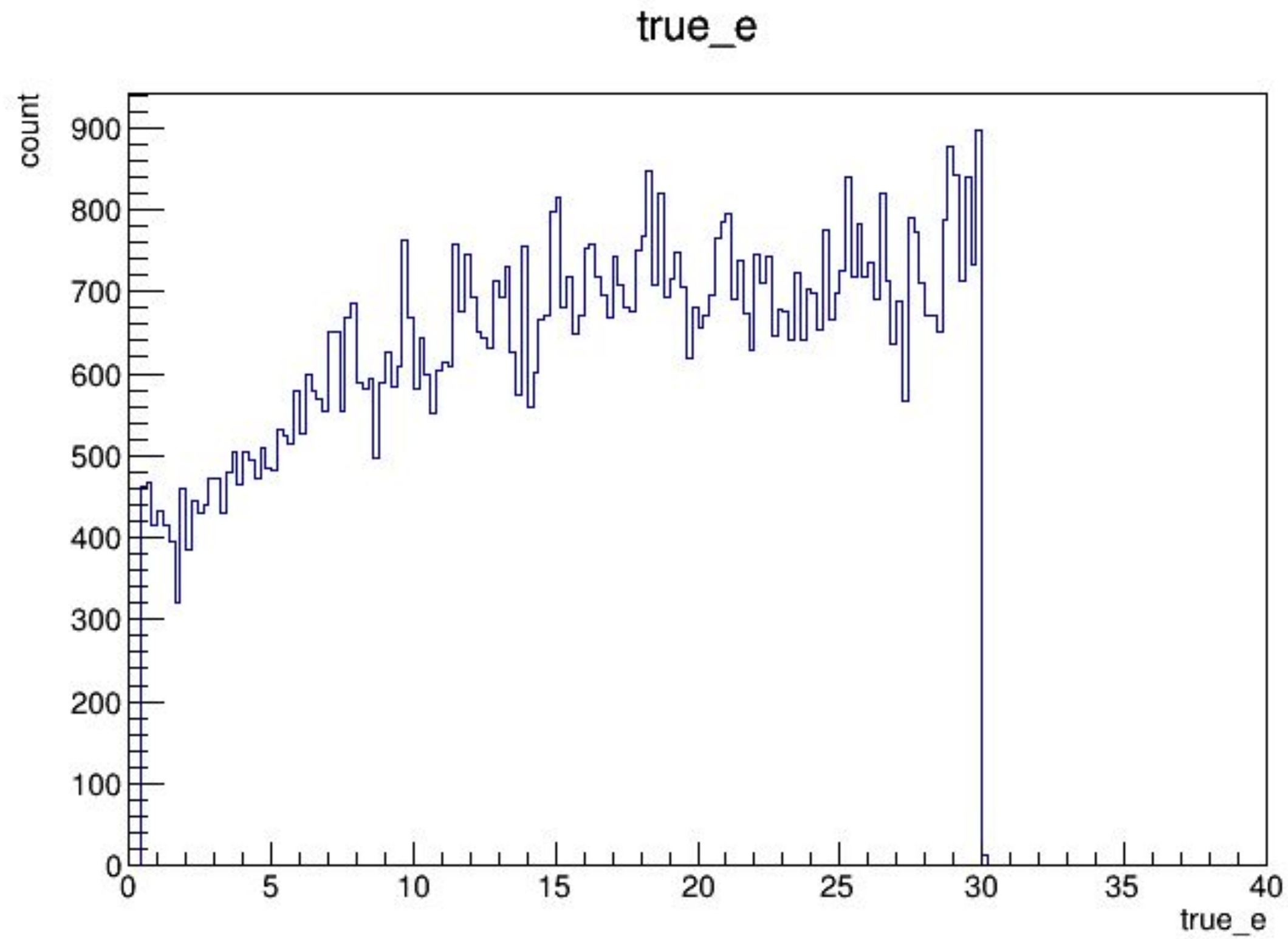
ge distribution



Pion

FEMC

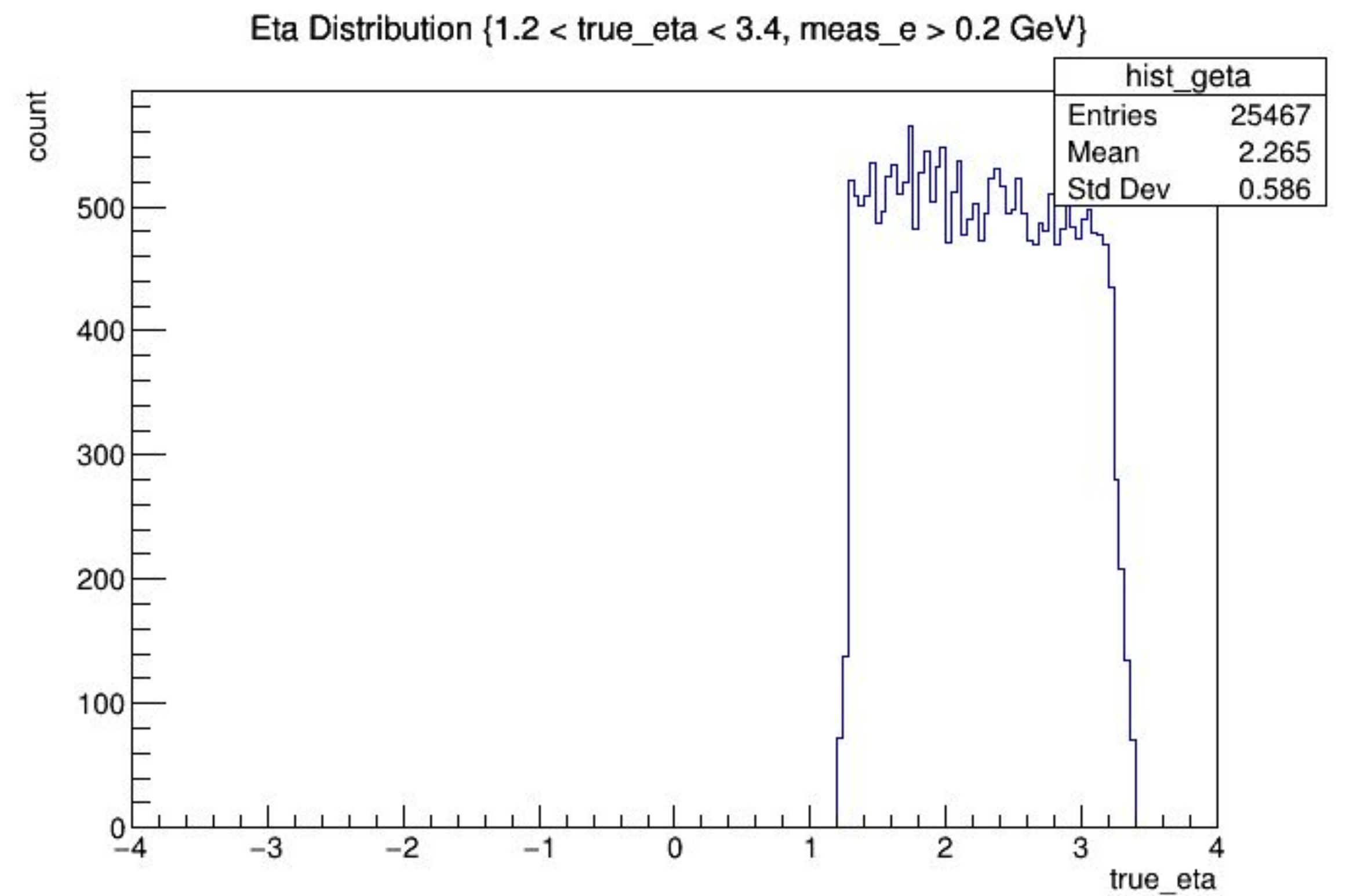
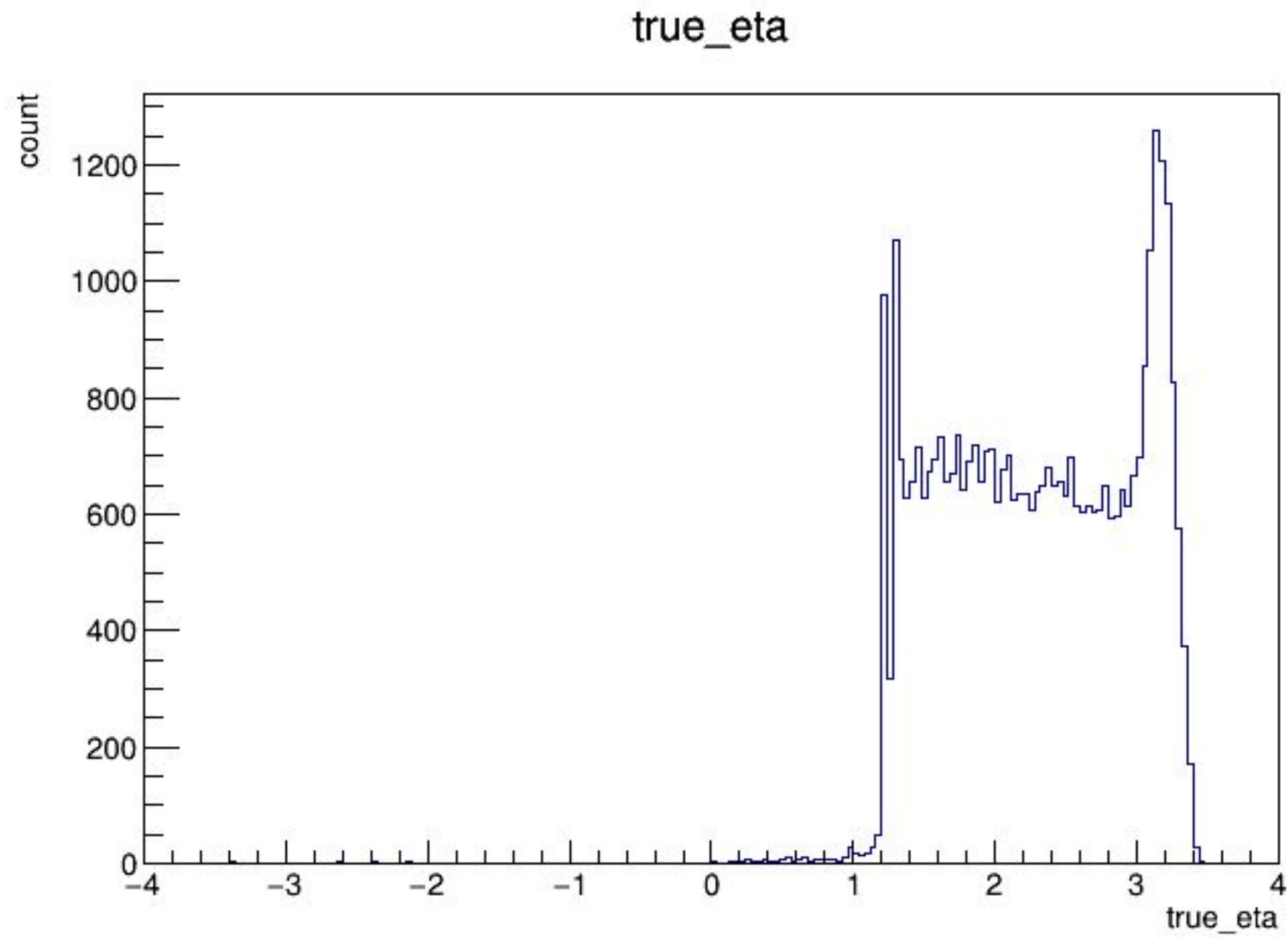
ge distribution



Kaon

FEMC

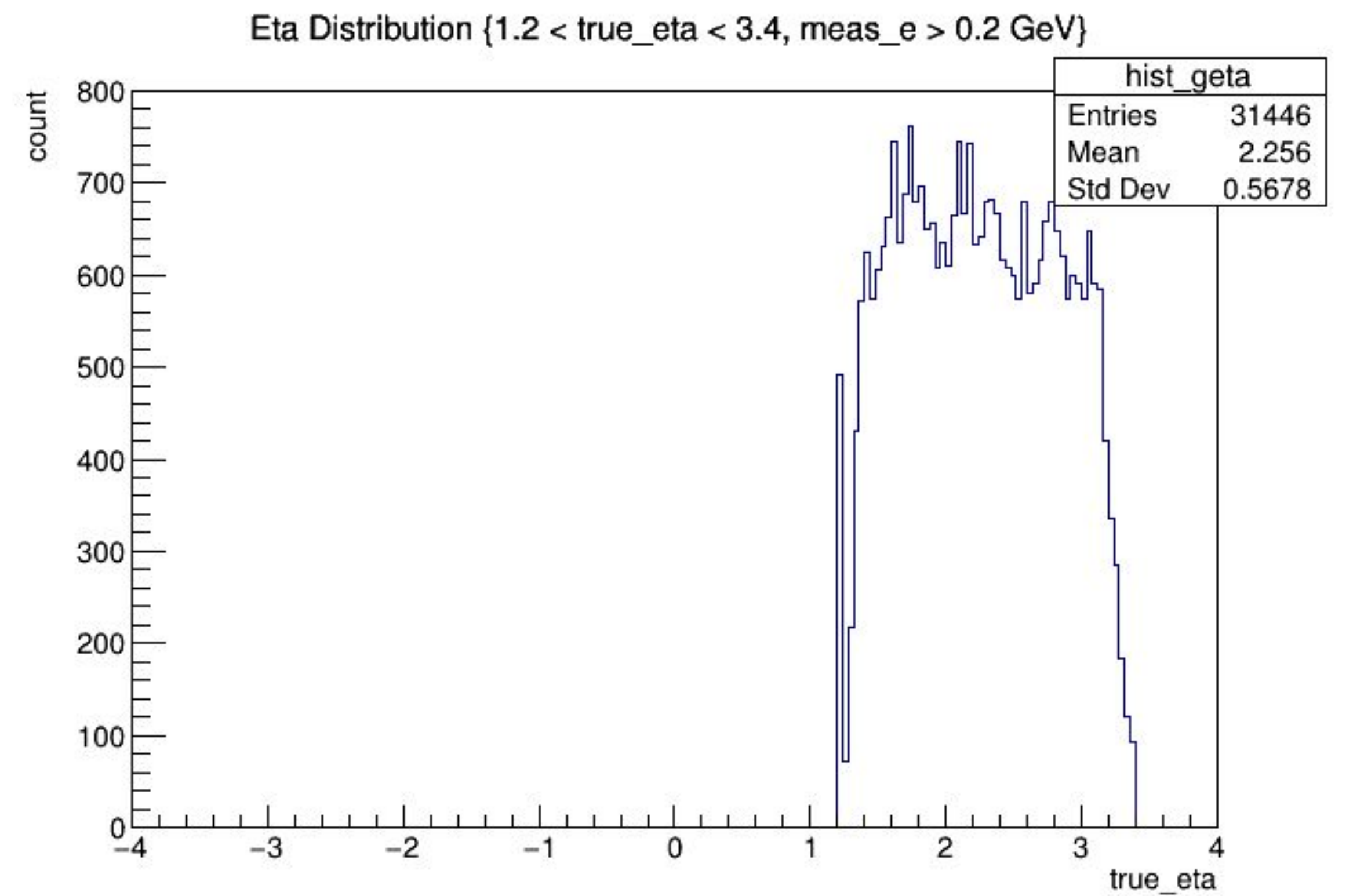
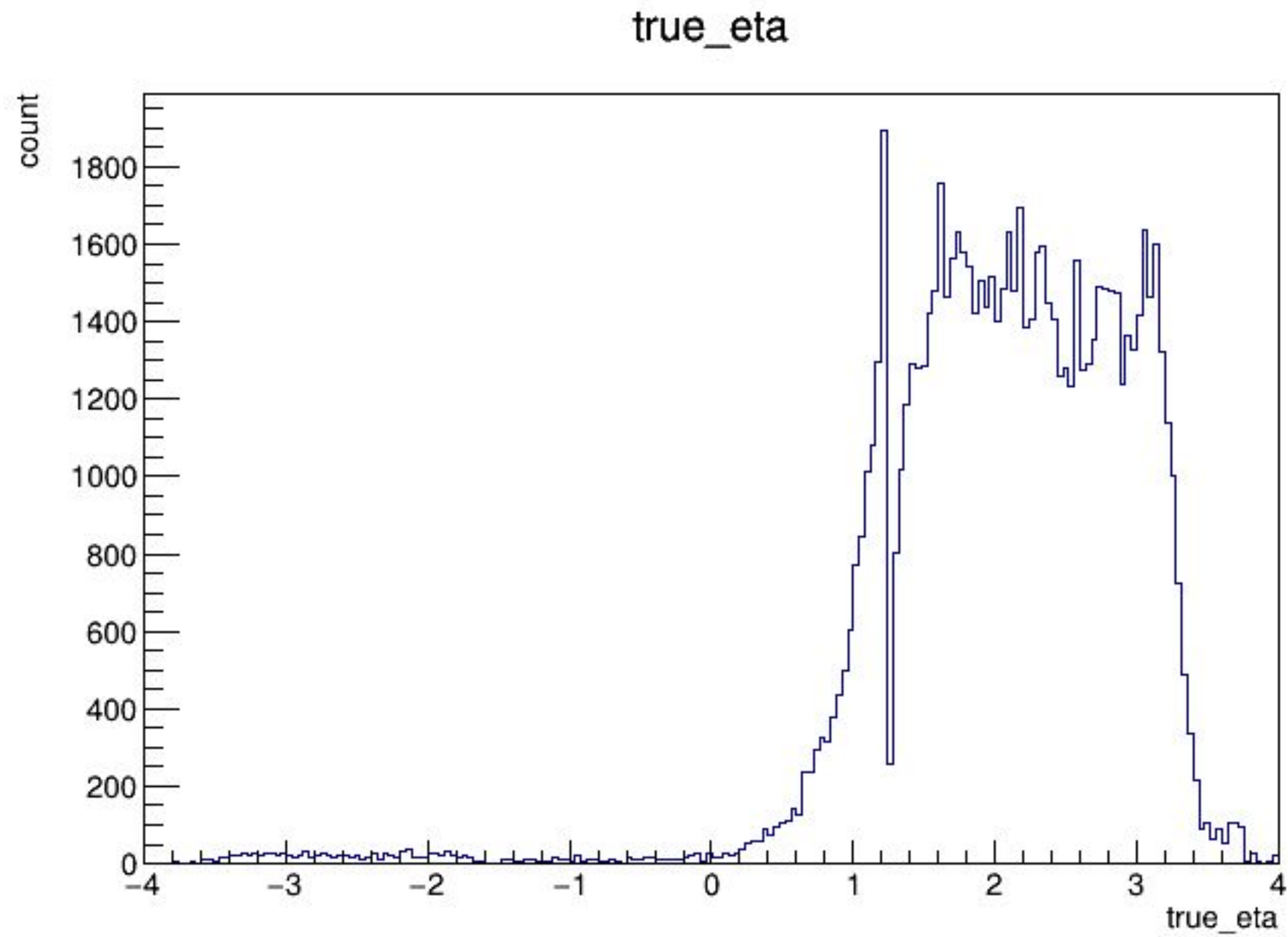
geta distribution



Electron

FEMC

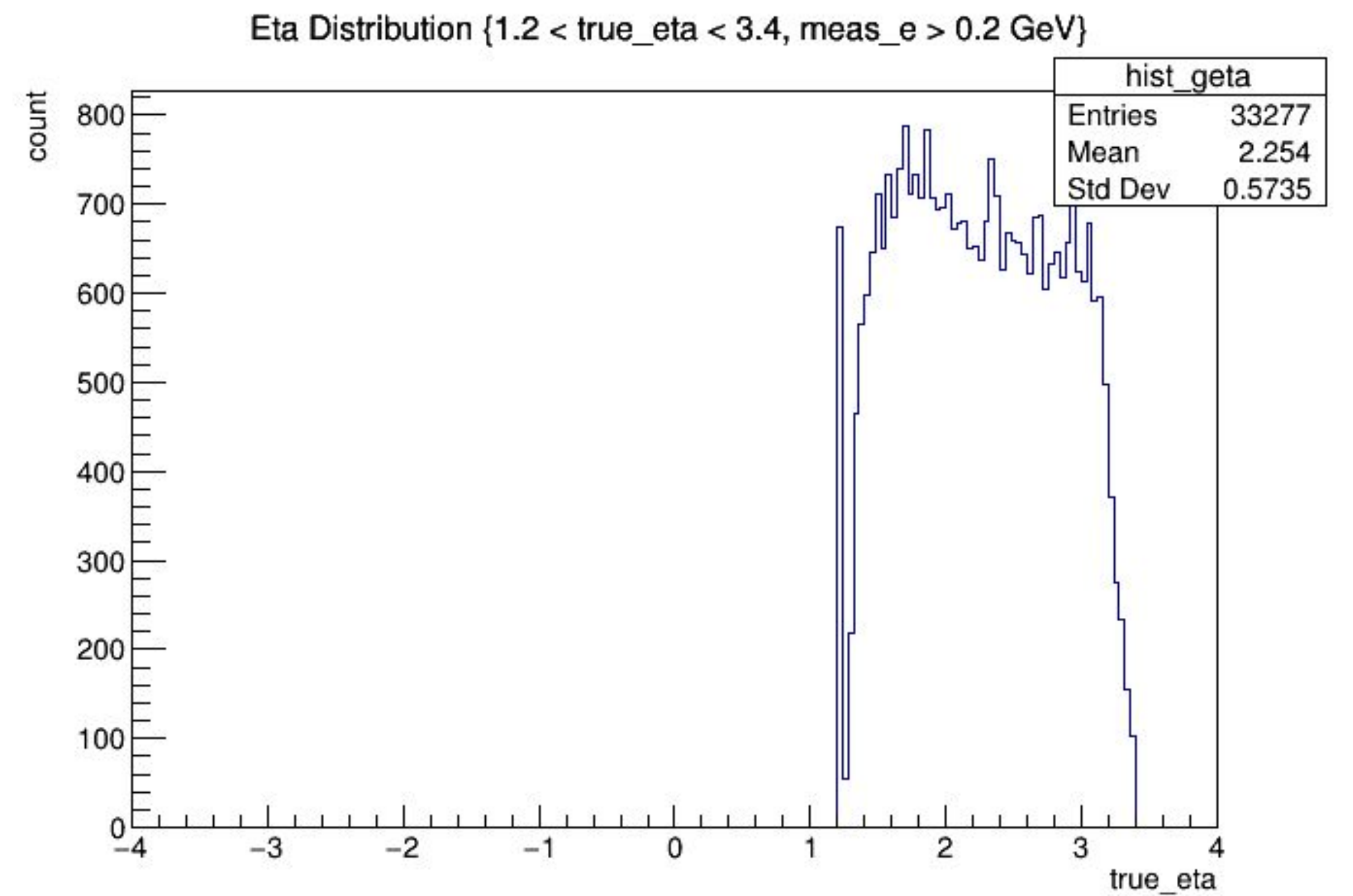
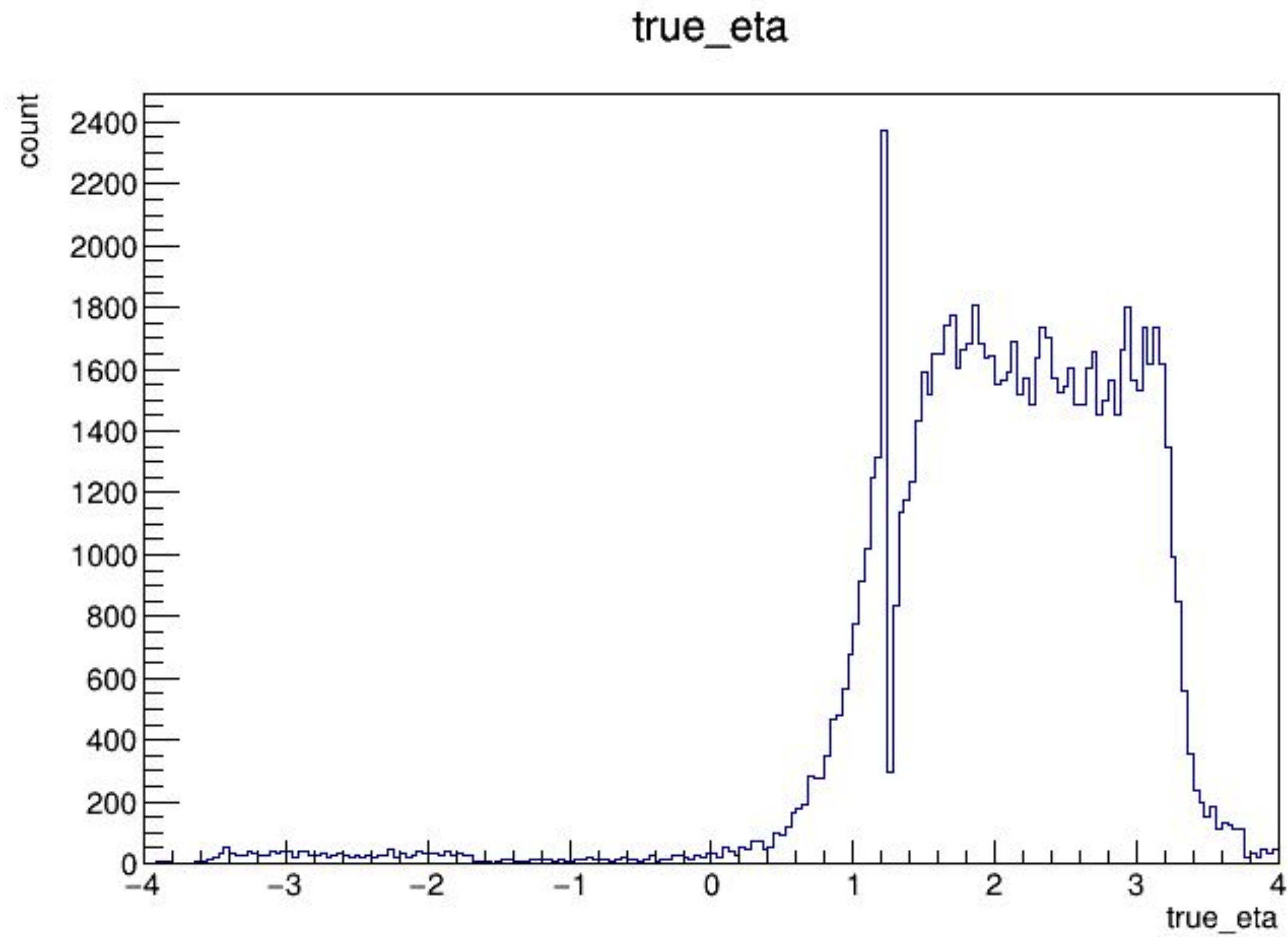
geta distribution



Pion

FEMC

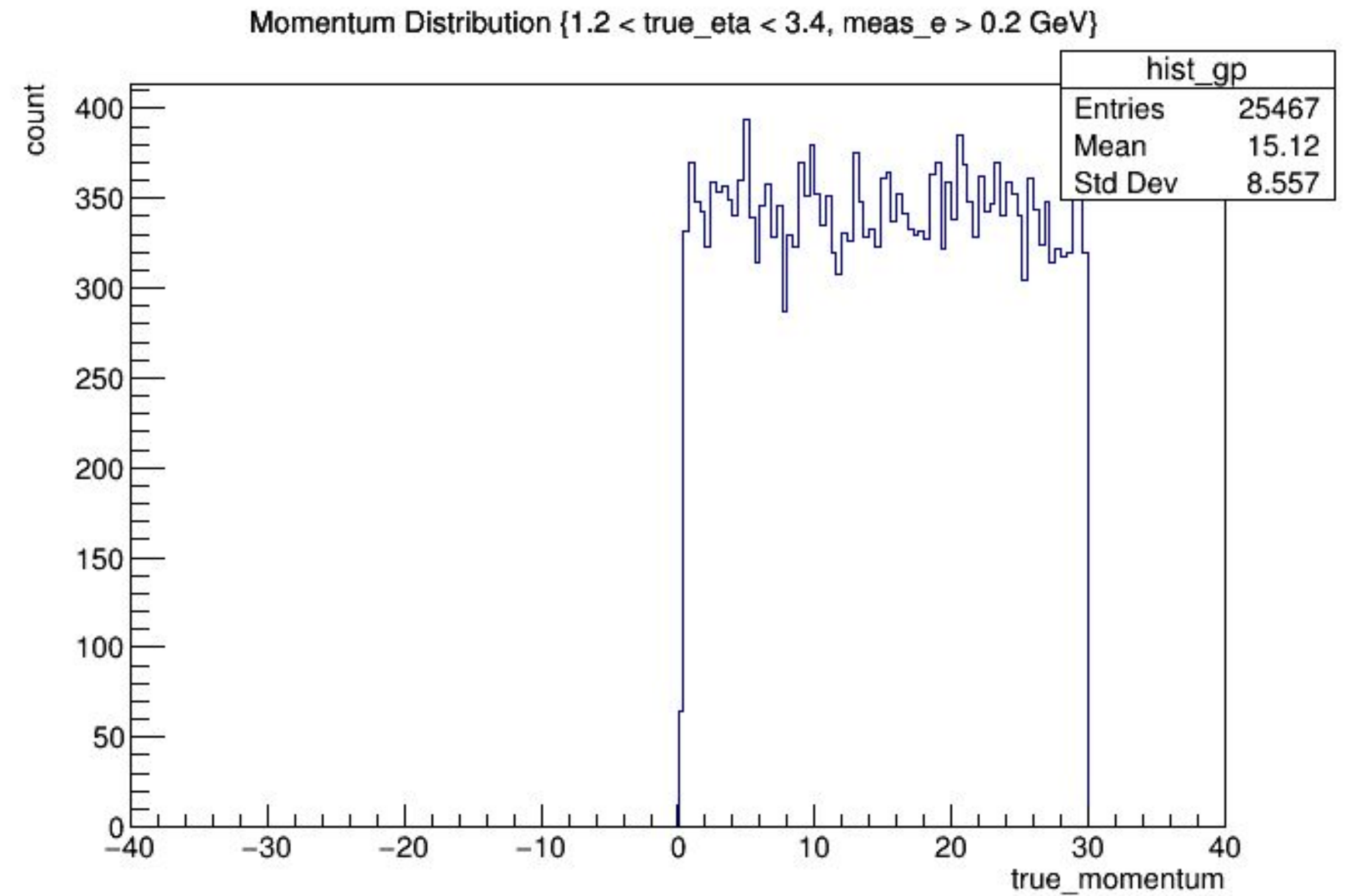
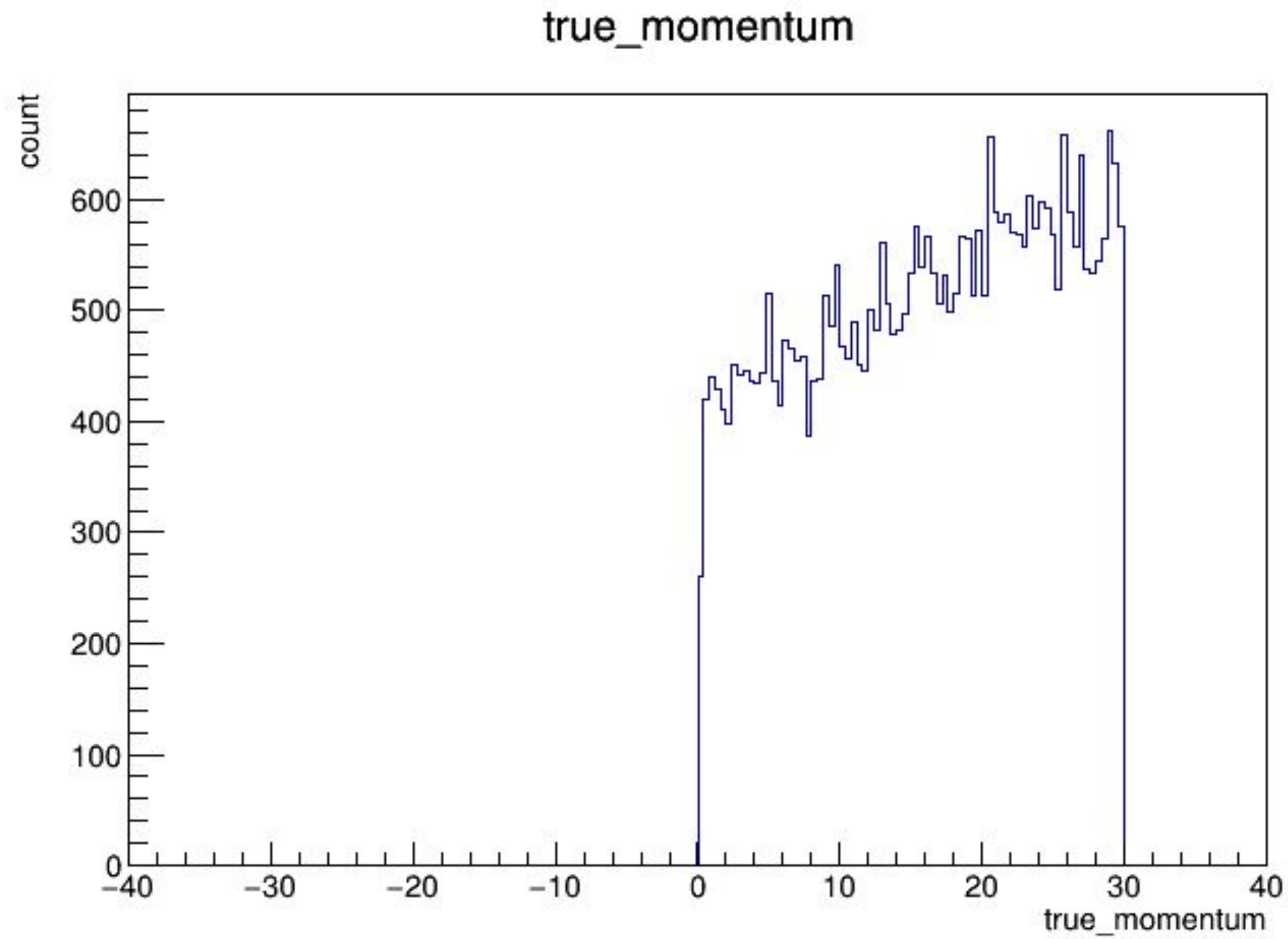
geta distribution



Kaon

FEMC

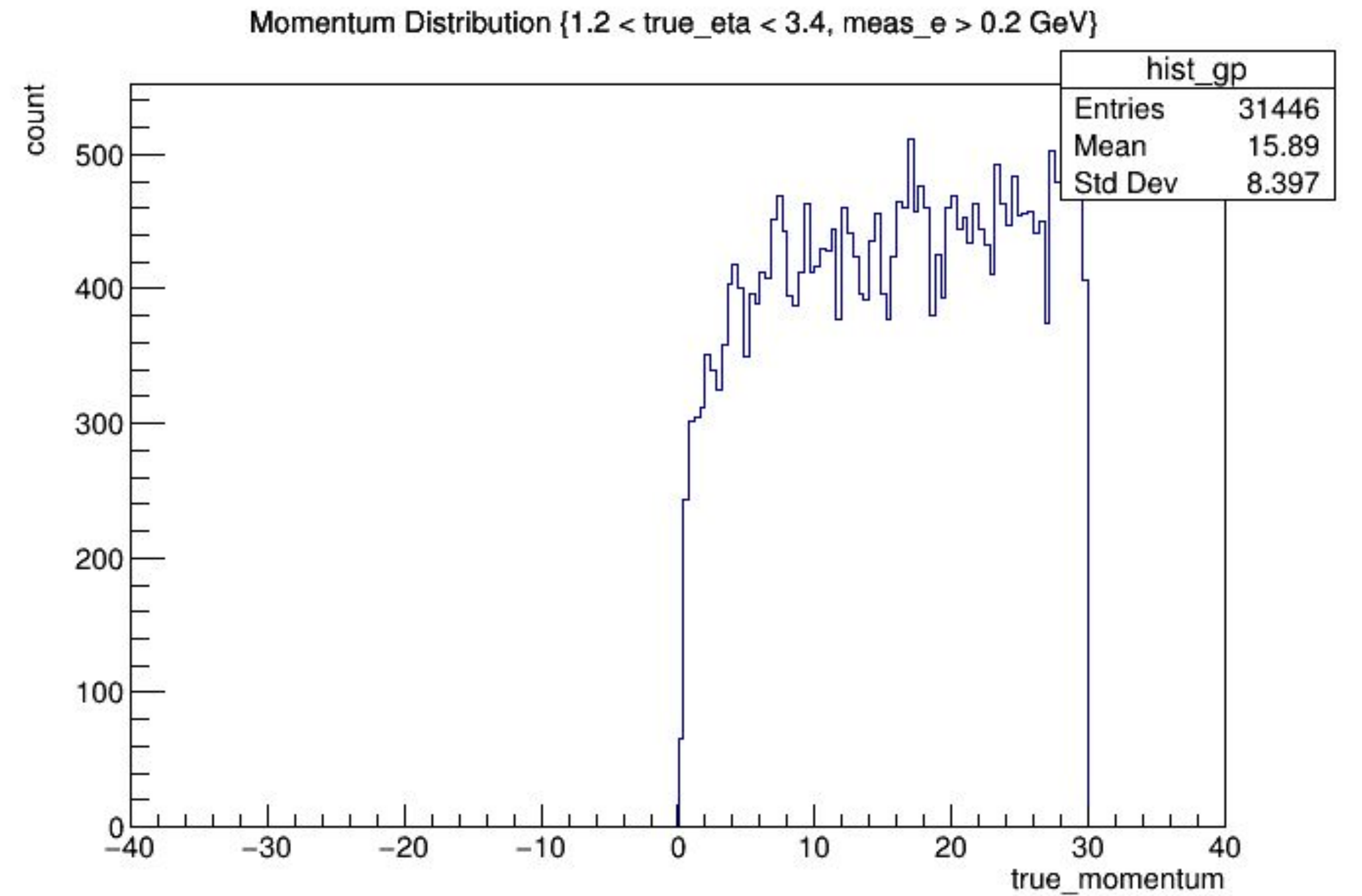
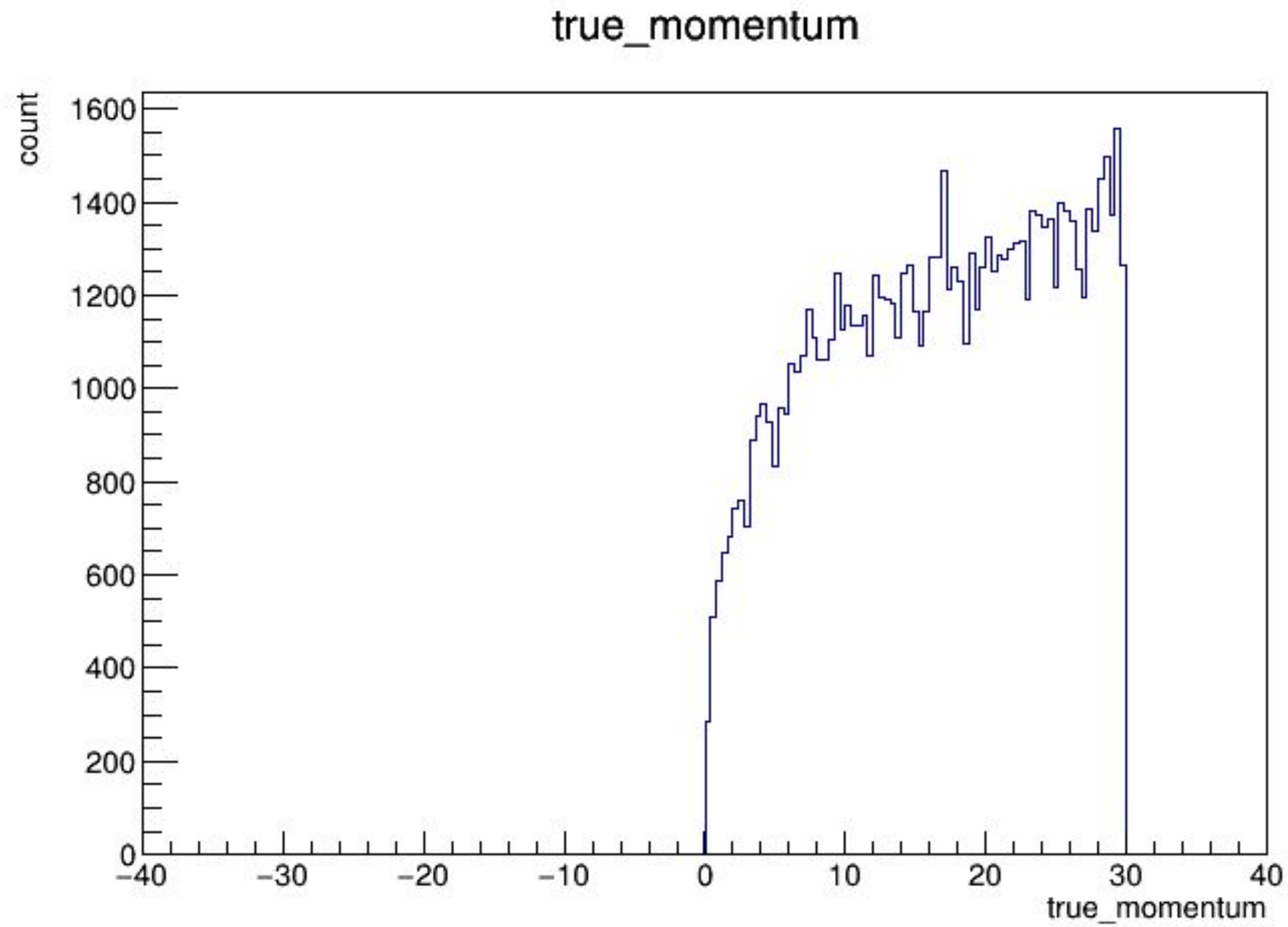
Momentum distribution



Electron

FEMC

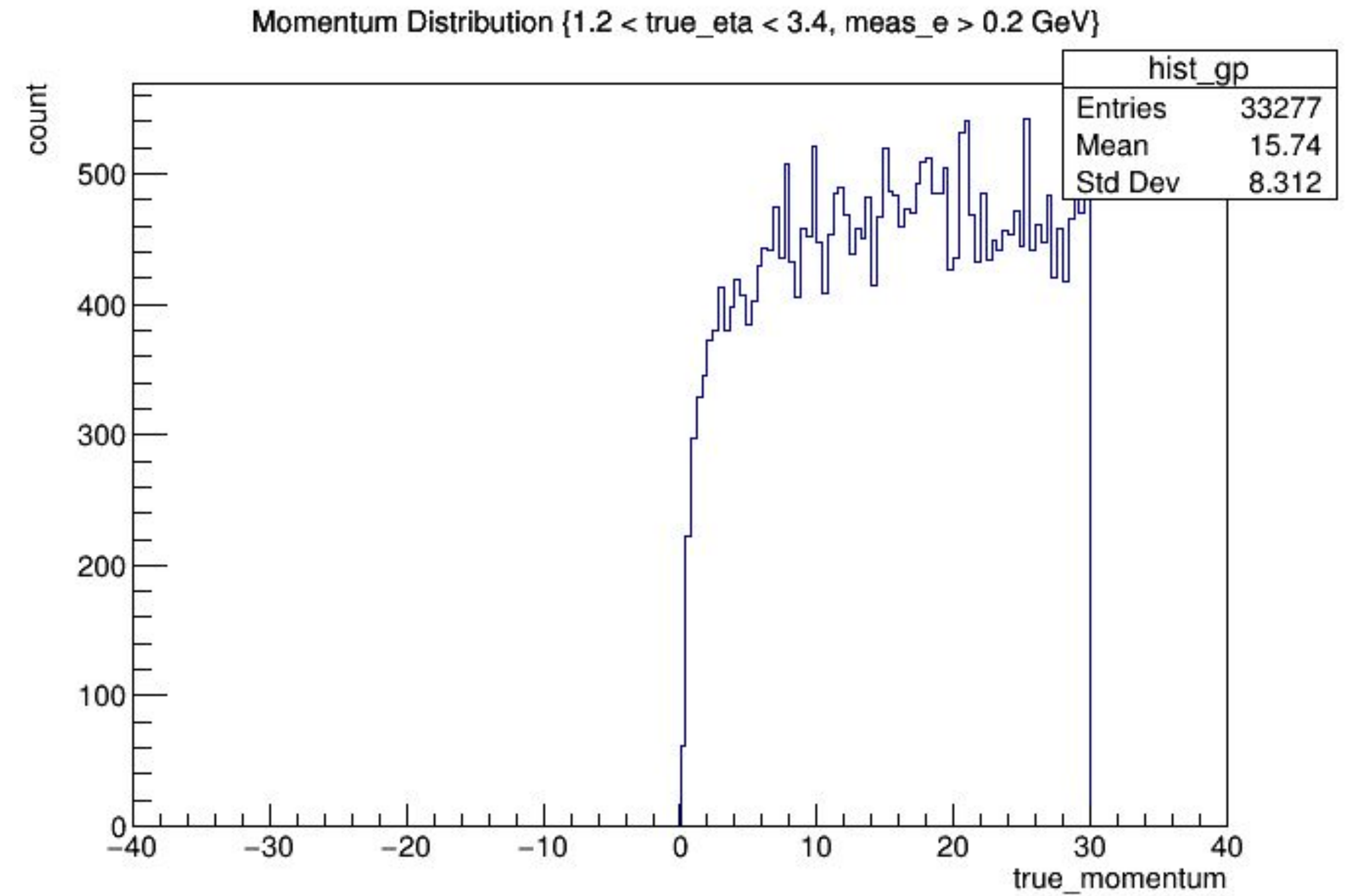
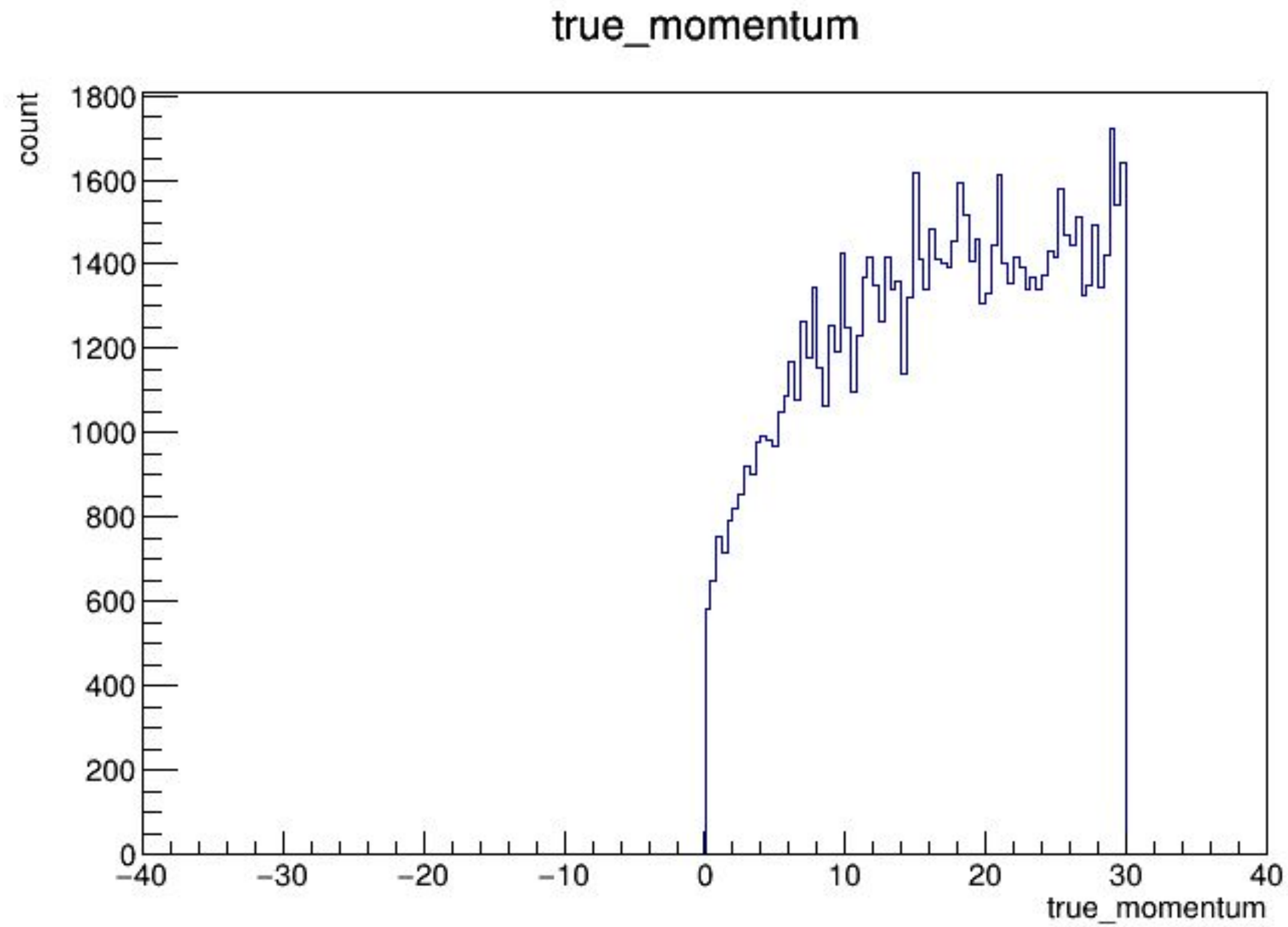
Momentum distribution



Pion

FEMC

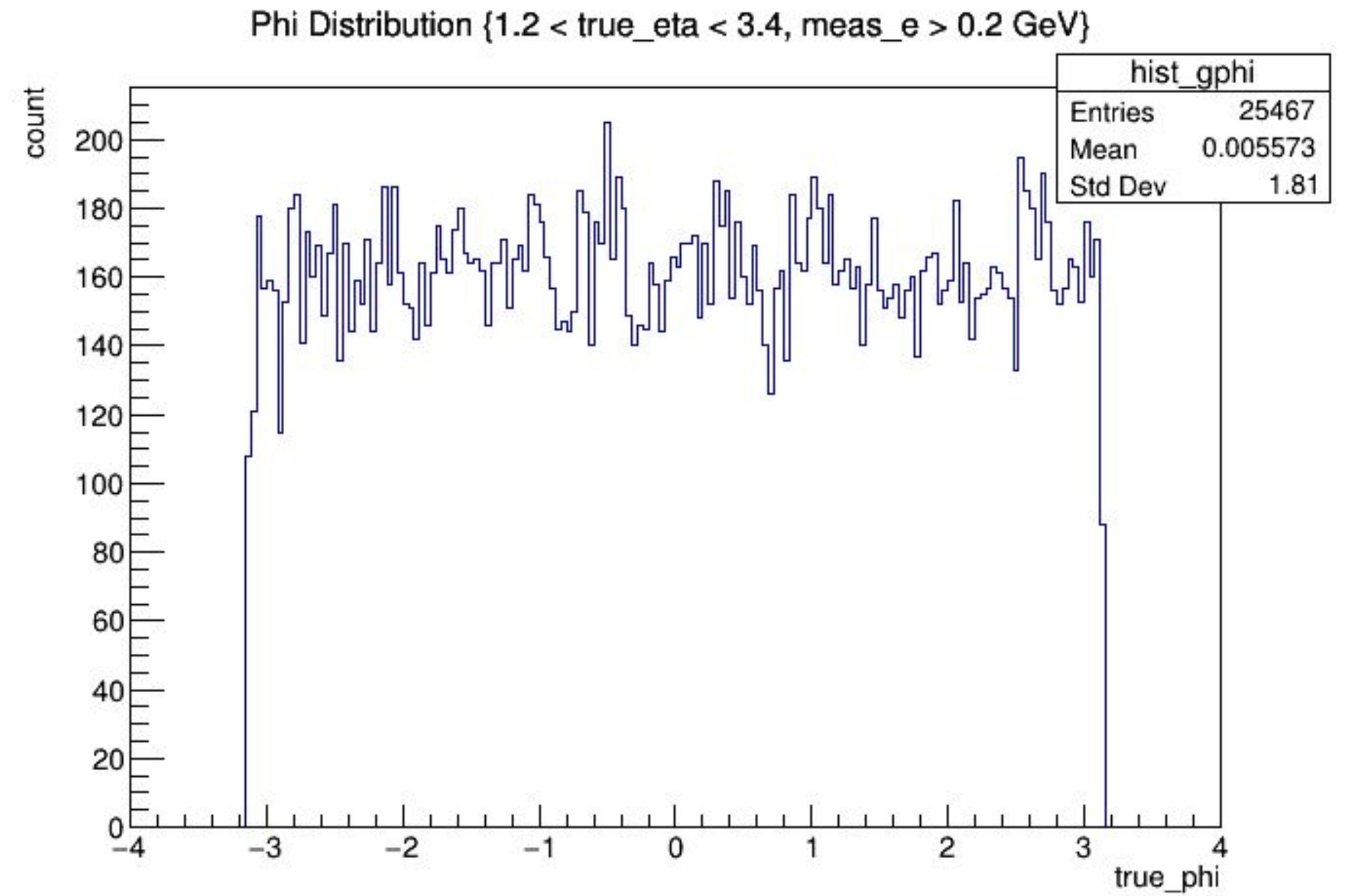
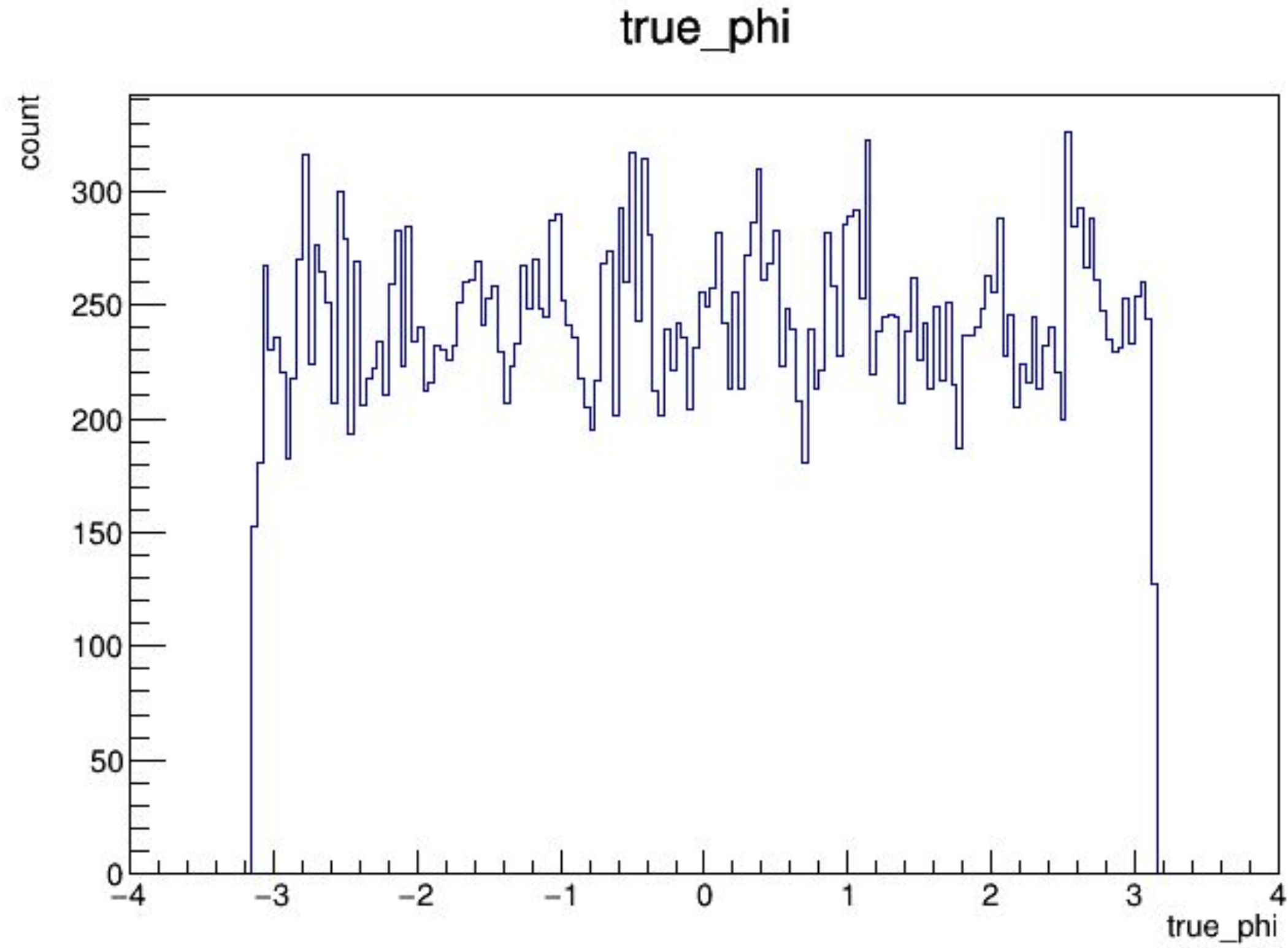
Momentum distribution



Kaon

FEMC

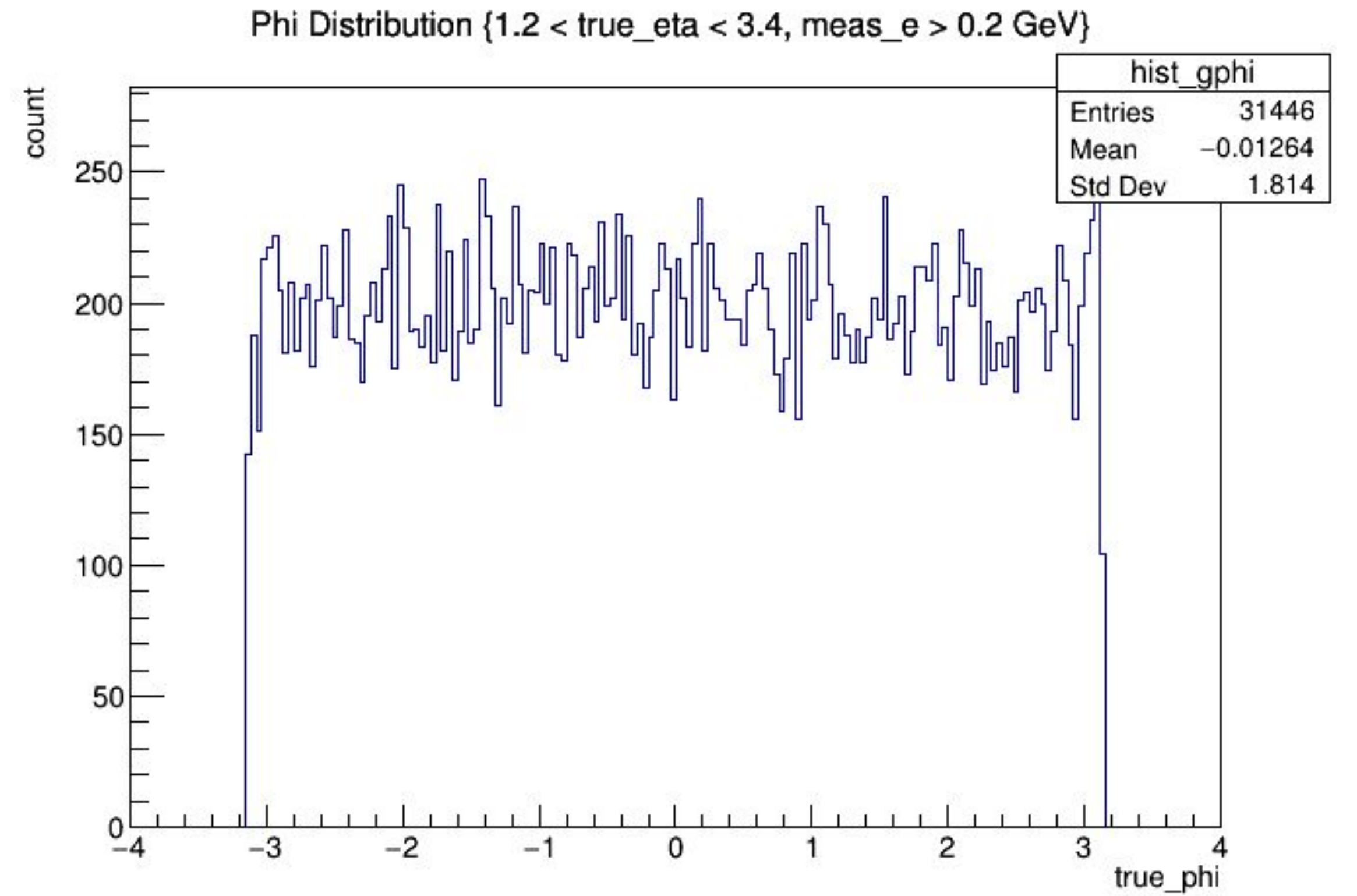
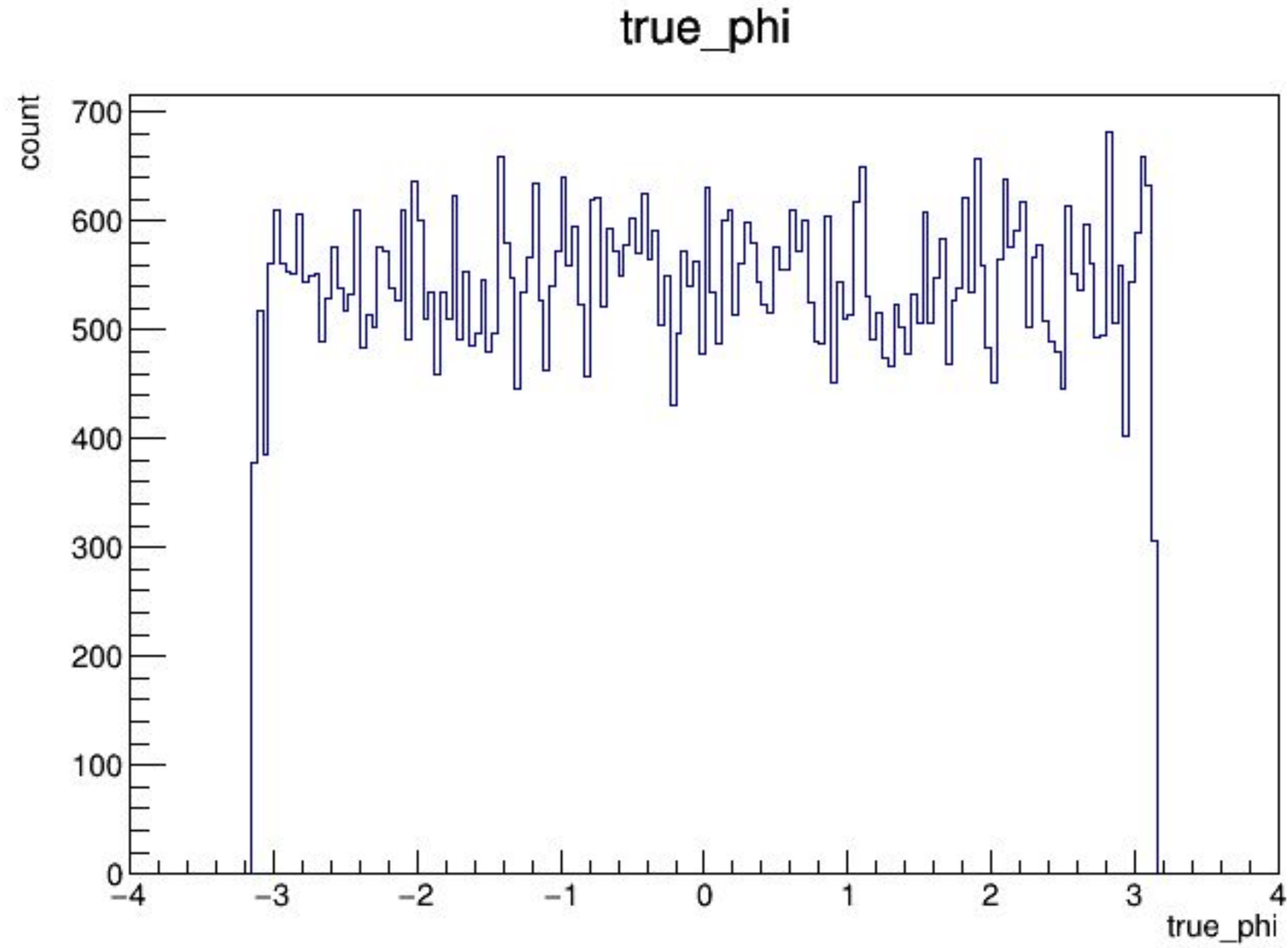
Phi distribution



Electron

FEMC

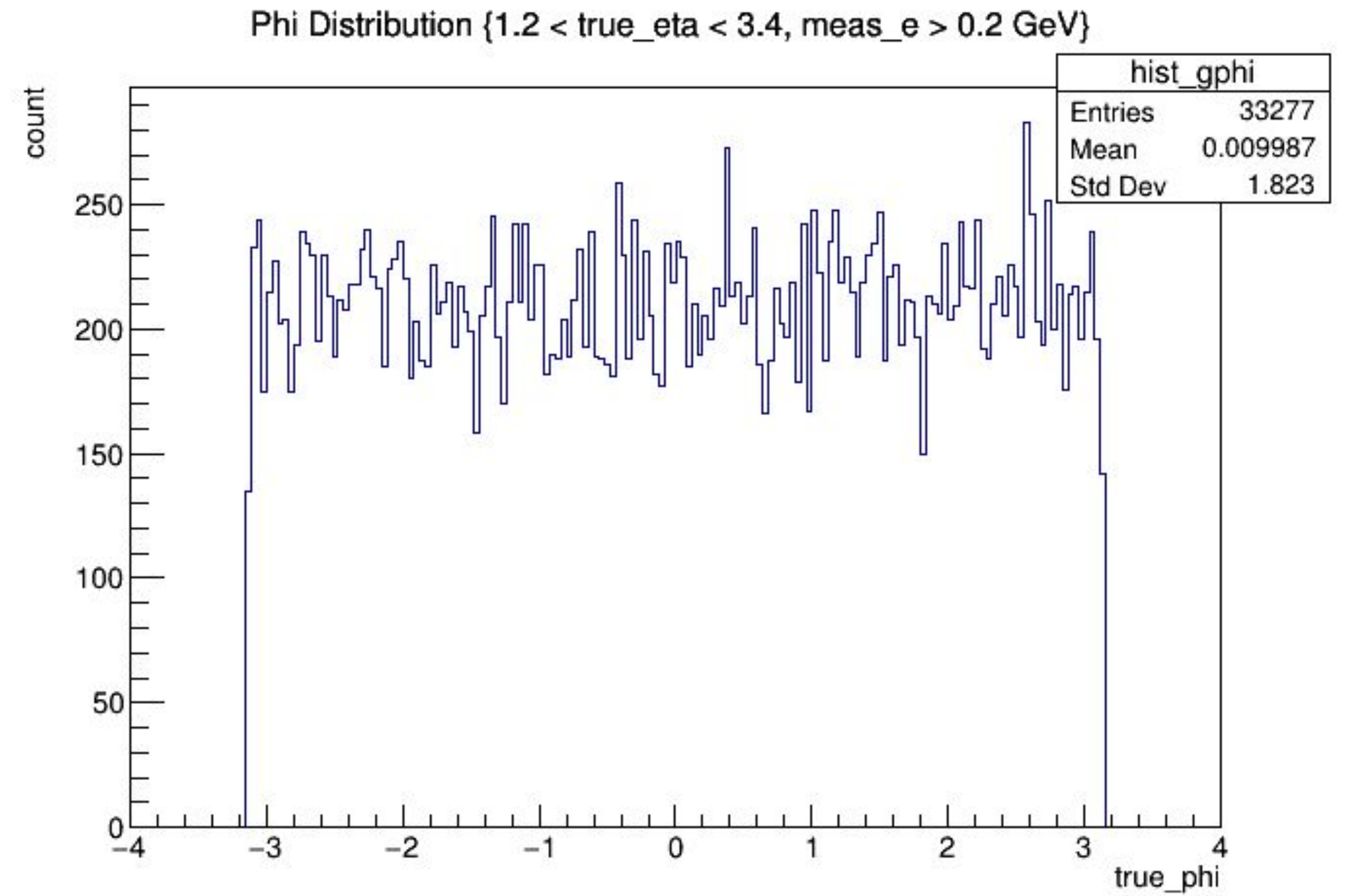
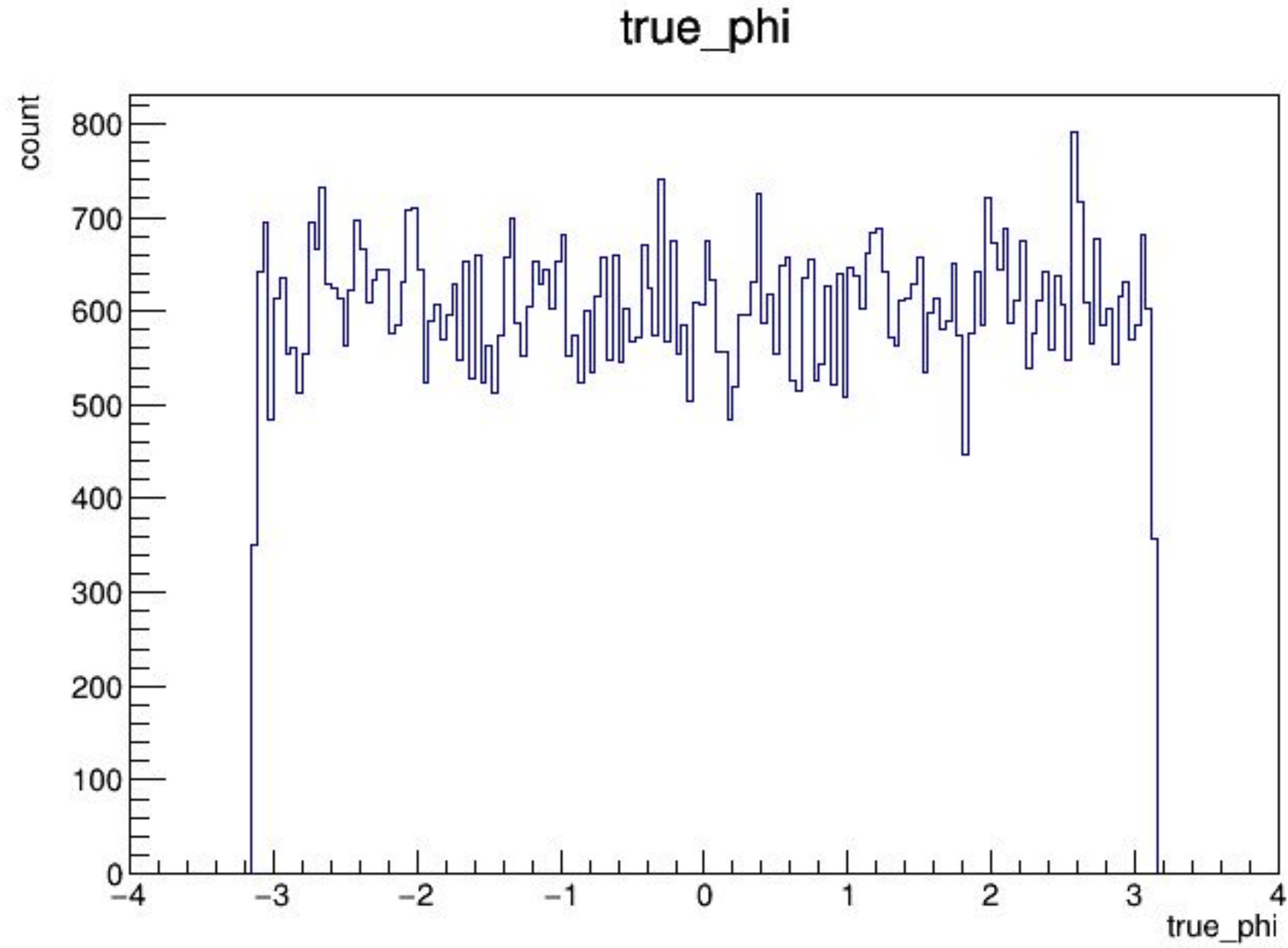
Phi distribution



Pion

FEMC

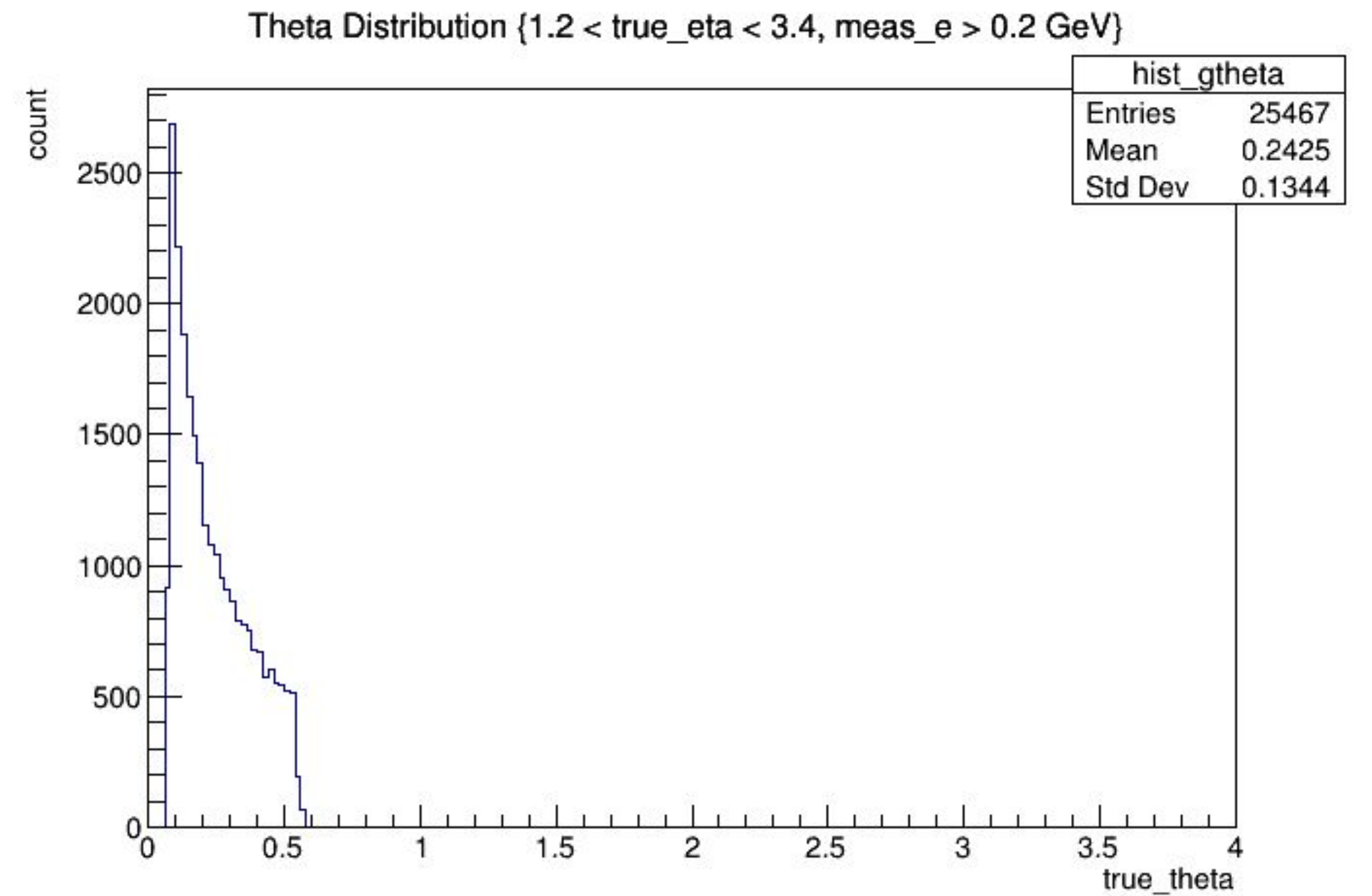
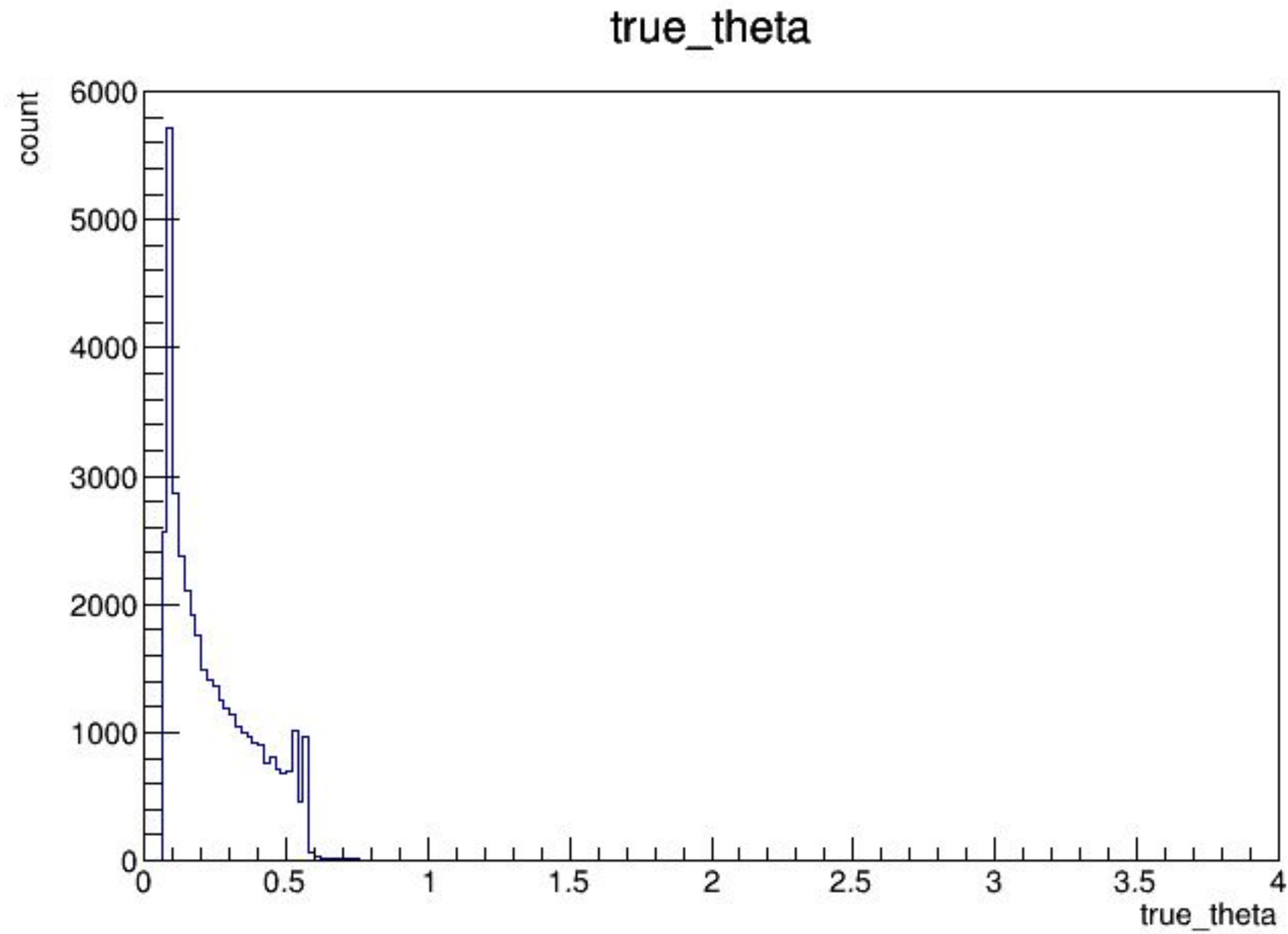
Phi distribution



Kaon

FEMC

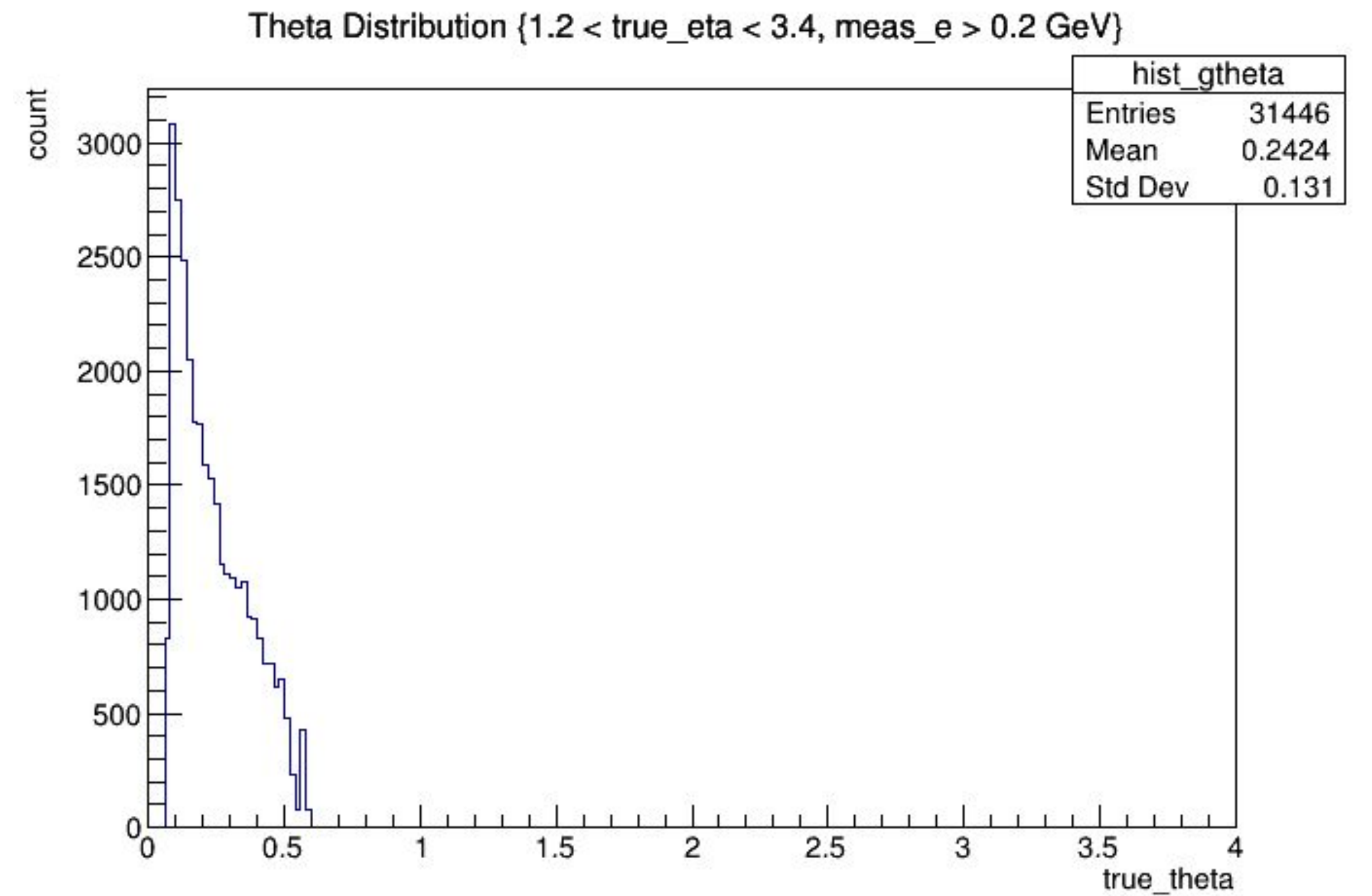
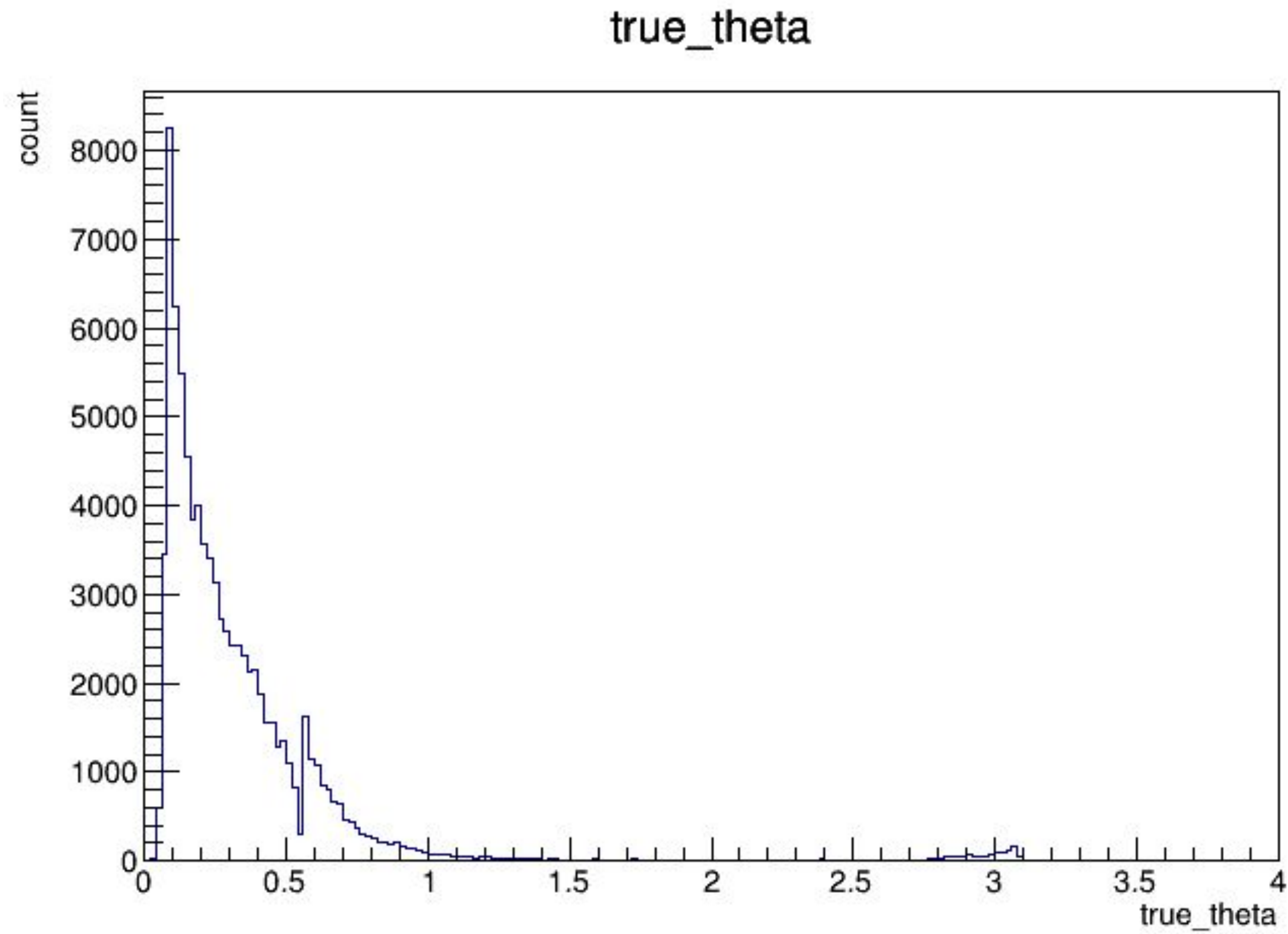
Theta distribution



Electron

FEMC

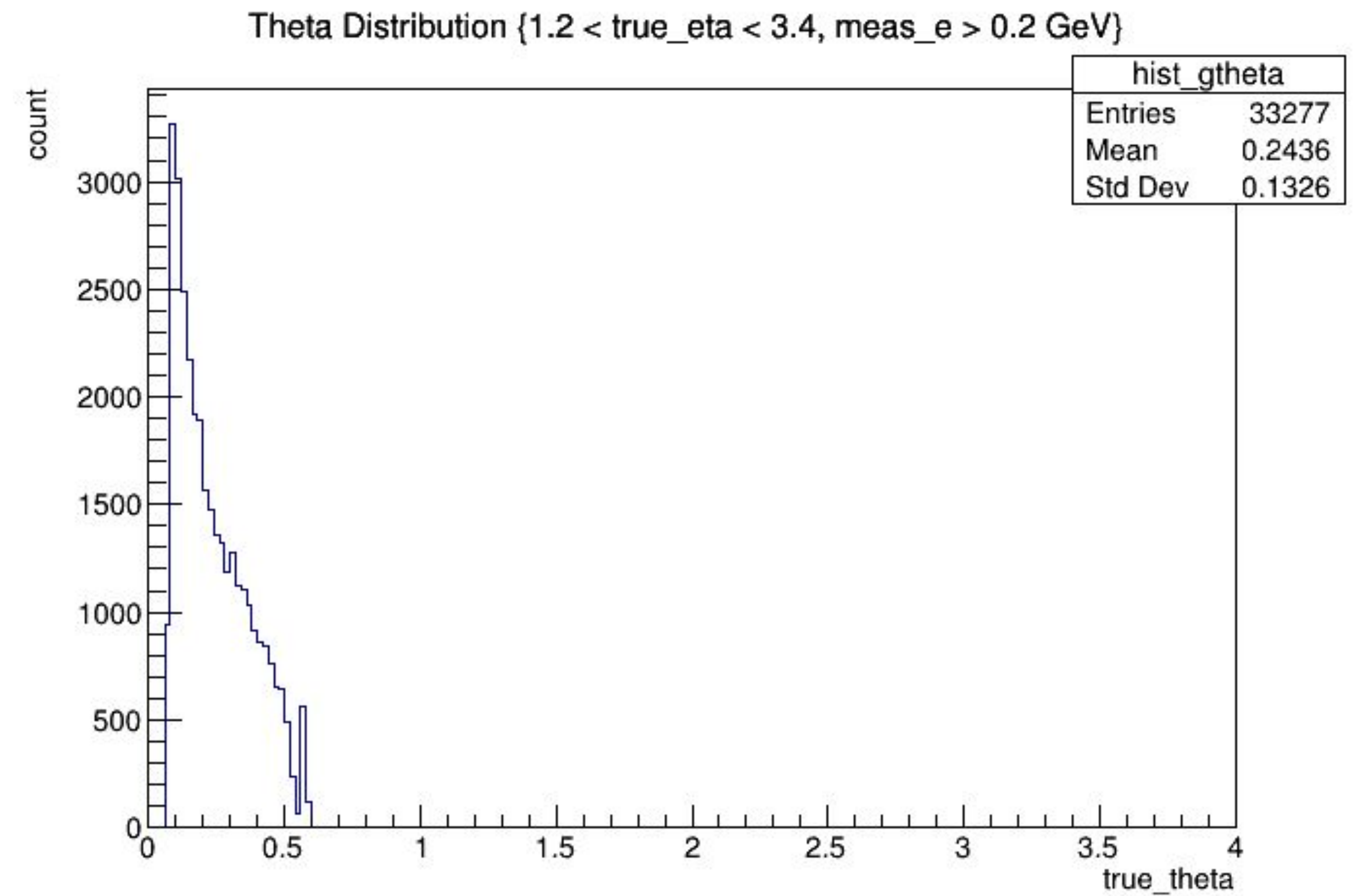
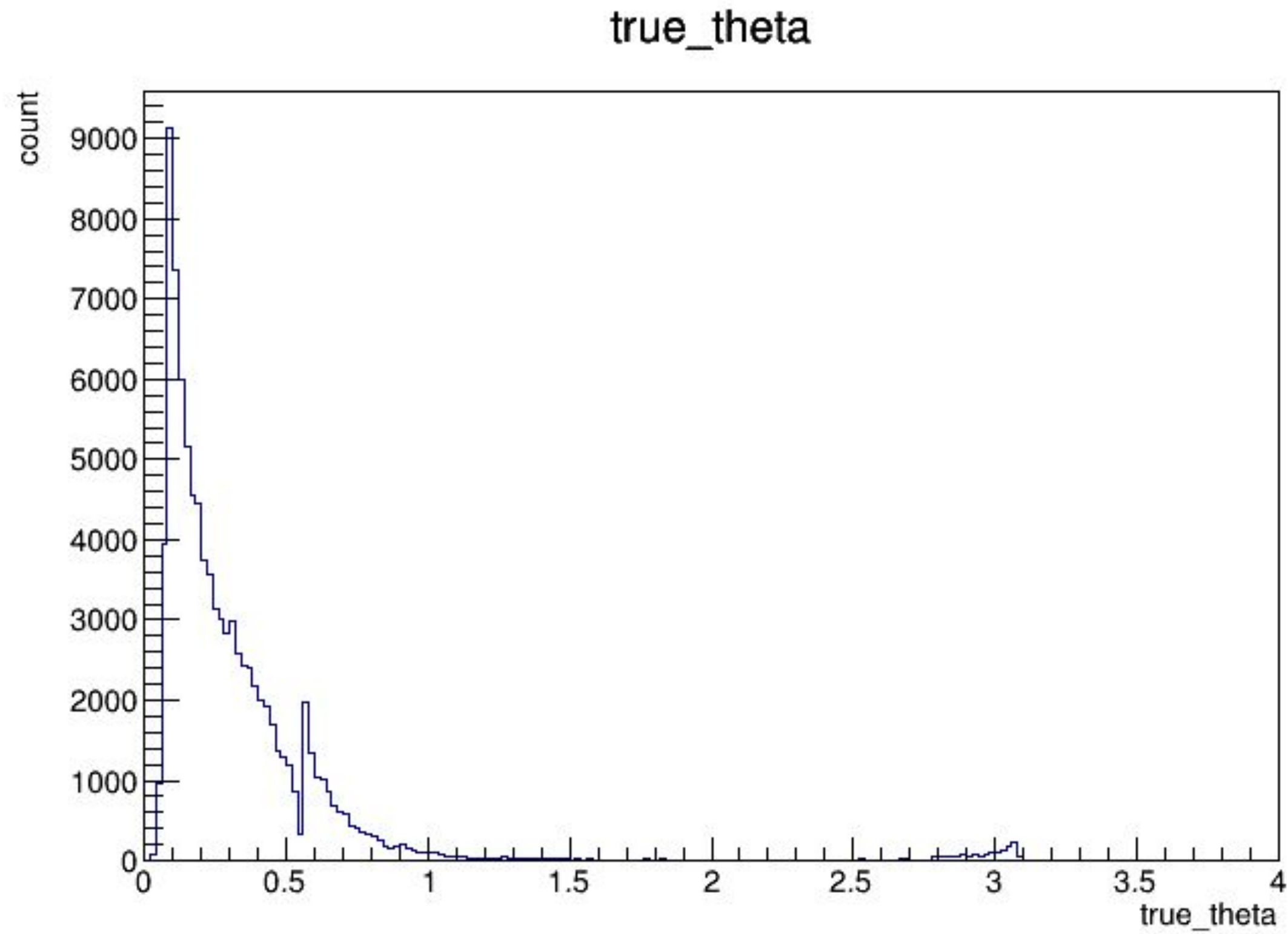
Theta distribution



Pion

FEMC

Theta distribution

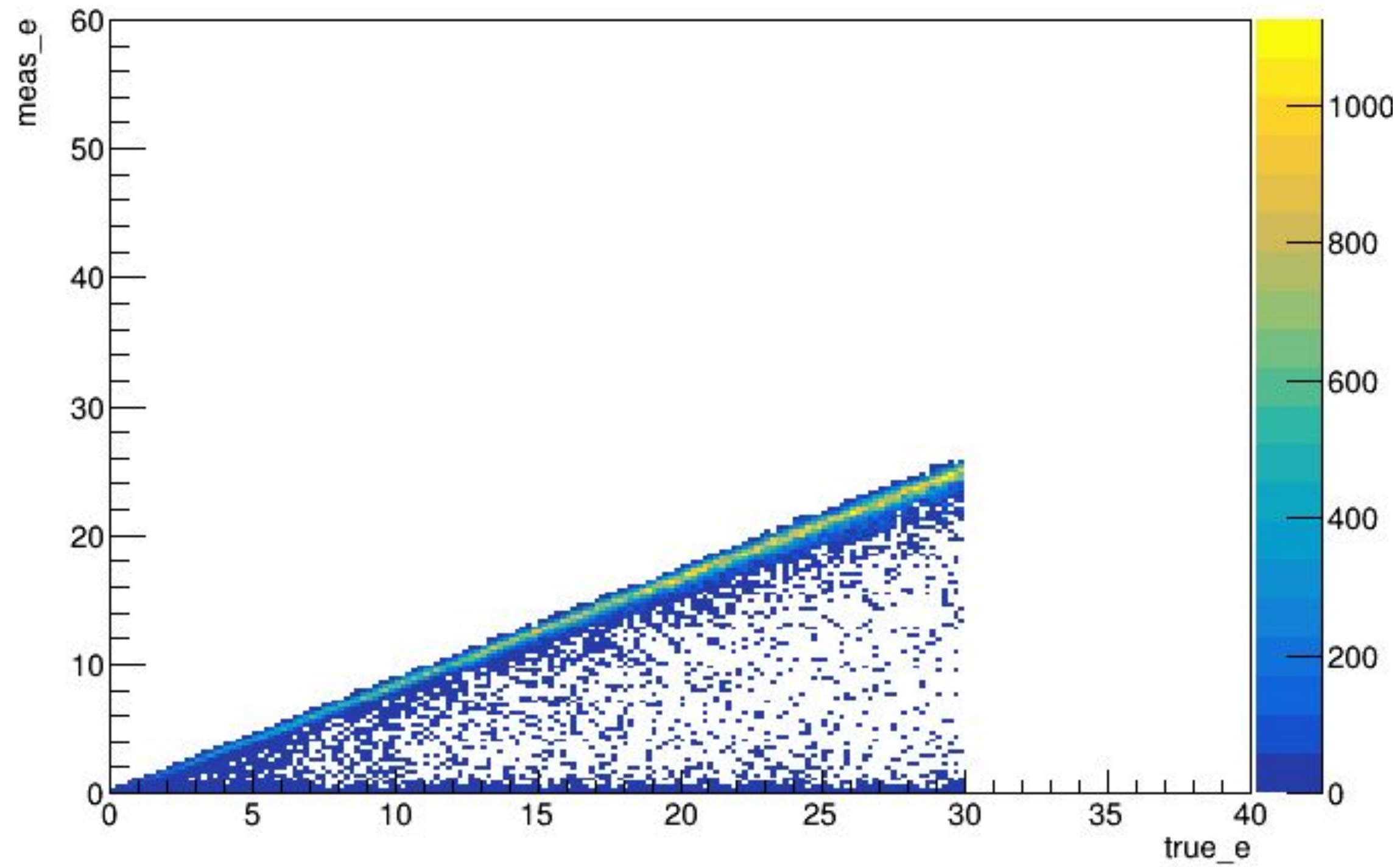


Kaon

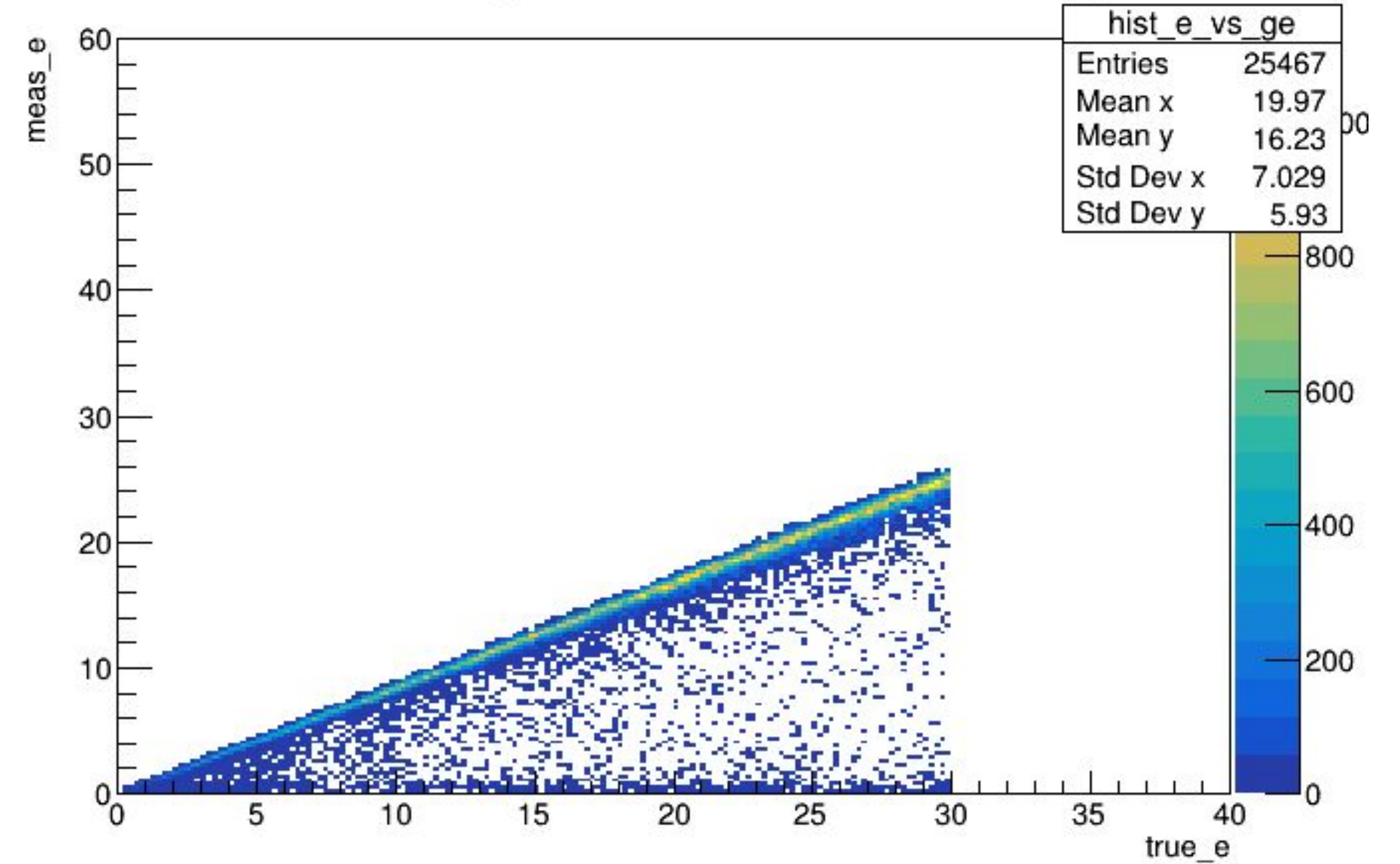
FEMC

e vs ge

meas_e vs true_e



meas_e vs true_e {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

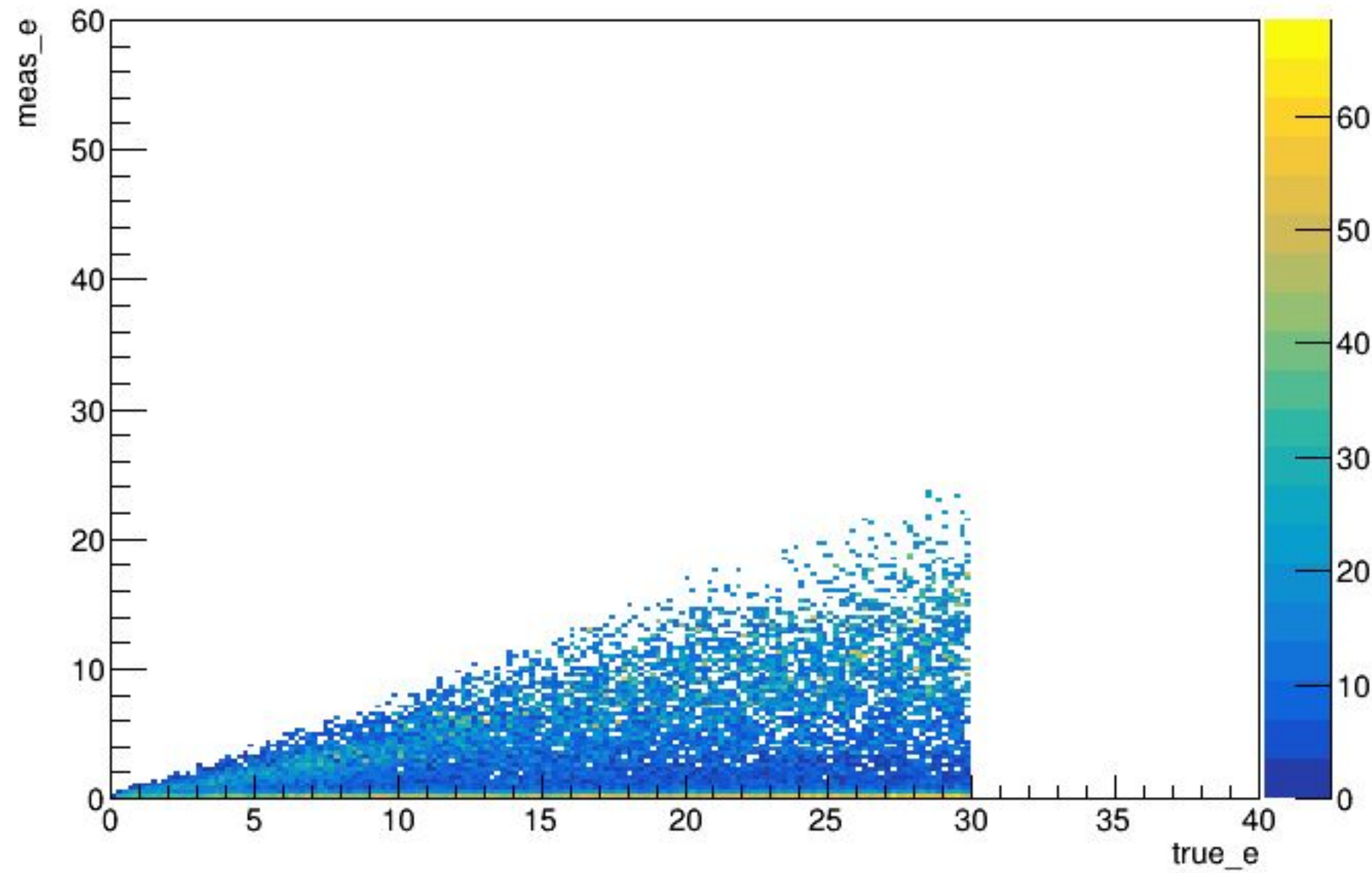


Electron

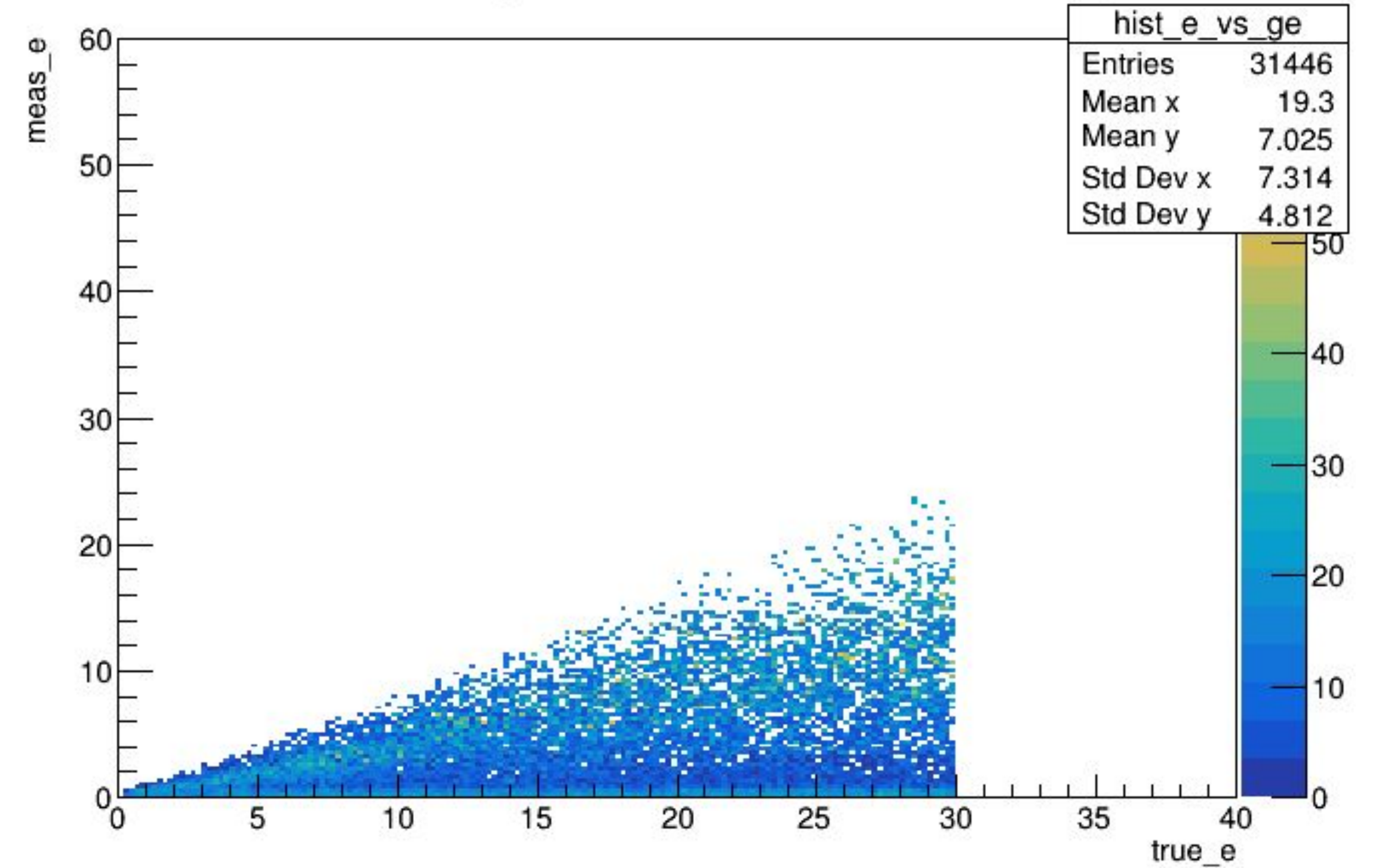
FEMC

e vs ge

meas_e vs true_e



meas_e vs true_e {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

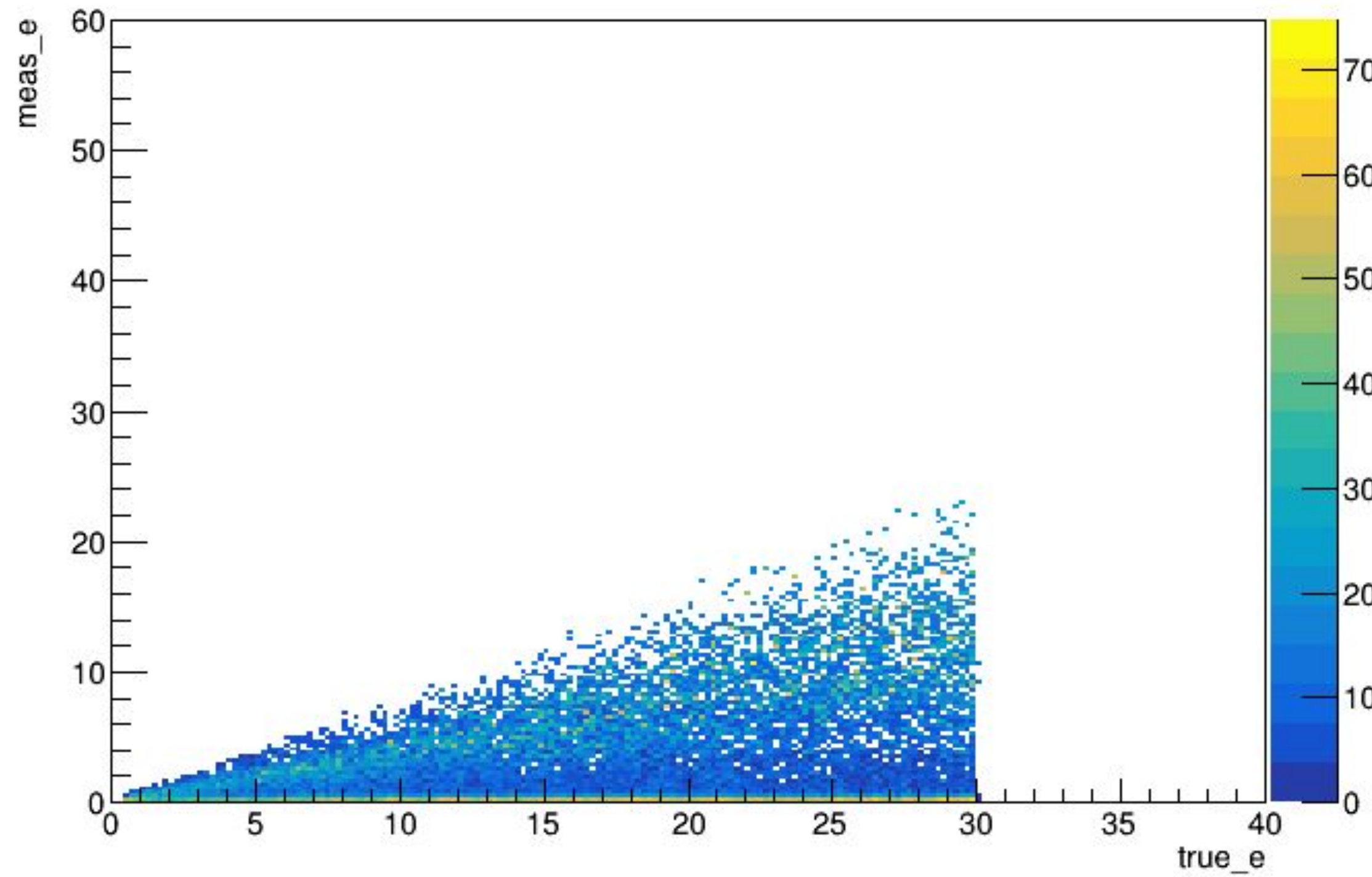


Pion

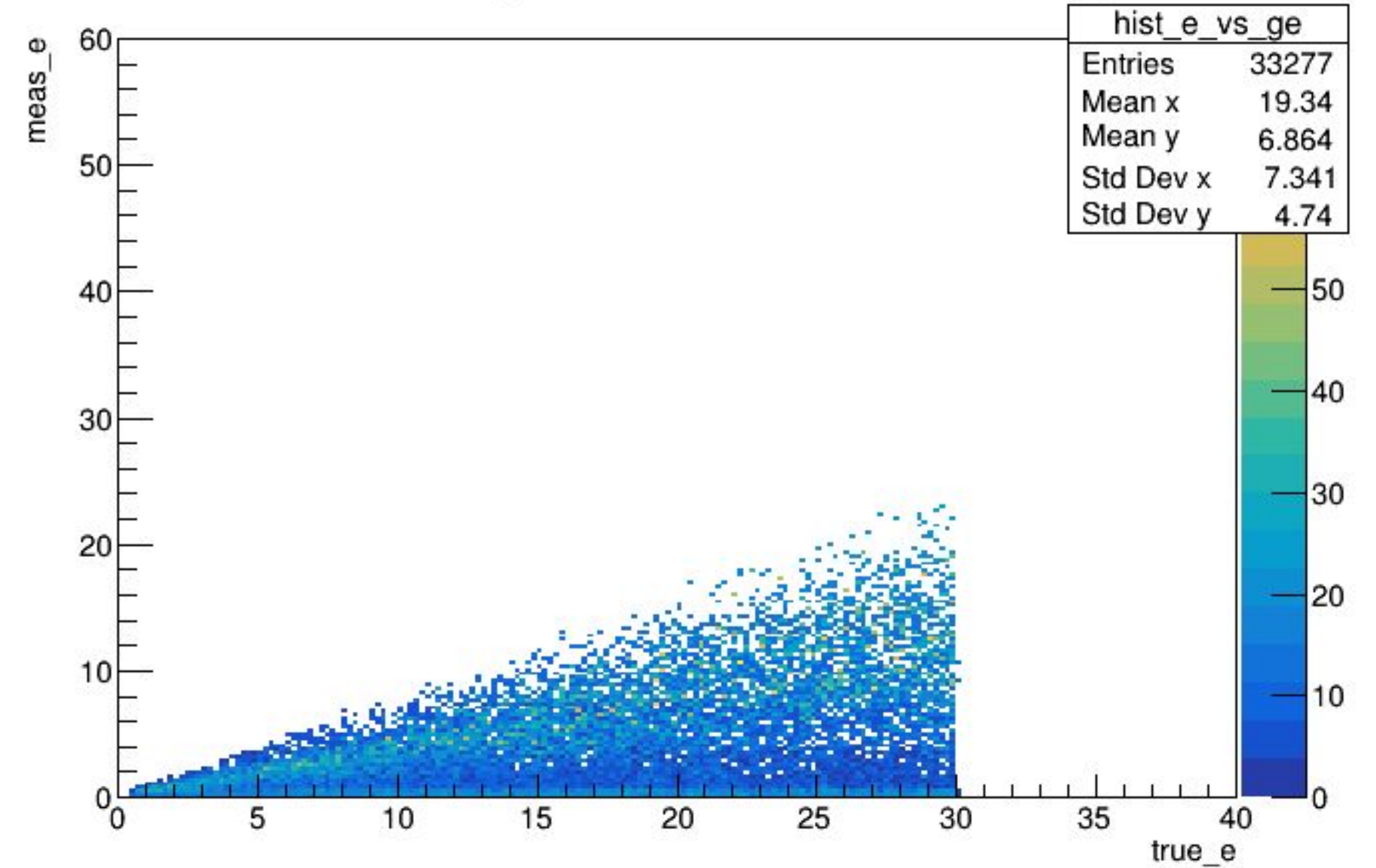
FEMC

e vs ge

meas_e vs true_e



meas_e vs true_e {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

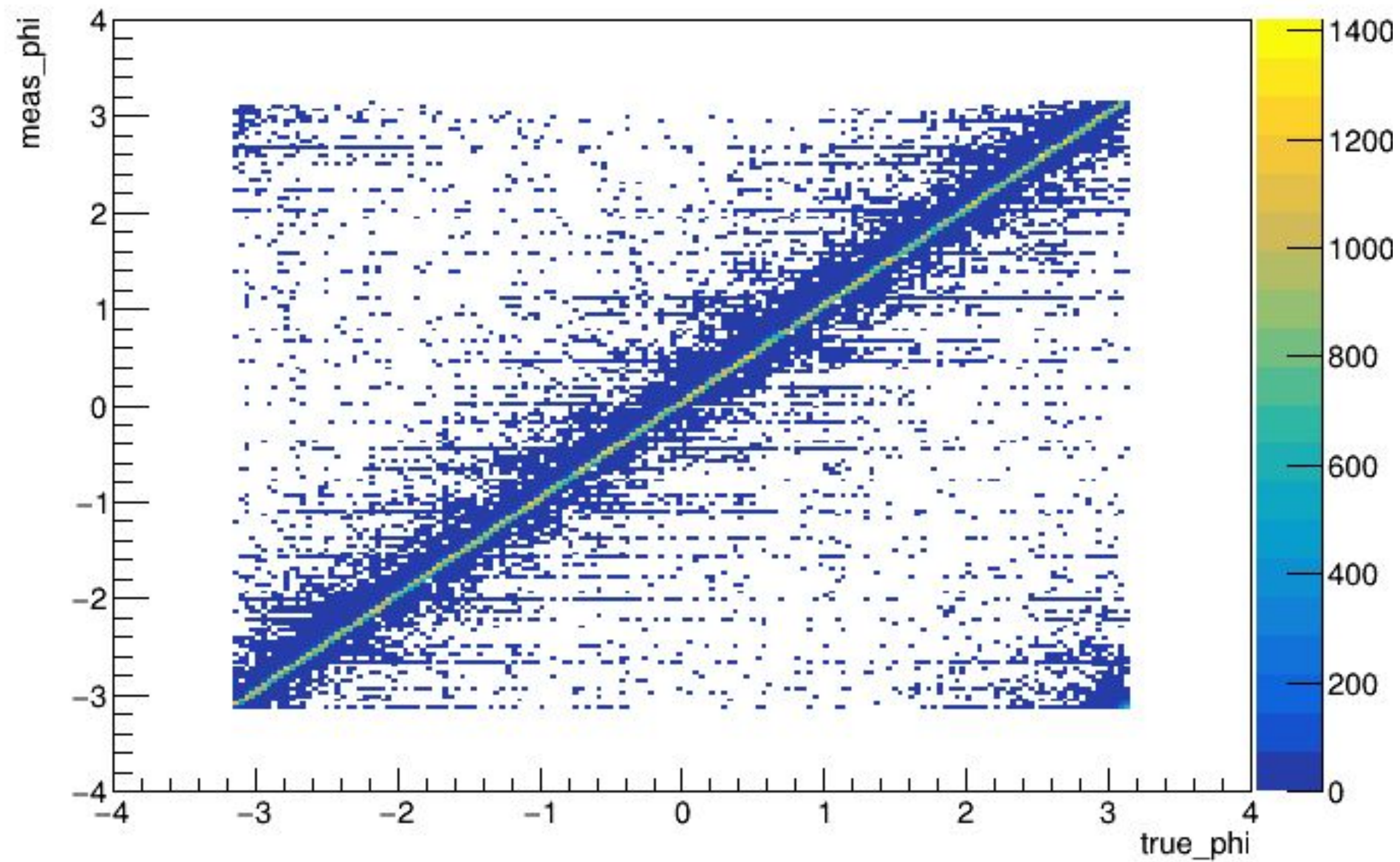


Kaon

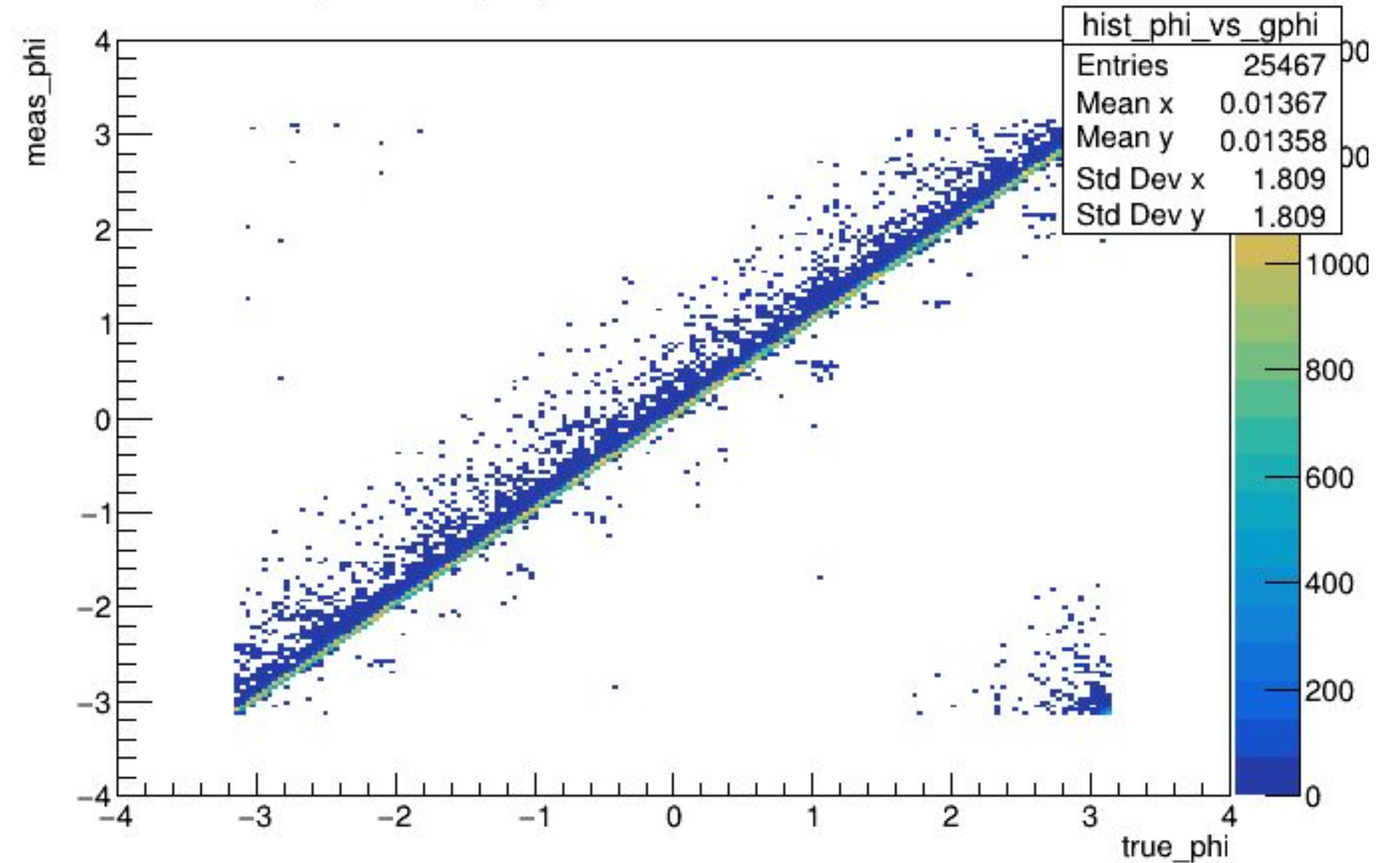
FEMC

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

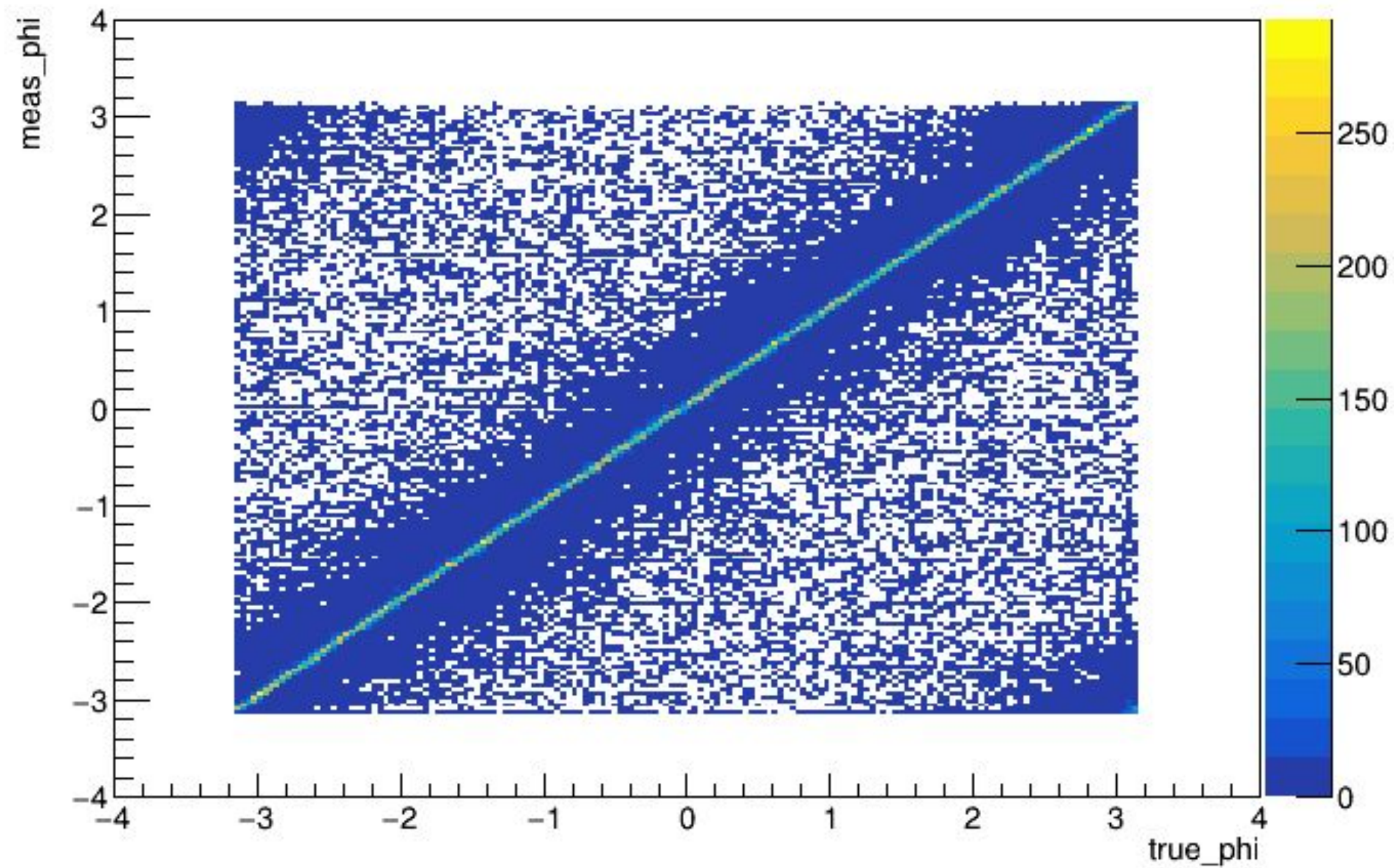


Electron

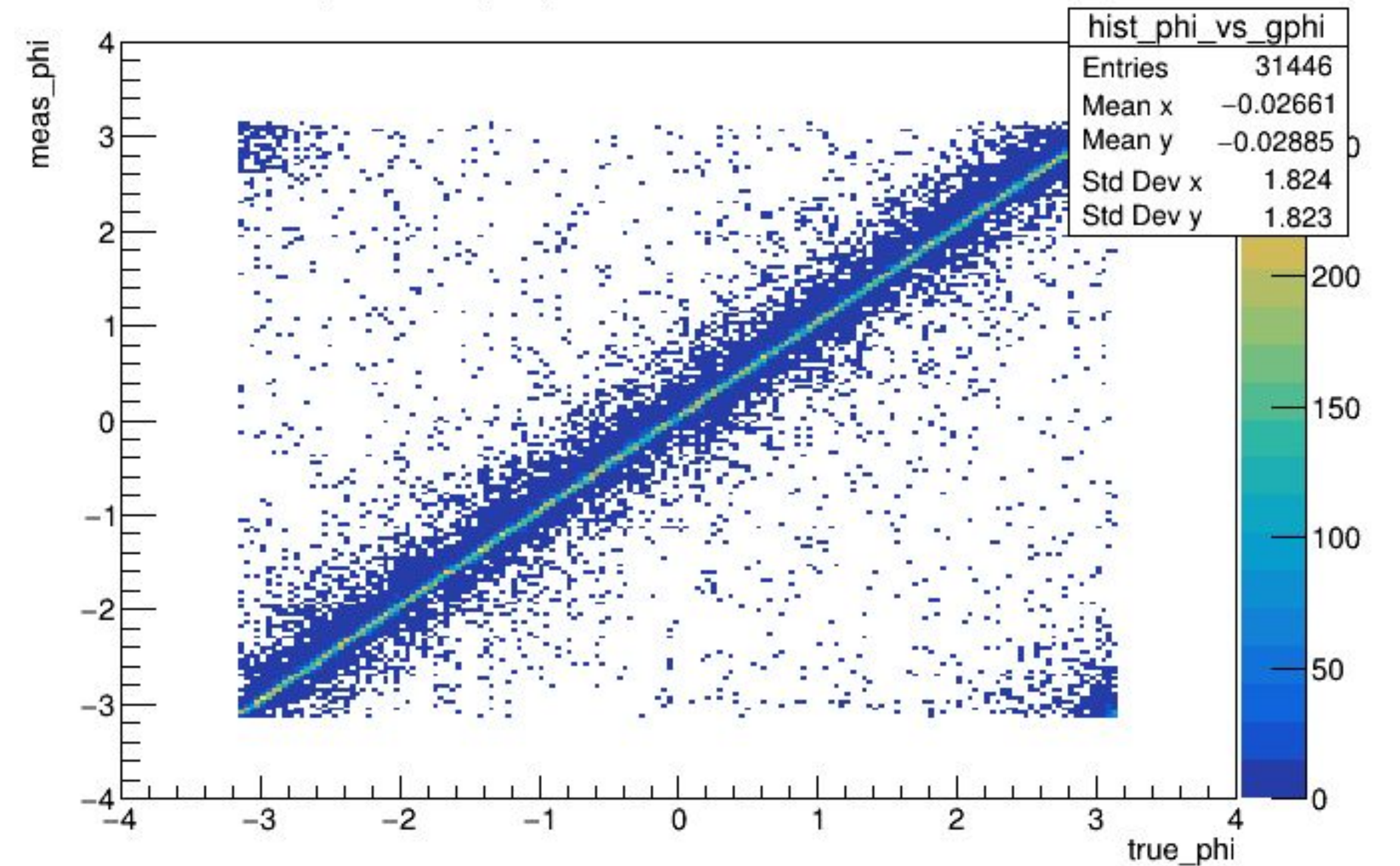
FEMC

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

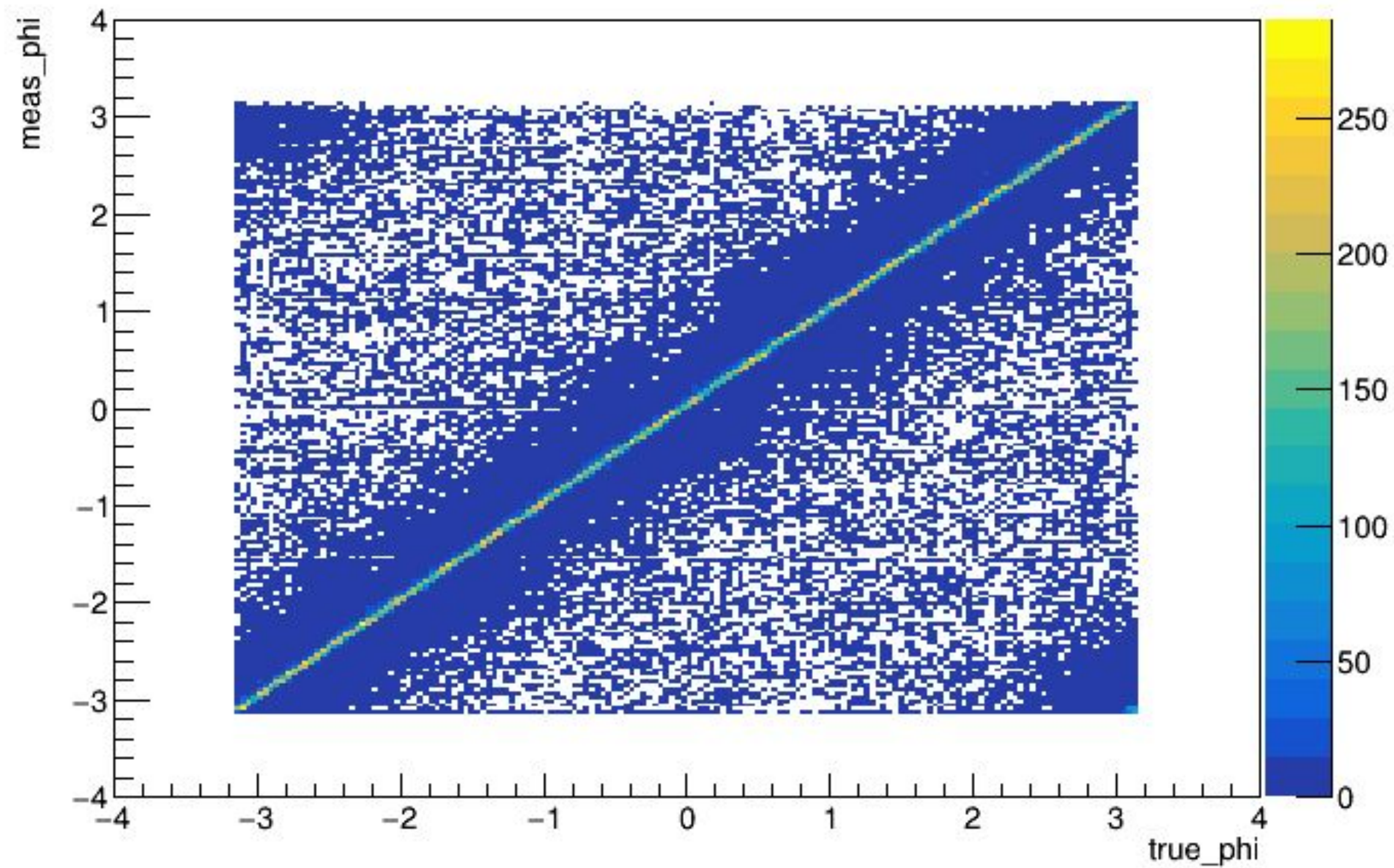


Pion

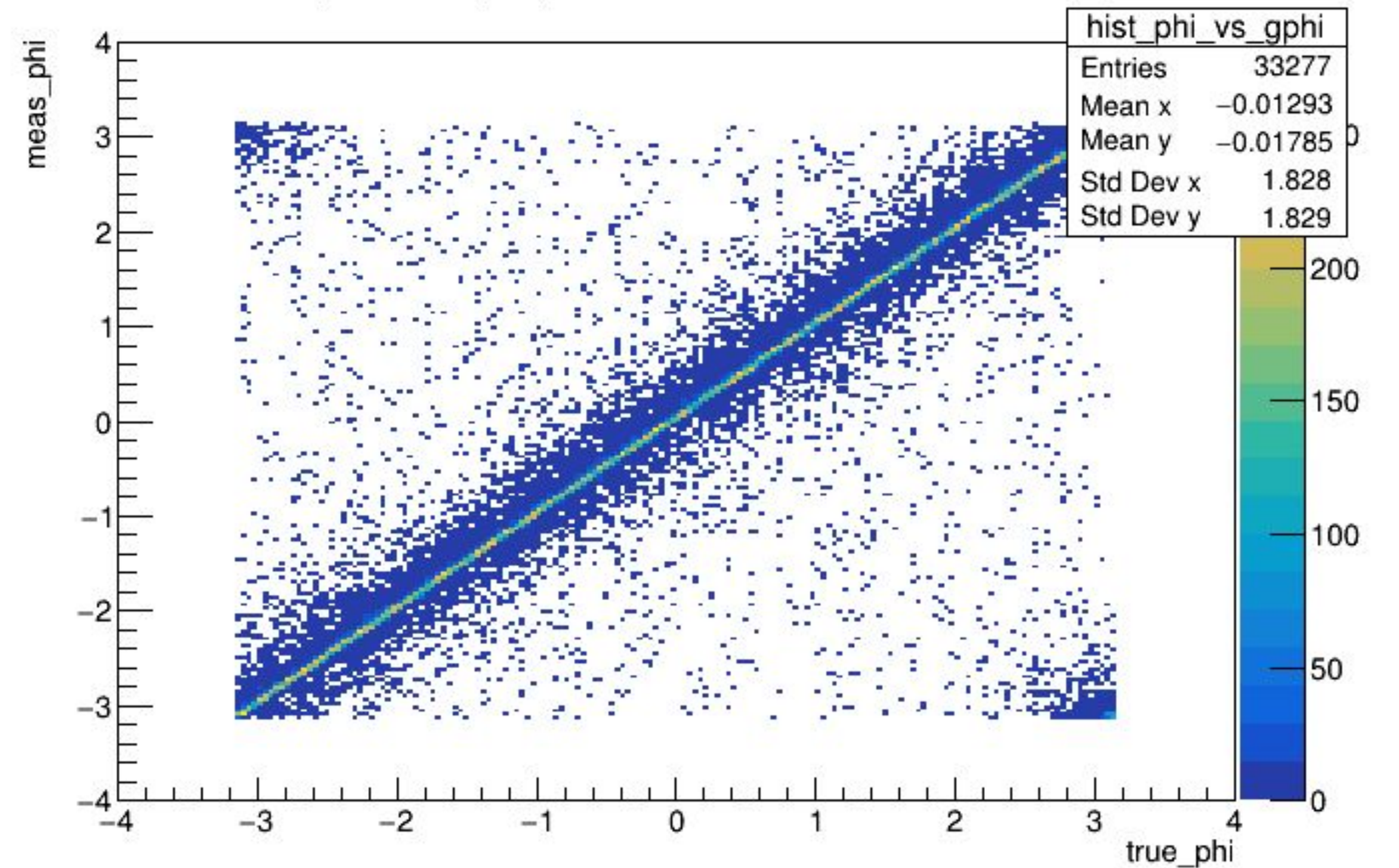
FEMC

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

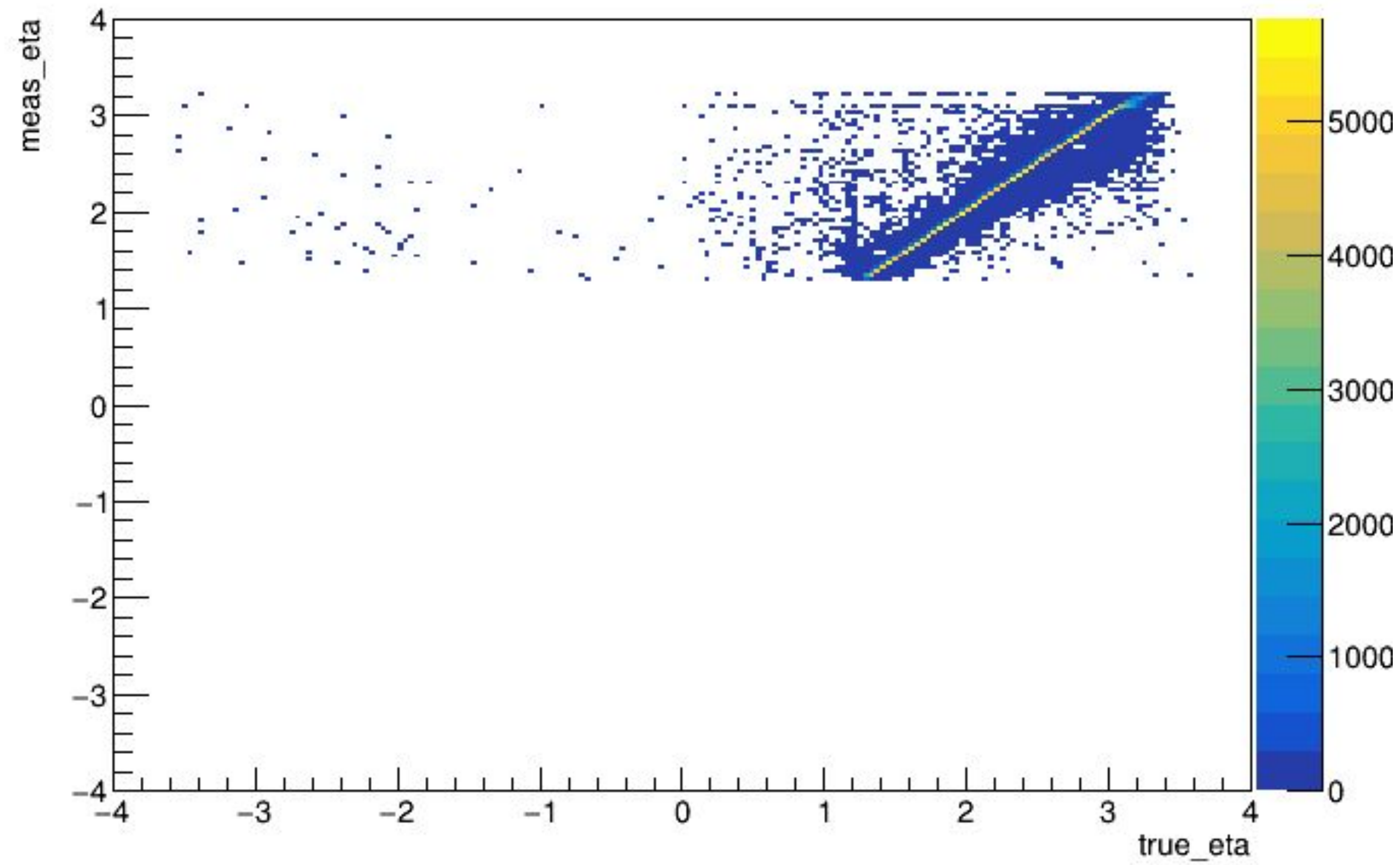


Kaon

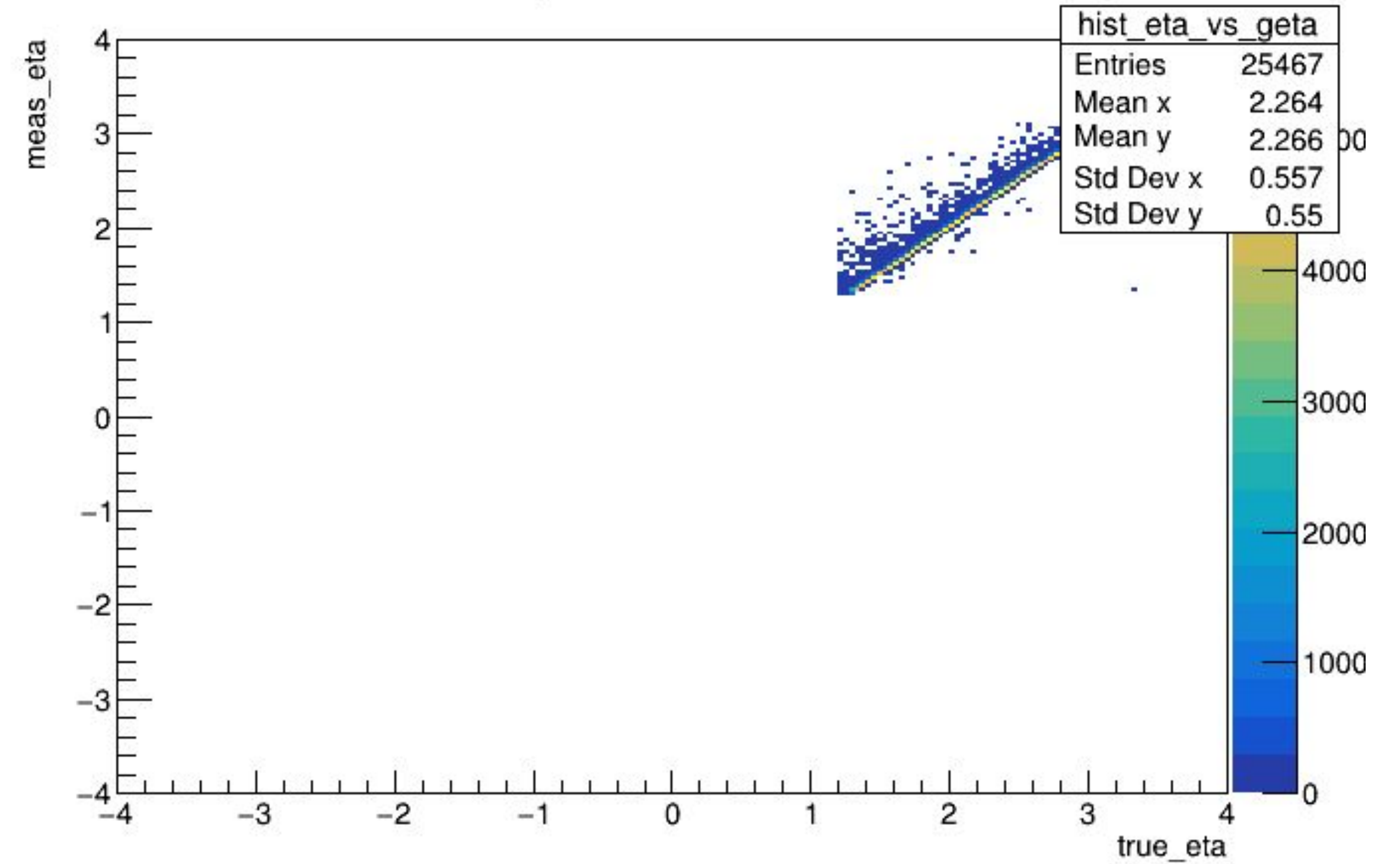
FEMC

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

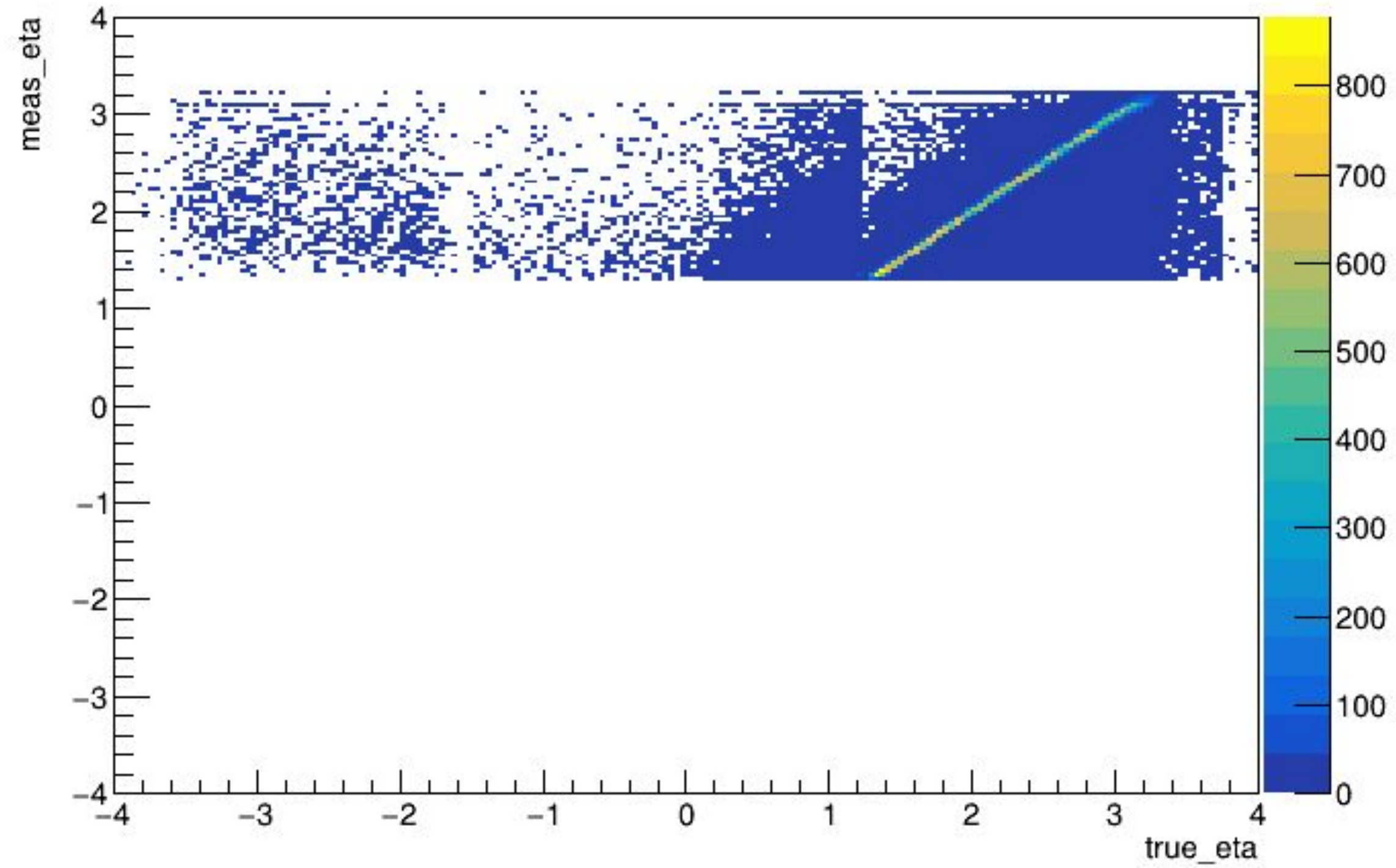


Electron

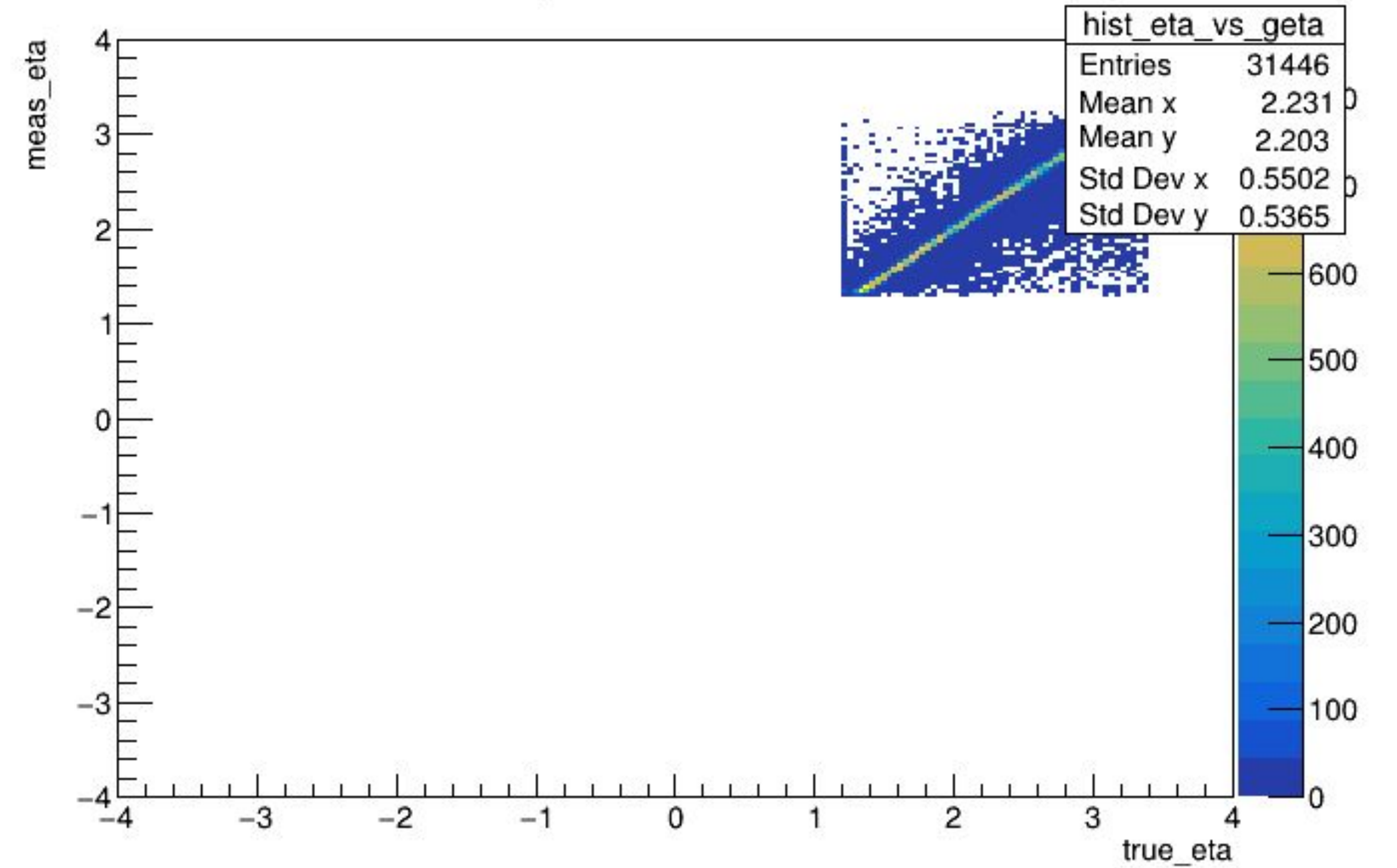
FEMC

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

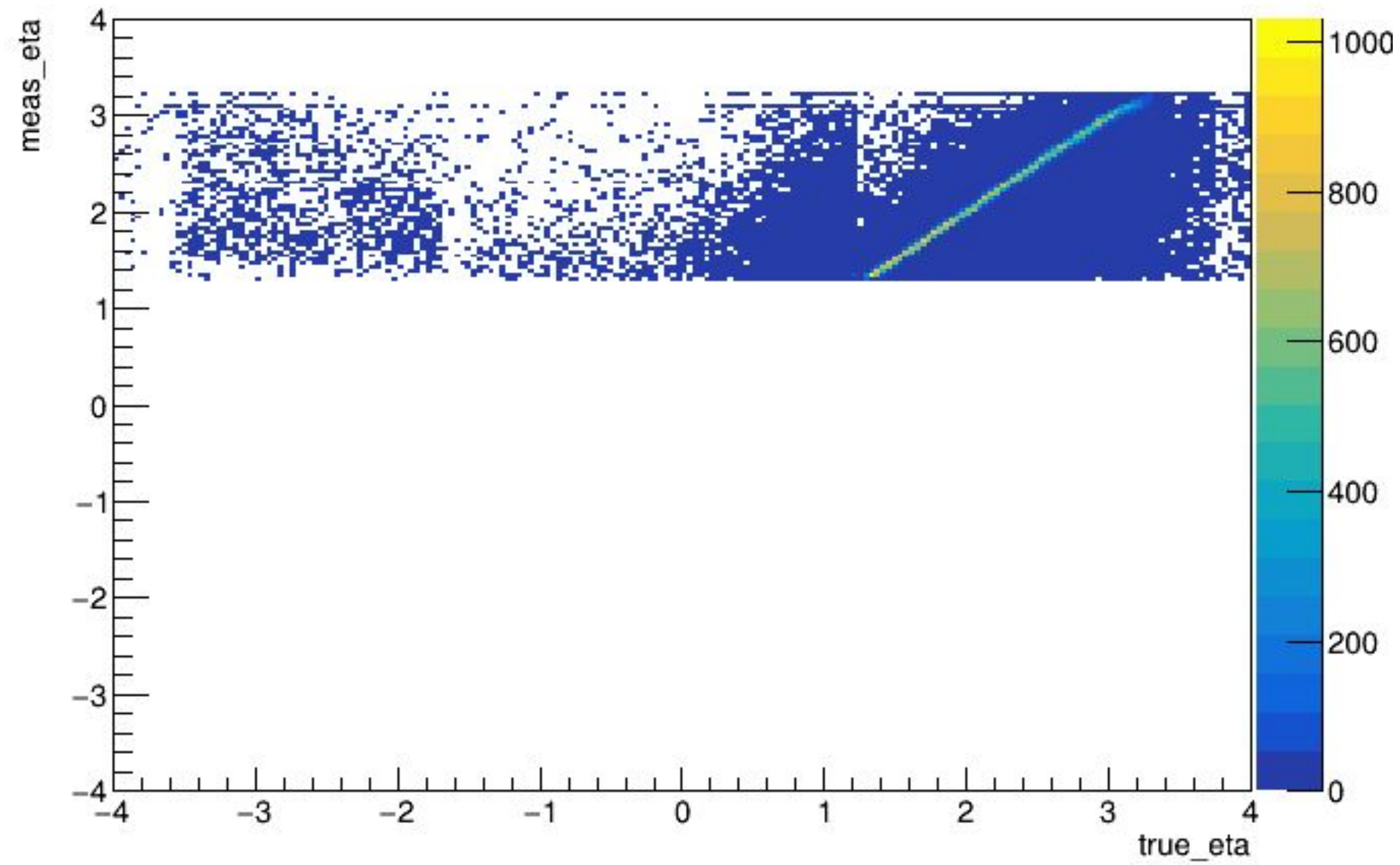


Pion

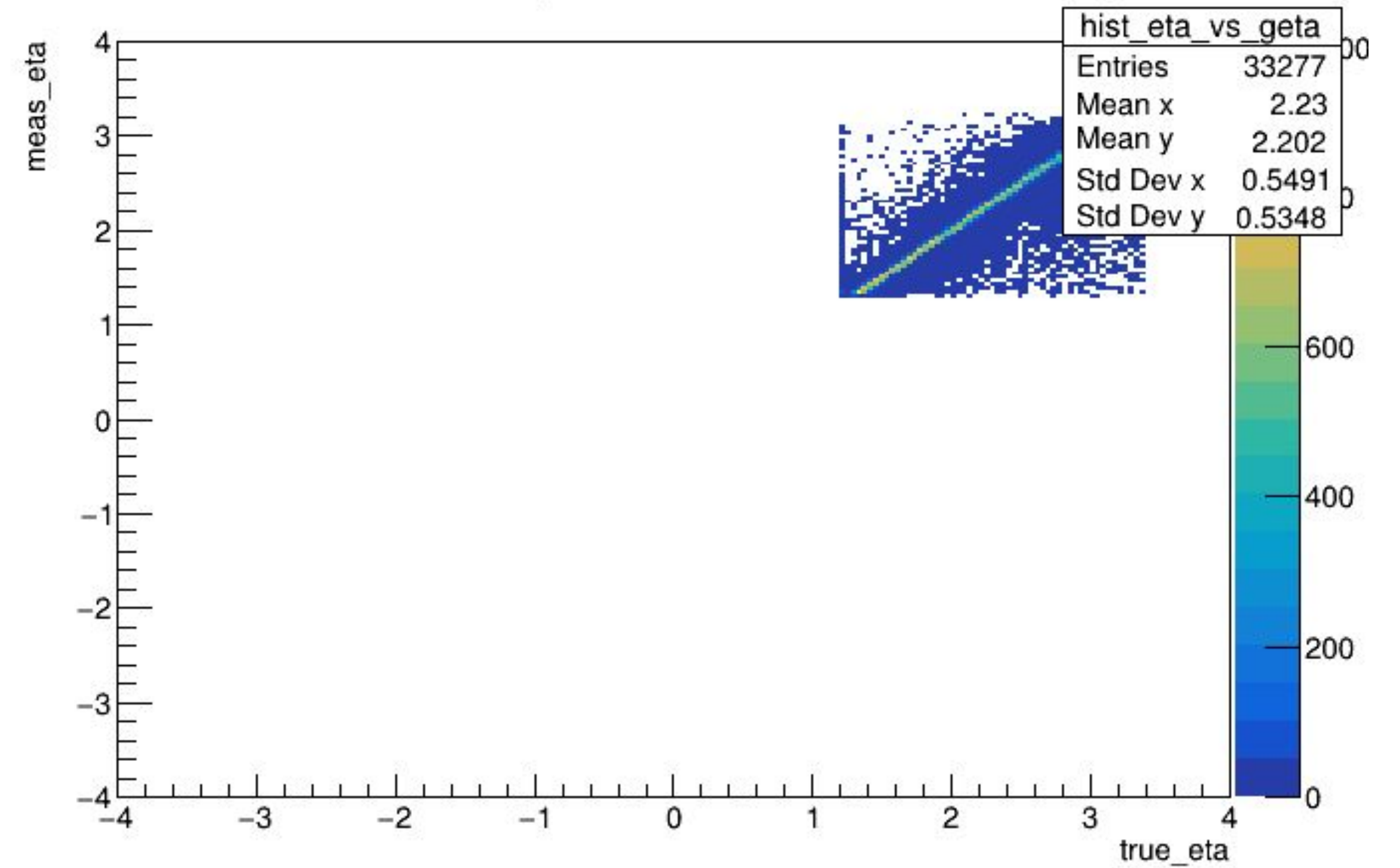
FEMC

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

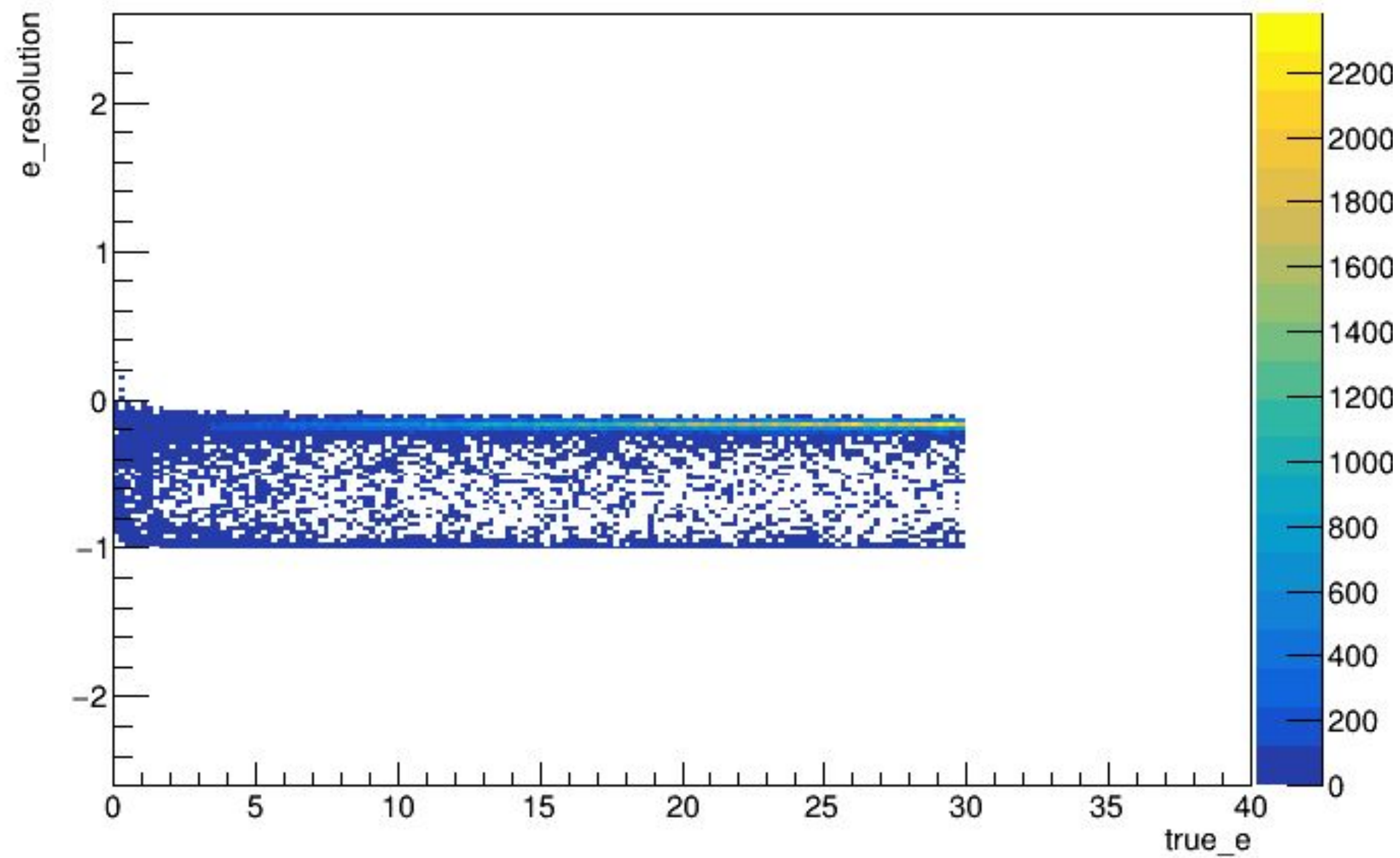


Kaon

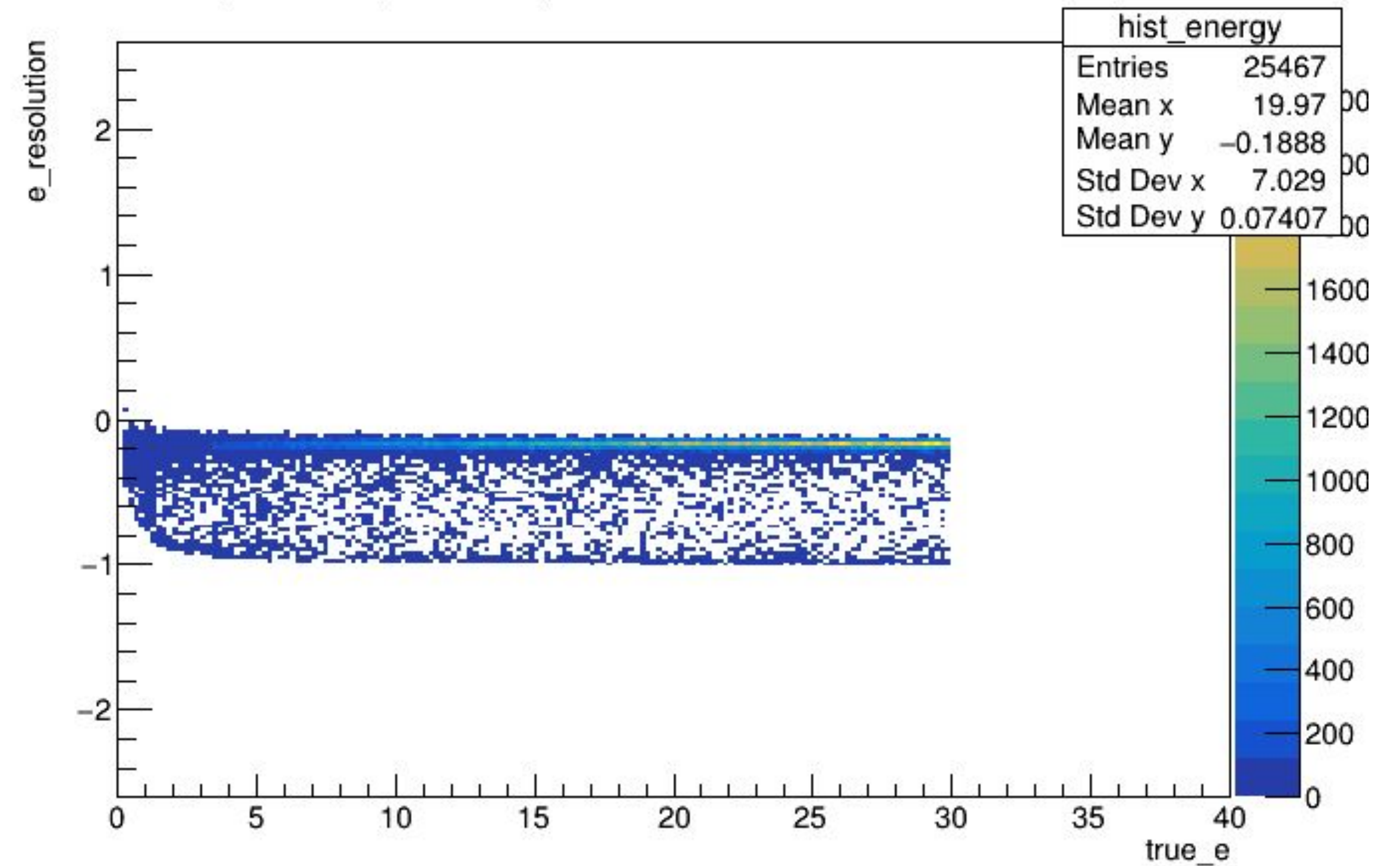
FEMC

$\Delta e/ge$ vs ge

($\Delta e/true_e$) vs $true_e$



($\Delta e/true_e$) vs $true_e$ { $1.2 < true_eta < 3.4$, $meas_e > 0.2$ GeV}

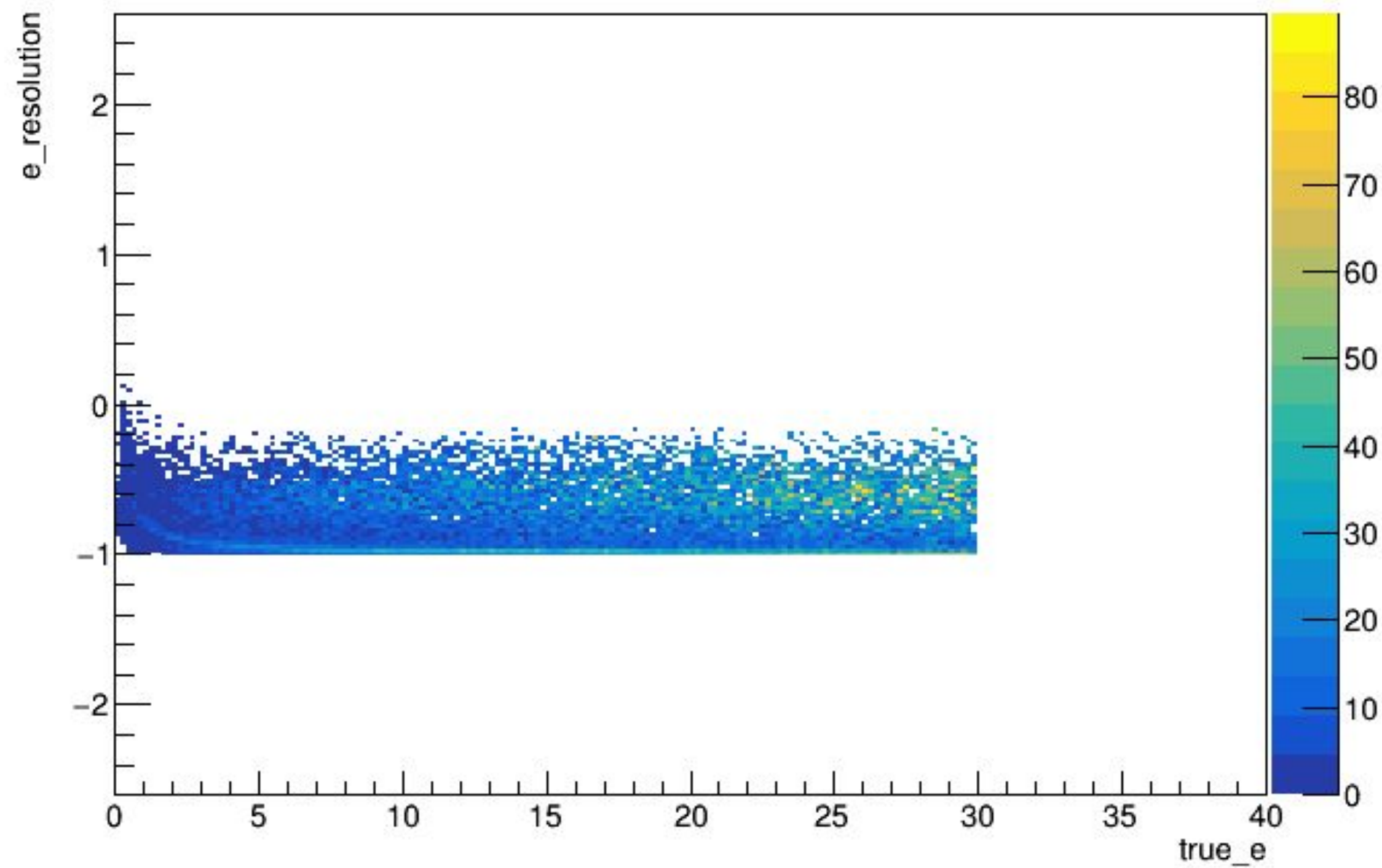


Electron

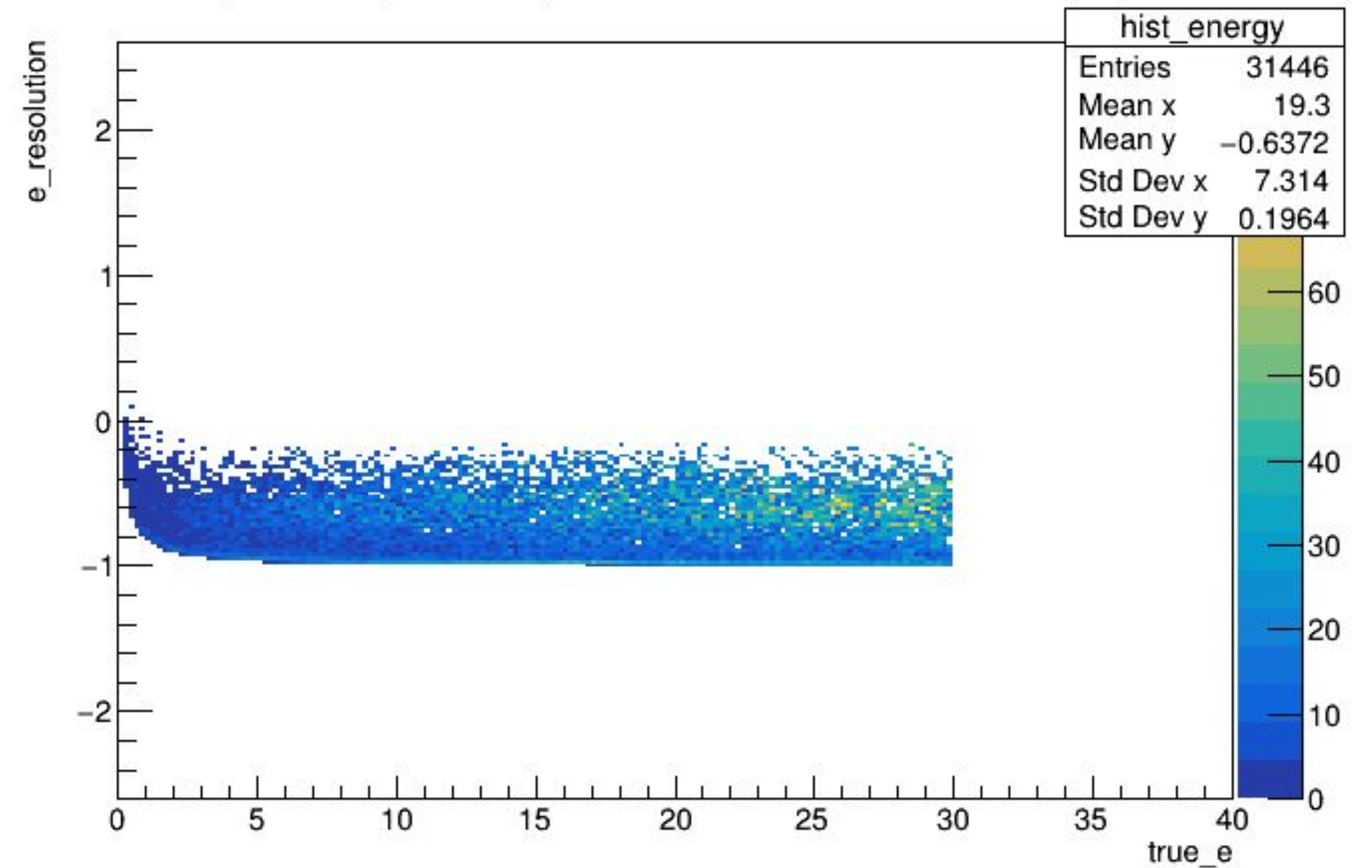
FEMC

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e $\{1.2 < \text{true}_\eta < 3.4, \text{meas}_e > 0.2 \text{ GeV}\}$

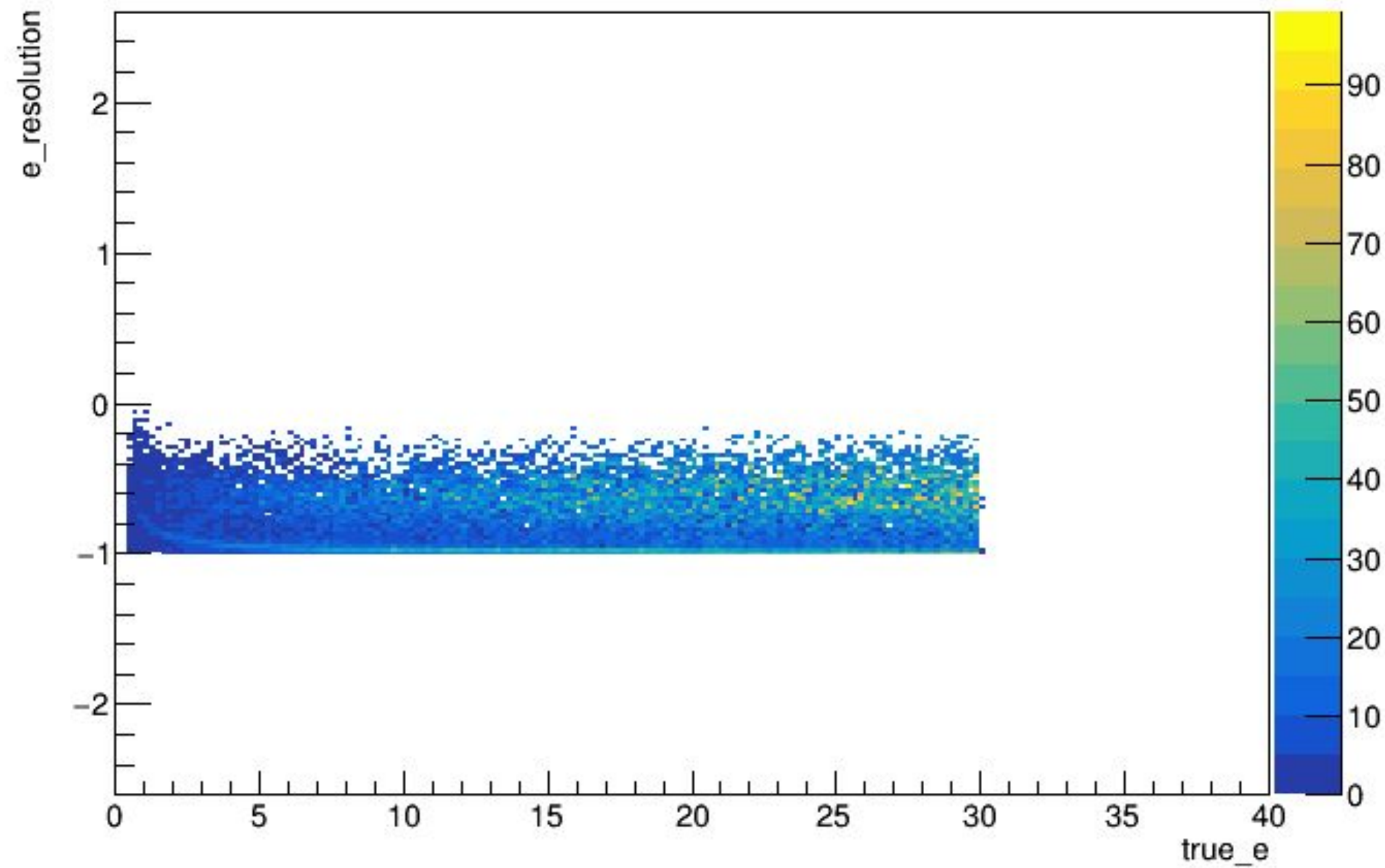


Pion

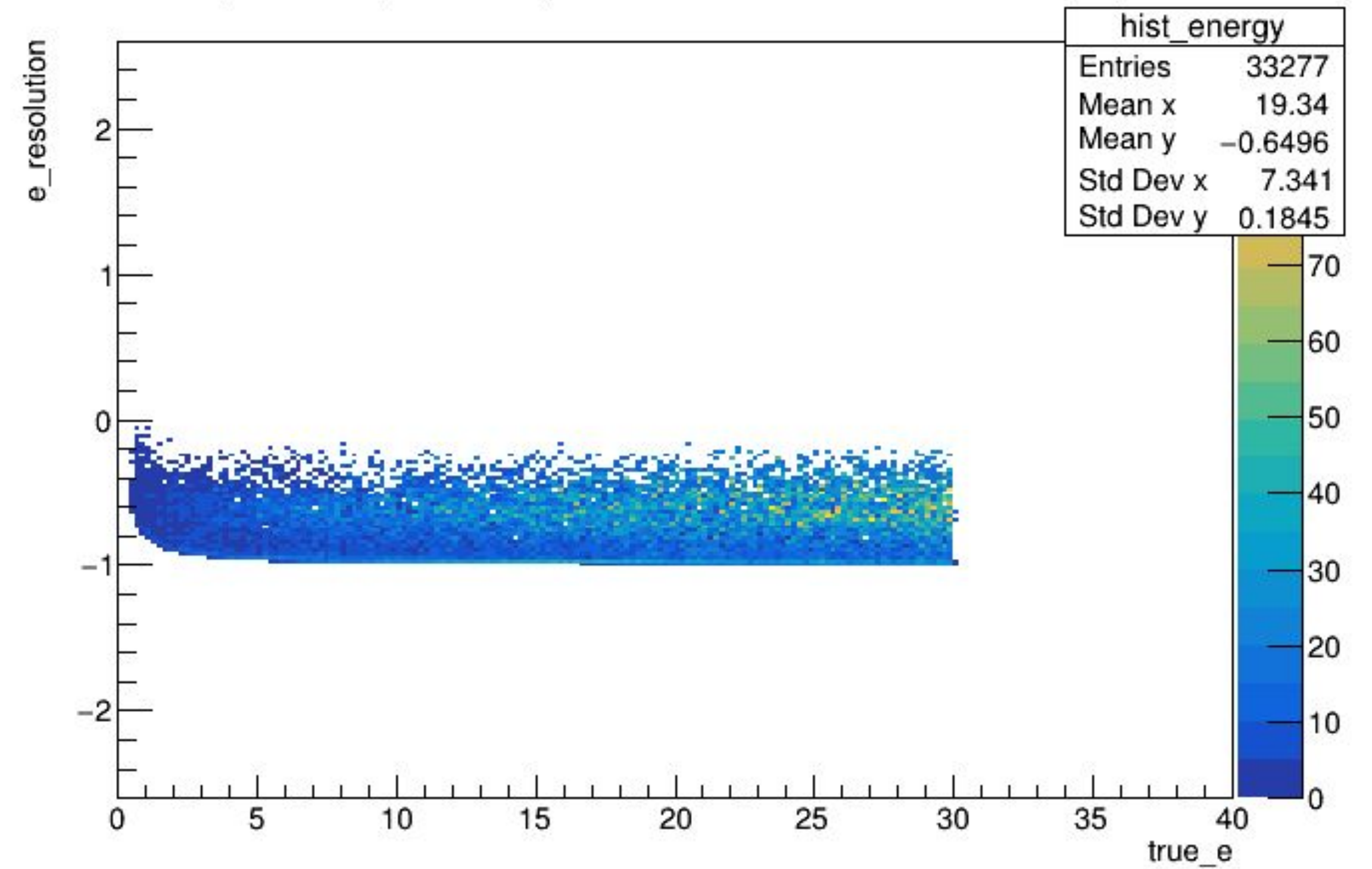
FEMC

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e { $1.2 < \text{true}_\eta < 3.4$, $\text{meas}_e > 0.2$ GeV}

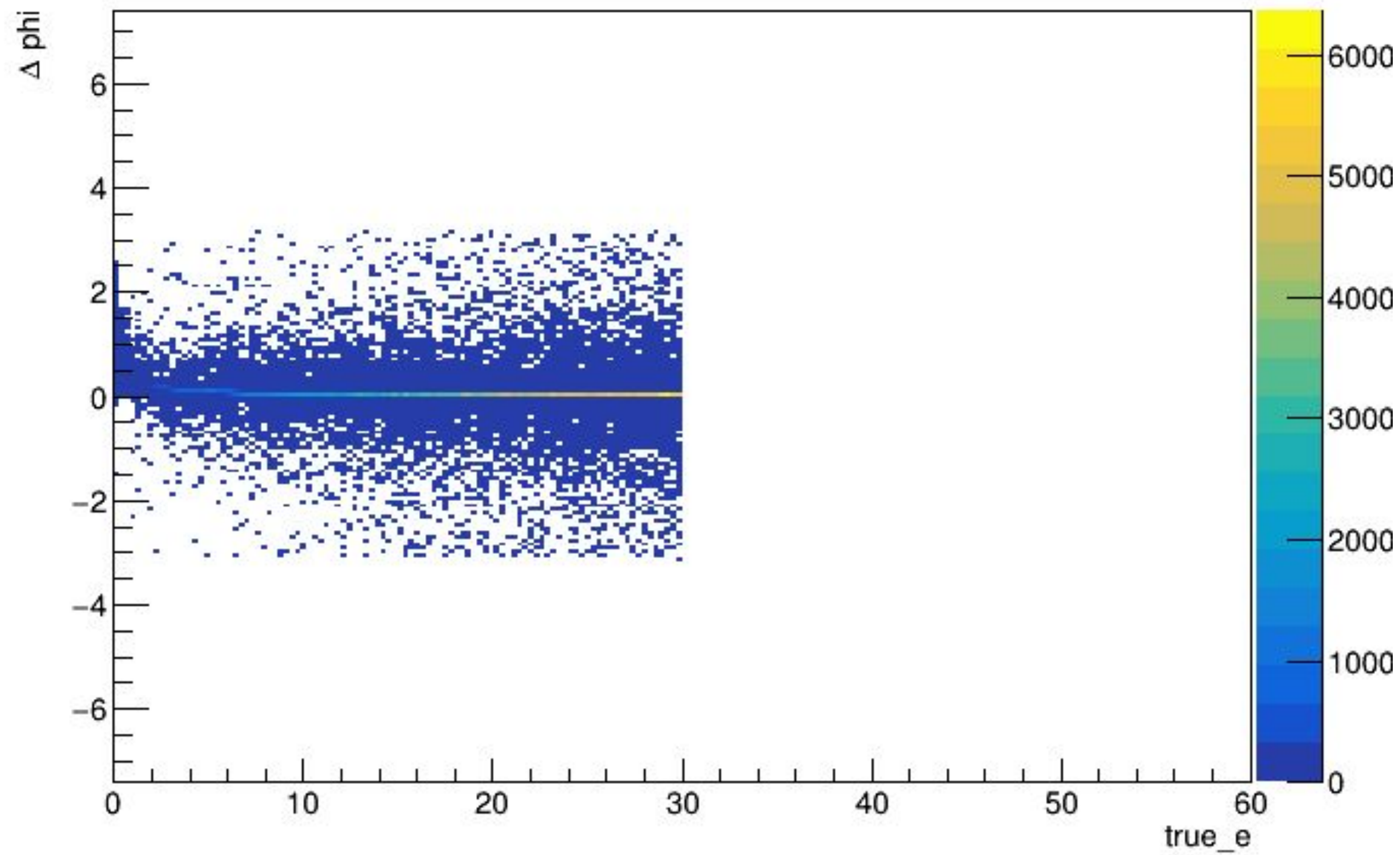


Kaon

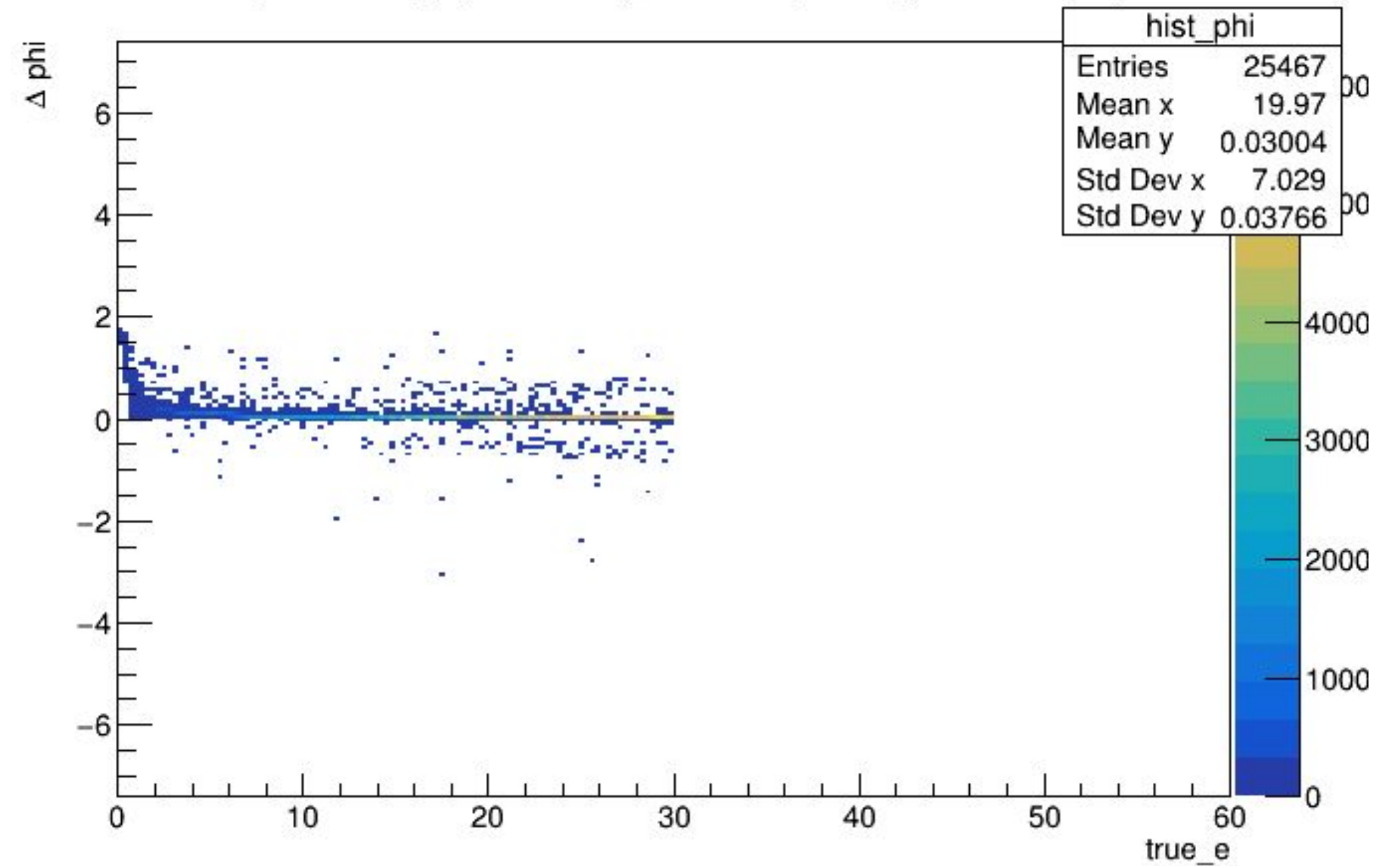
FEMC

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

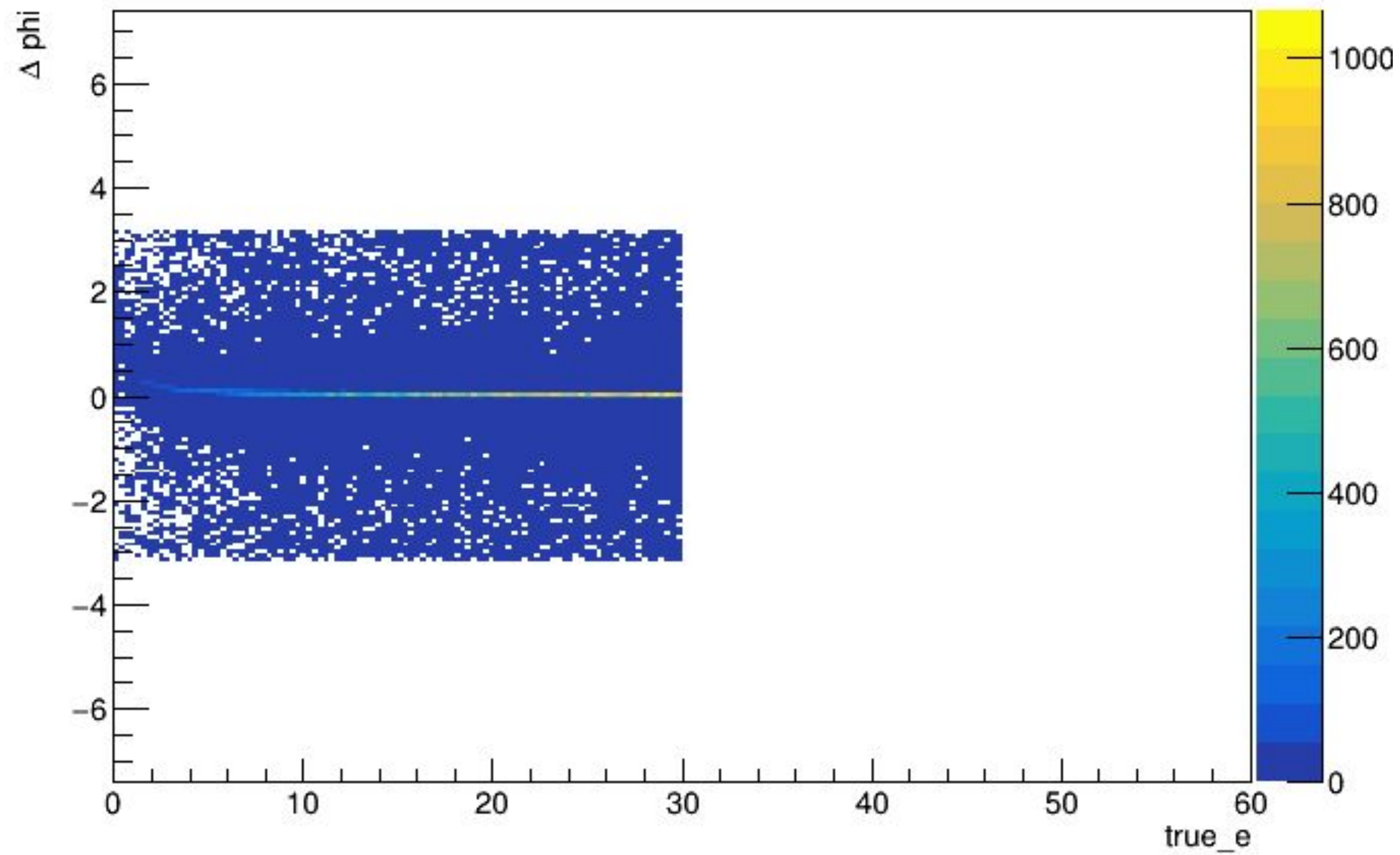


Electron

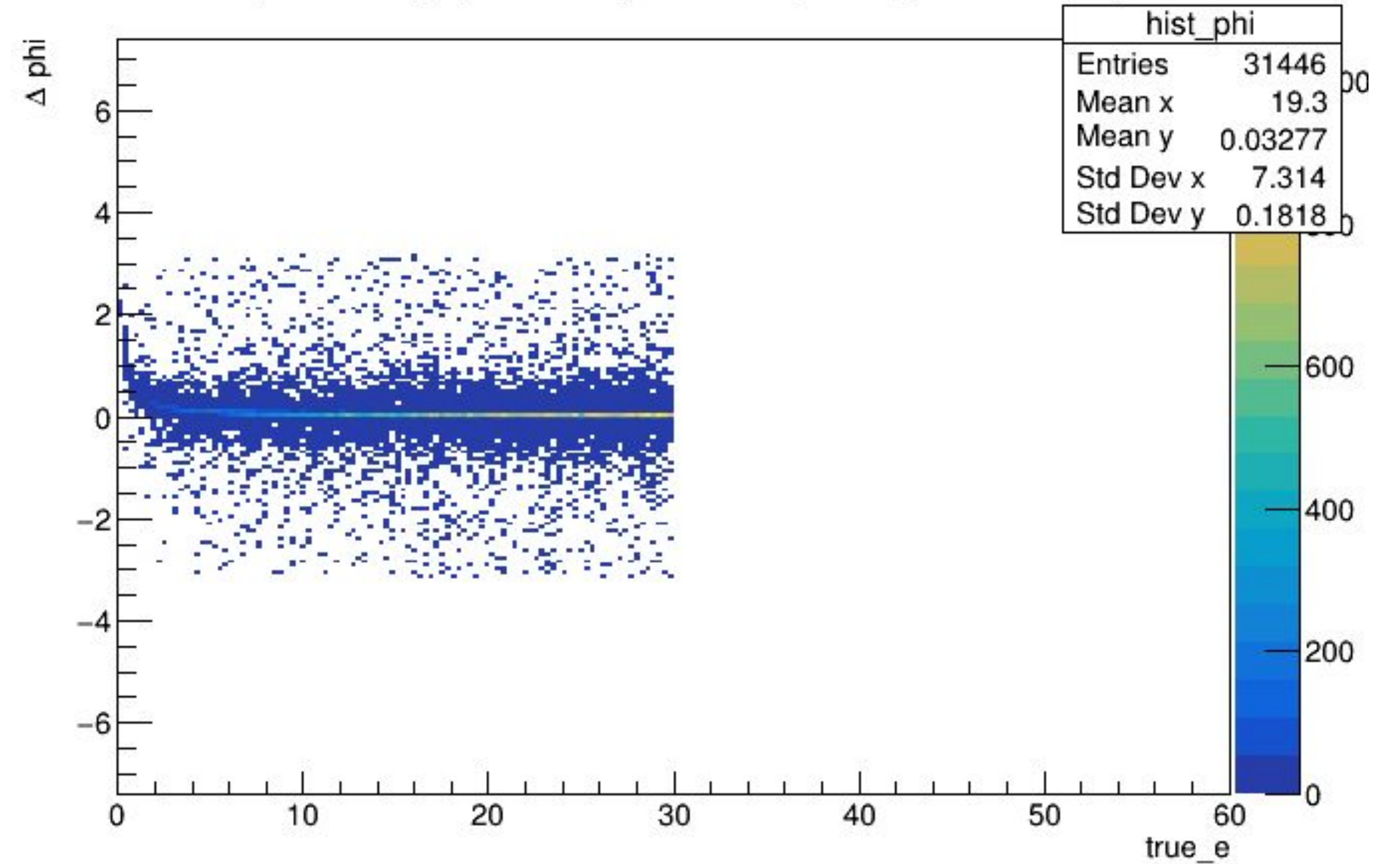
FEMC

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

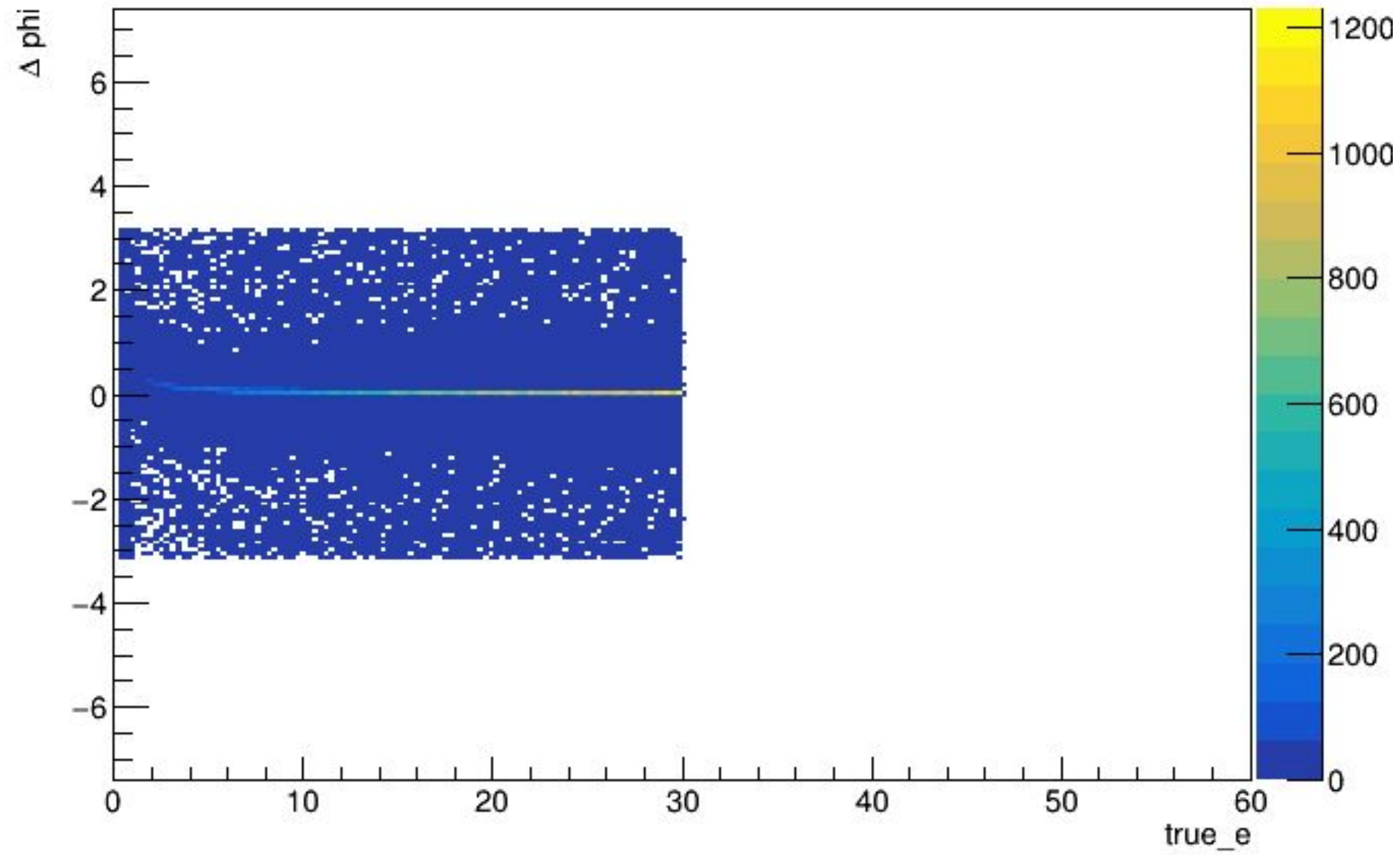


Pion

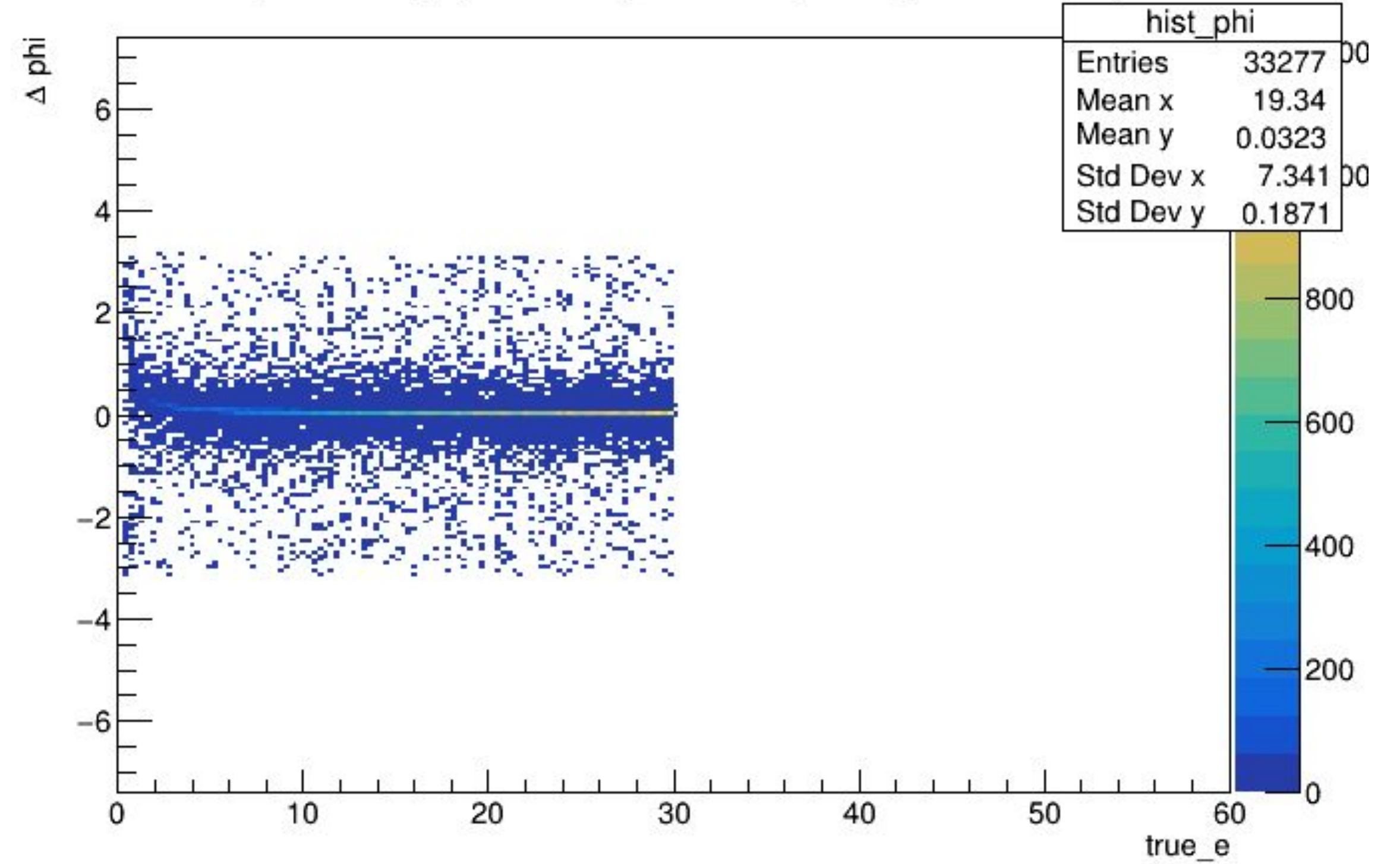
FEMC

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

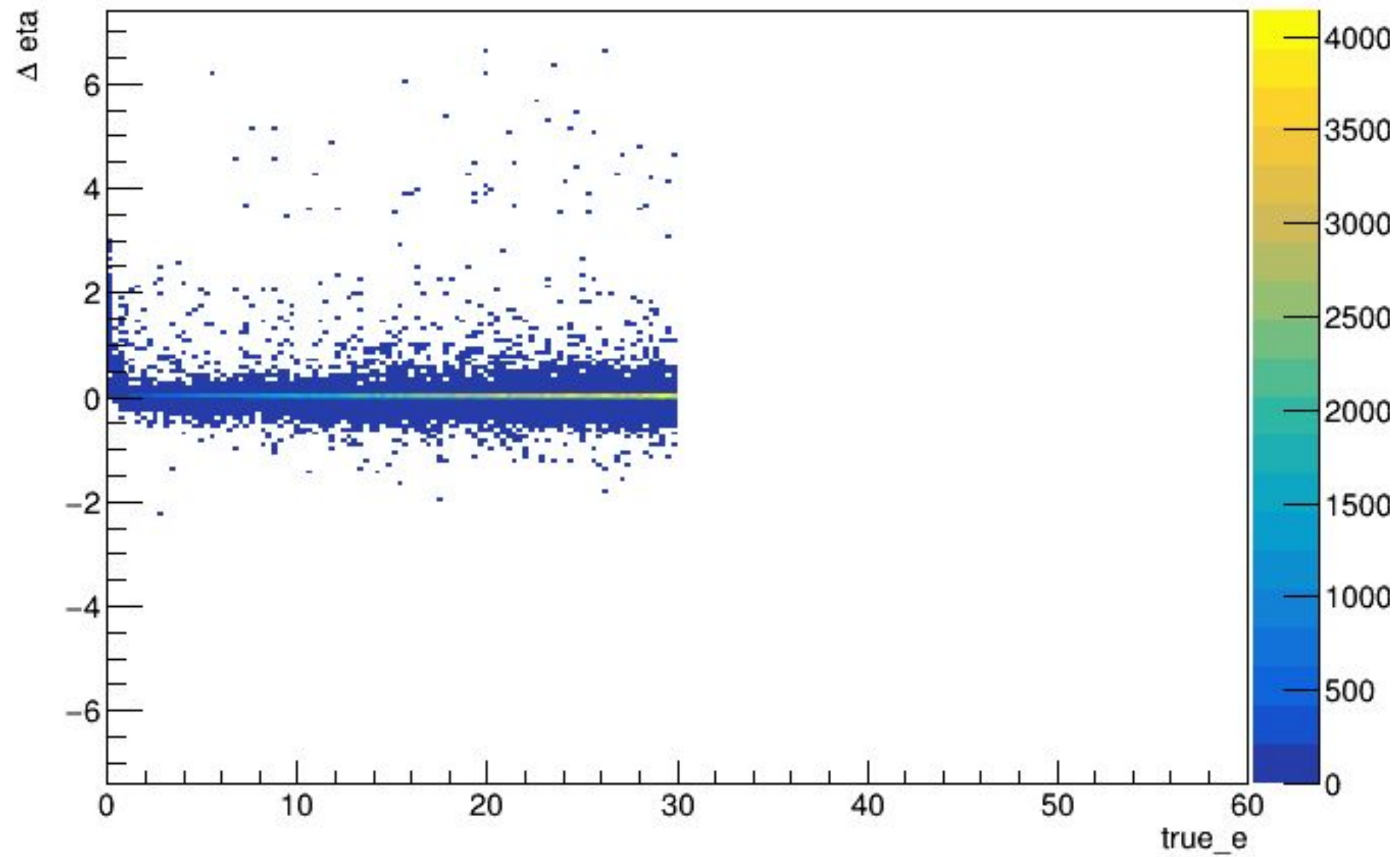


Kaon

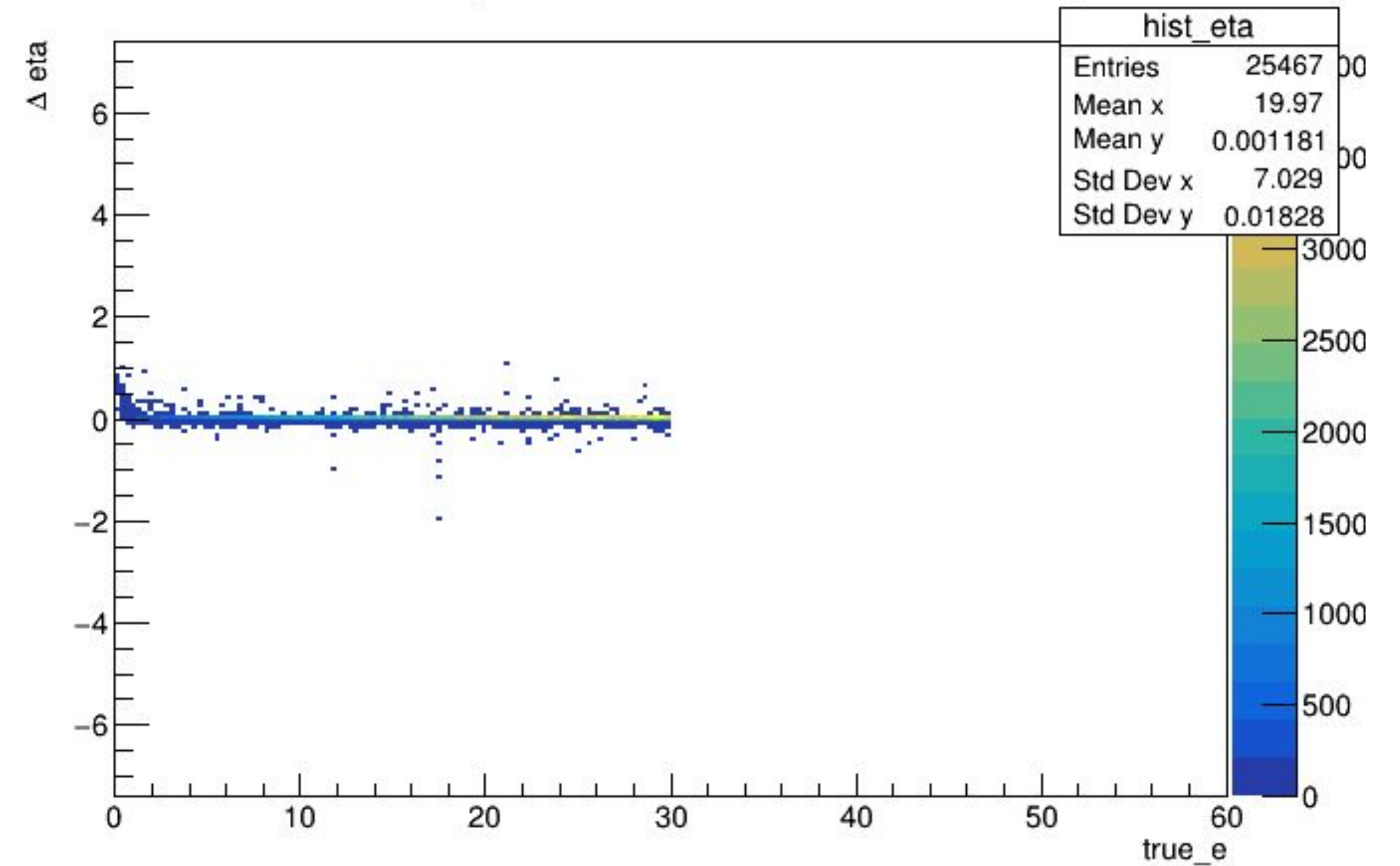
FEMC

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



$\Delta\eta$ vs true_e {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

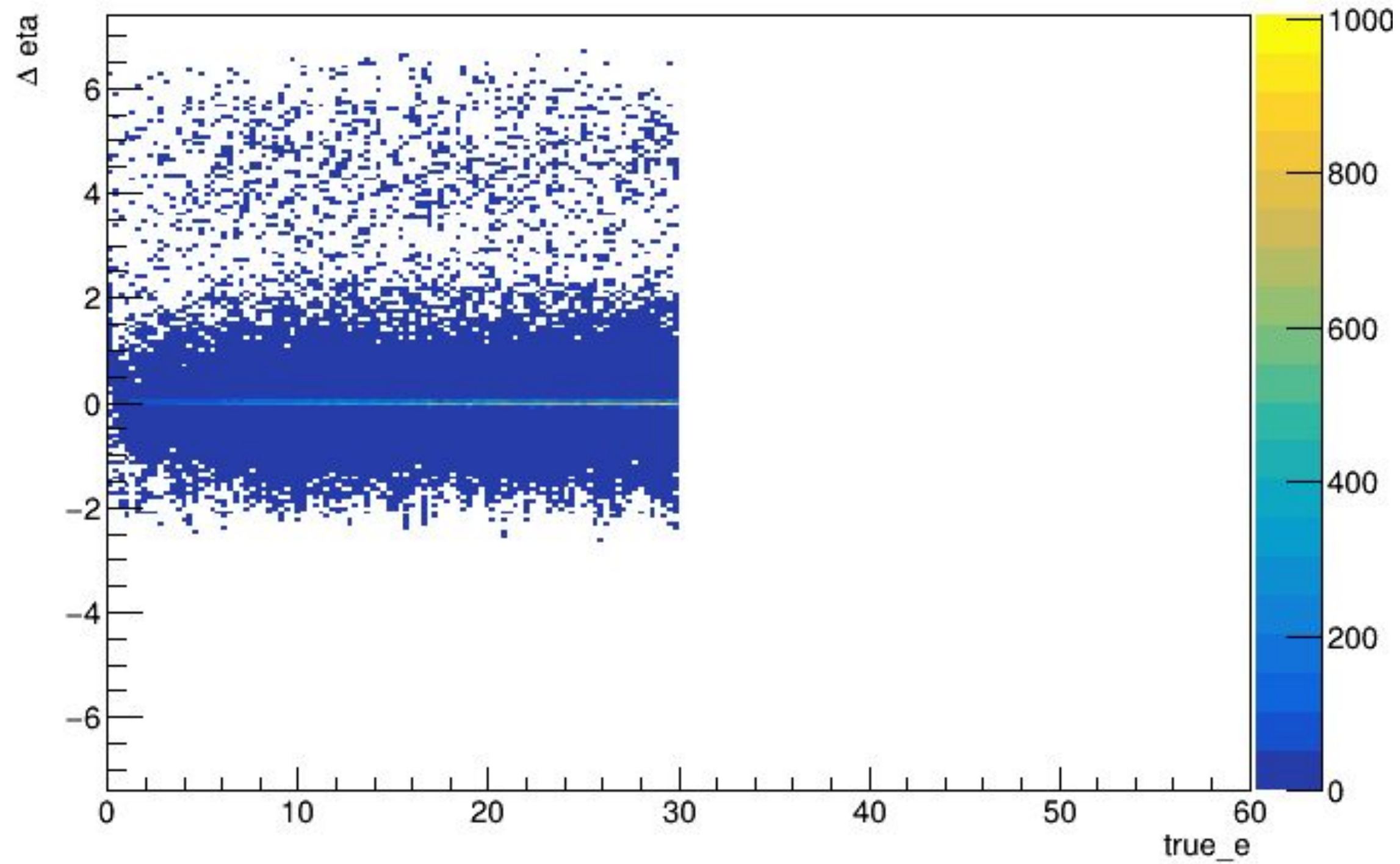


Electron

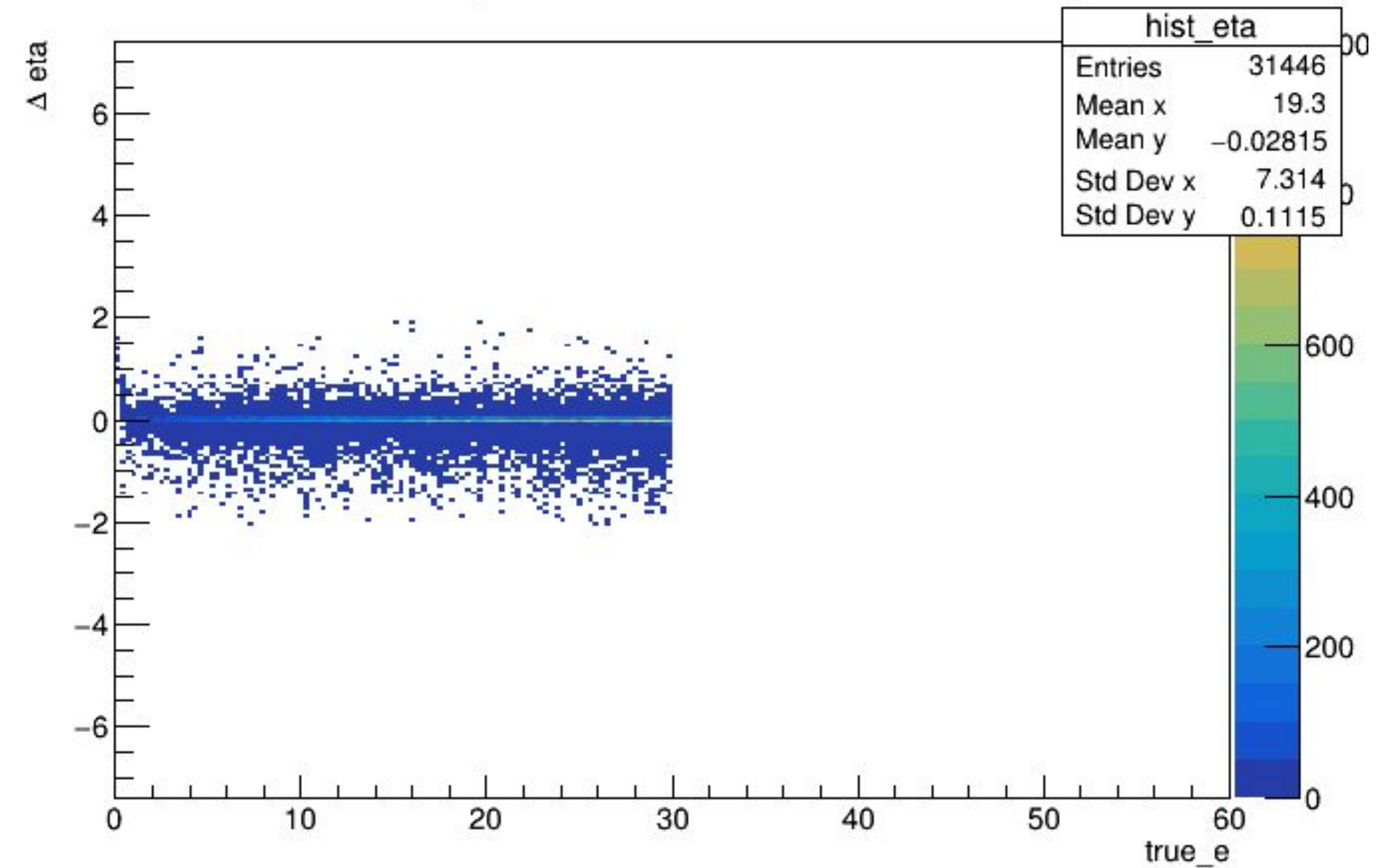
FEMC

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



$\Delta\eta$ vs true_e {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

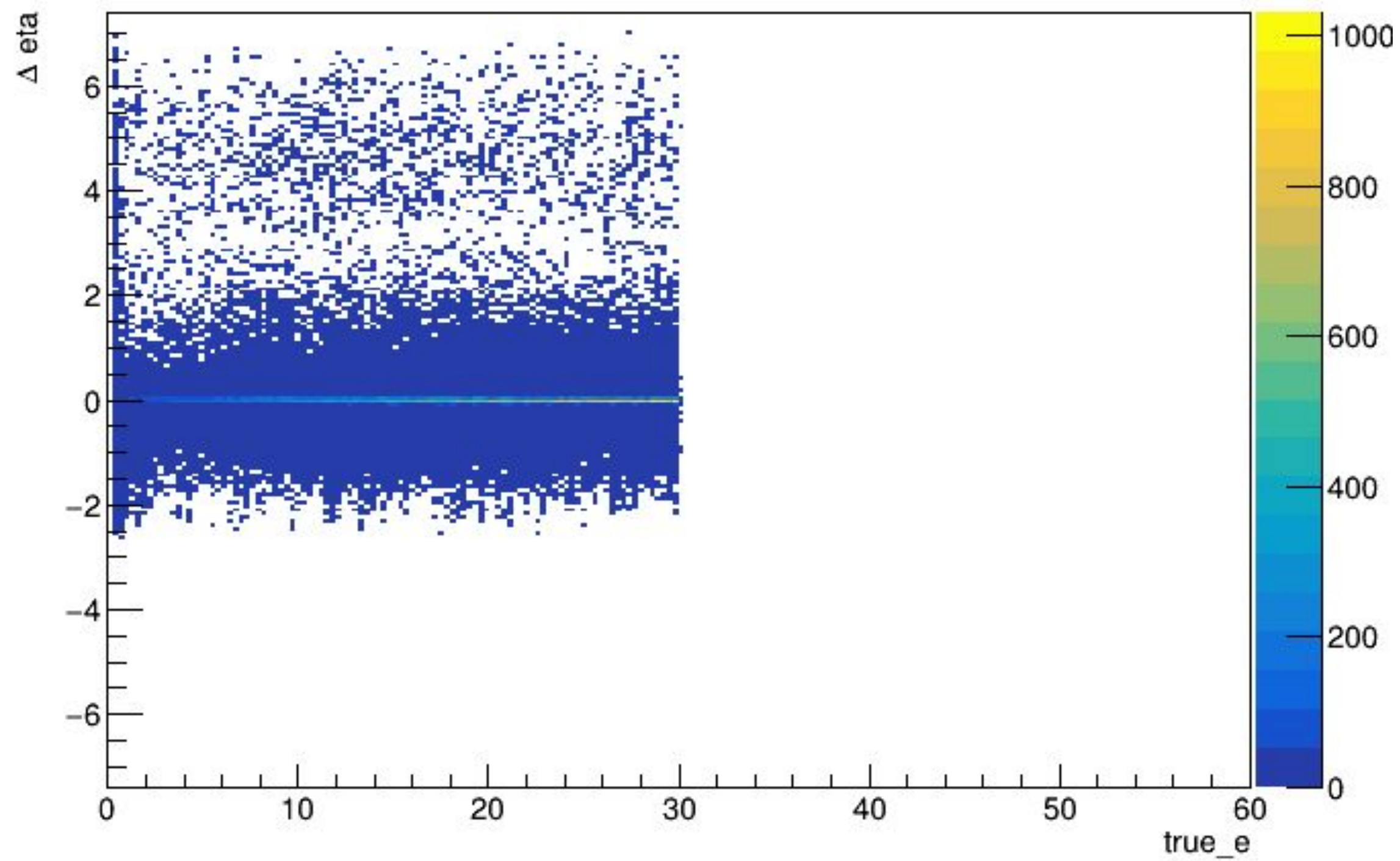


Pion

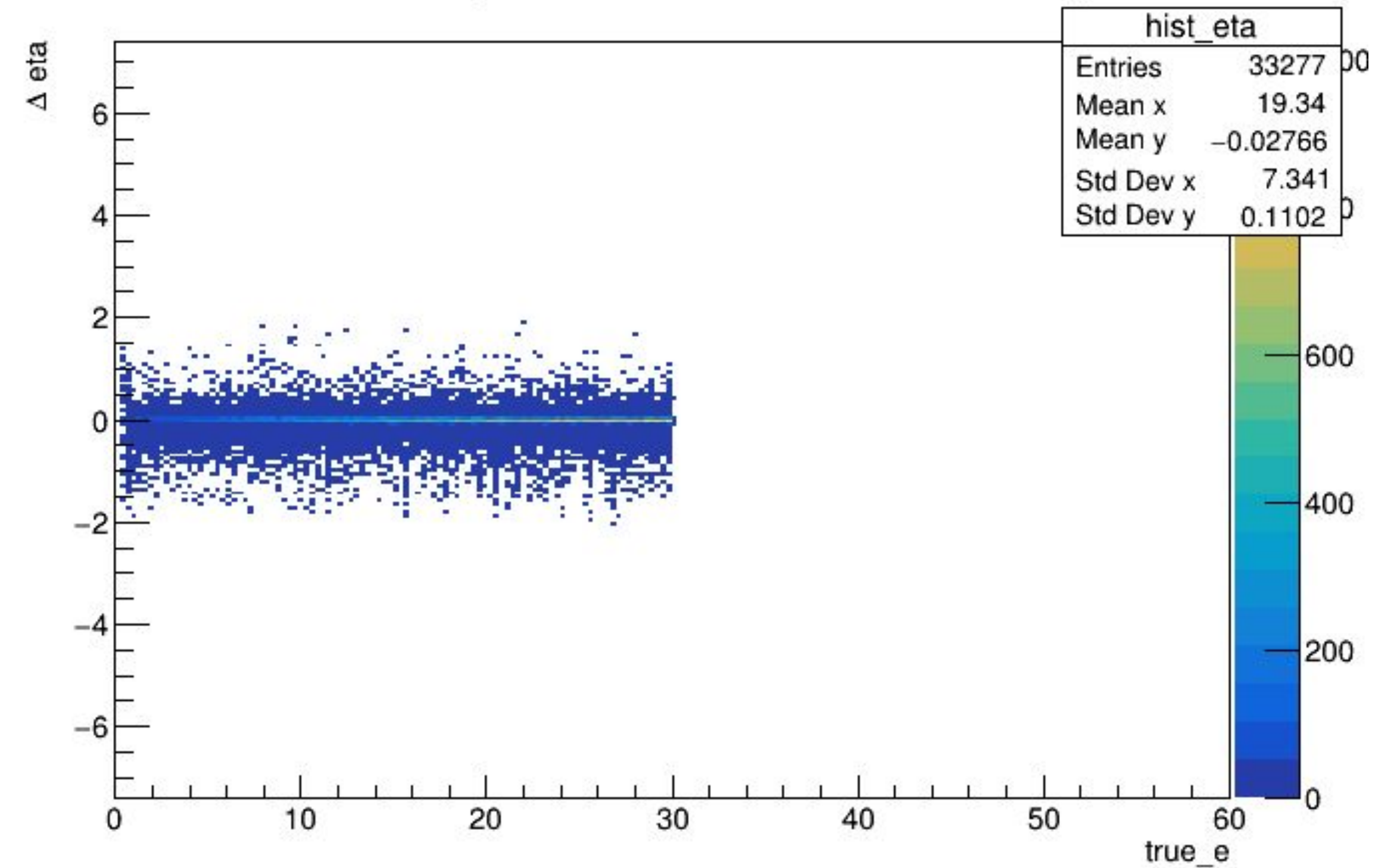
FEMC

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



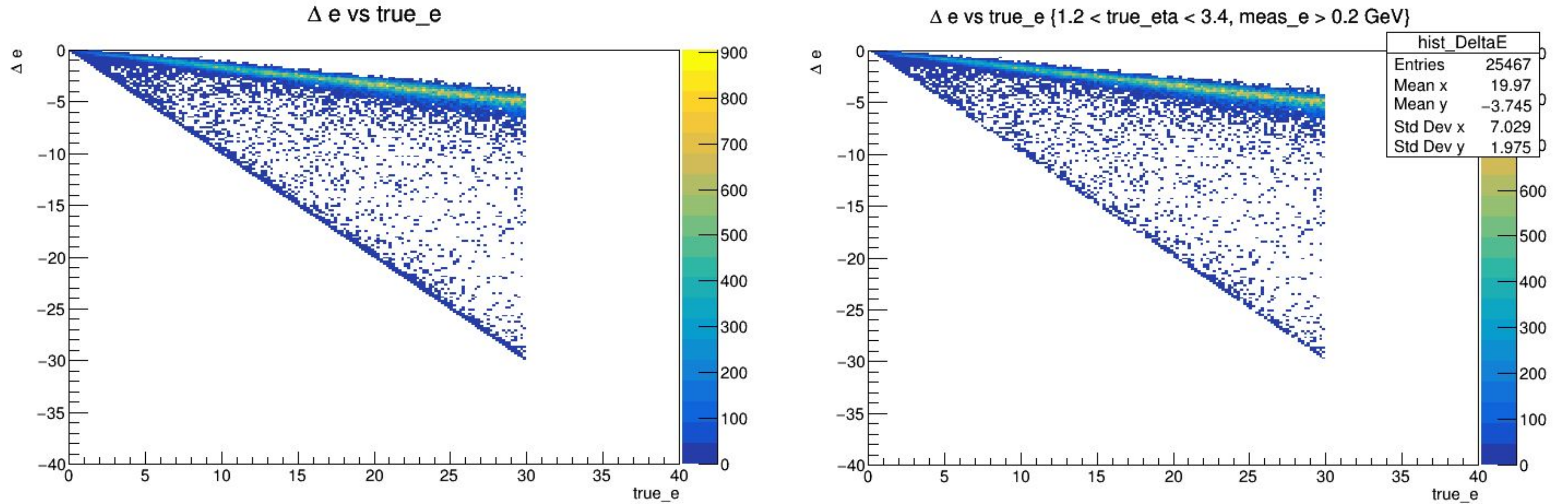
$\Delta\eta$ vs true_e {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}



Kaon

FEMC

Δe vs g_e

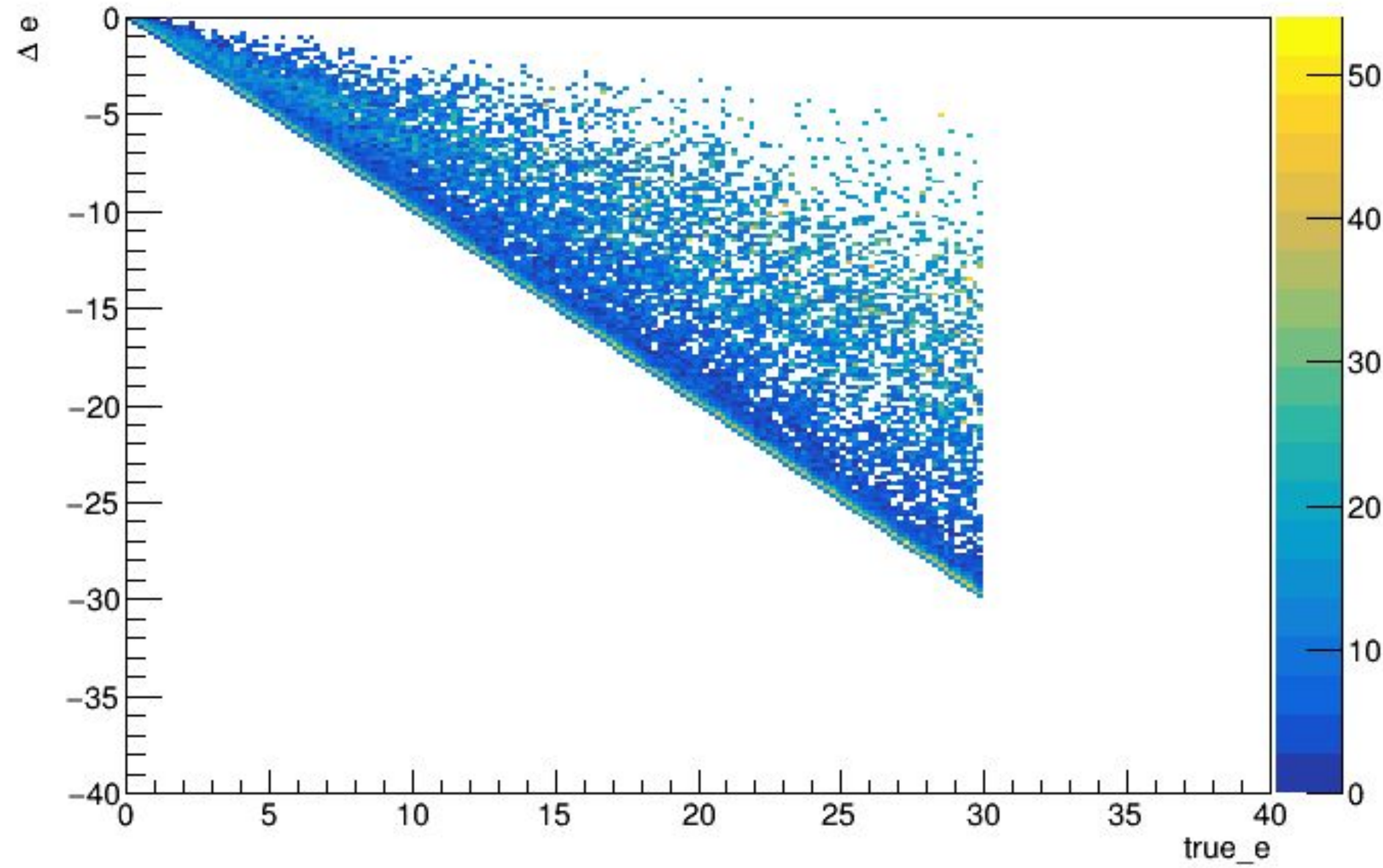


Electron

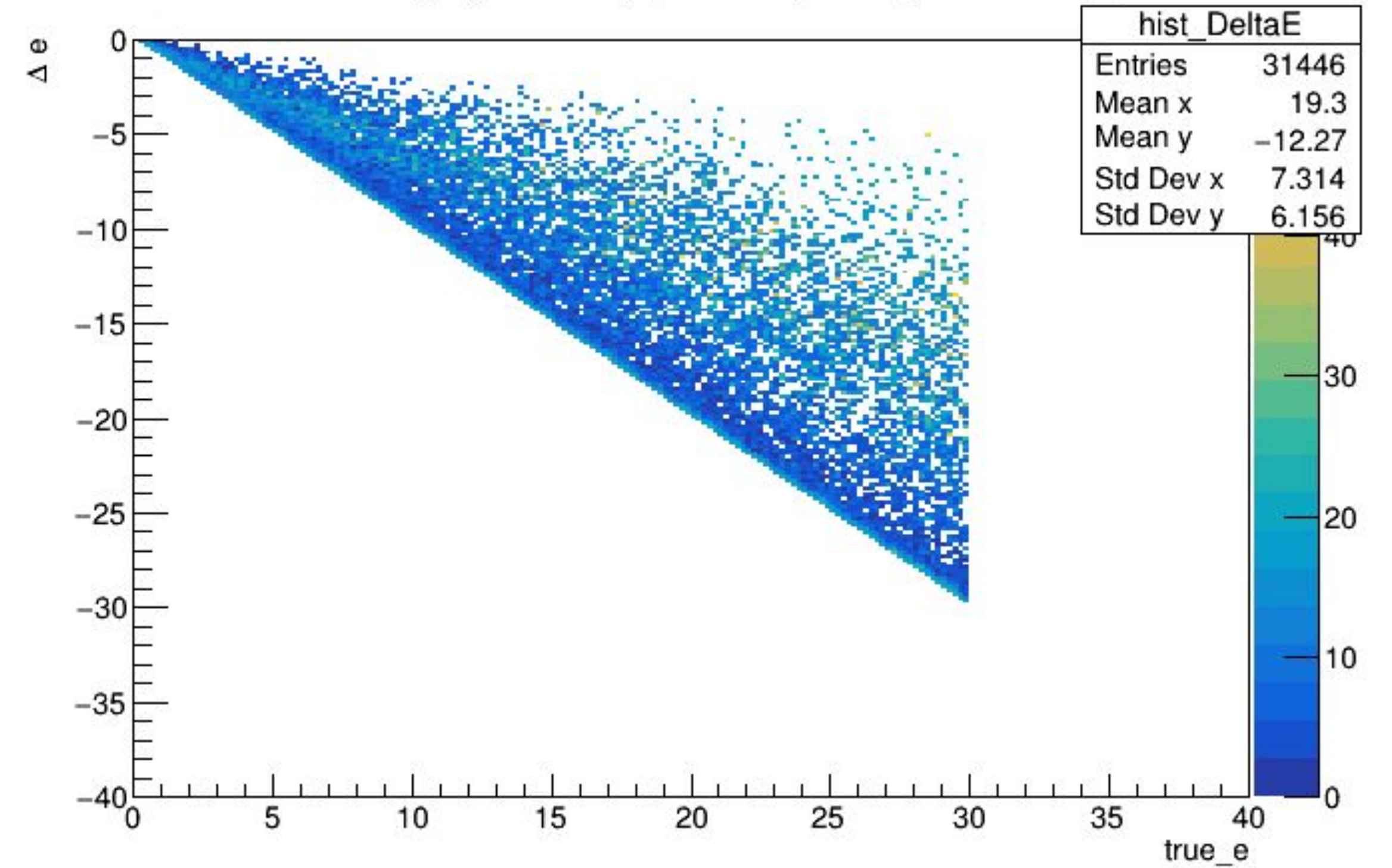
FEMC

Δe vs g_e

Δe vs true_e



Δe vs true_e {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}

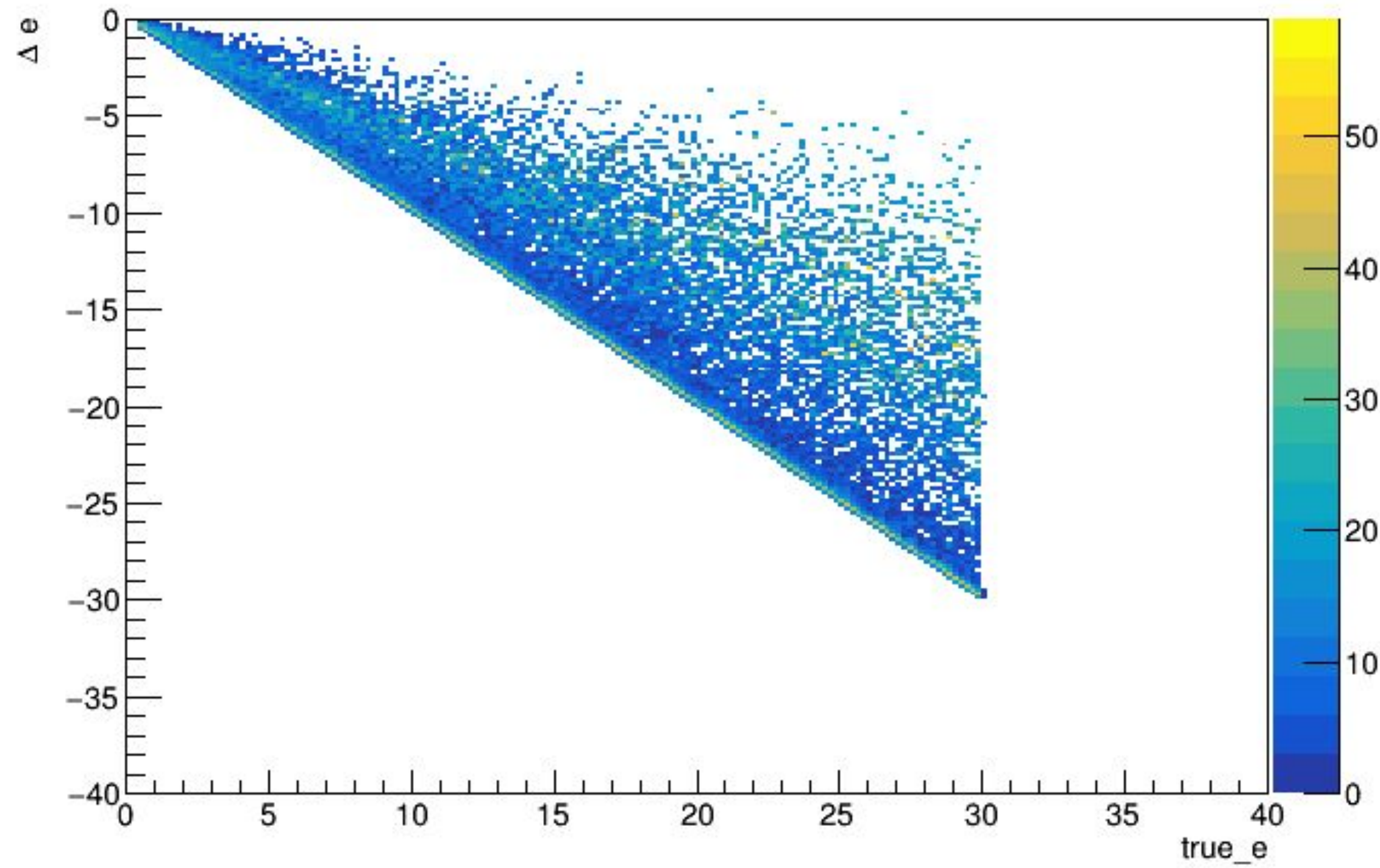


Pion

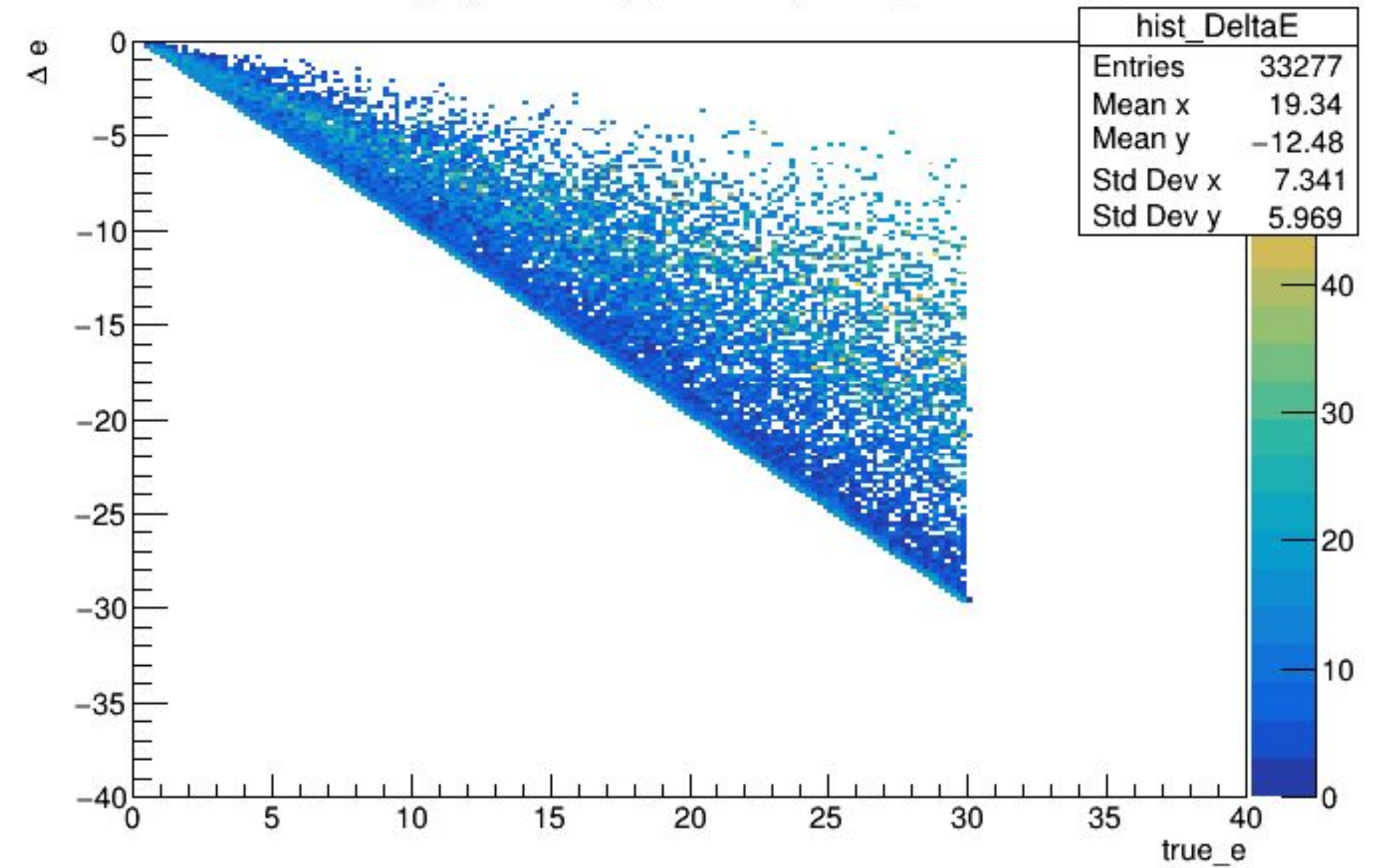
FEMC

Δe vs g_e

Δe vs true_e



Δe vs true_e {1.2 < true_eta < 3.4, meas_e > 0.2 GeV}



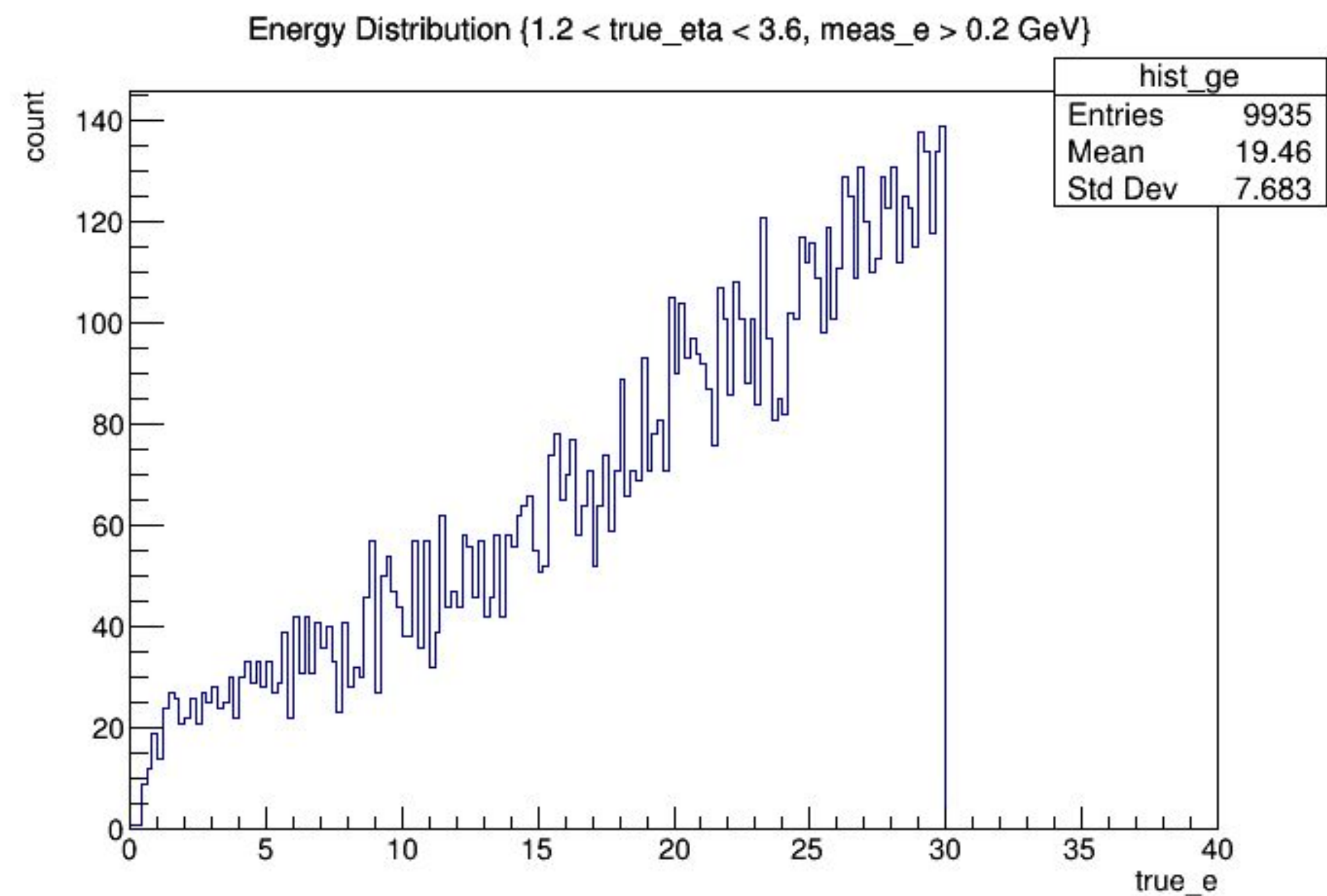
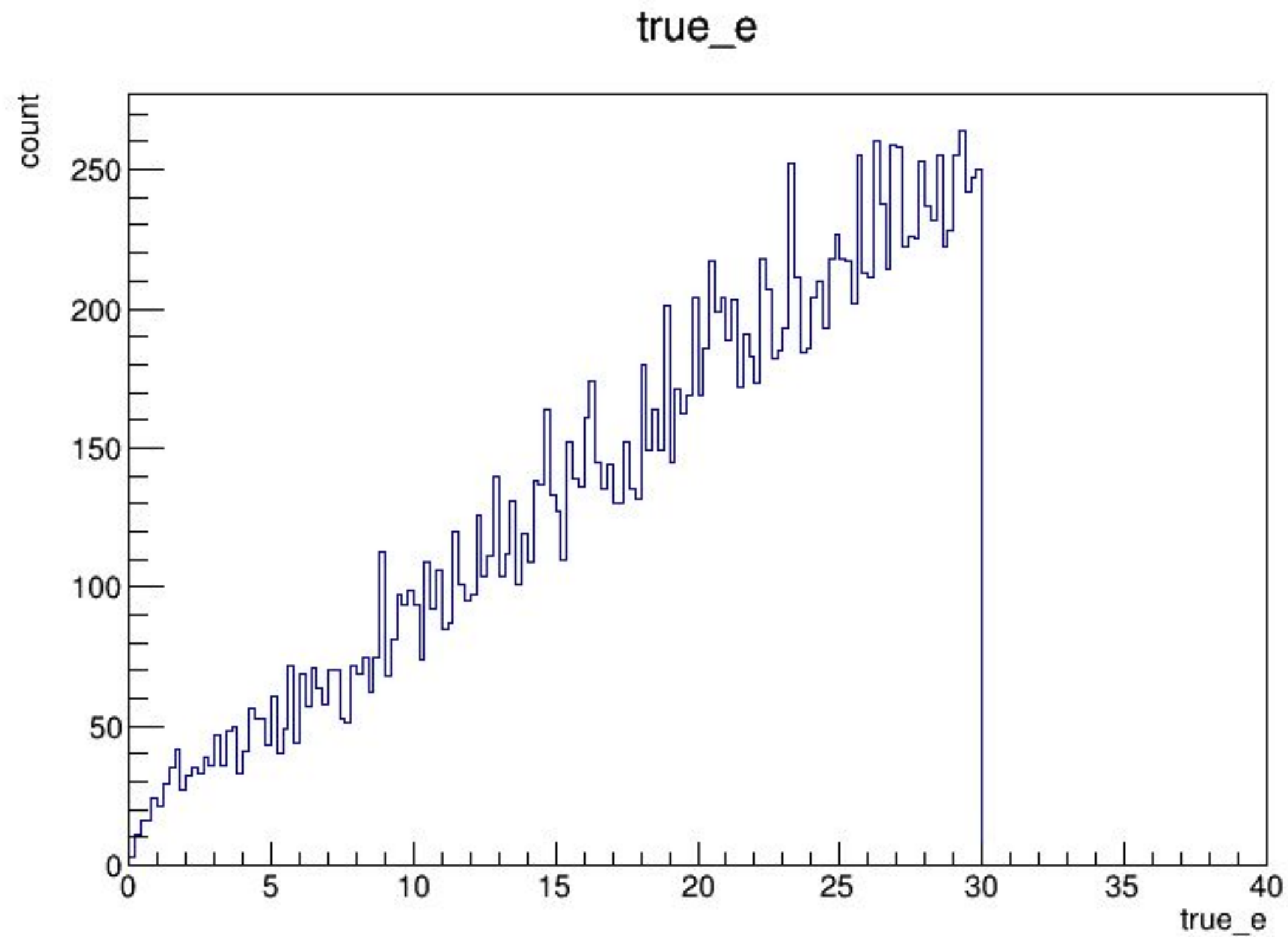
Kaon



FHCAL

FHCAL

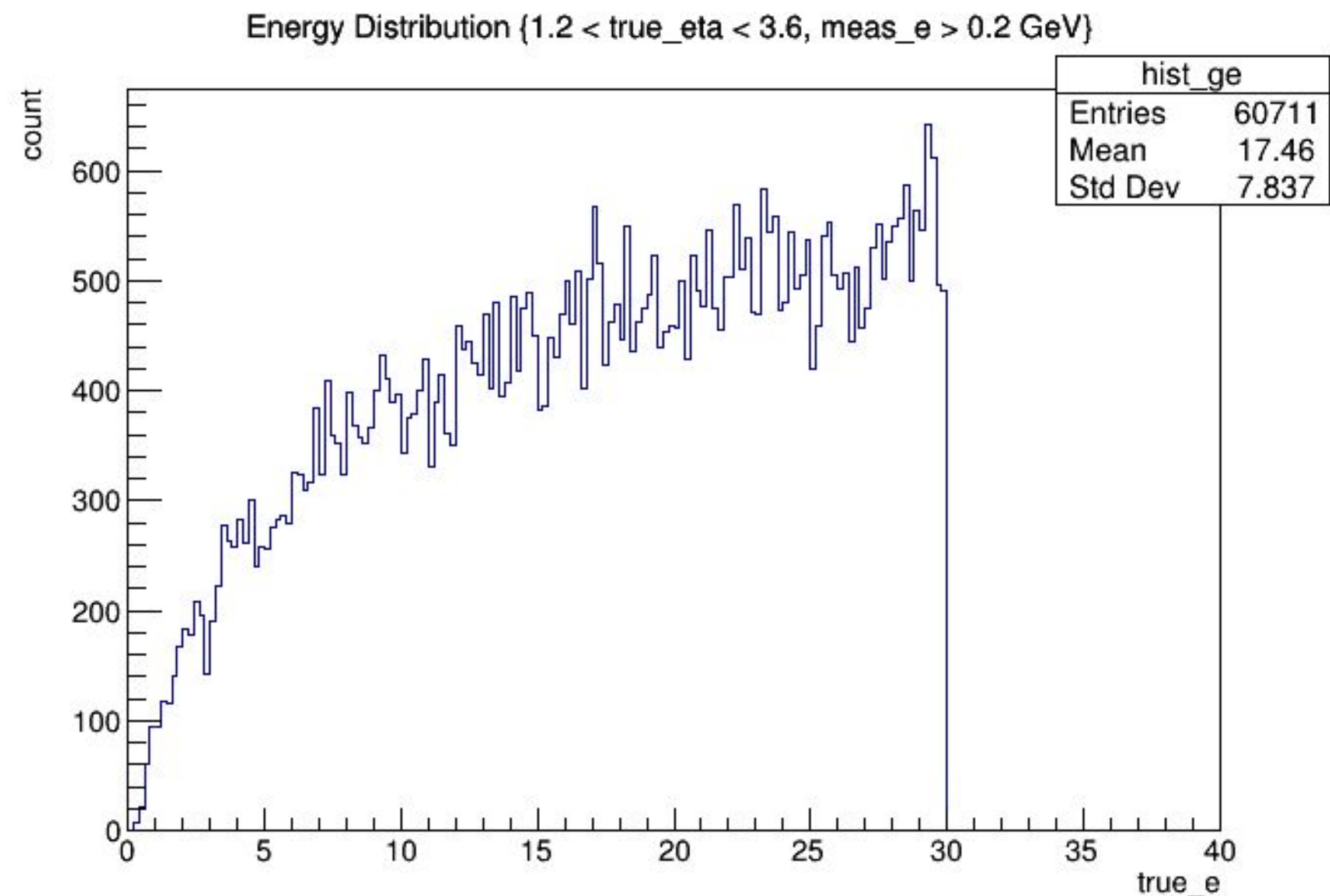
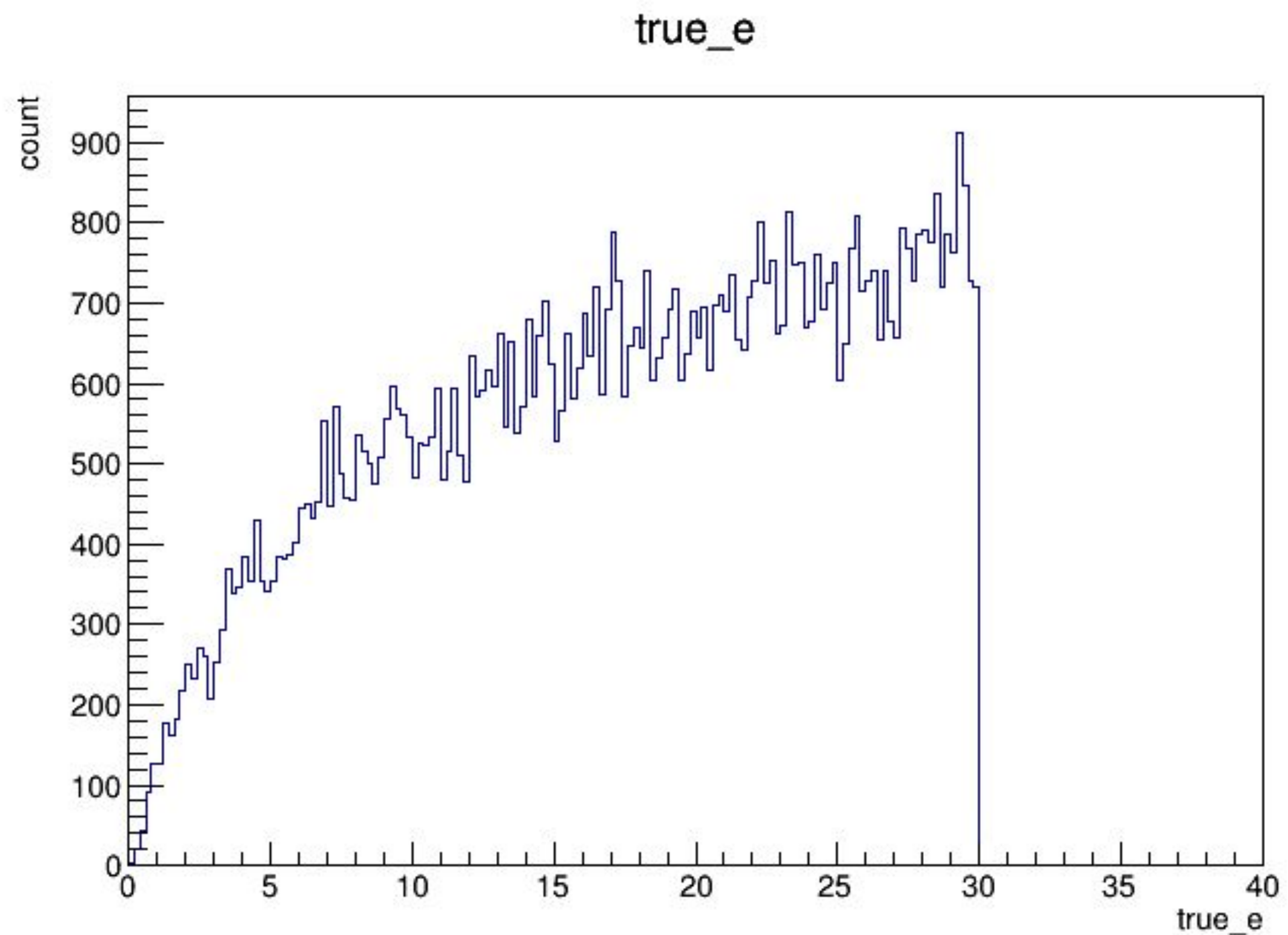
ge distribution



Electron

FHCAL

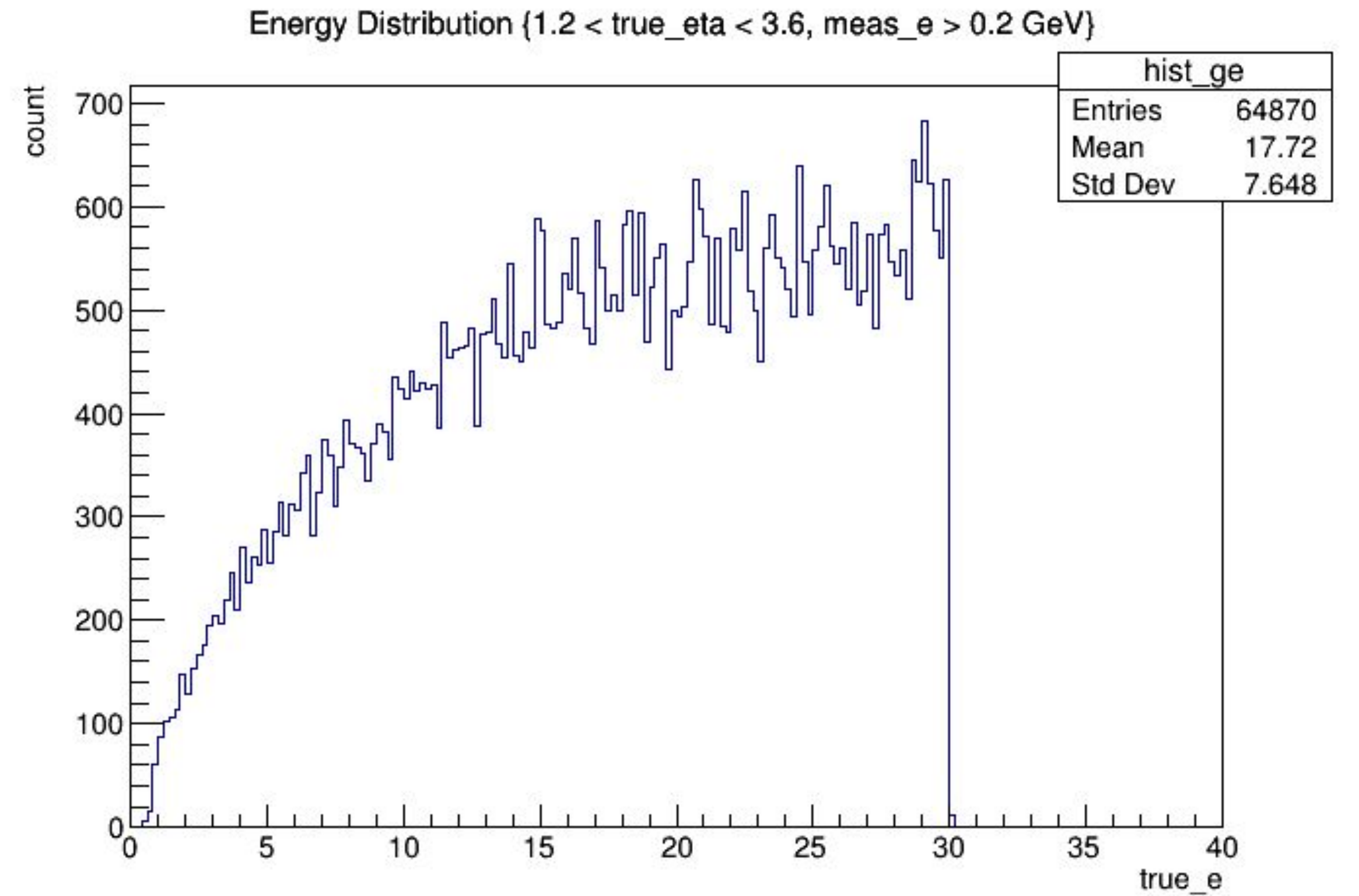
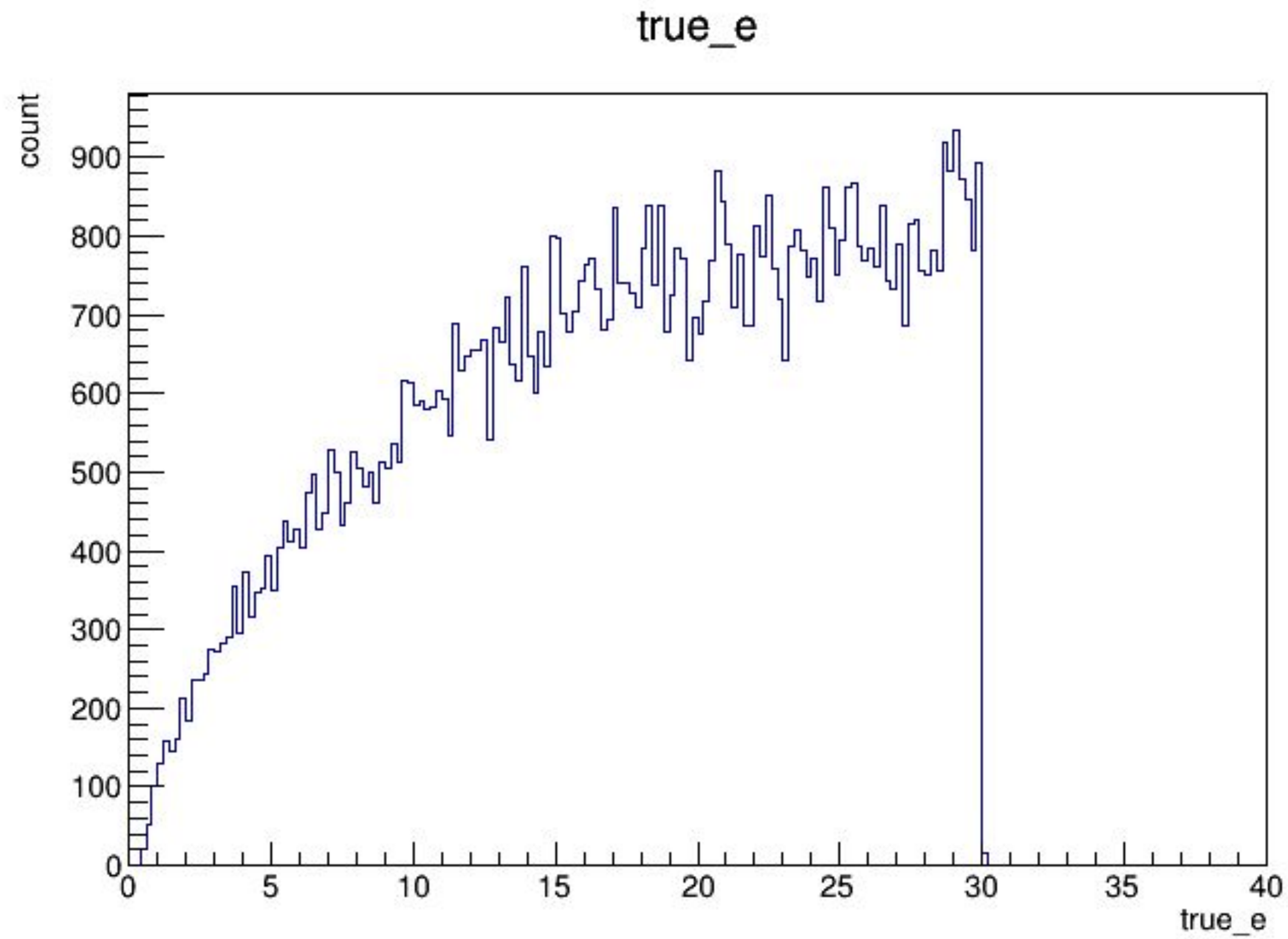
ge distribution



Pion

FHCAL

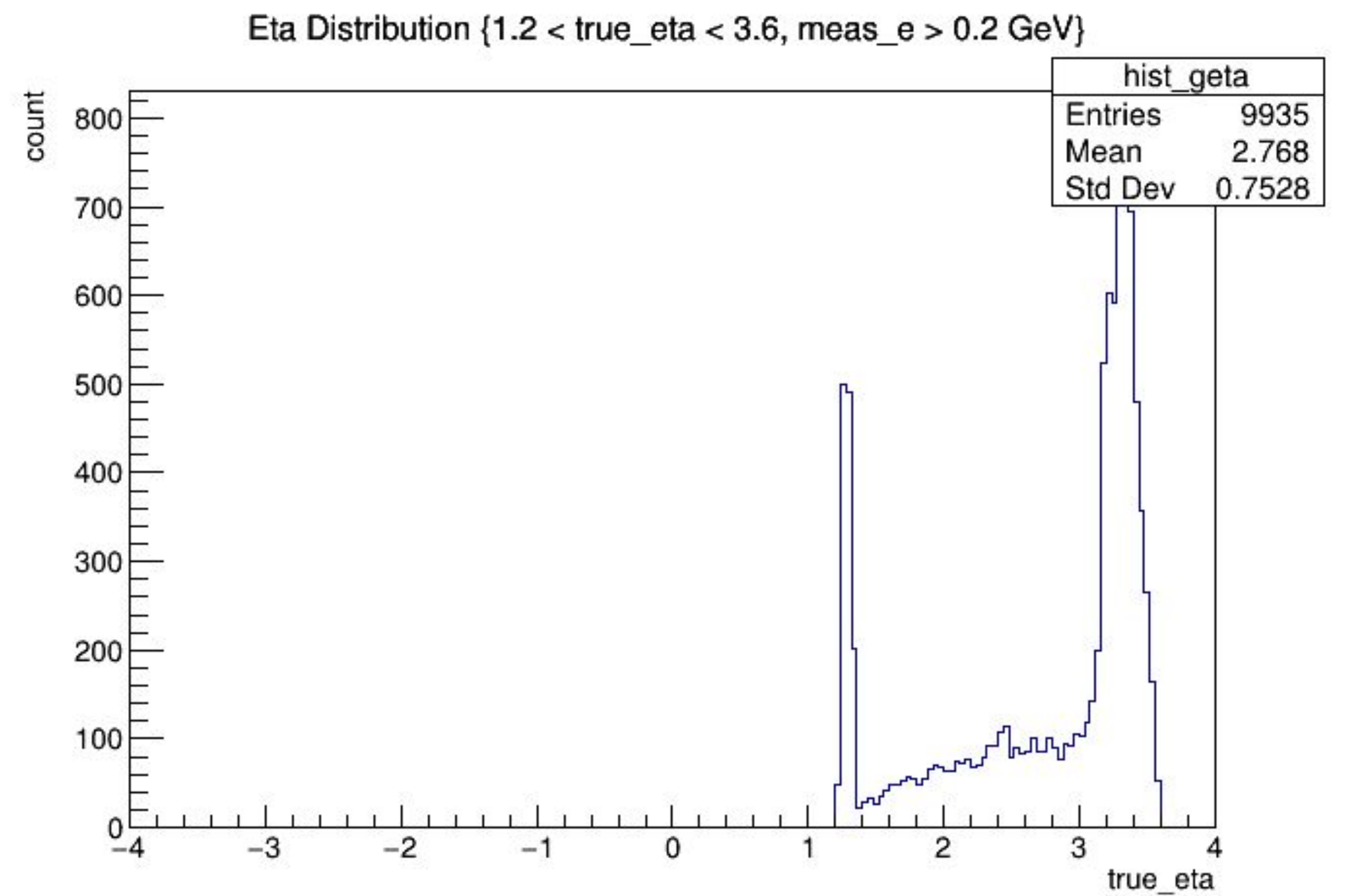
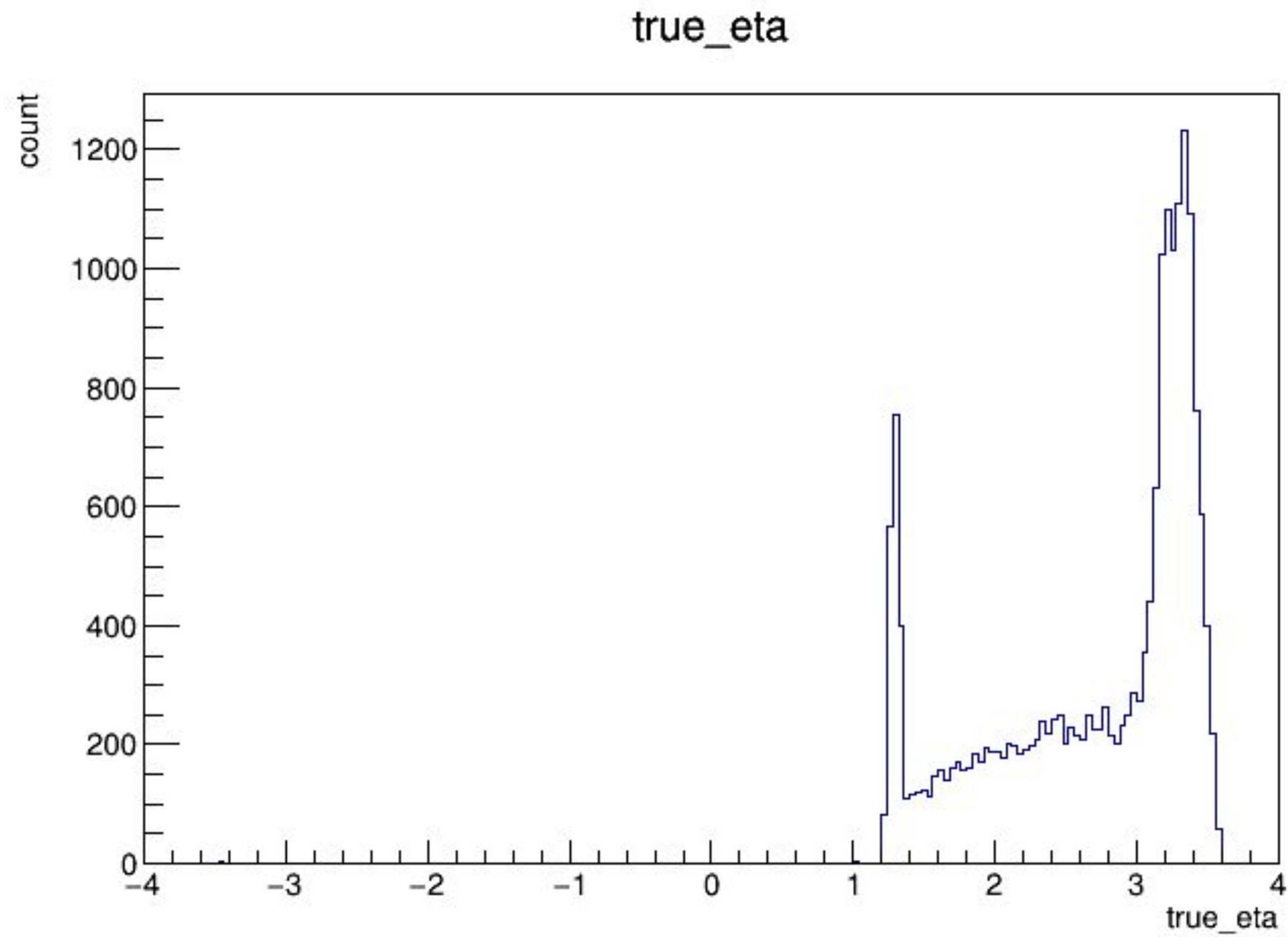
ge distribution



Kaon

FHCAL

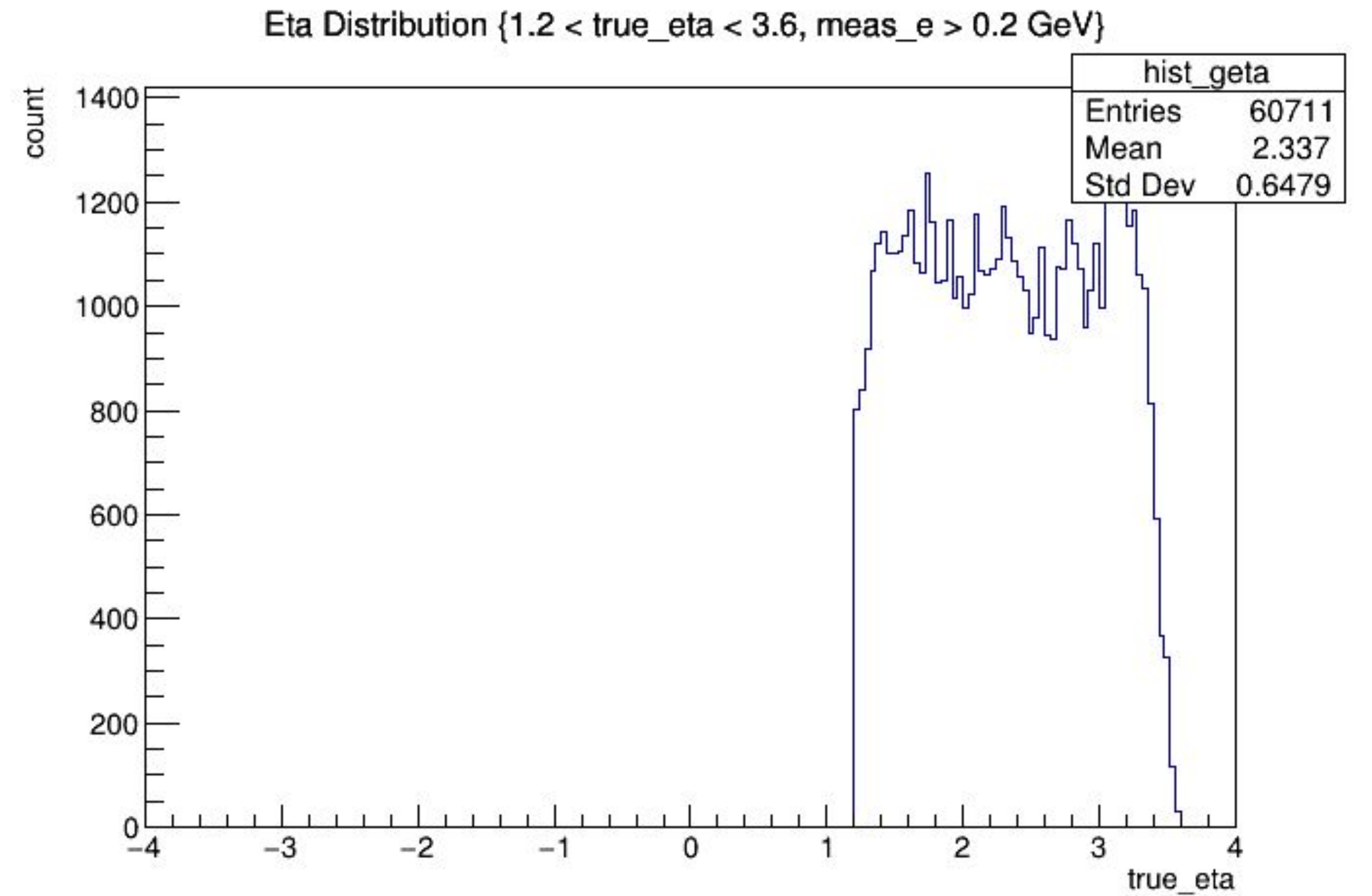
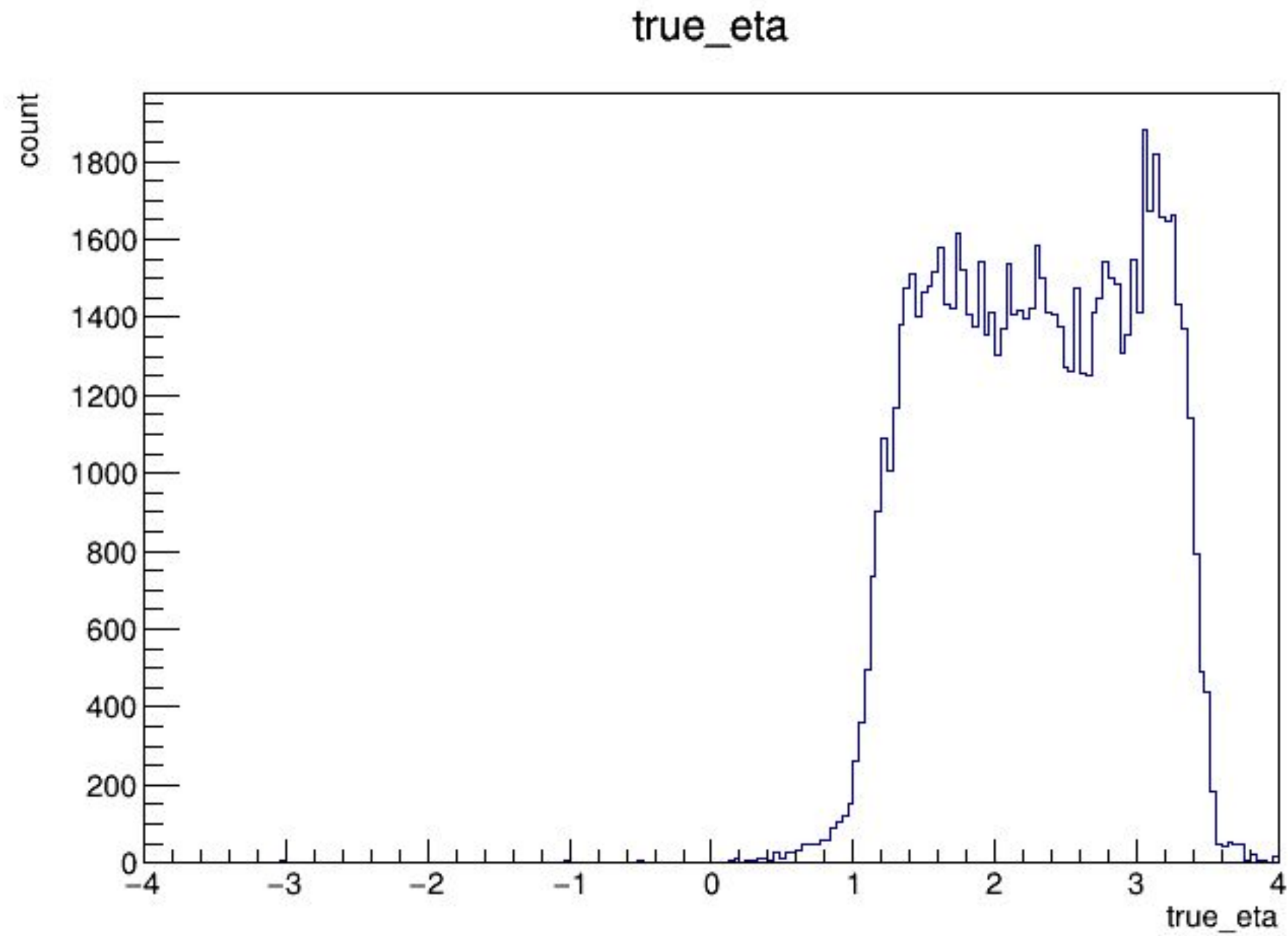
geta distribution



Electron

FHCAL

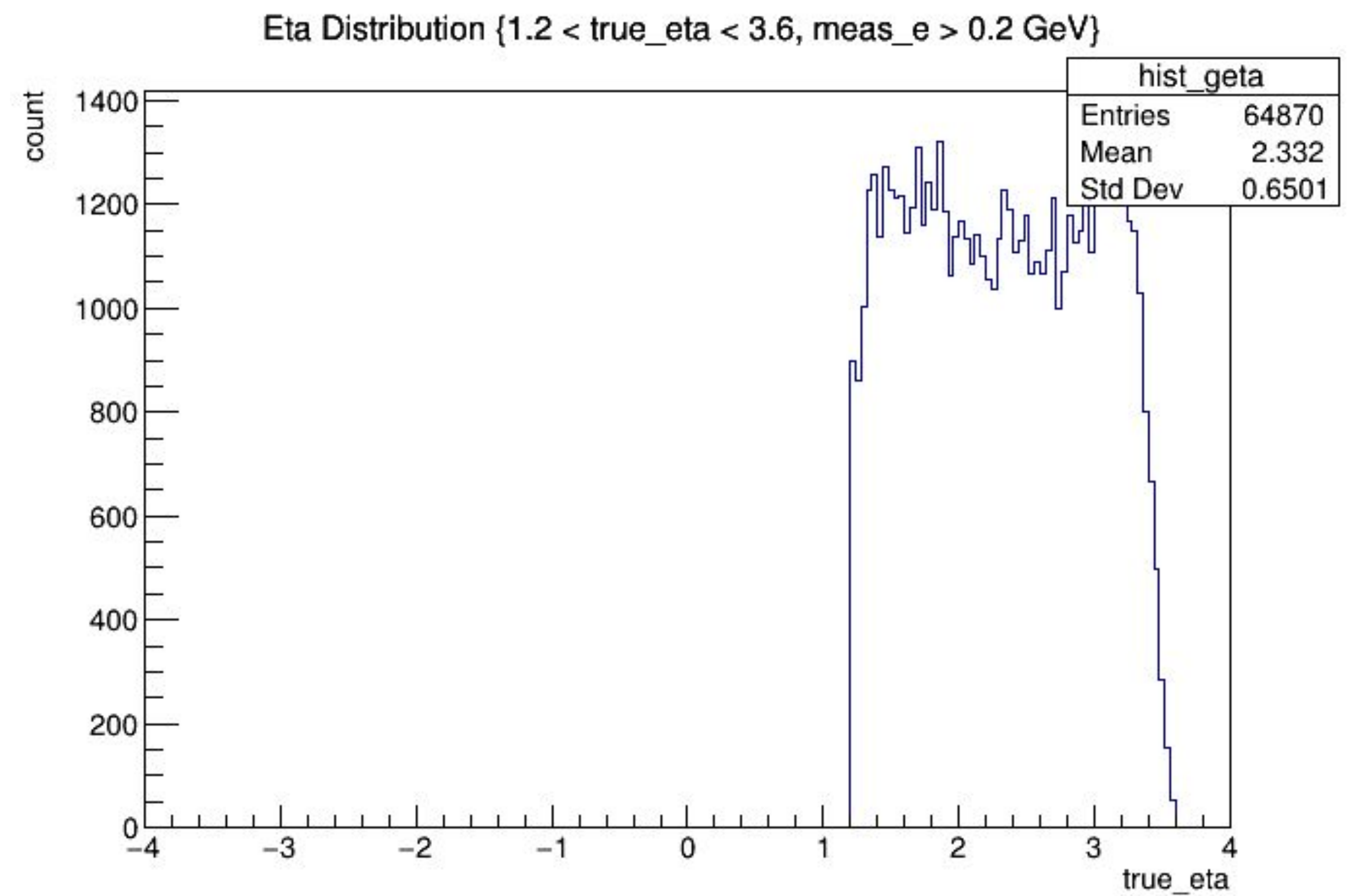
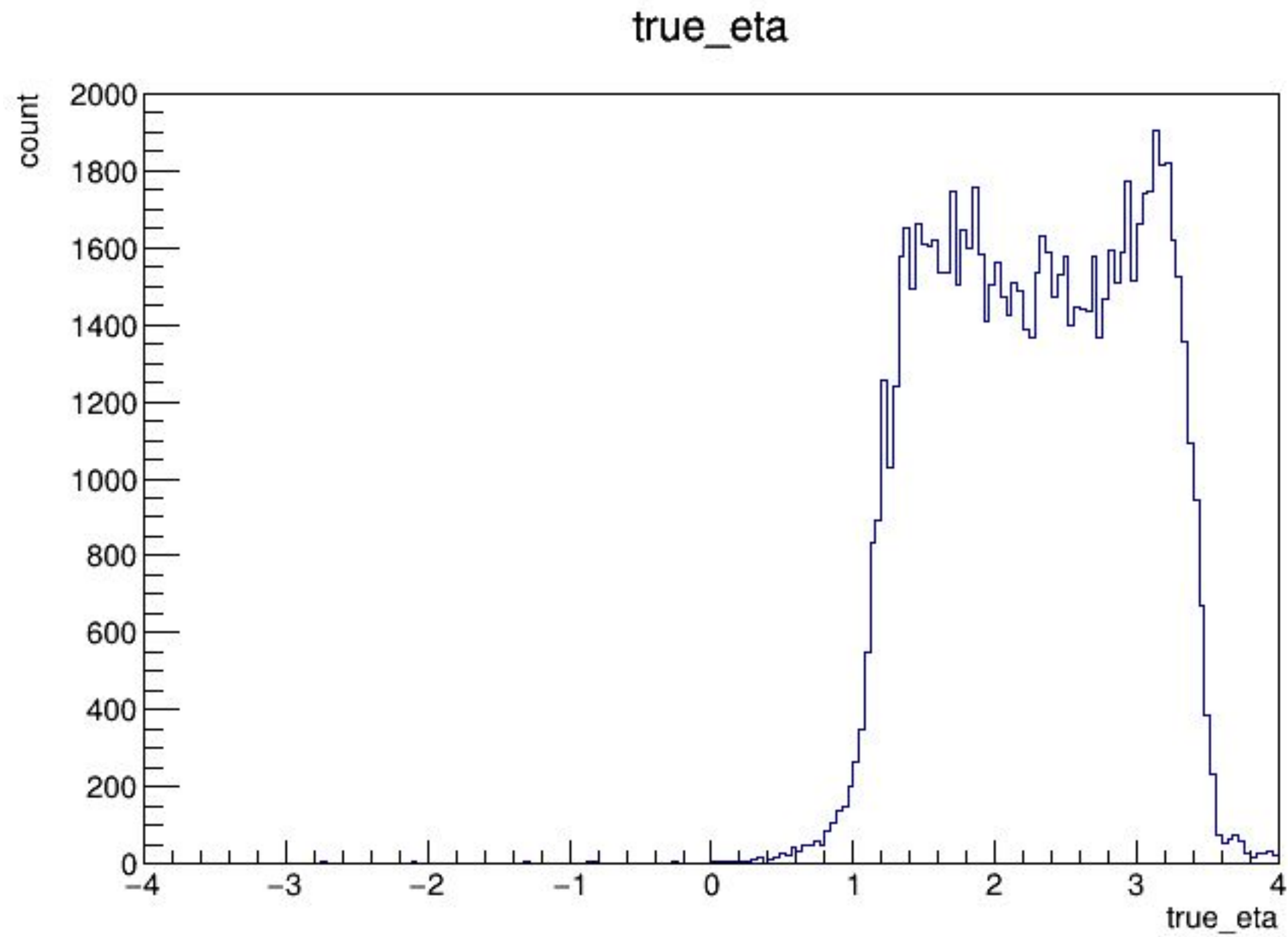
geta distribution



Pion

FHCAL

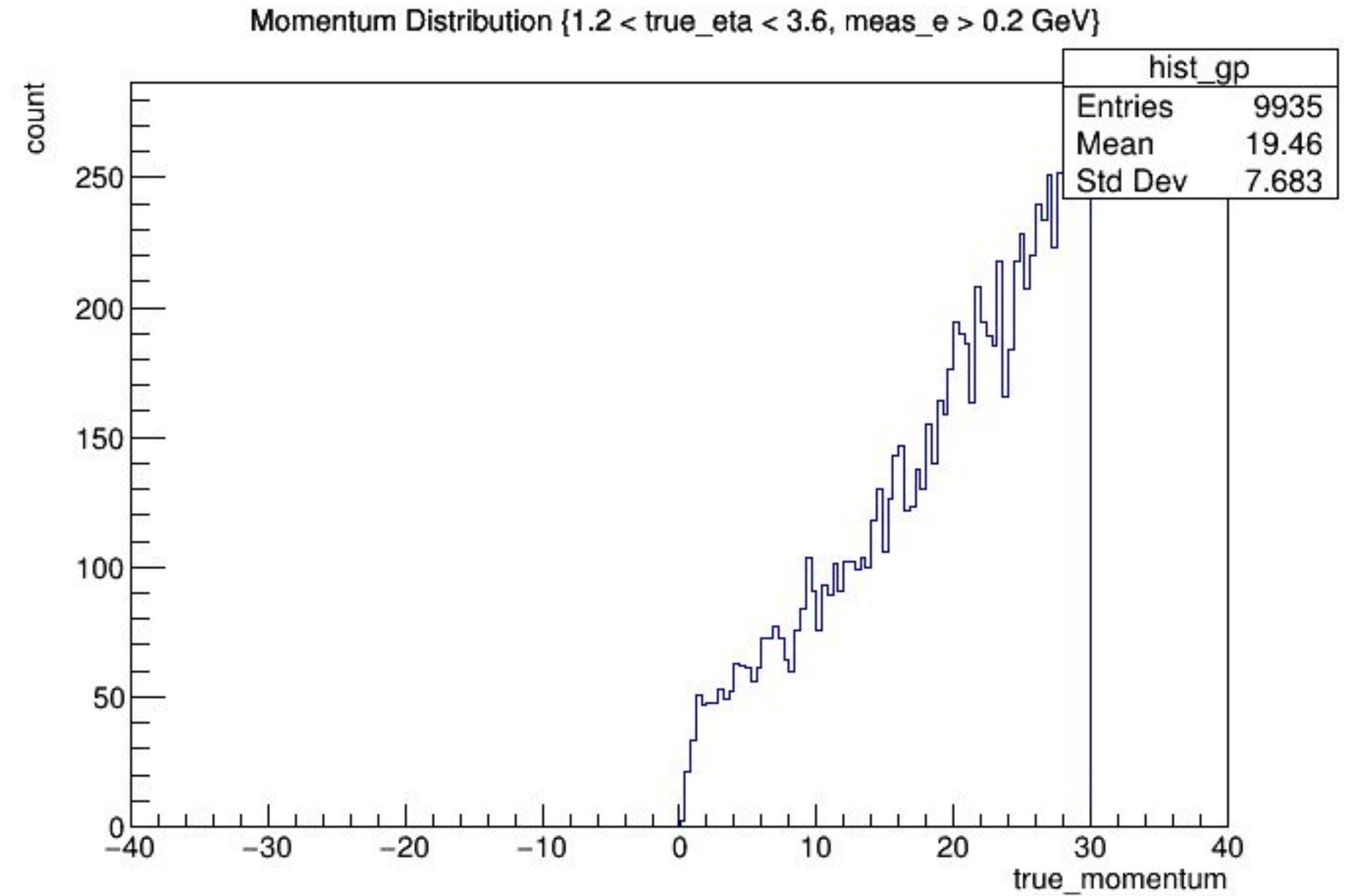
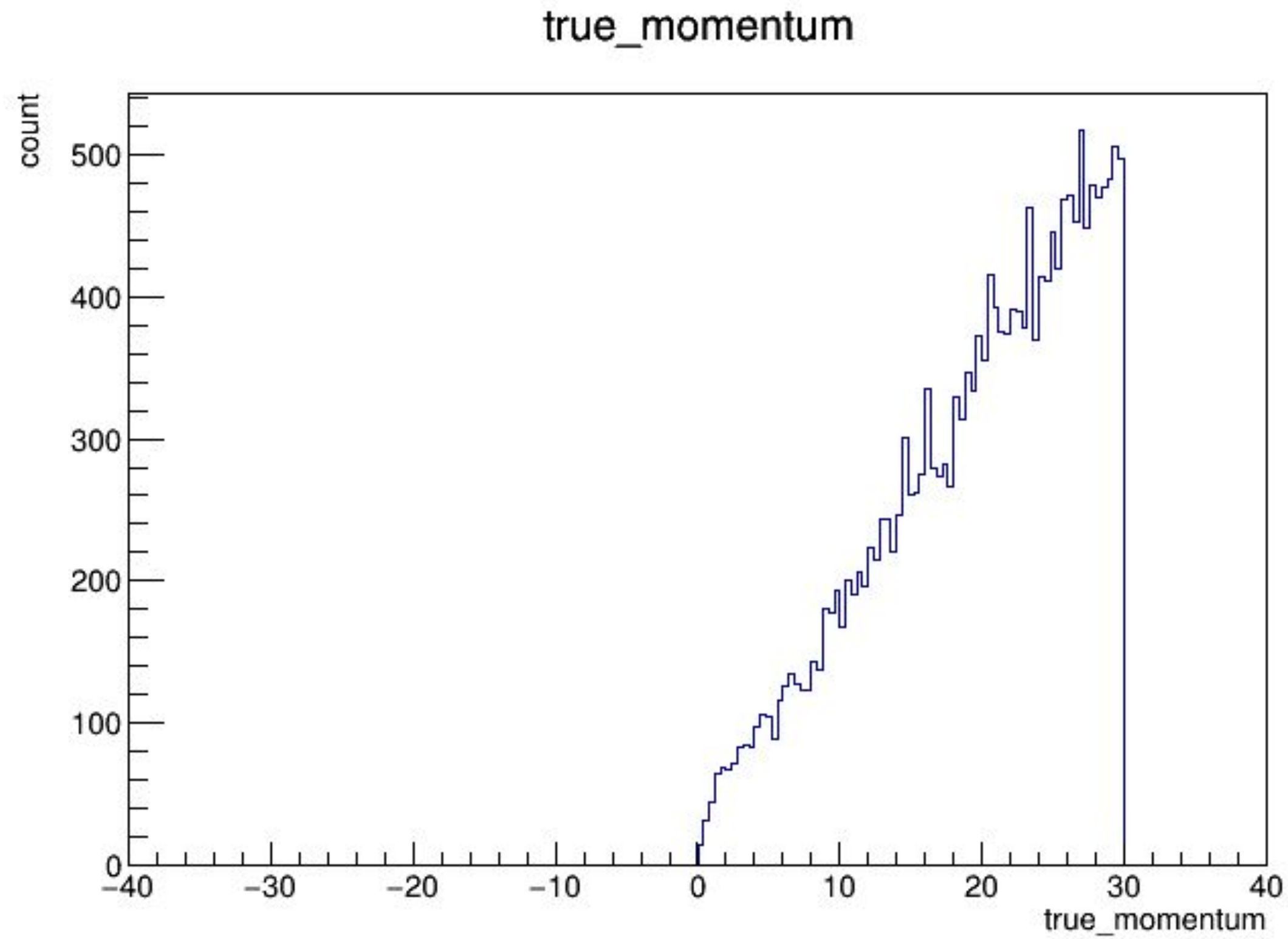
geta distribution



Kaon

FHCAL

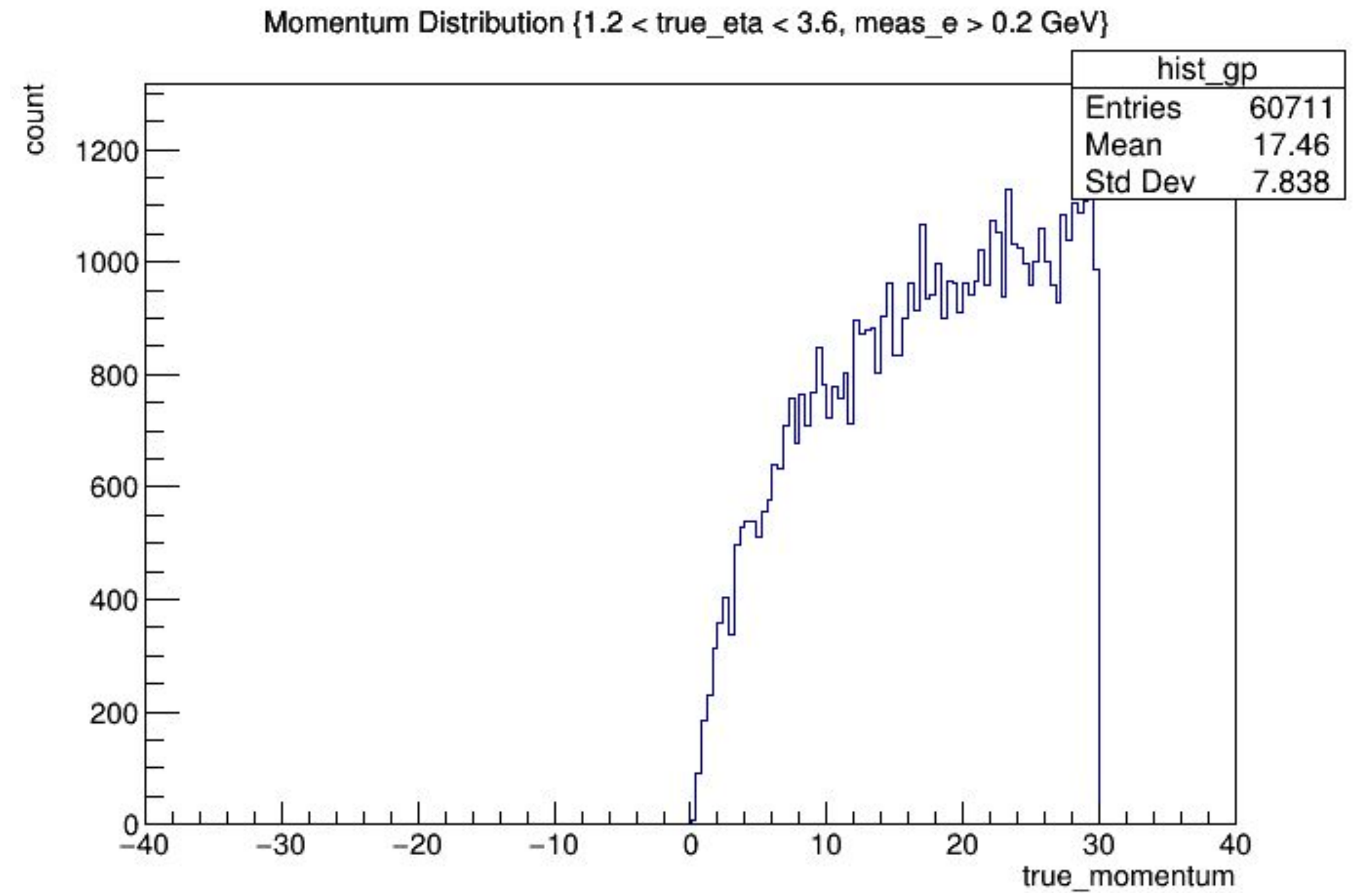
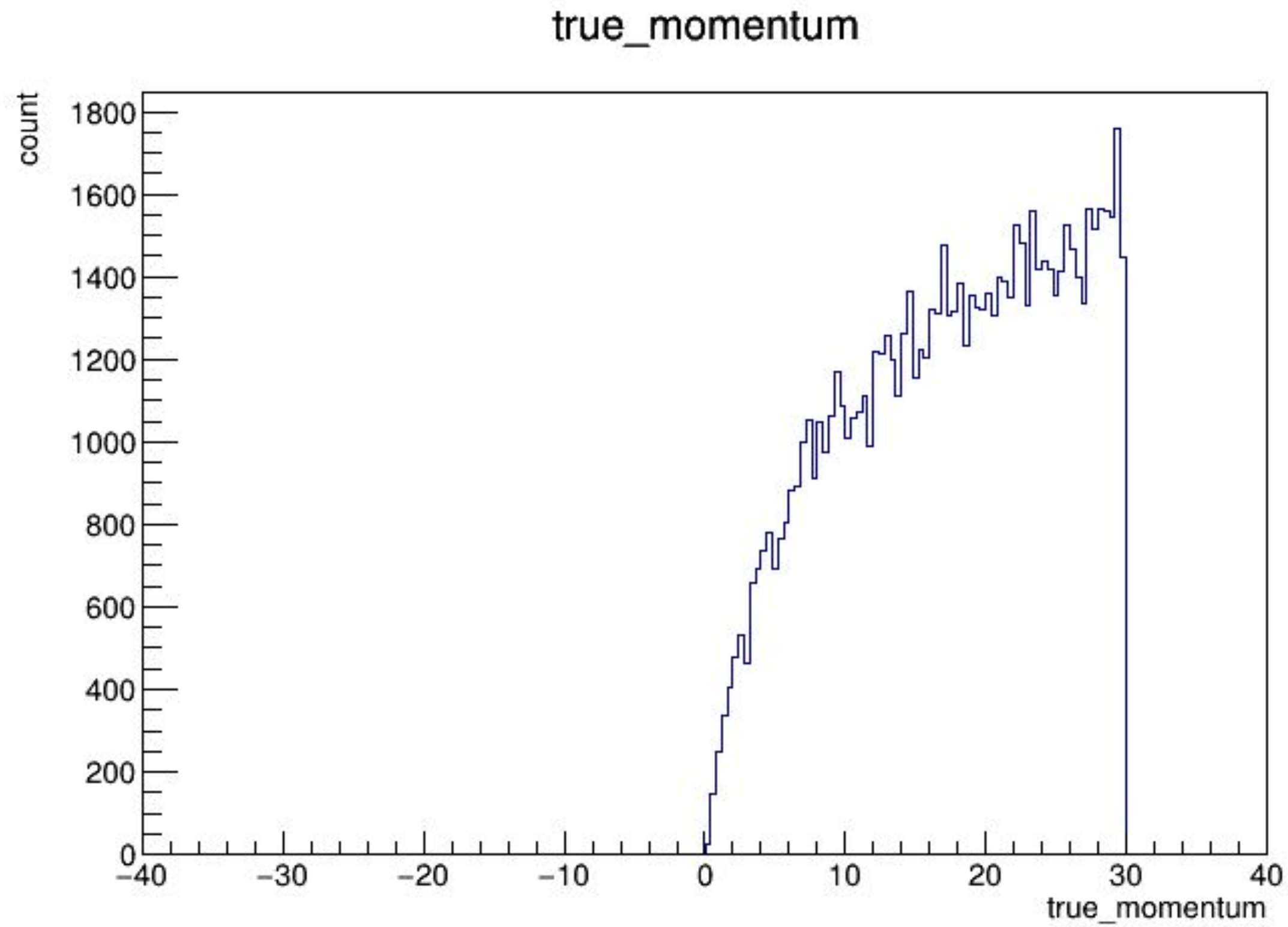
Momentum distribution



Electron

FHCAL

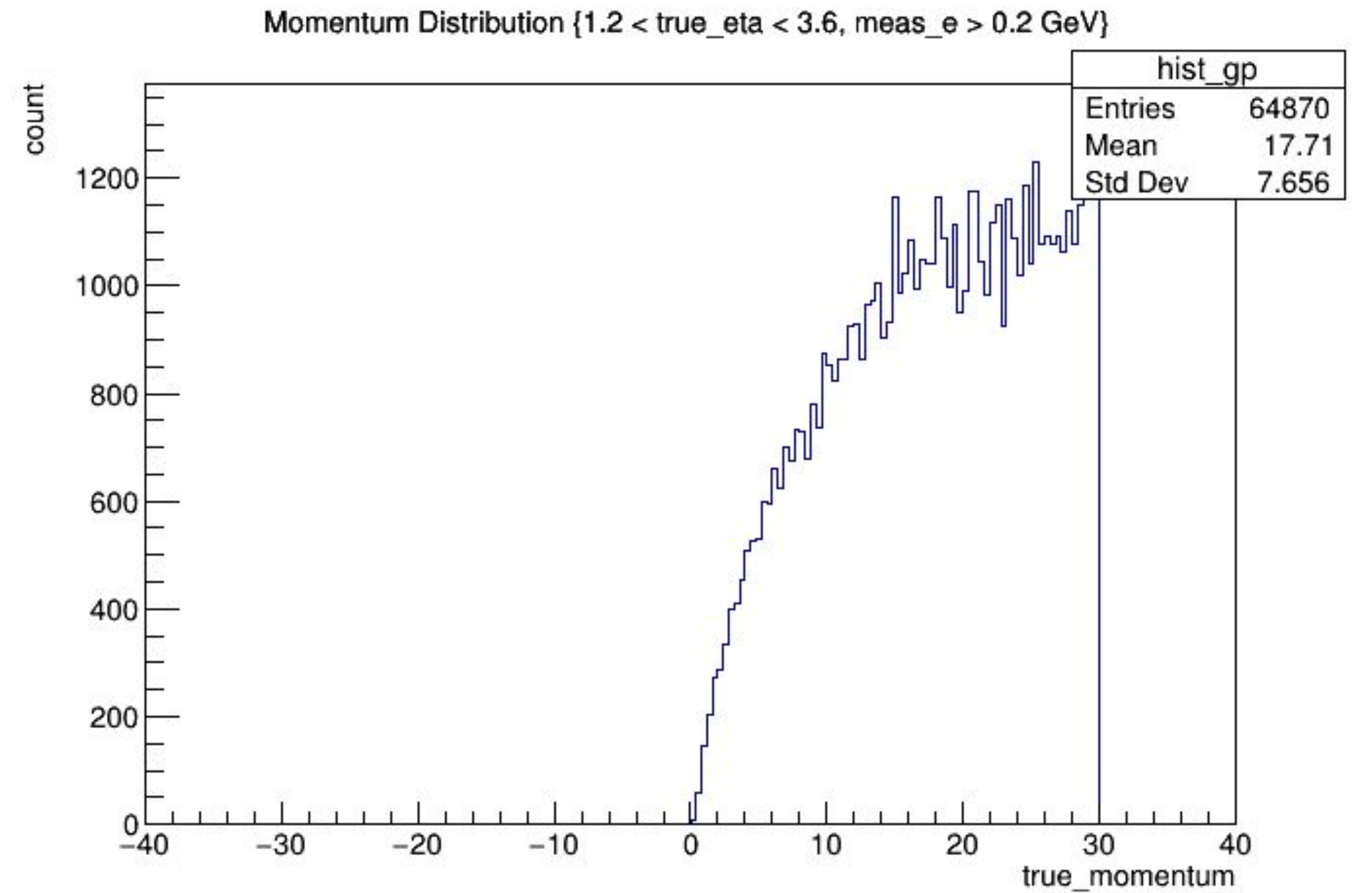
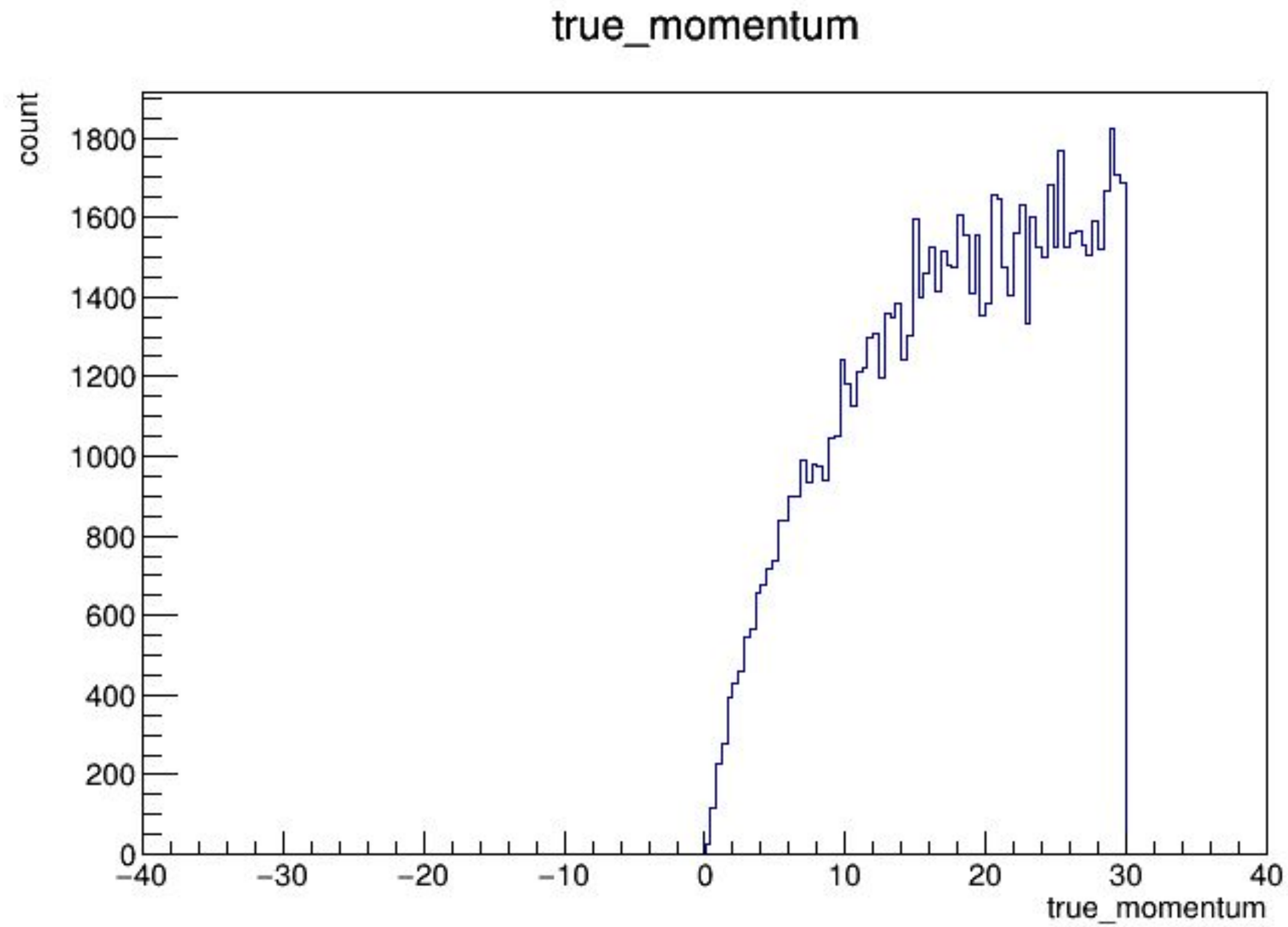
Momentum distribution



Pion

FHCAL

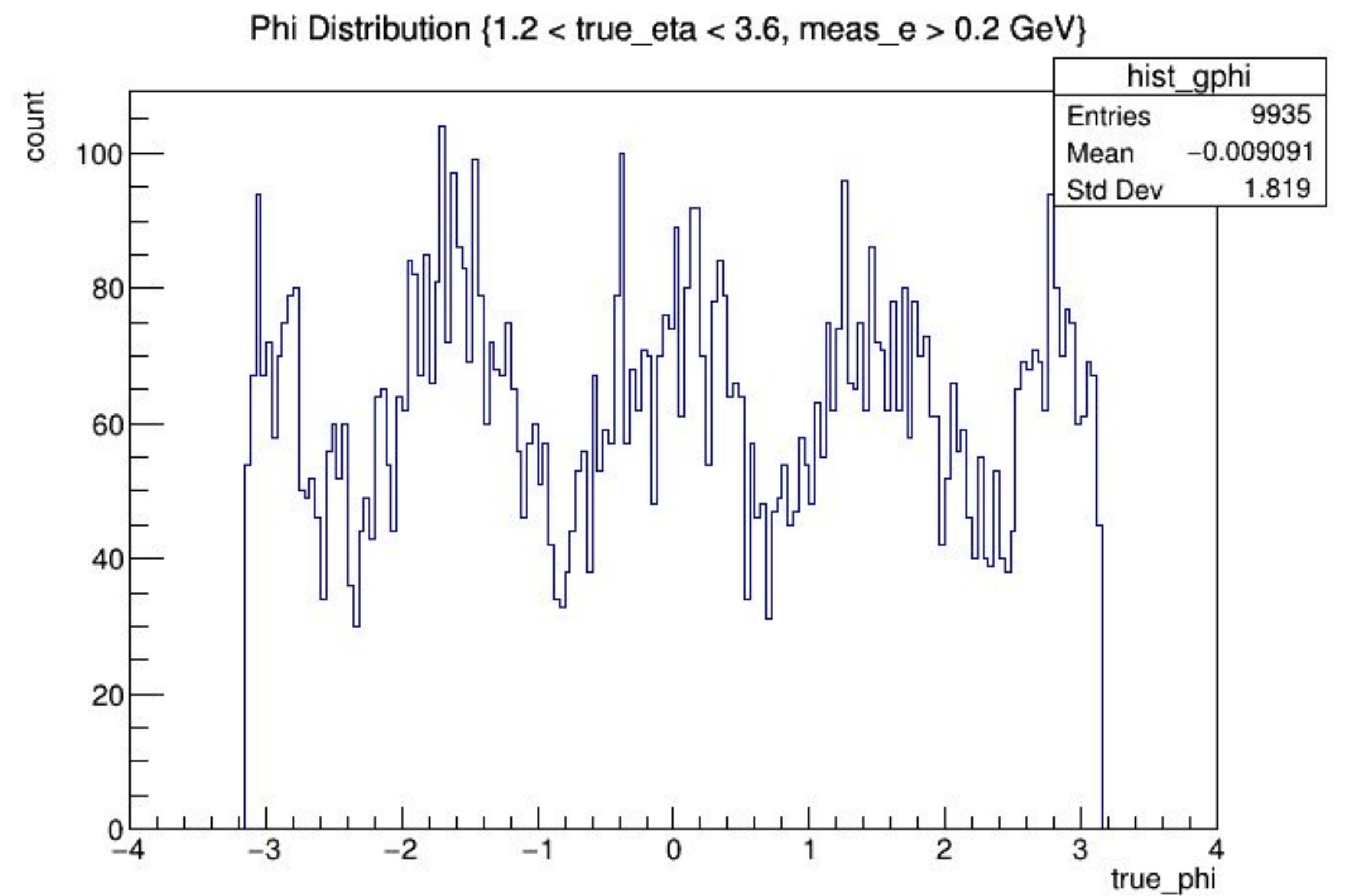
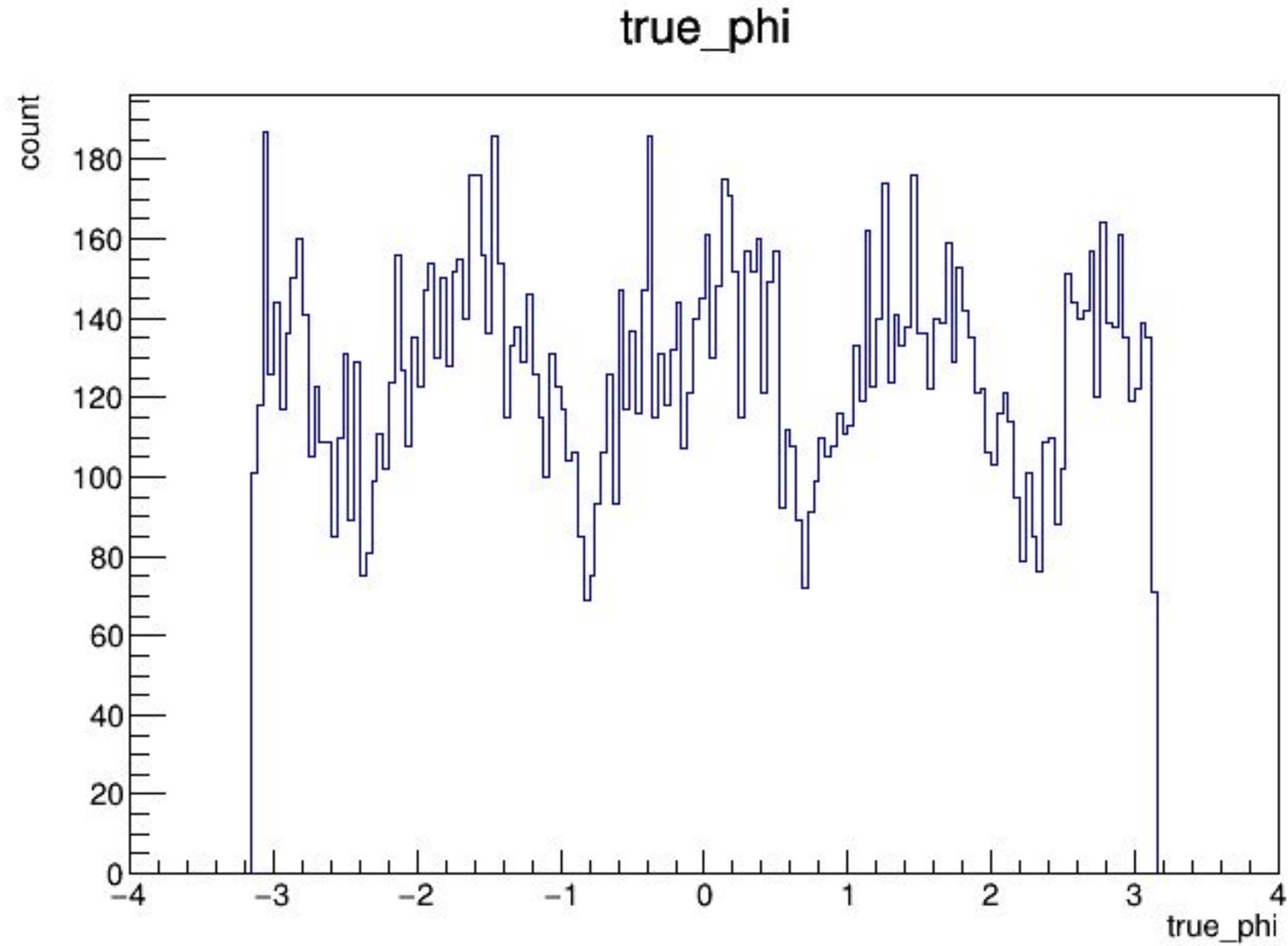
Momentum distribution



Kaon

FHCAL

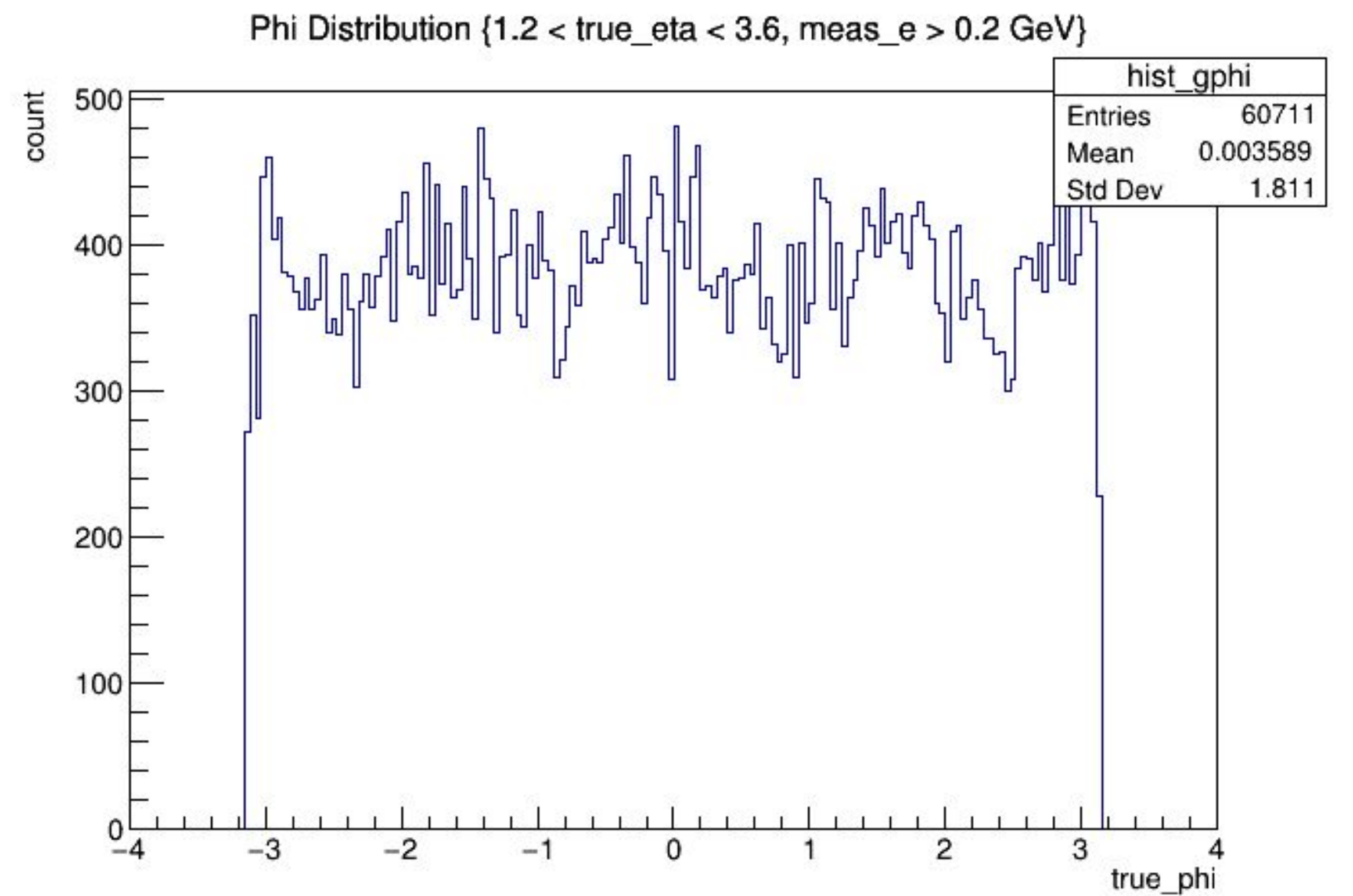
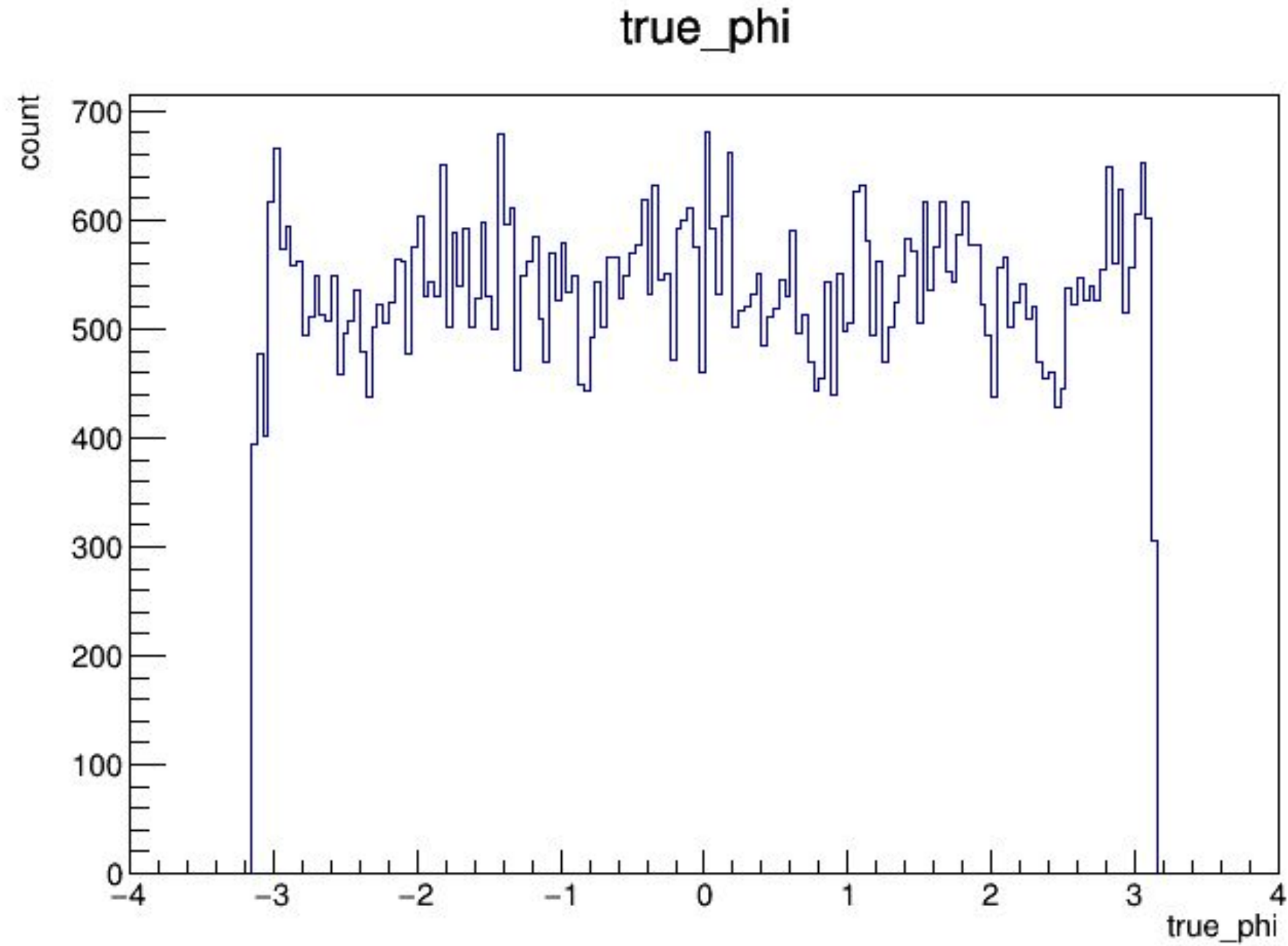
Phi distribution



Electron

FHCAL

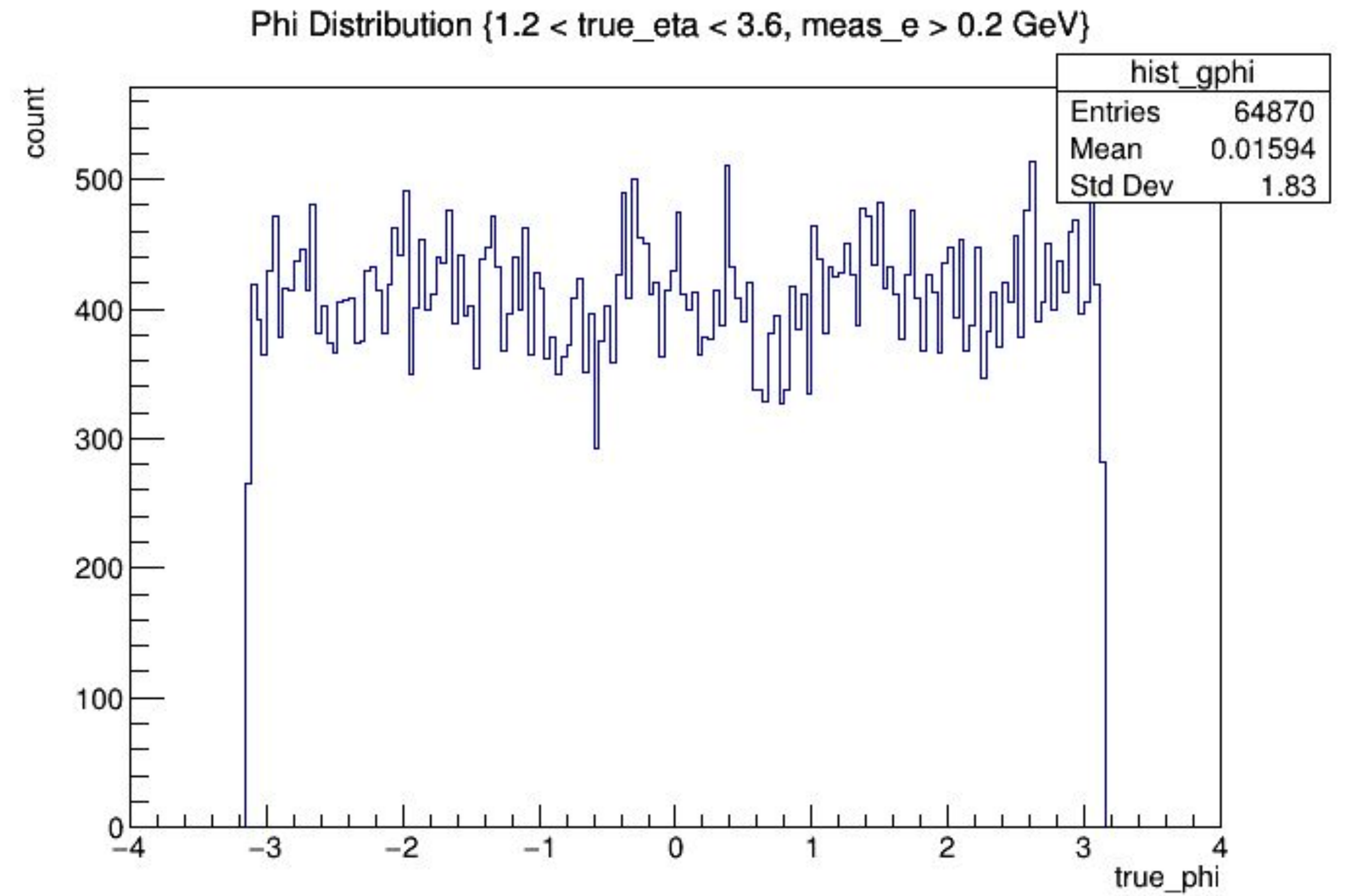
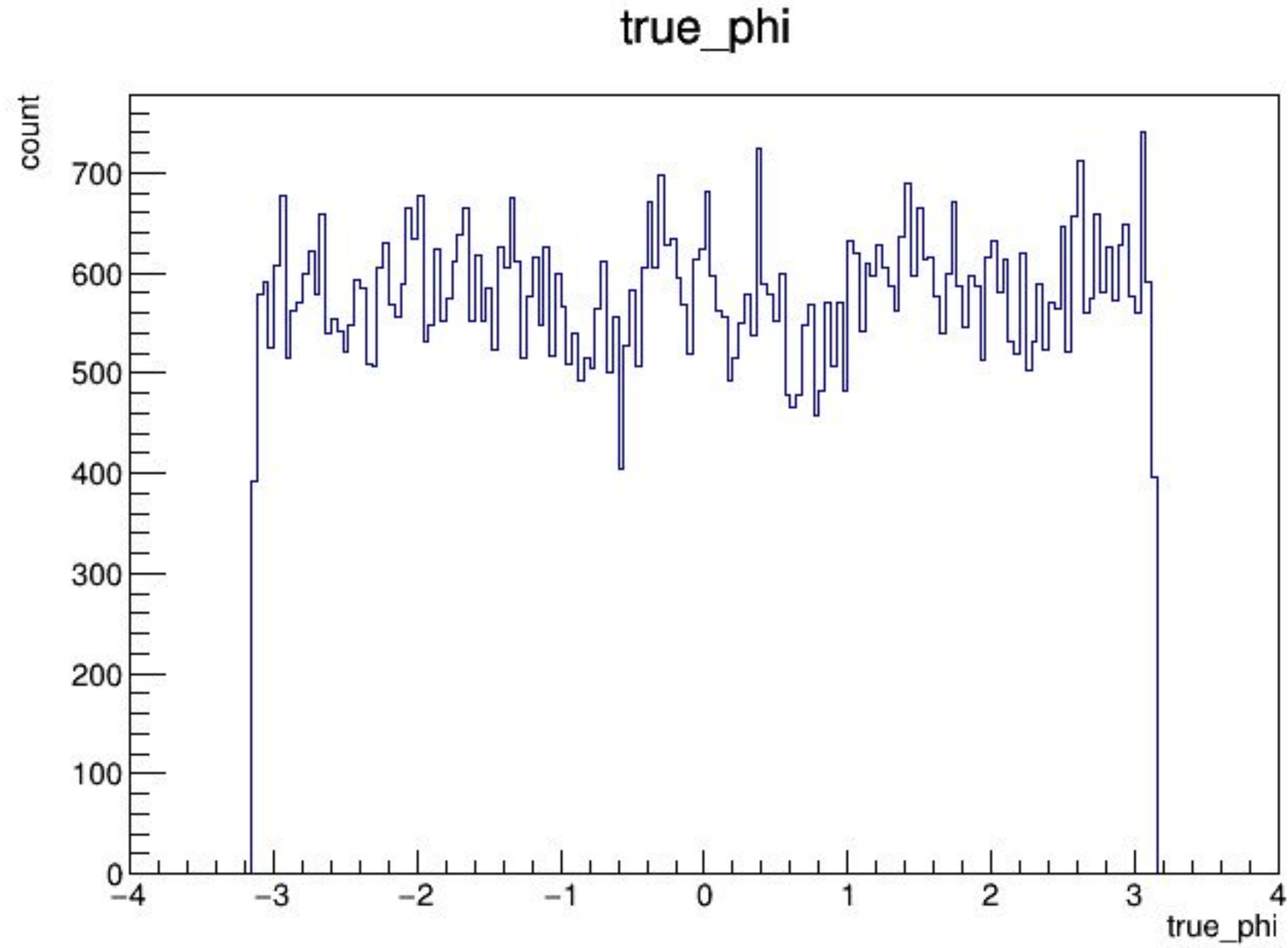
Phi distribution



Pion

FHCAL

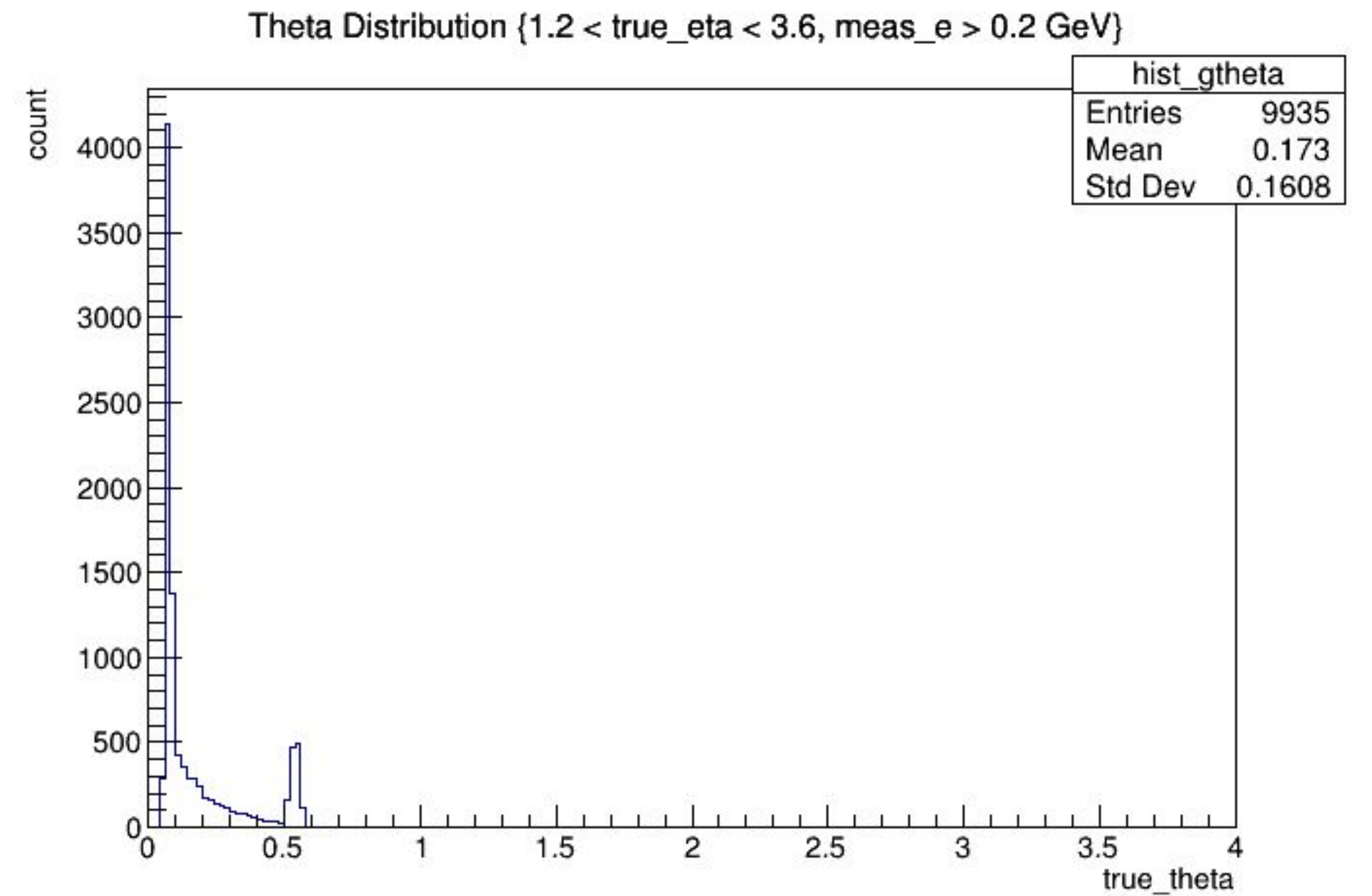
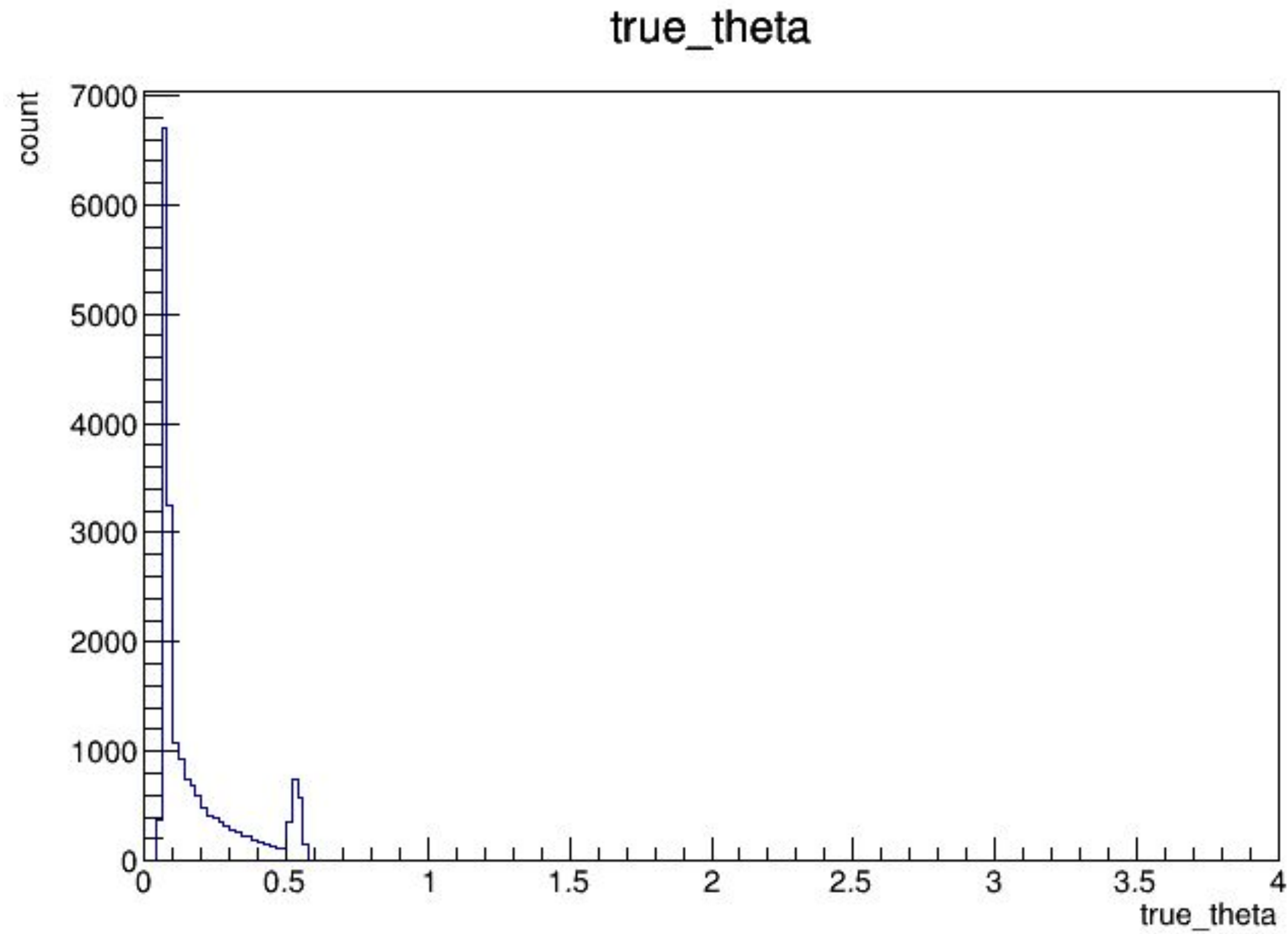
Phi distribution



Kaon

FHCAL

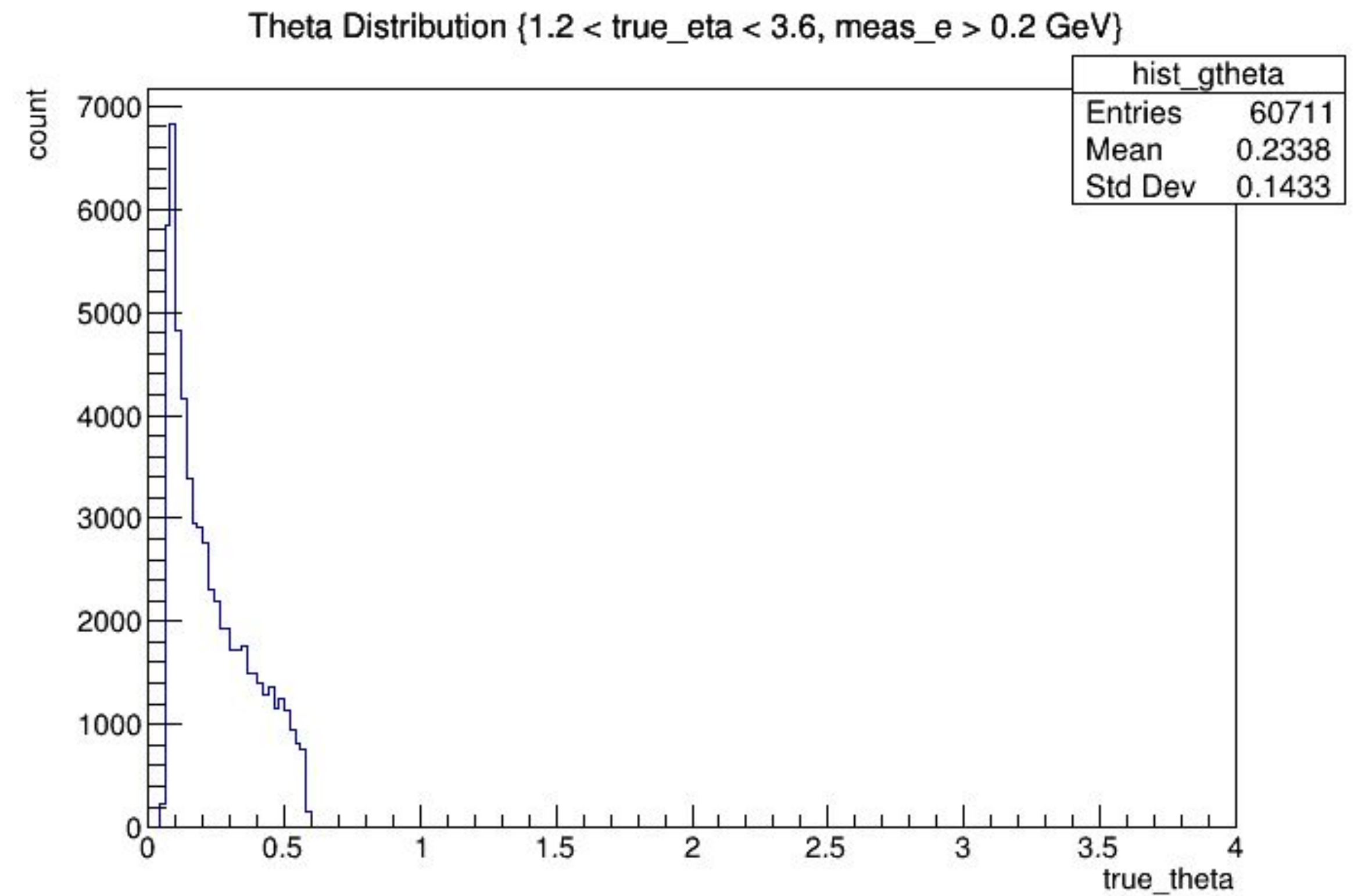
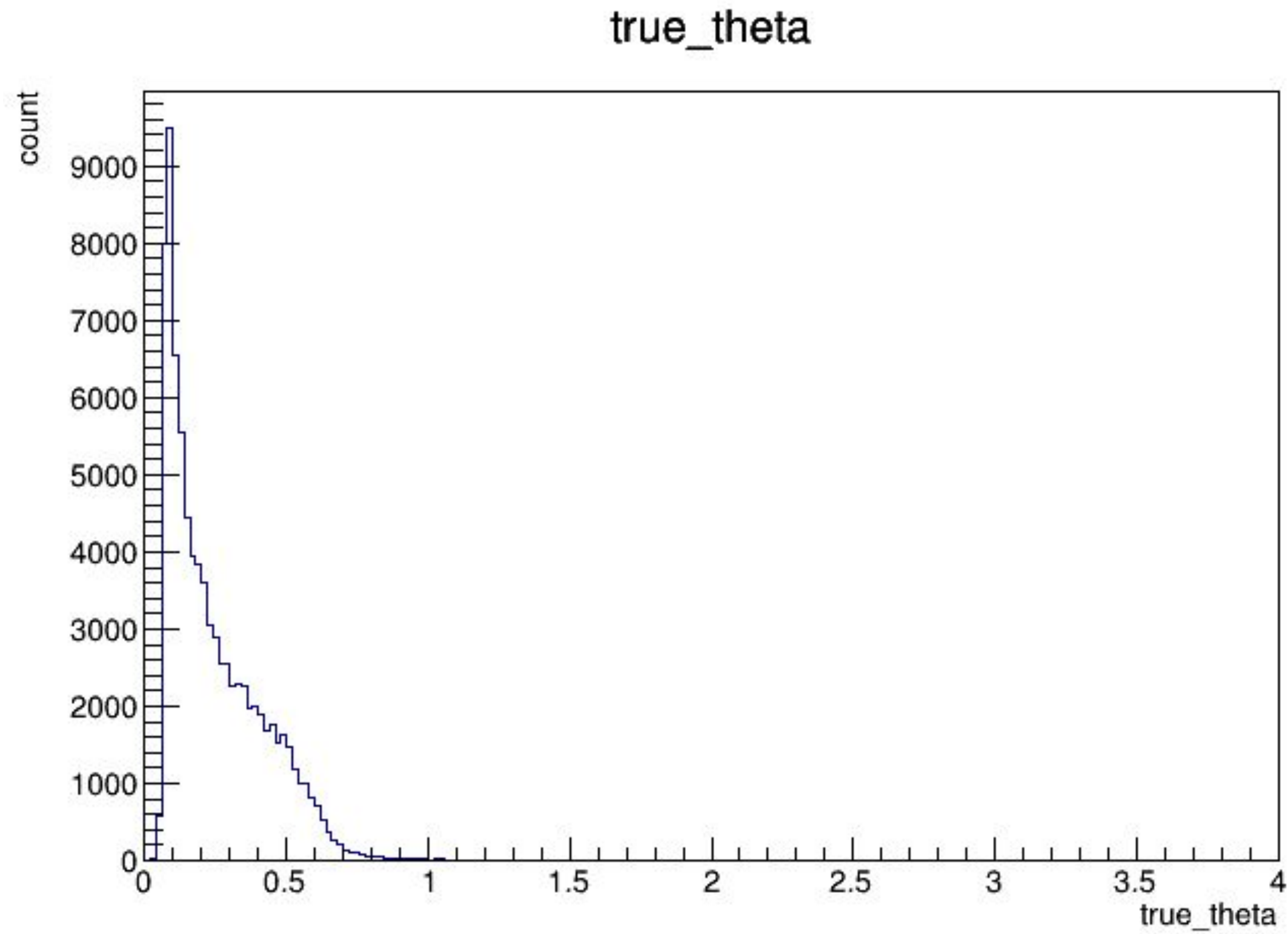
Theta distribution



Electron

FHCAL

Theta distribution

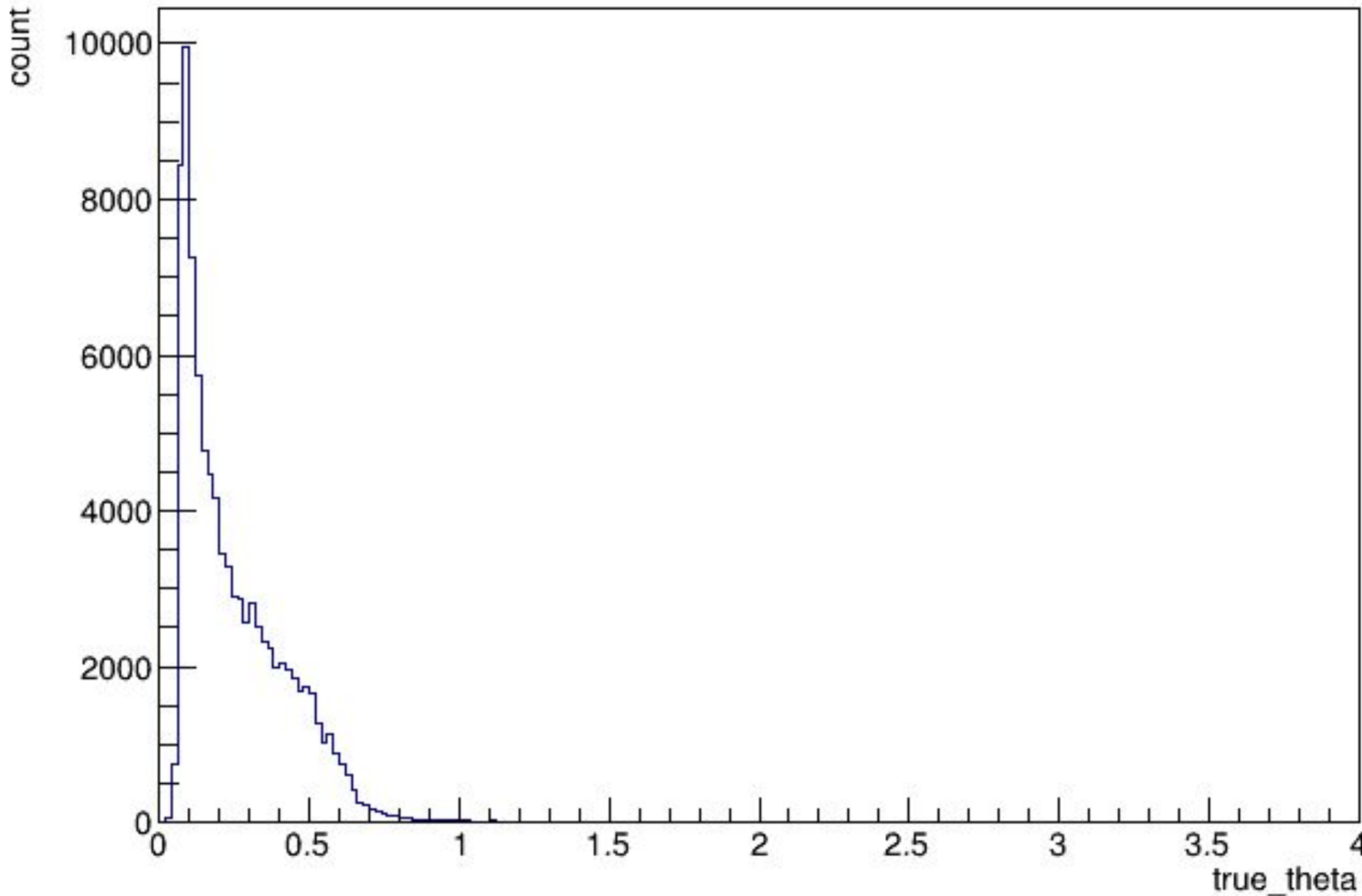


Pion

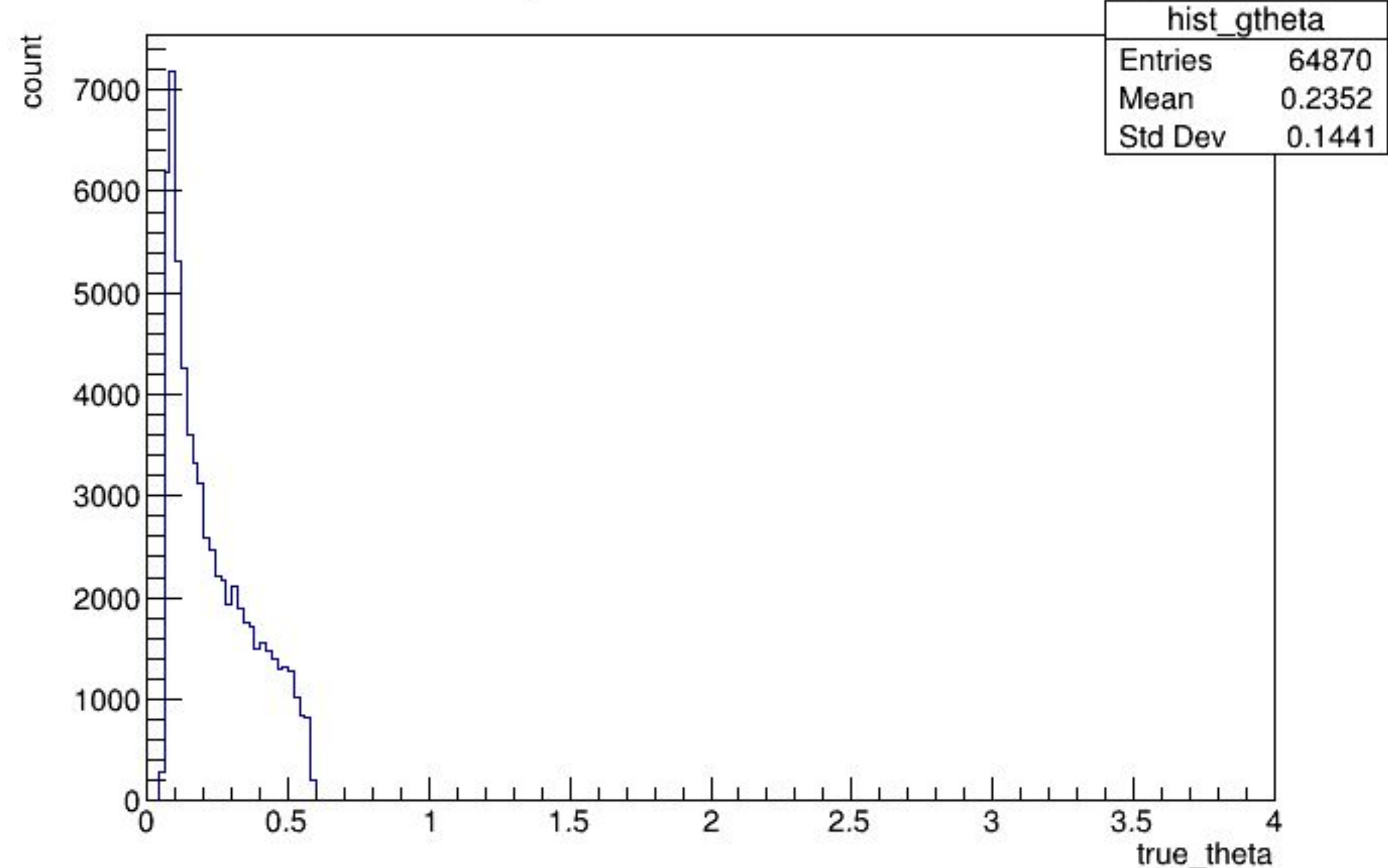
FHCAL

Theta distribution

true_theta



Theta Distribution {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

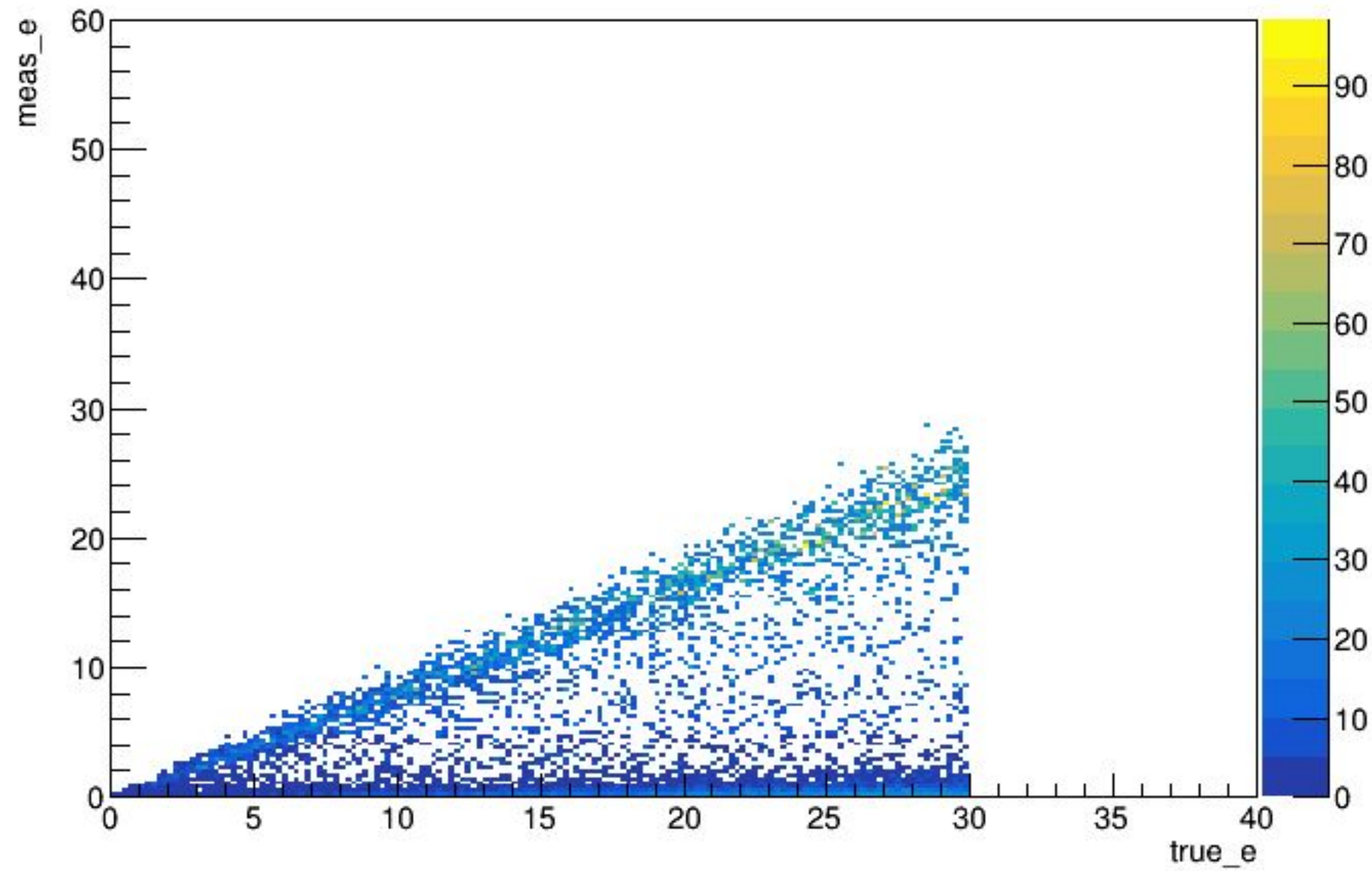


Kaon

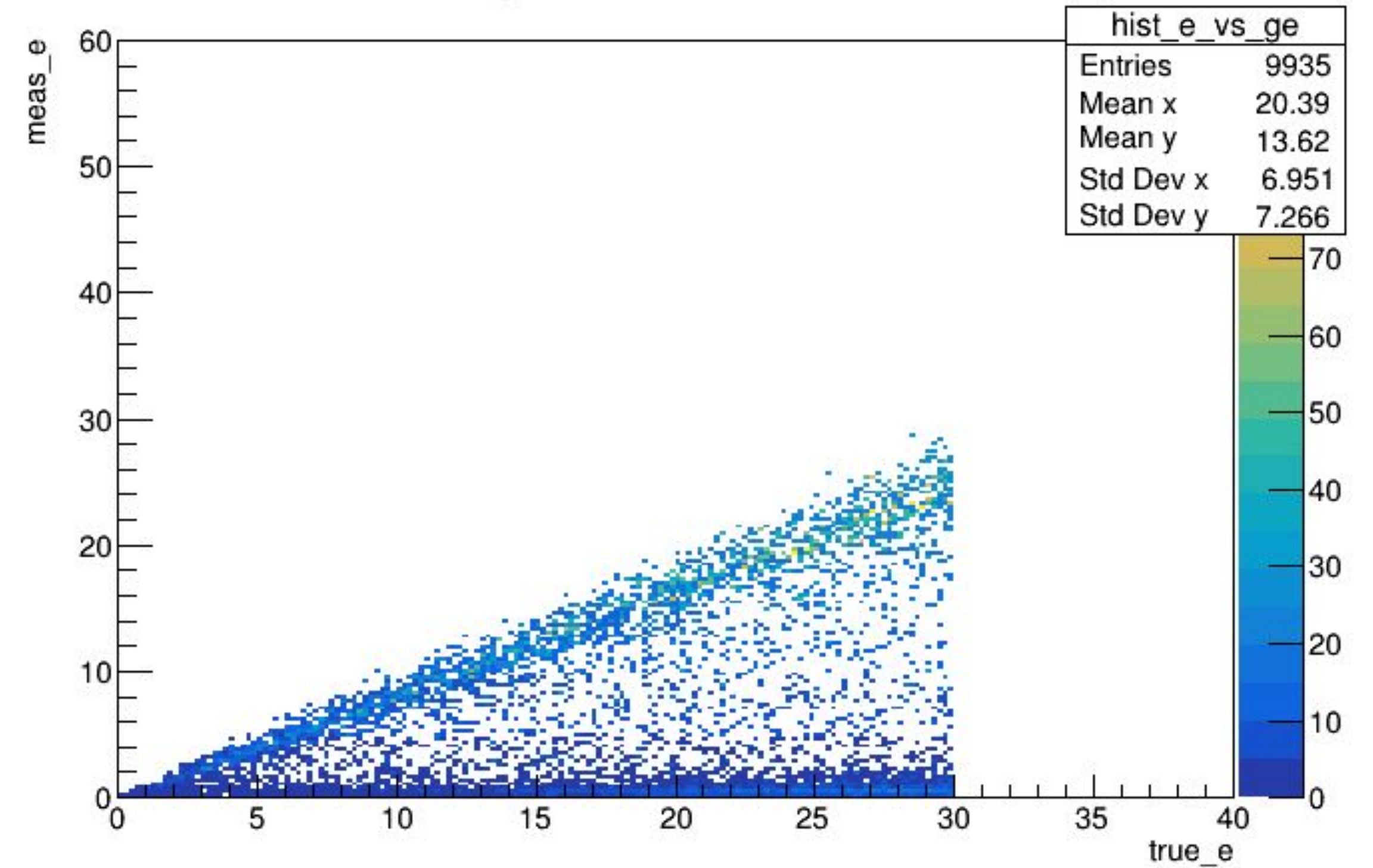
FHCAL

e vs ge

meas_e vs true_e



meas_e vs true_e {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

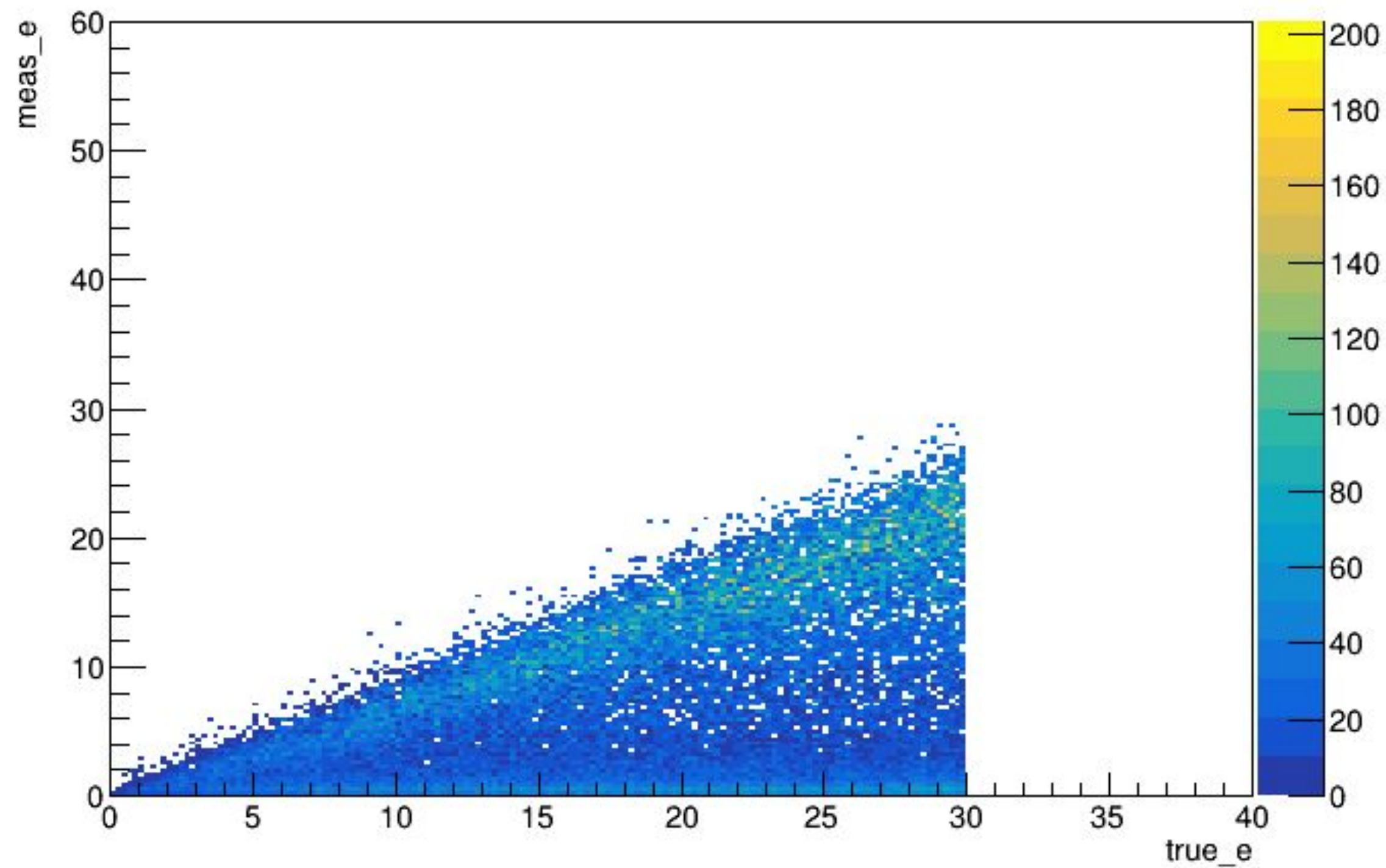


Electron

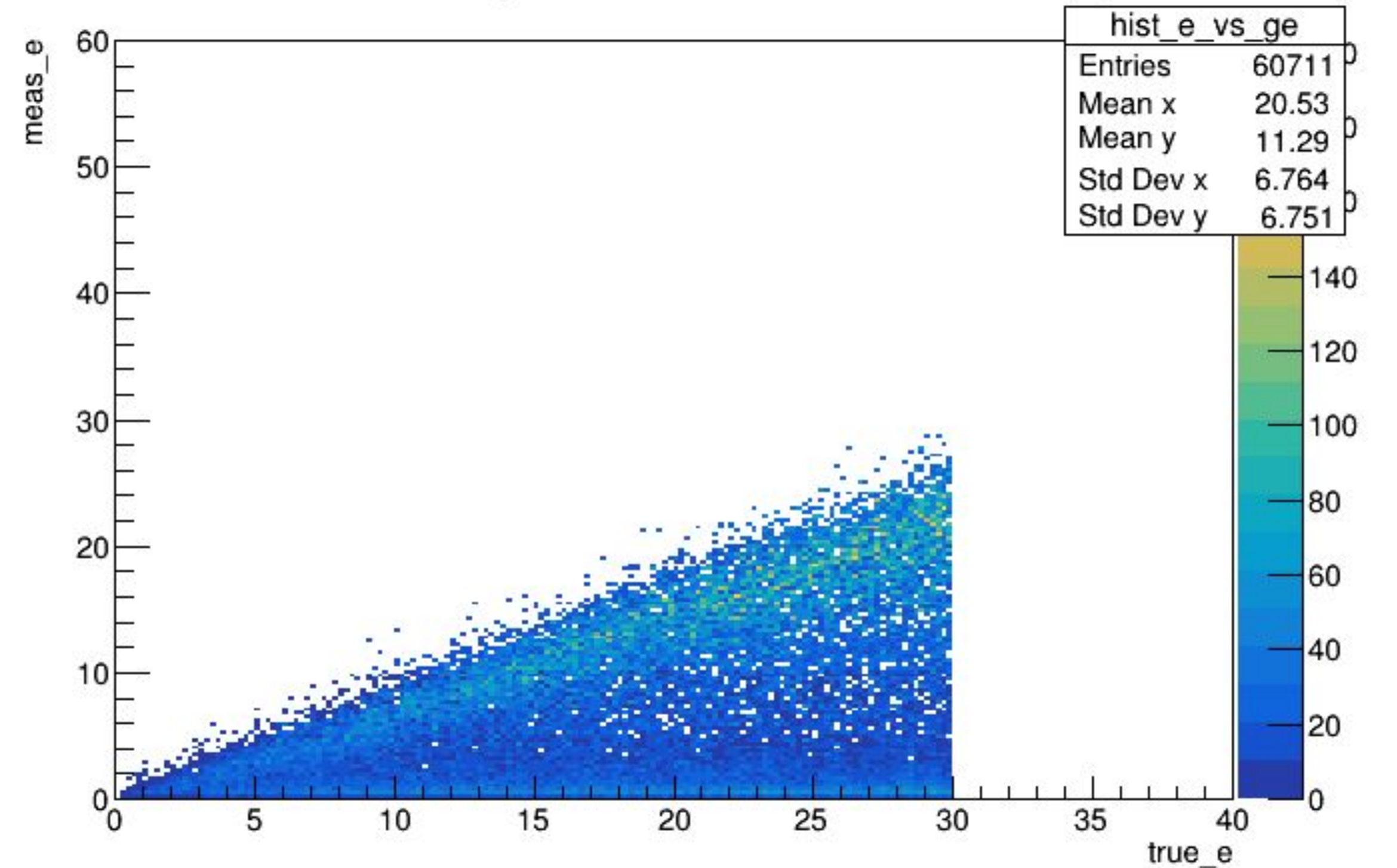
FHCAL

e vs ge

meas_e vs true_e



meas_e vs true_e {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

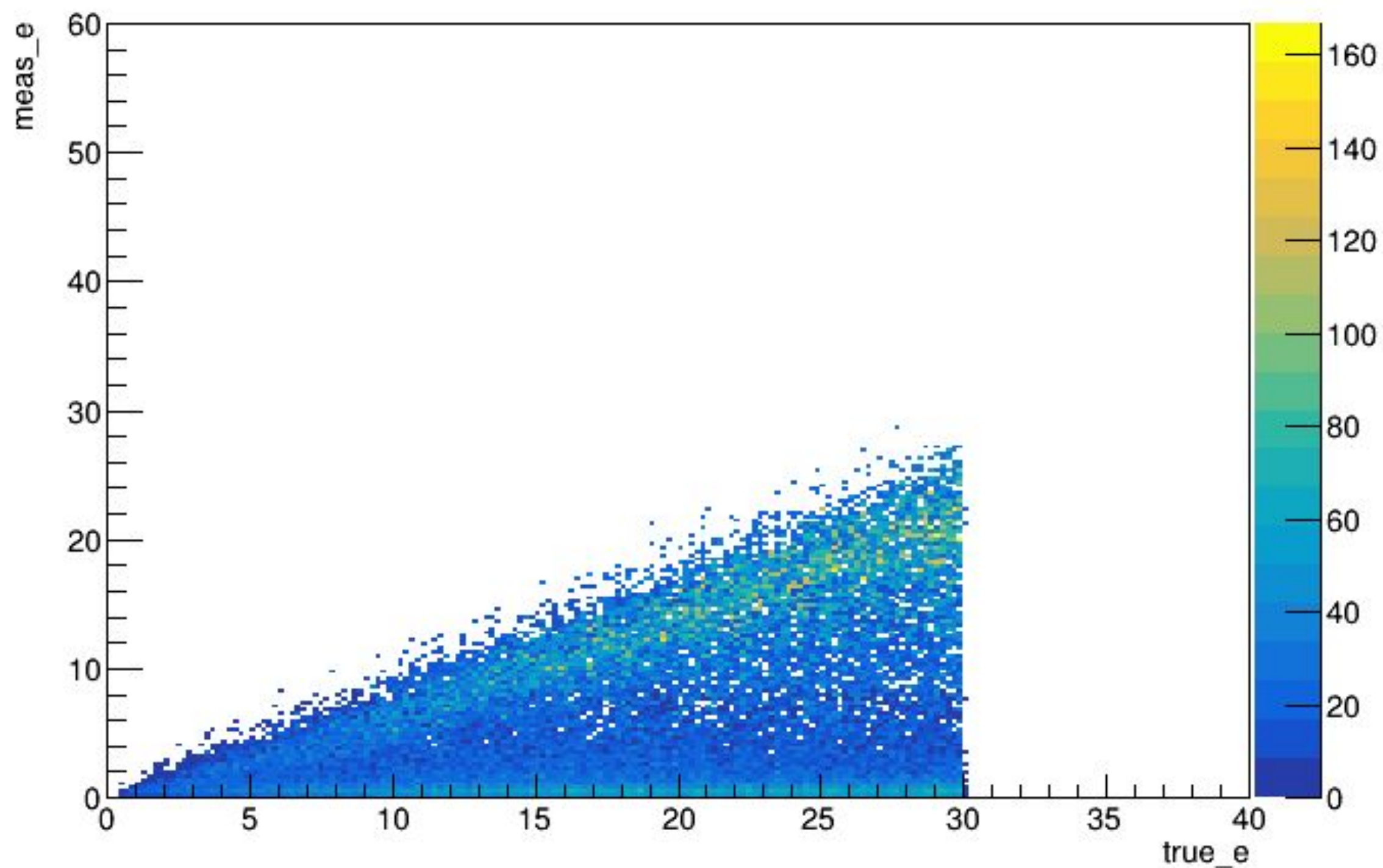


Pion

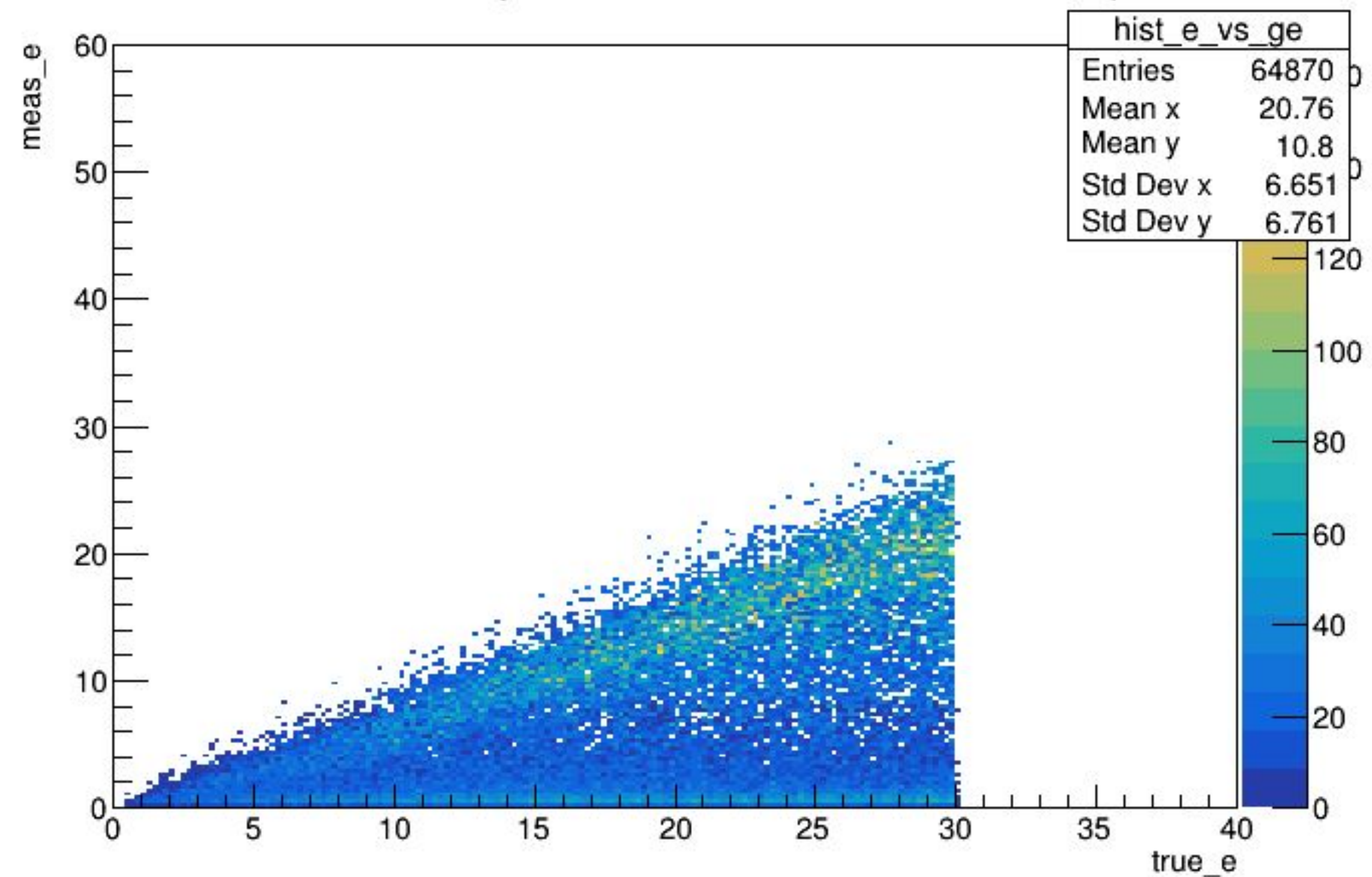
FHCAL

e vs ge

meas_e vs true_e



meas_e vs true_e {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

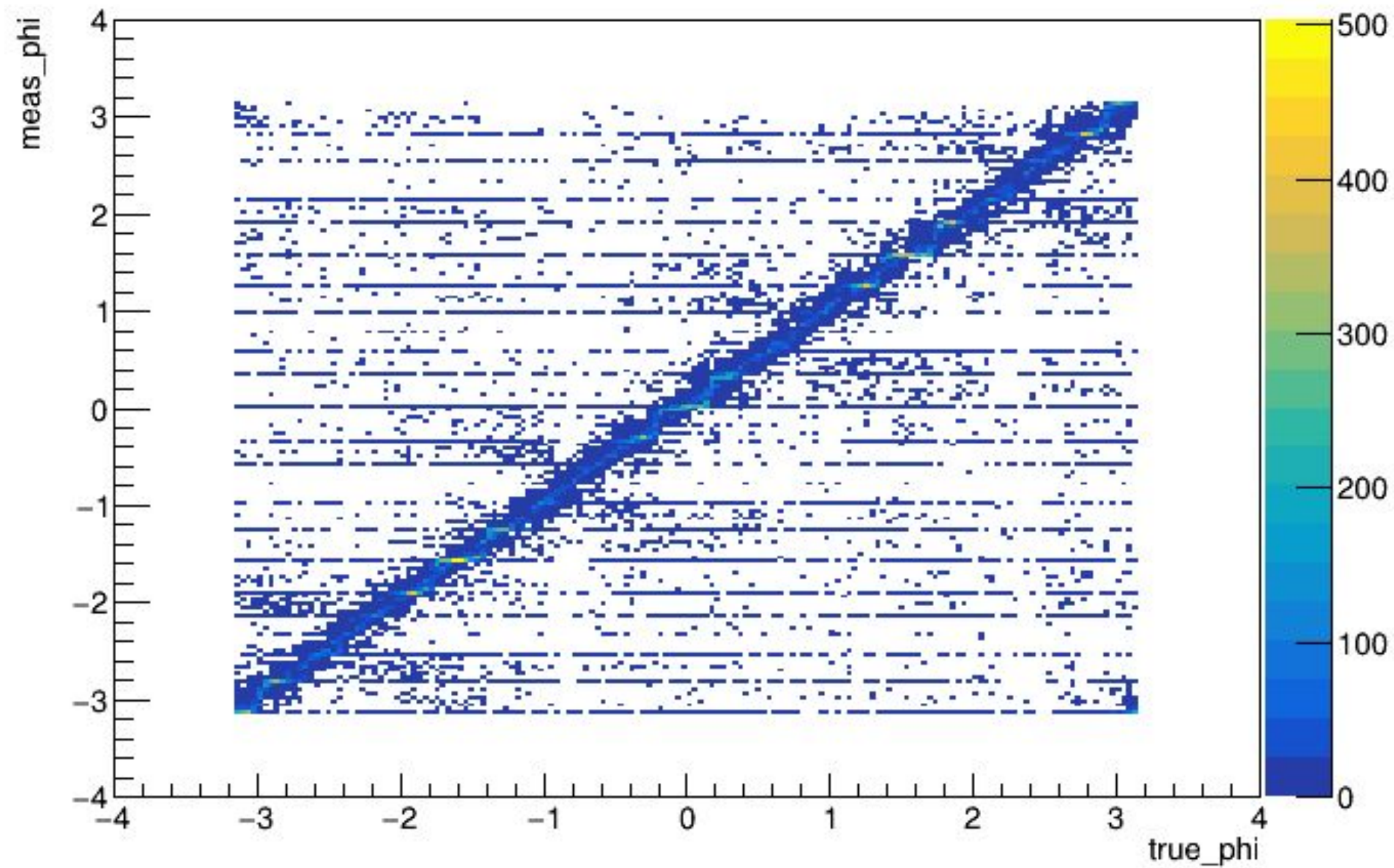


Kaon

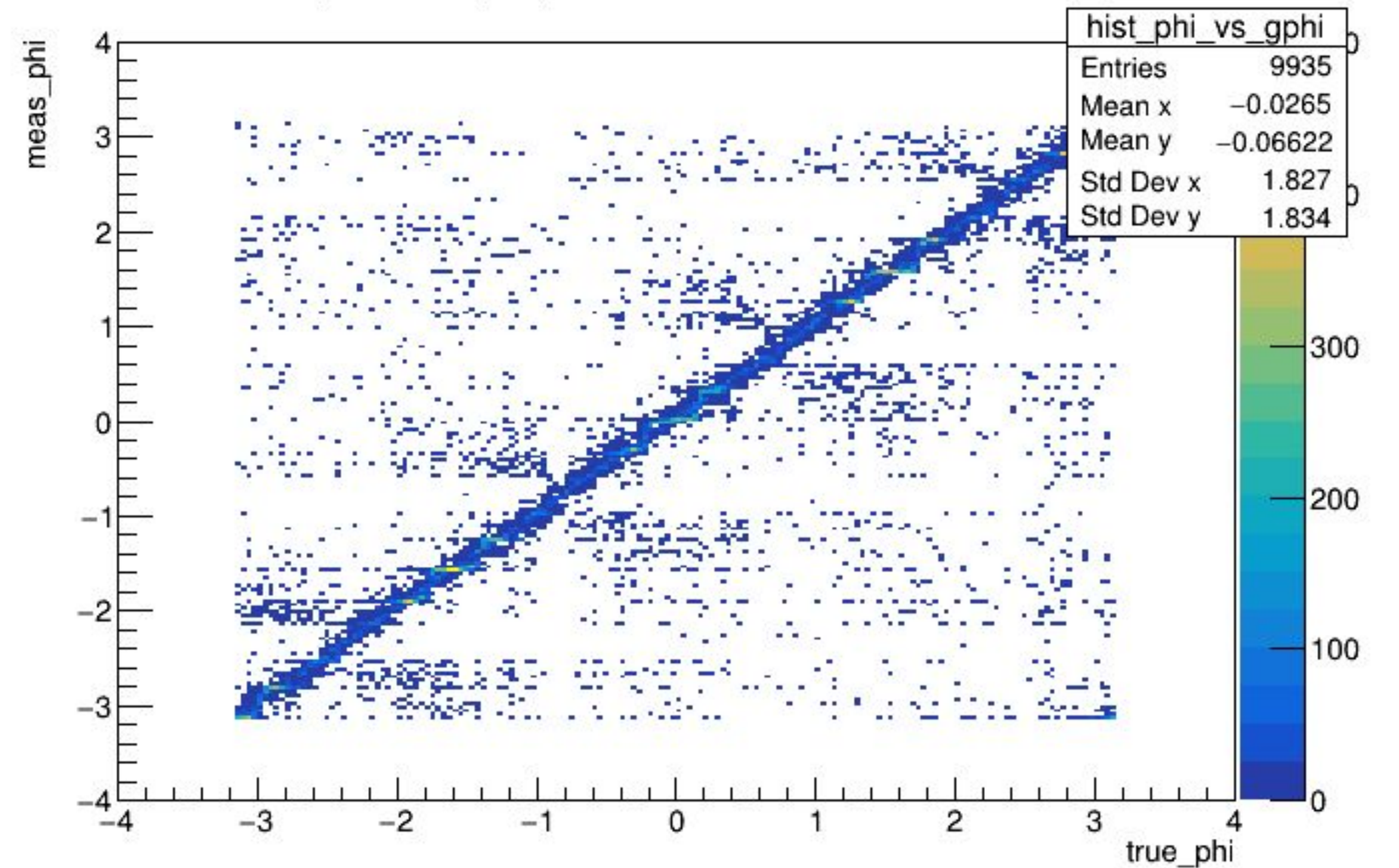
FHCAL

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

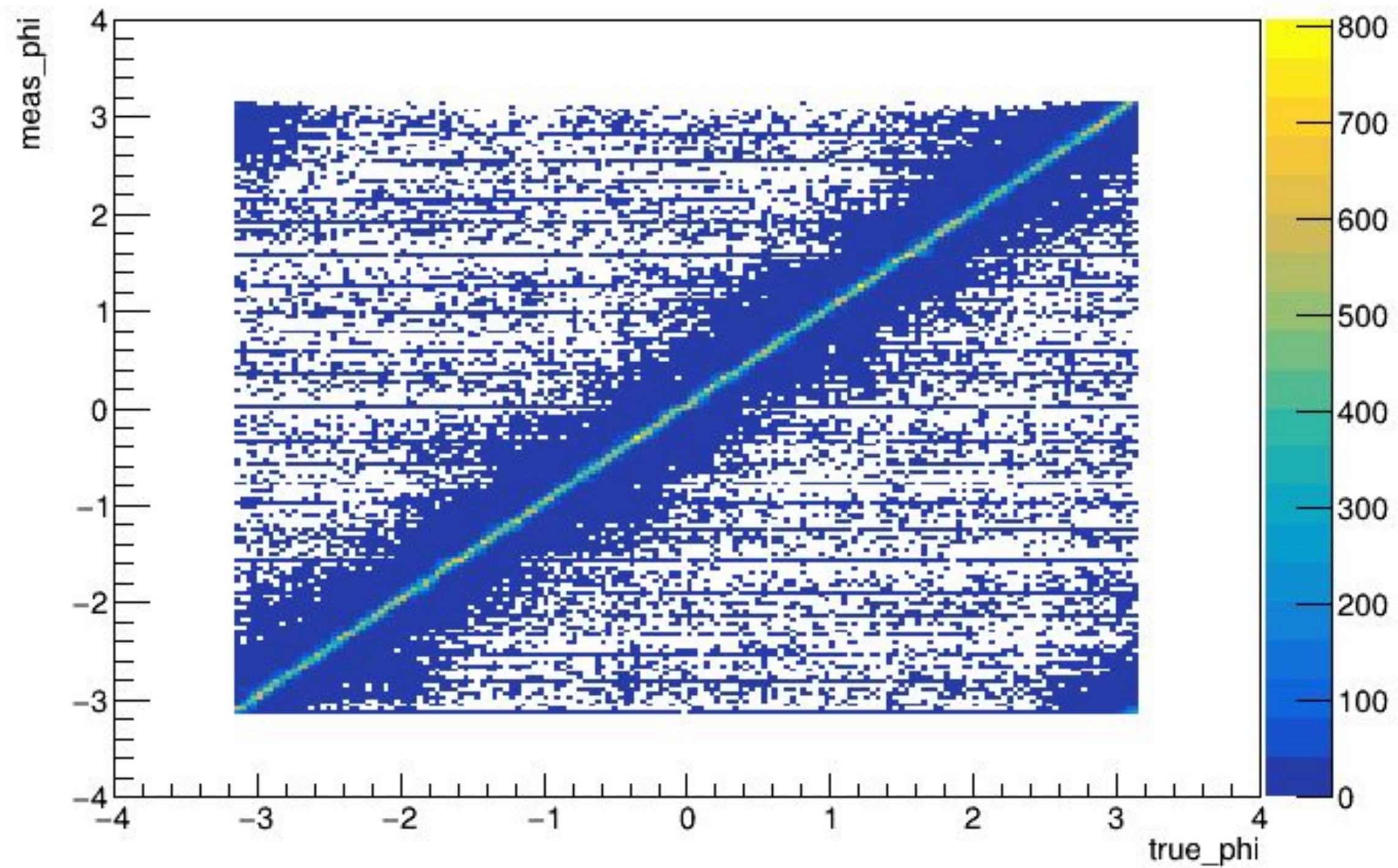


Electron

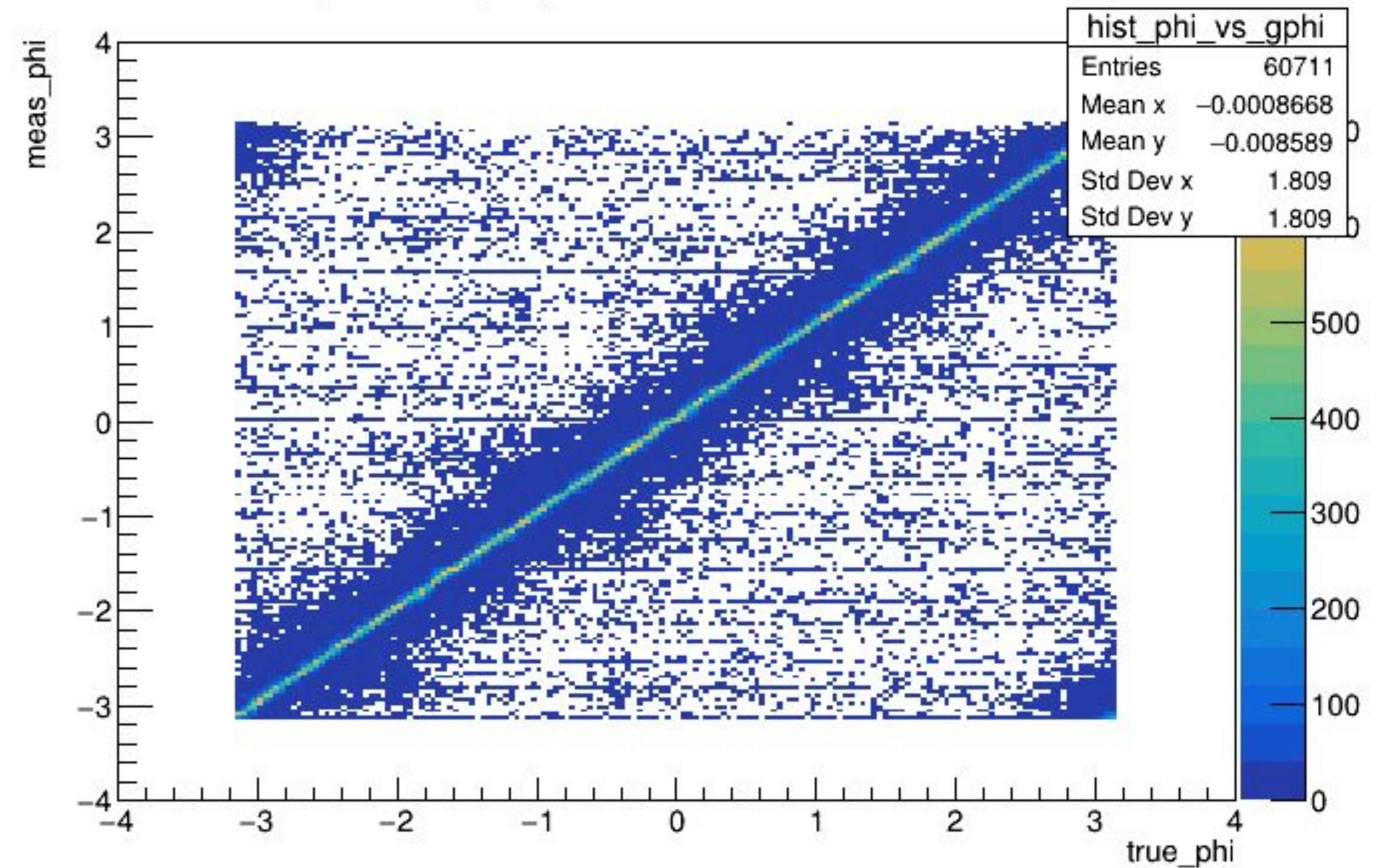
FHCAL

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

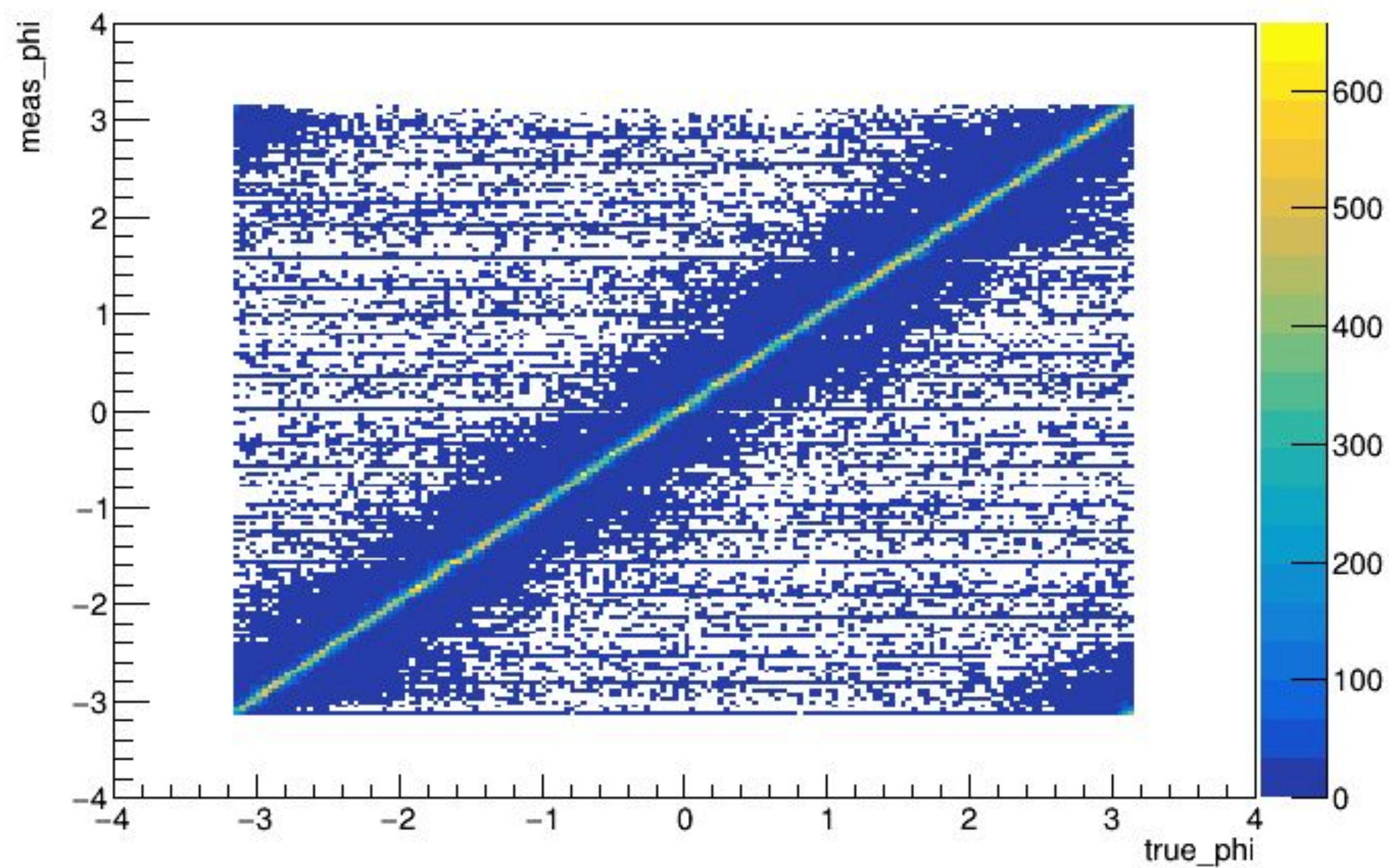


Pion

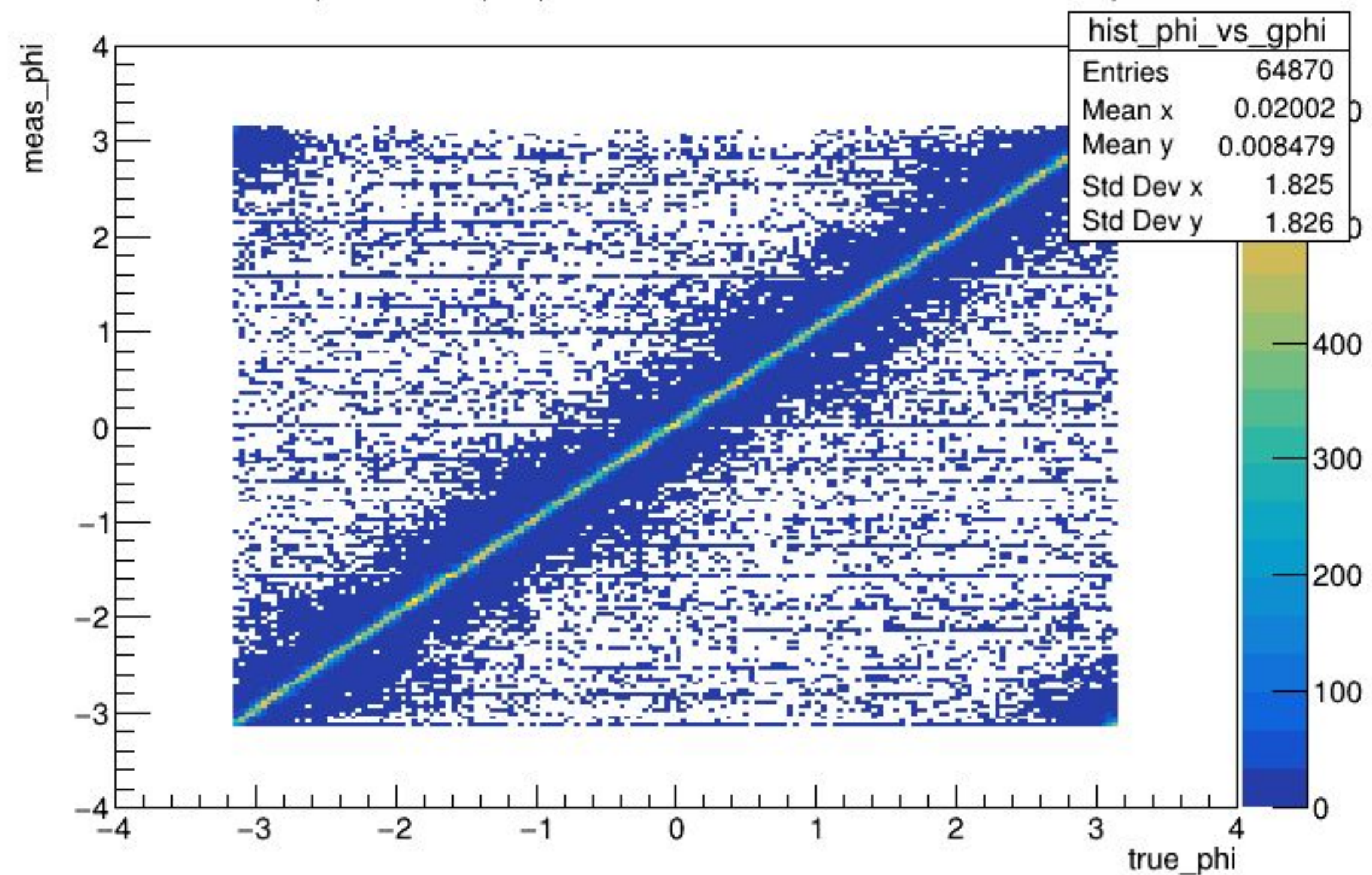
FHCAL

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

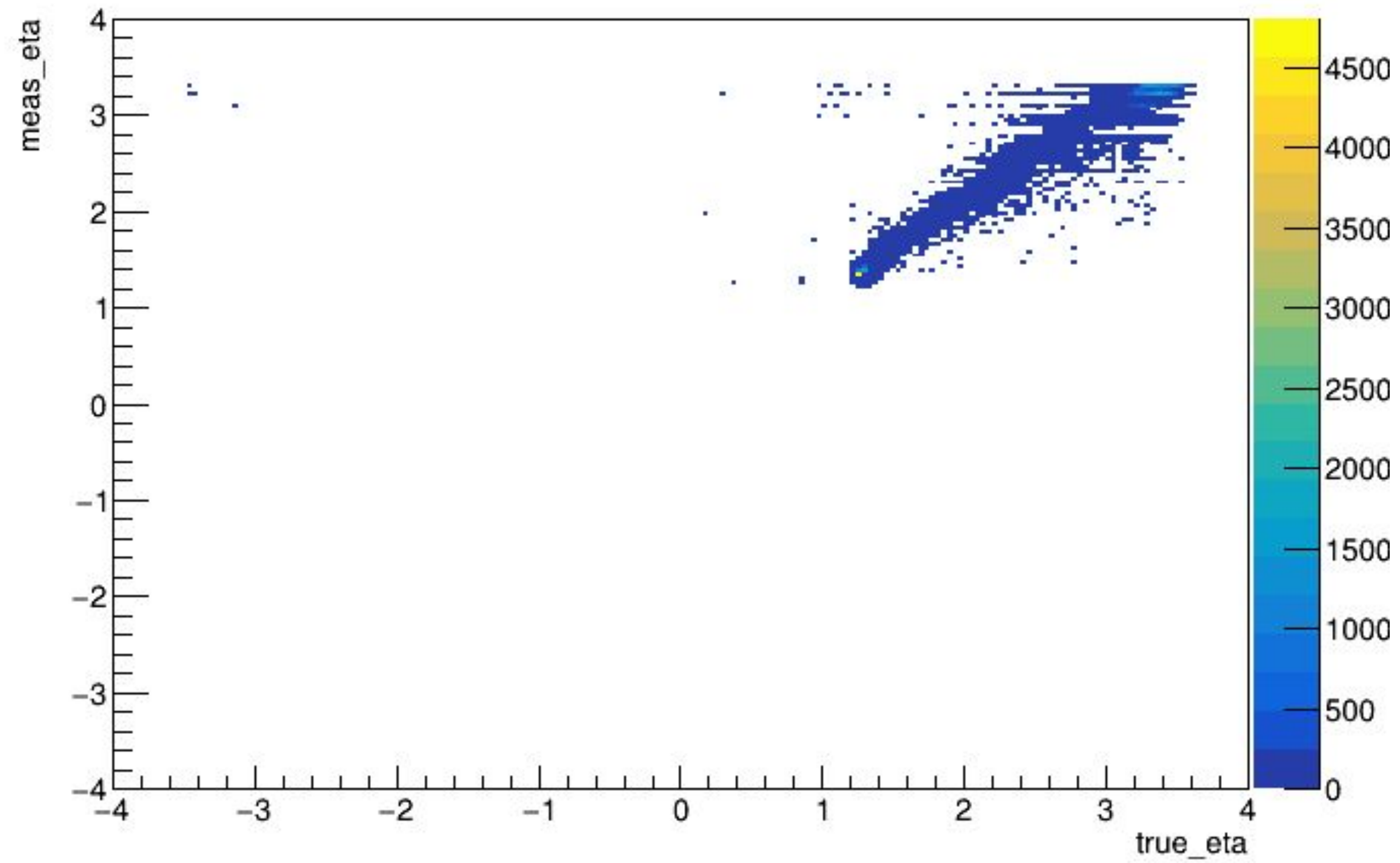


Kaon

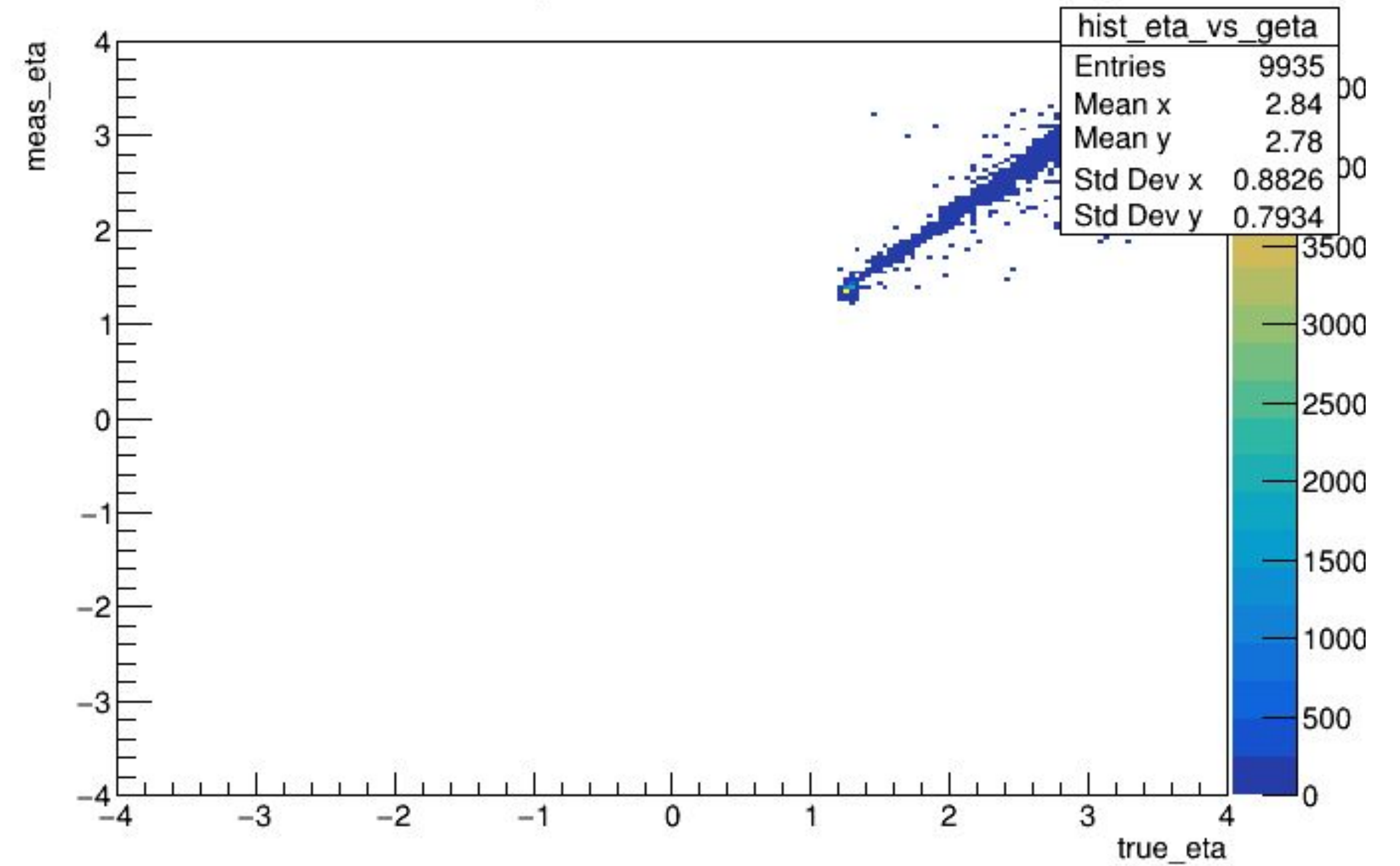
FHCAL

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

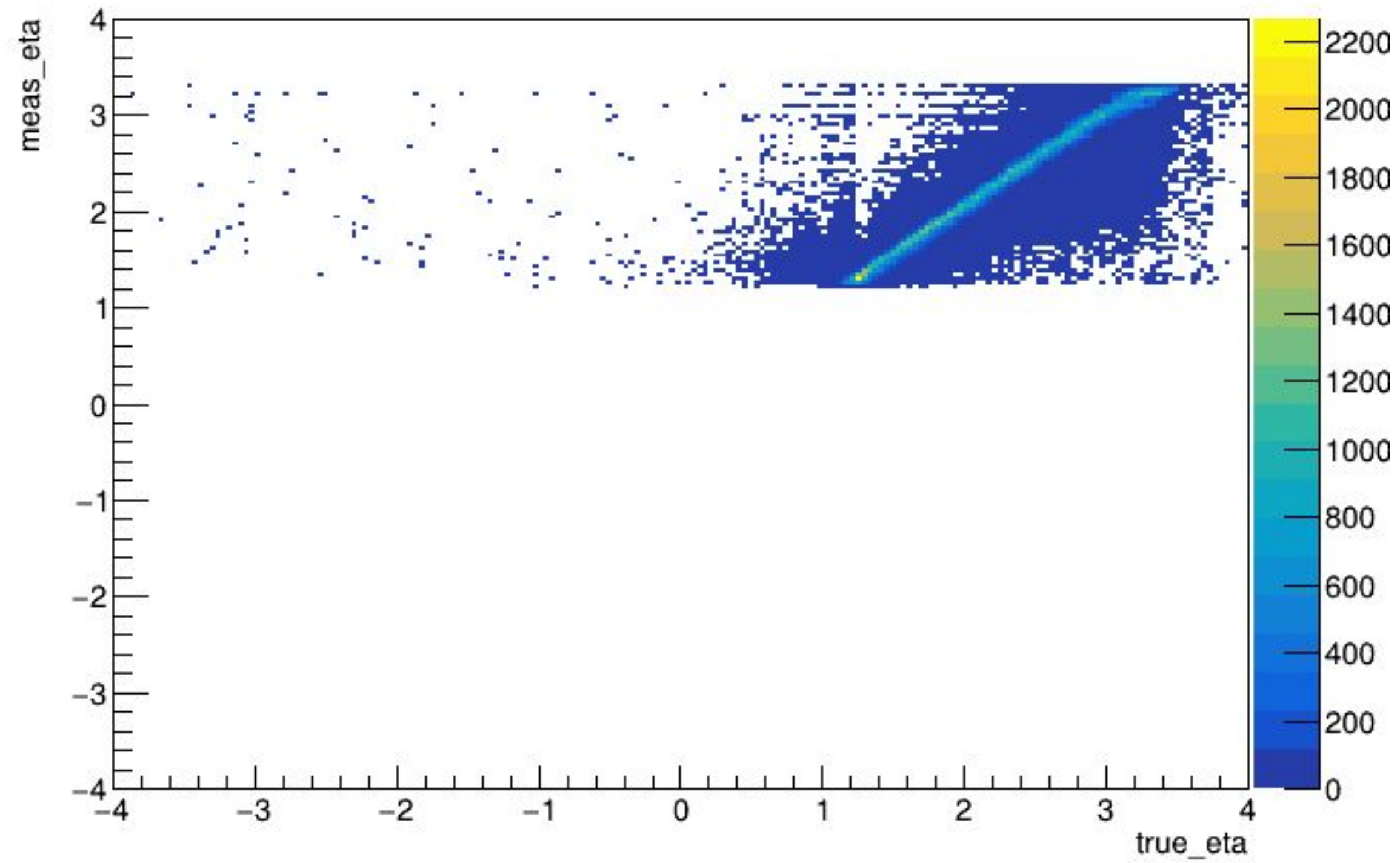


Electron

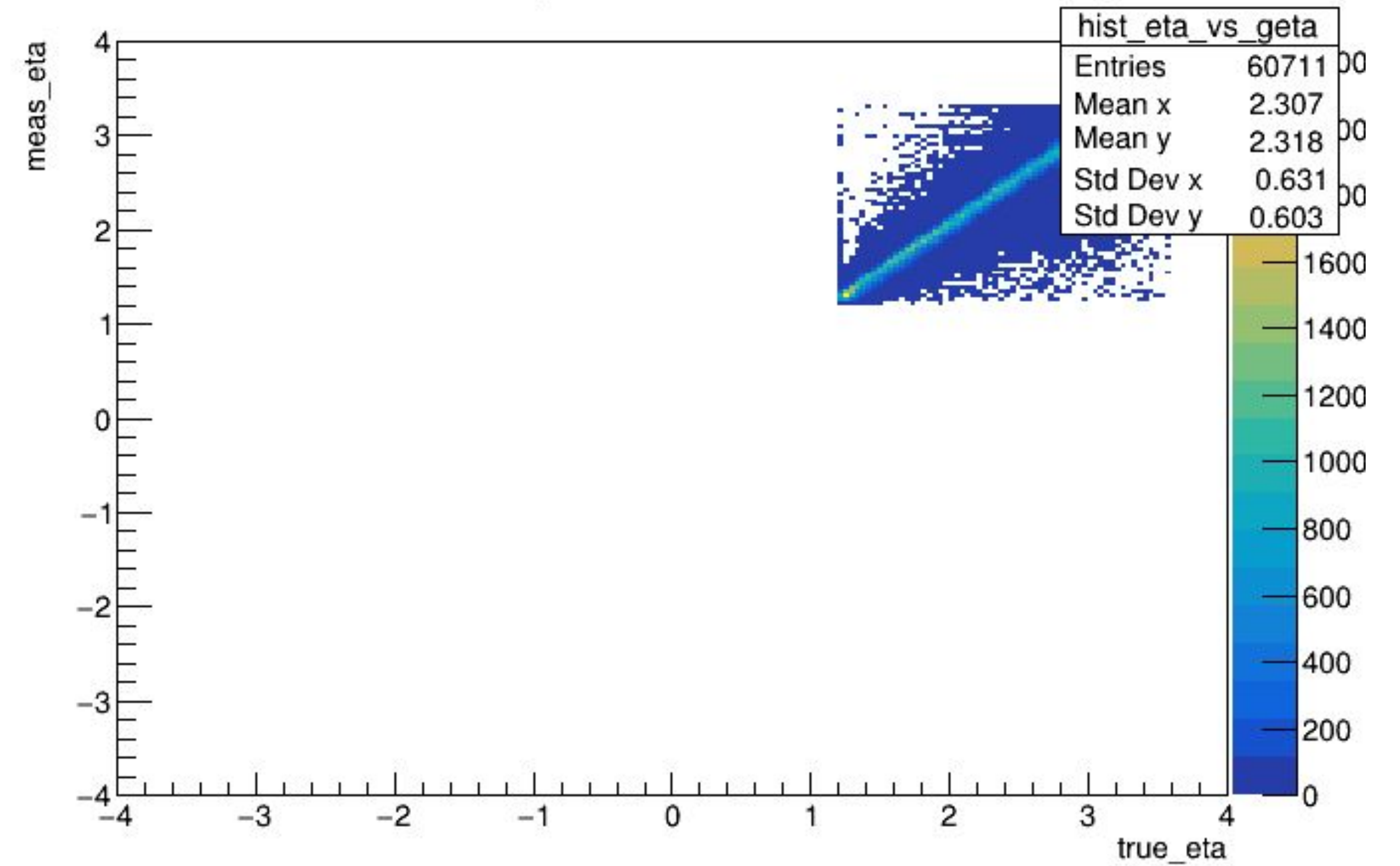
FHCAL

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

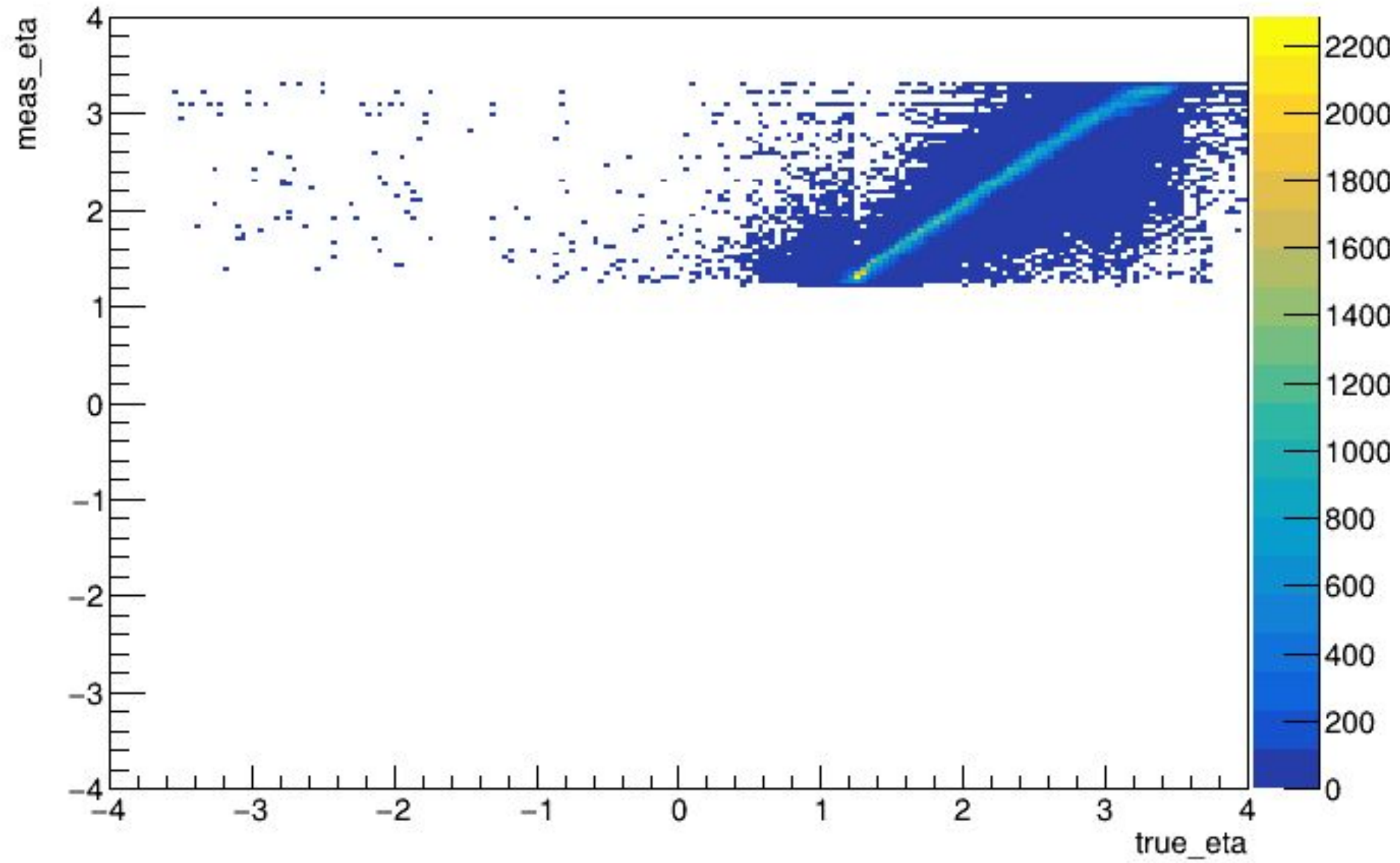


Pion

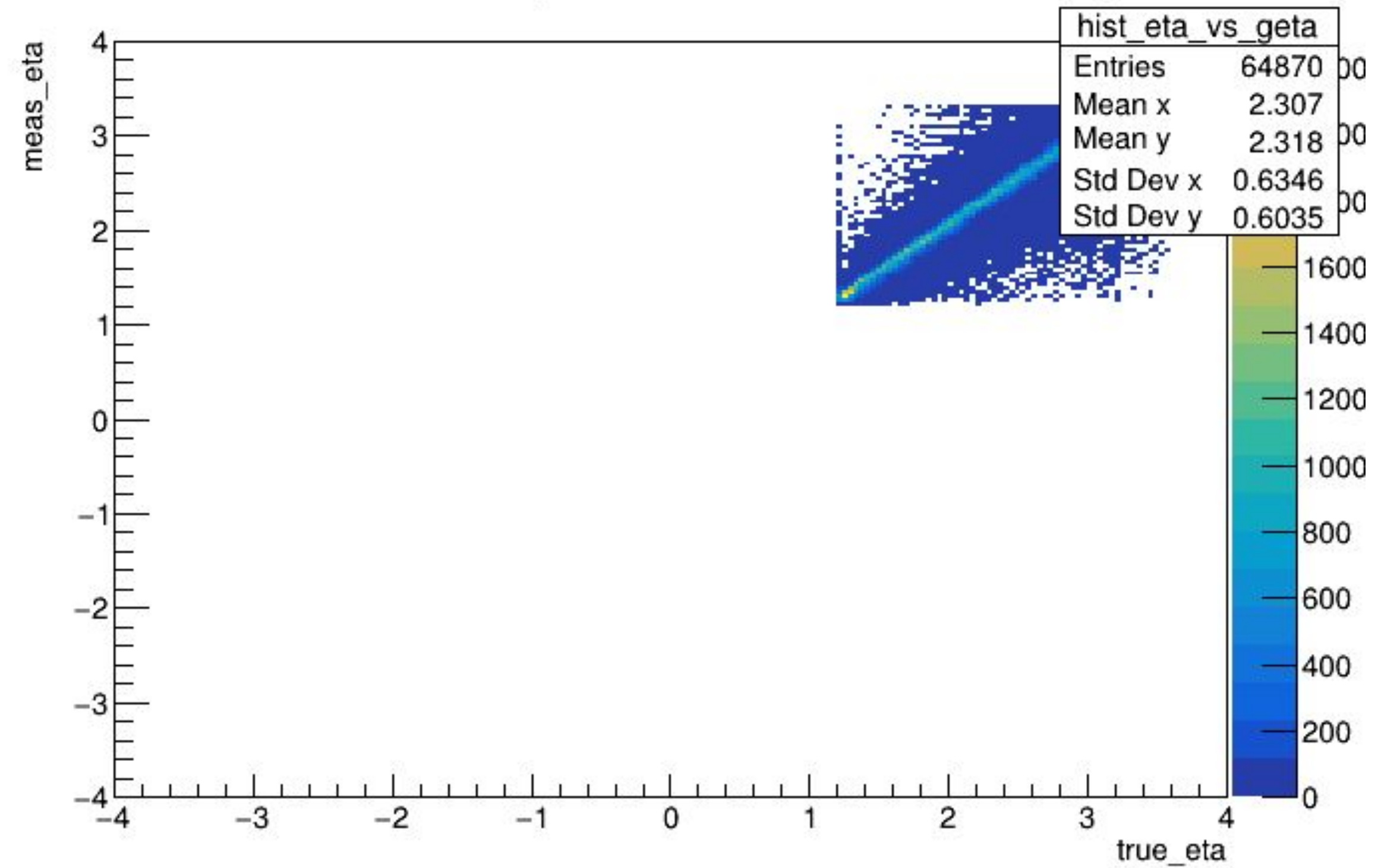
FHCAL

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

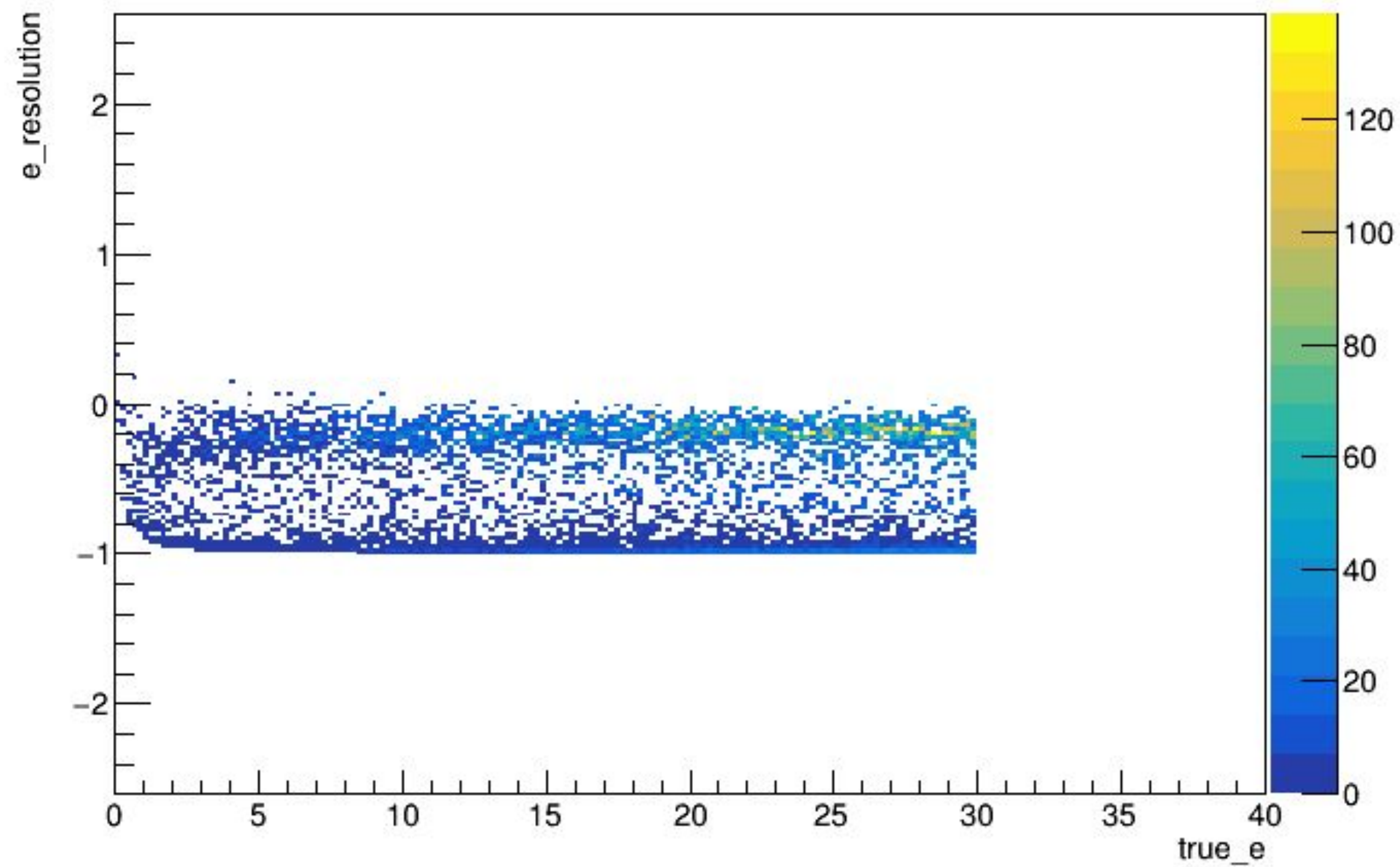


Kaon

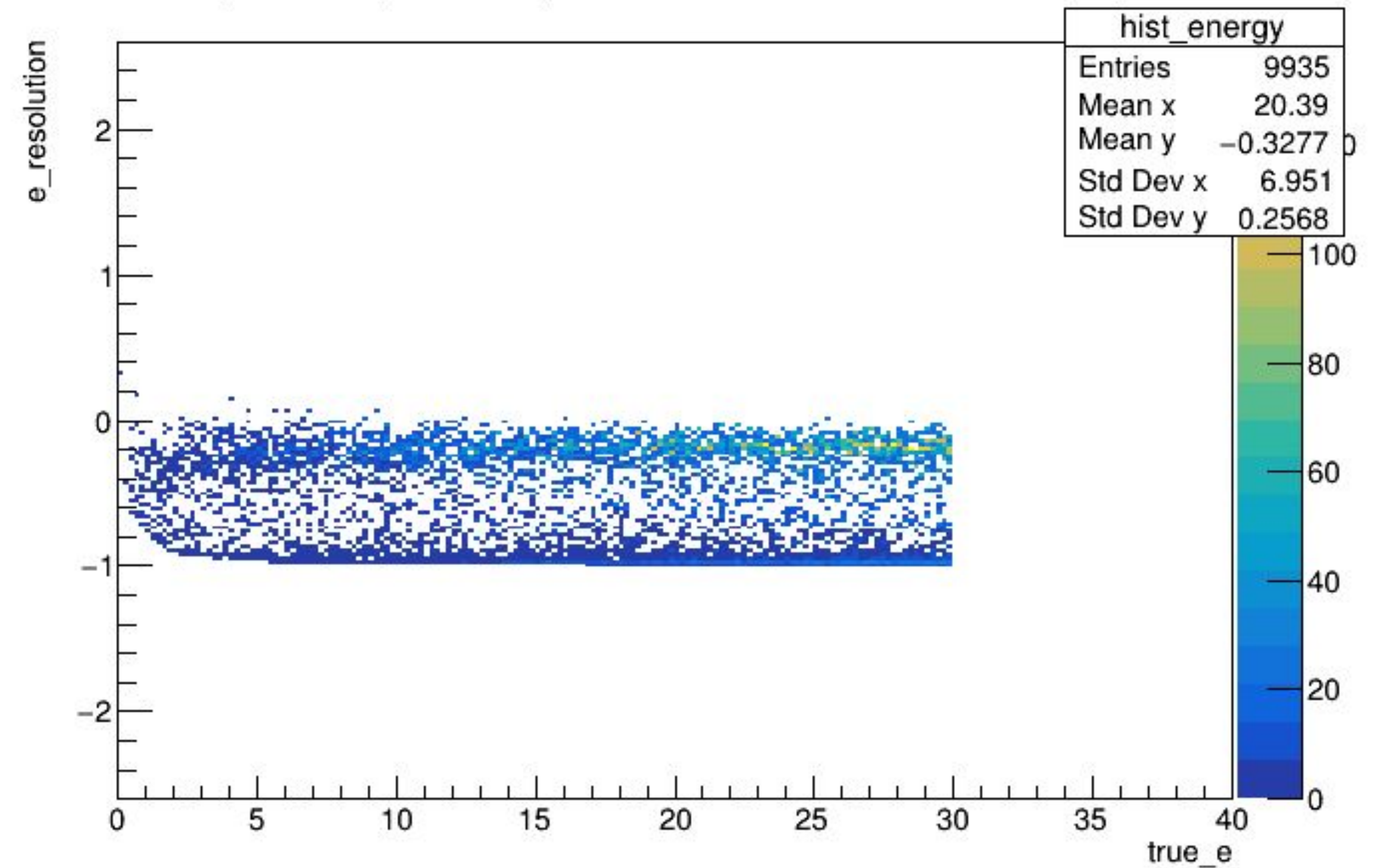
FHCAL

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e $\{1.2 < \text{true}_\eta < 3.6, \text{meas}_e > 0.2 \text{ GeV}\}$

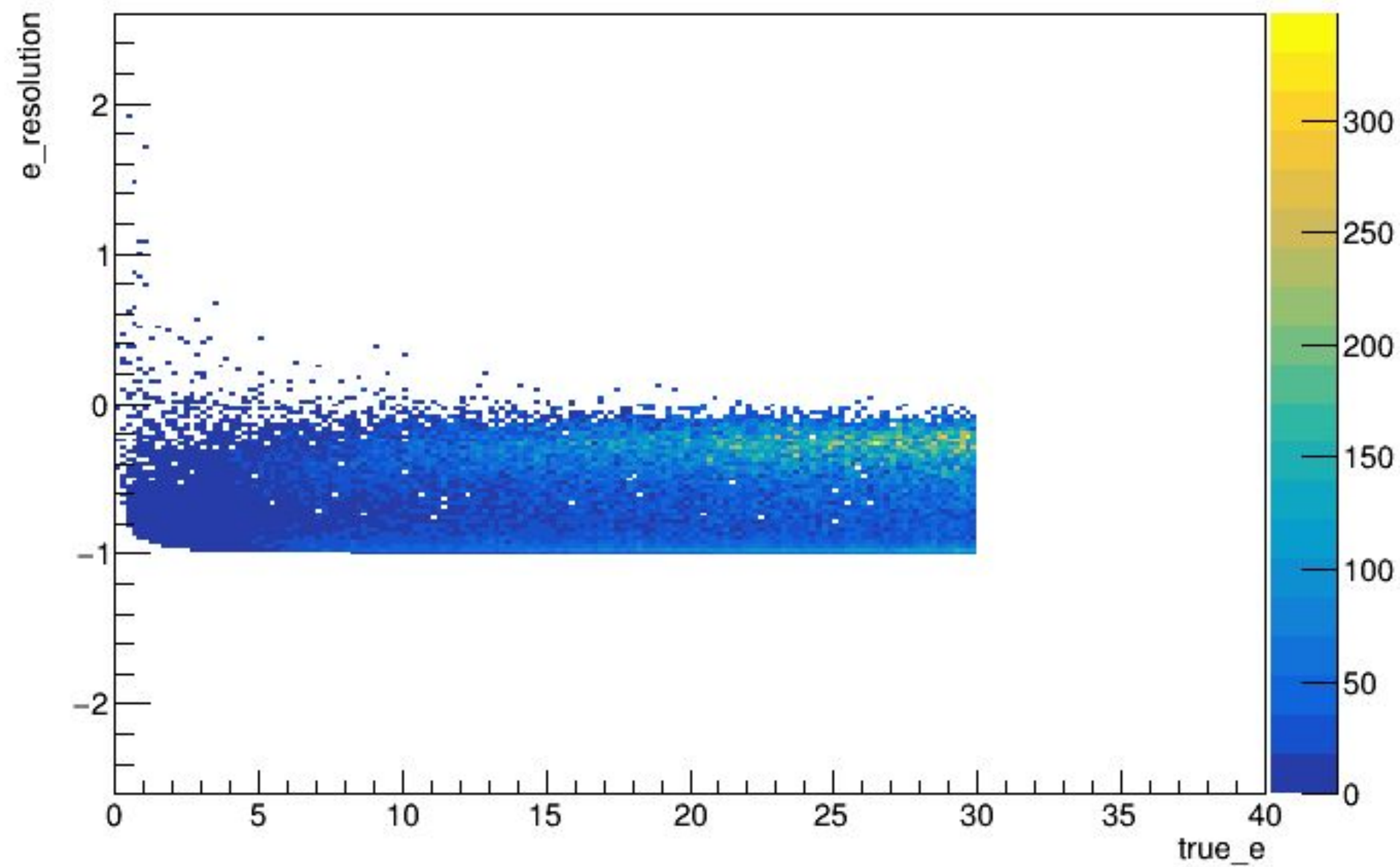


Electron

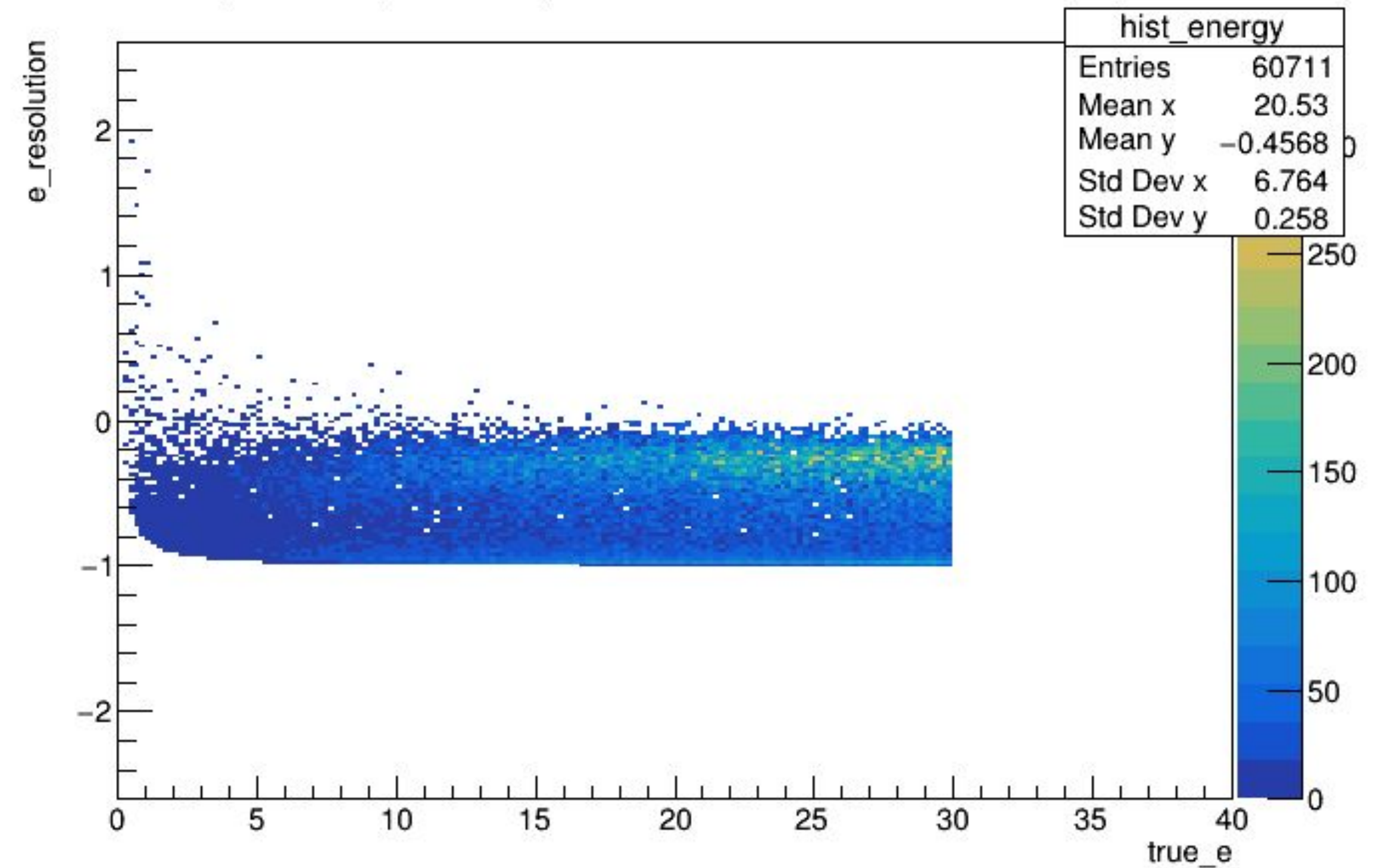
FHCAL

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e $\{1.2 < \text{true}_\eta < 3.6, \text{meas}_e > 0.2 \text{ GeV}\}$

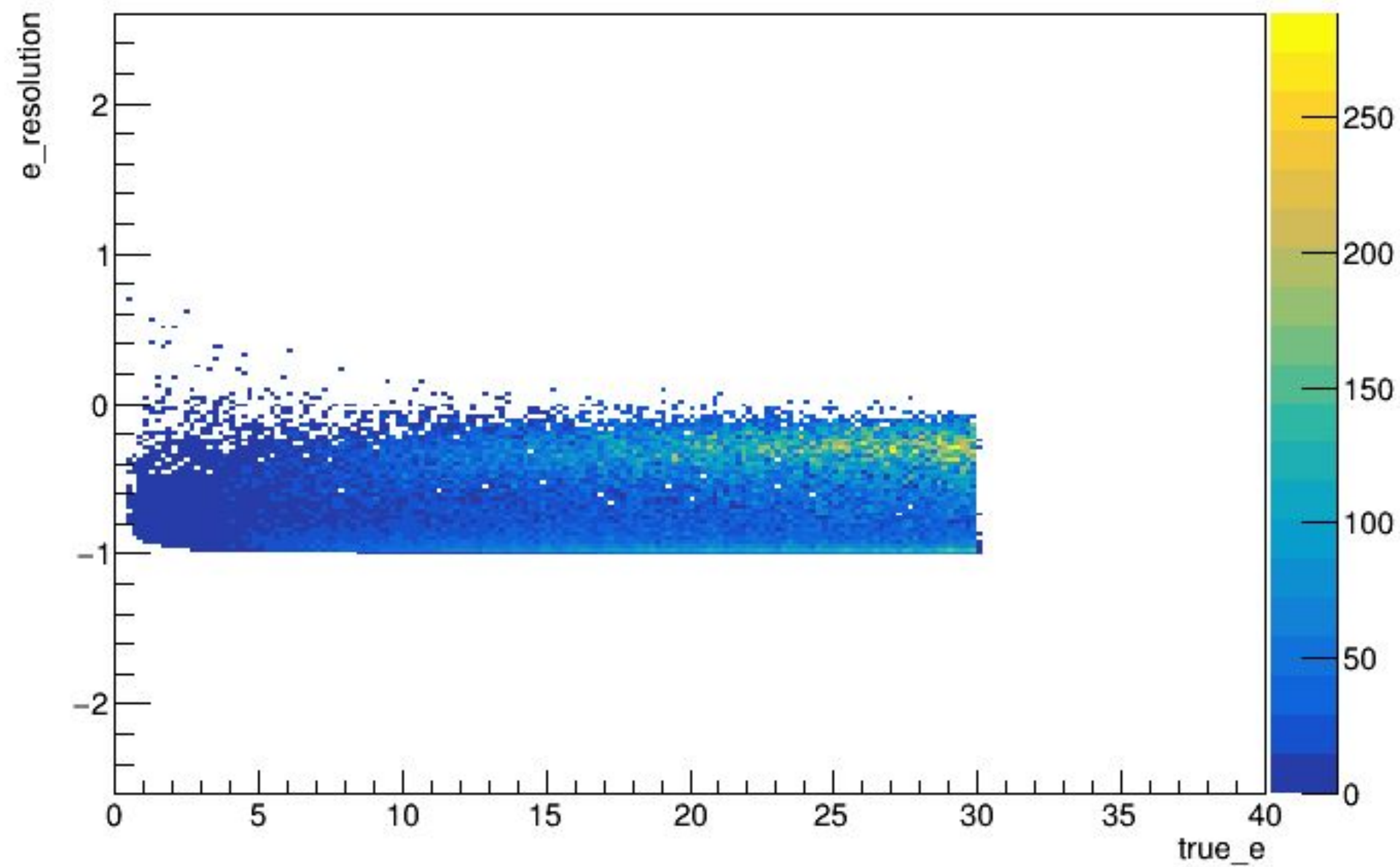


Pion

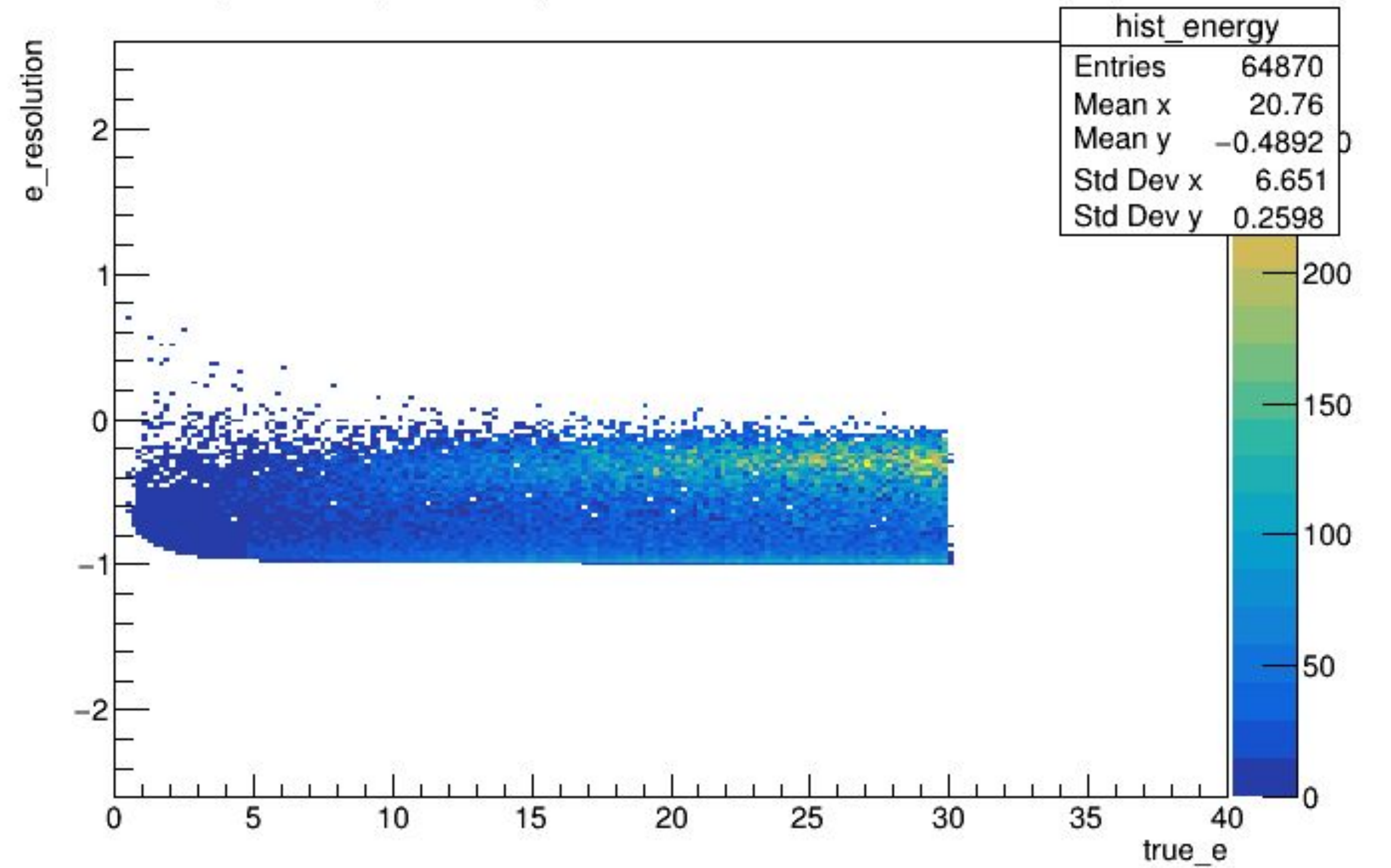
FHCAL

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e { $1.2 < \text{true}_\eta < 3.6$, $\text{meas}_e > 0.2$ GeV}

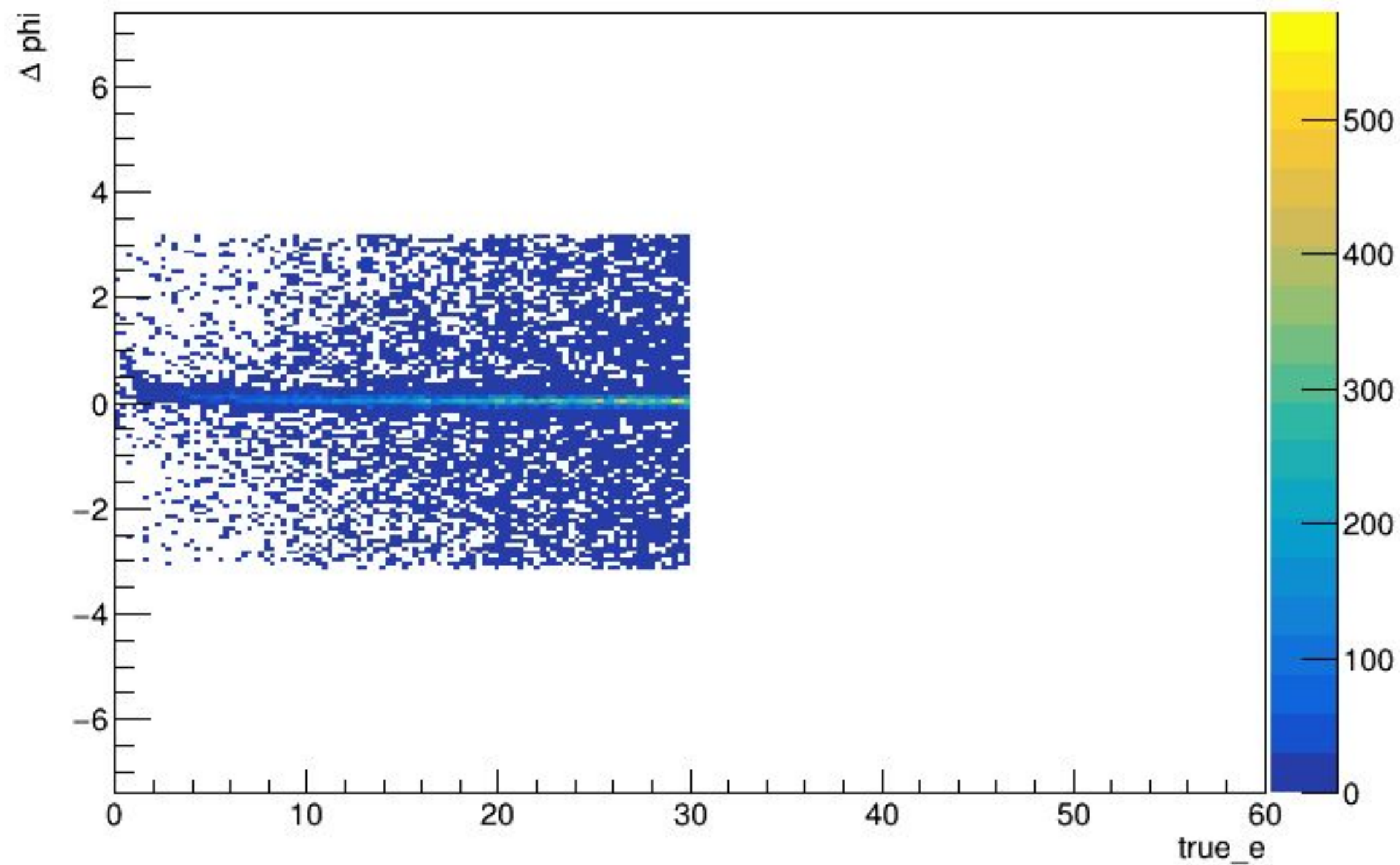


Kaon

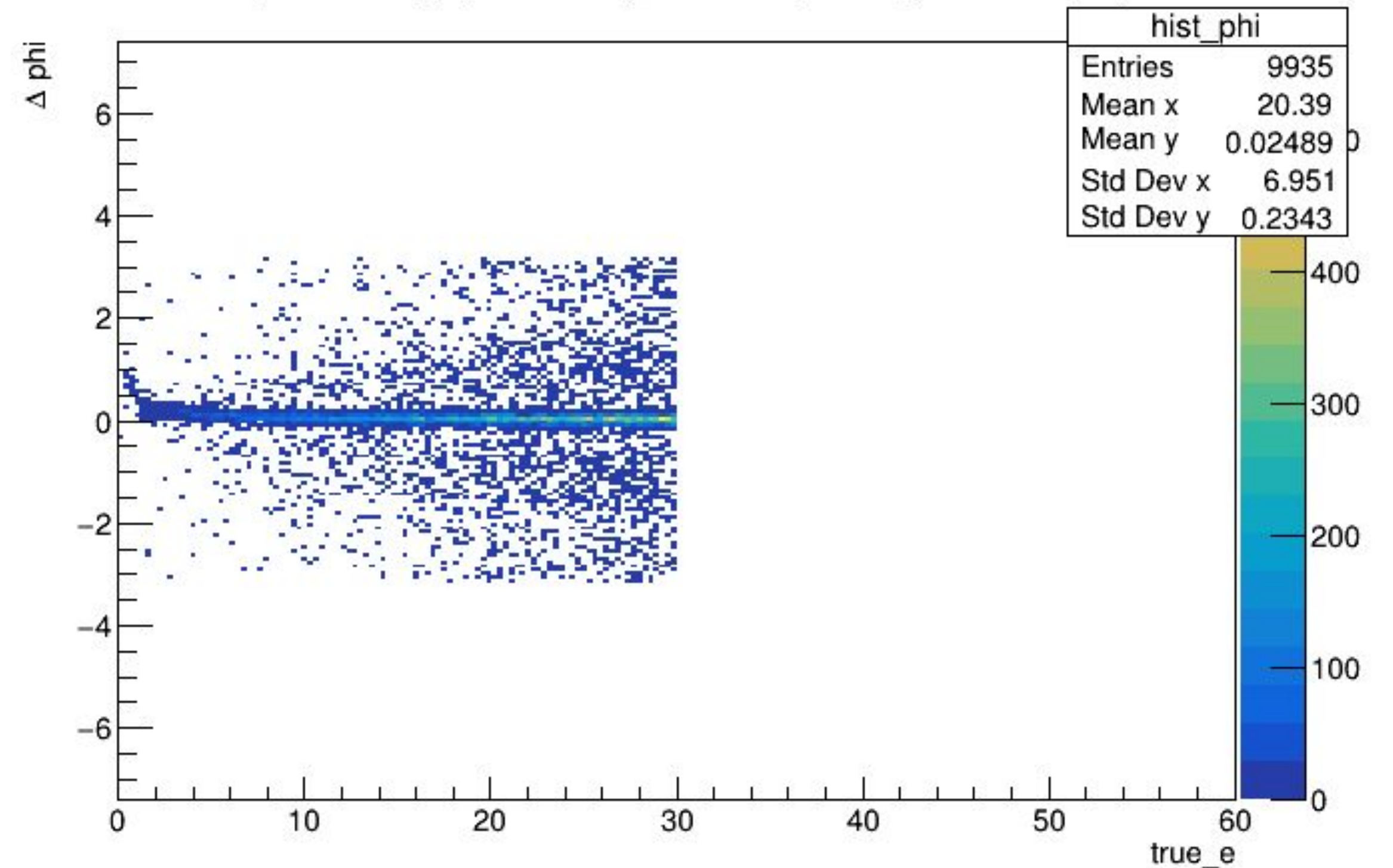
FHCAL

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

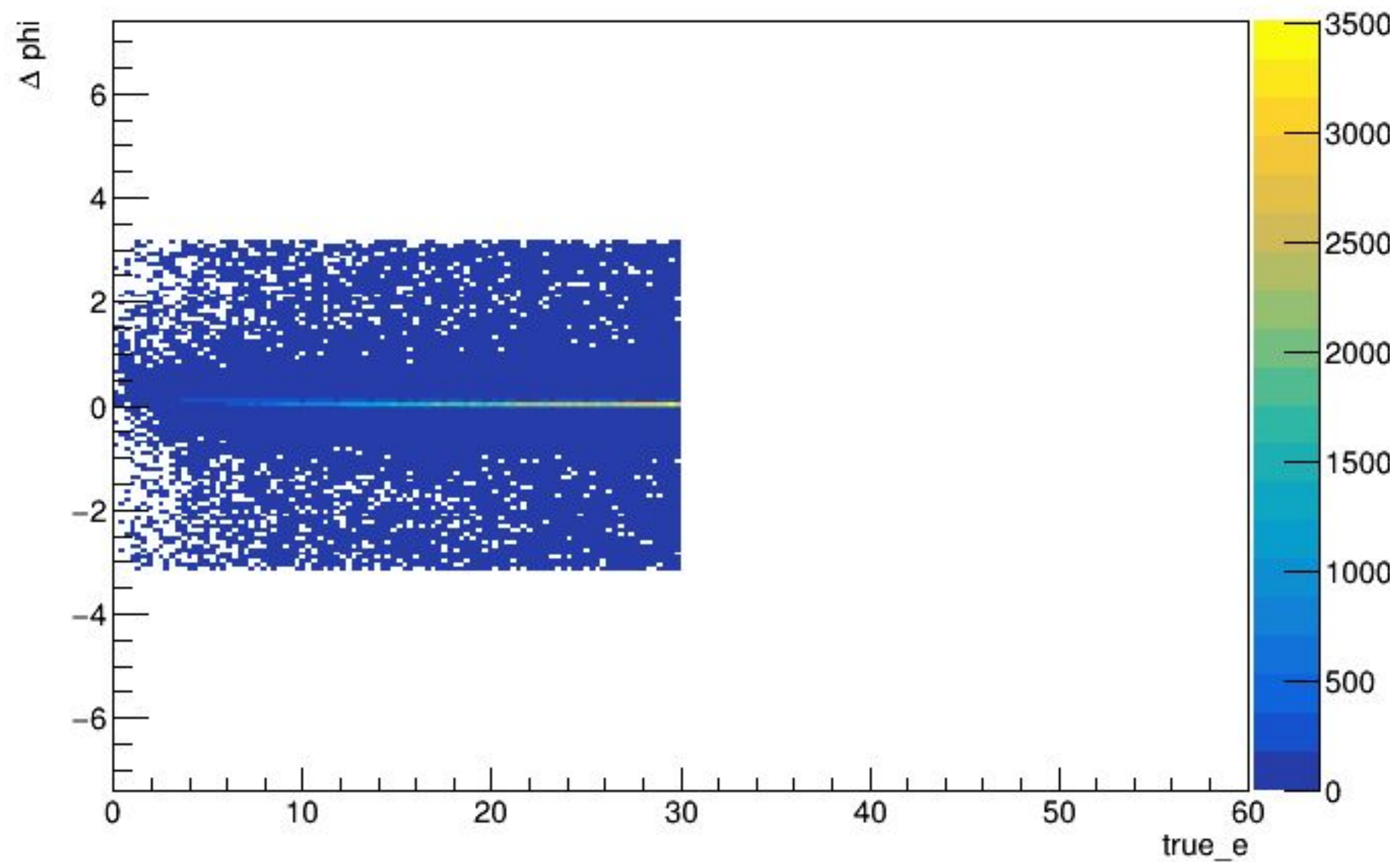


Electron

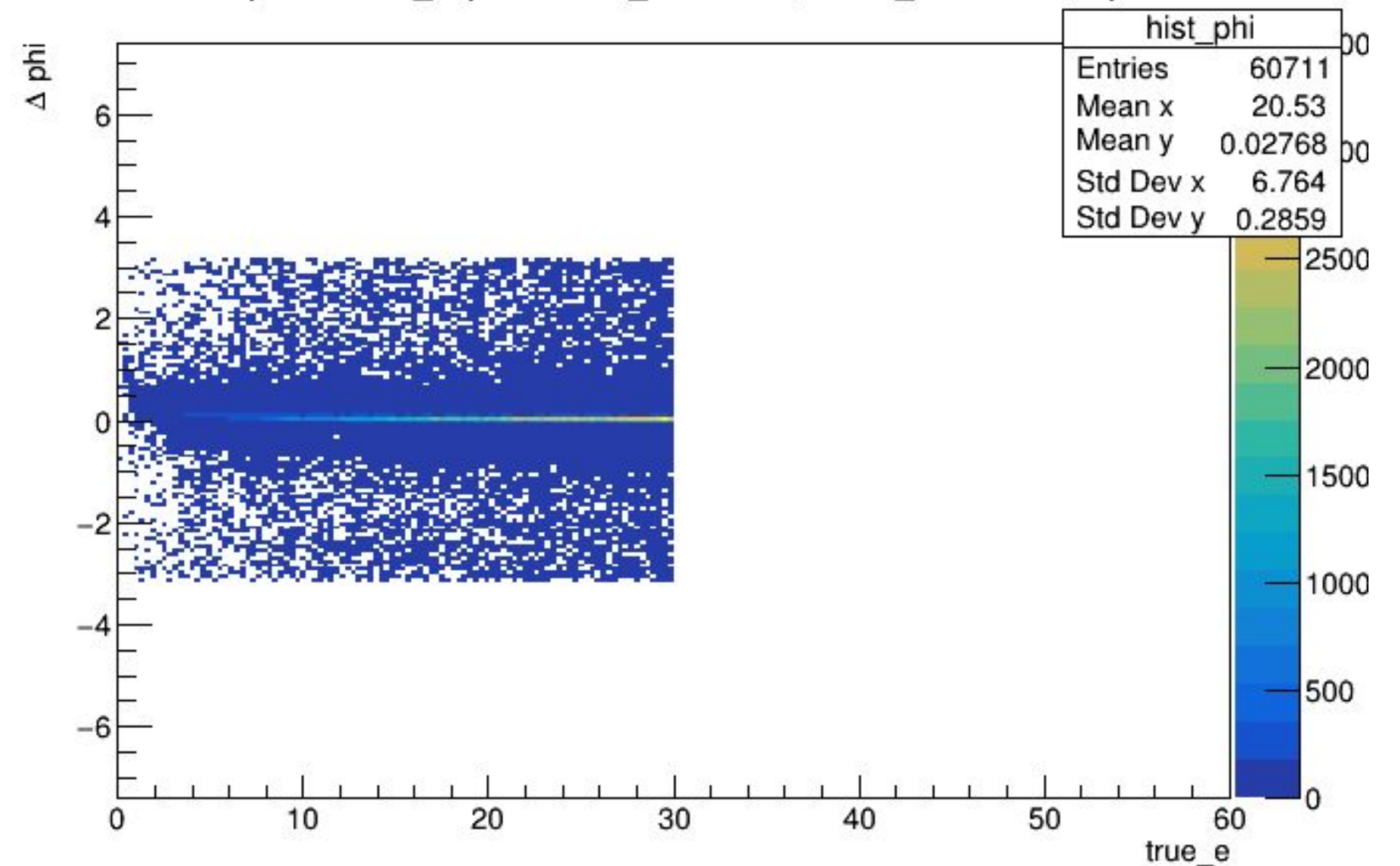
FHCAL

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

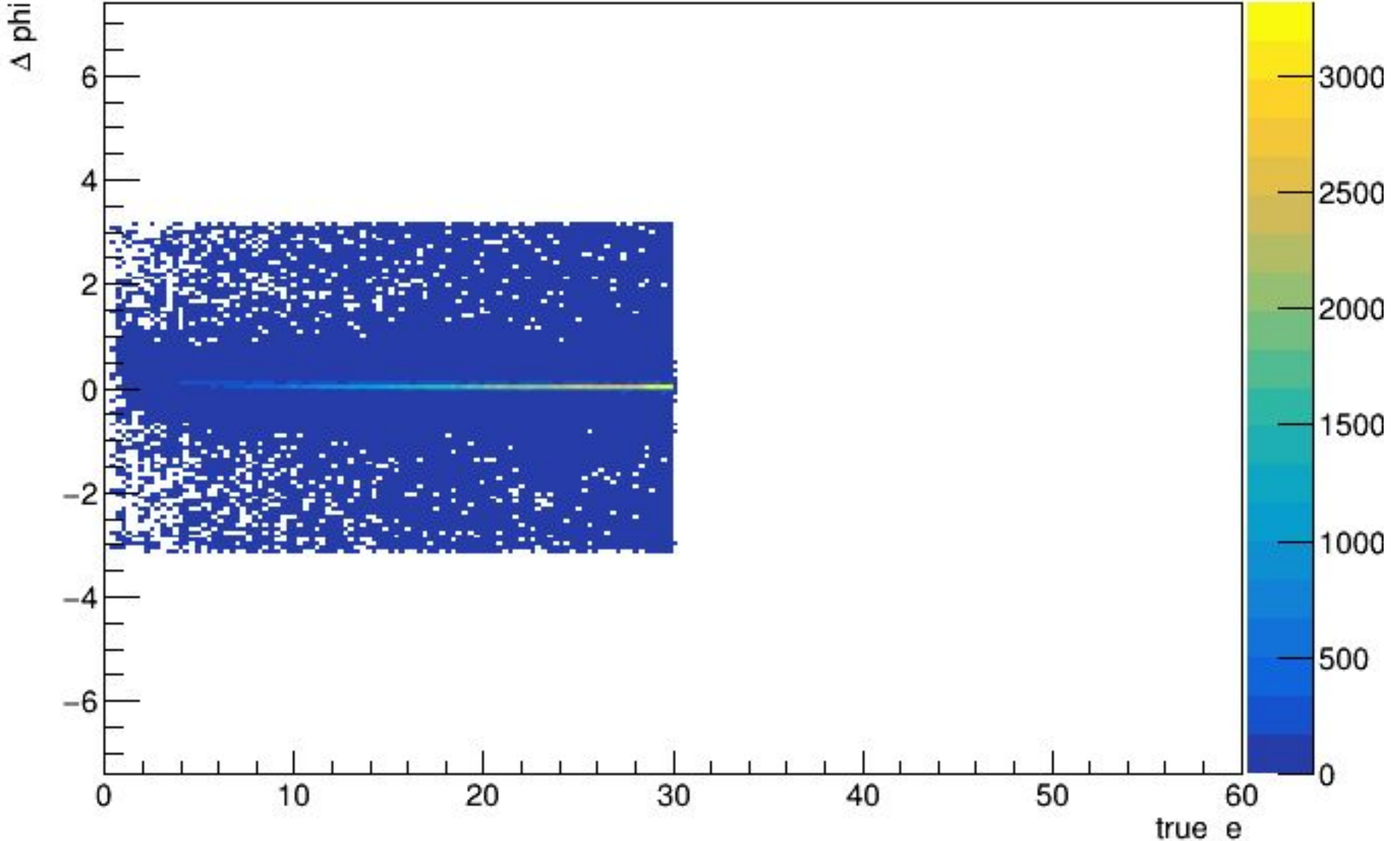


Pion

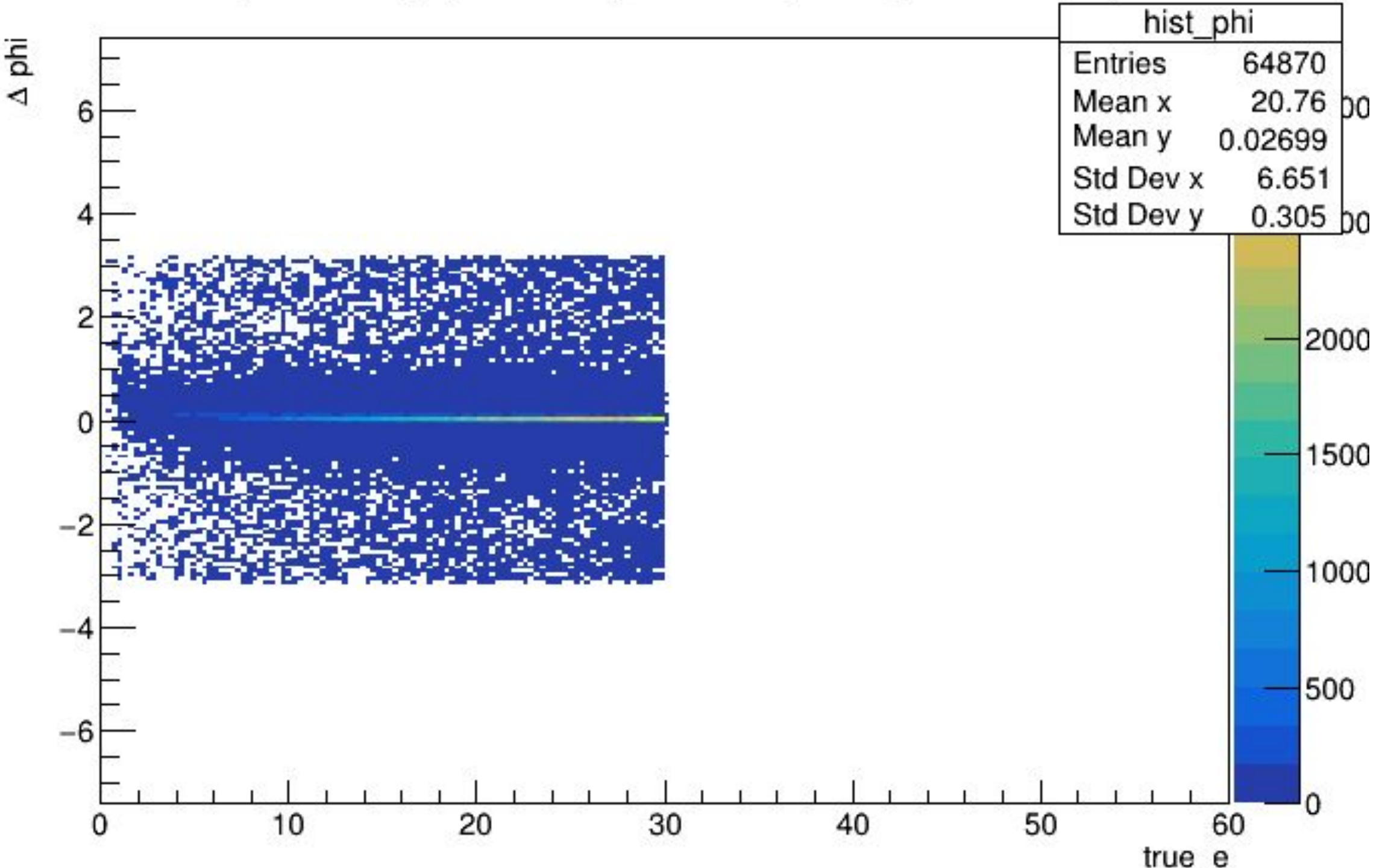
FHCAL

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

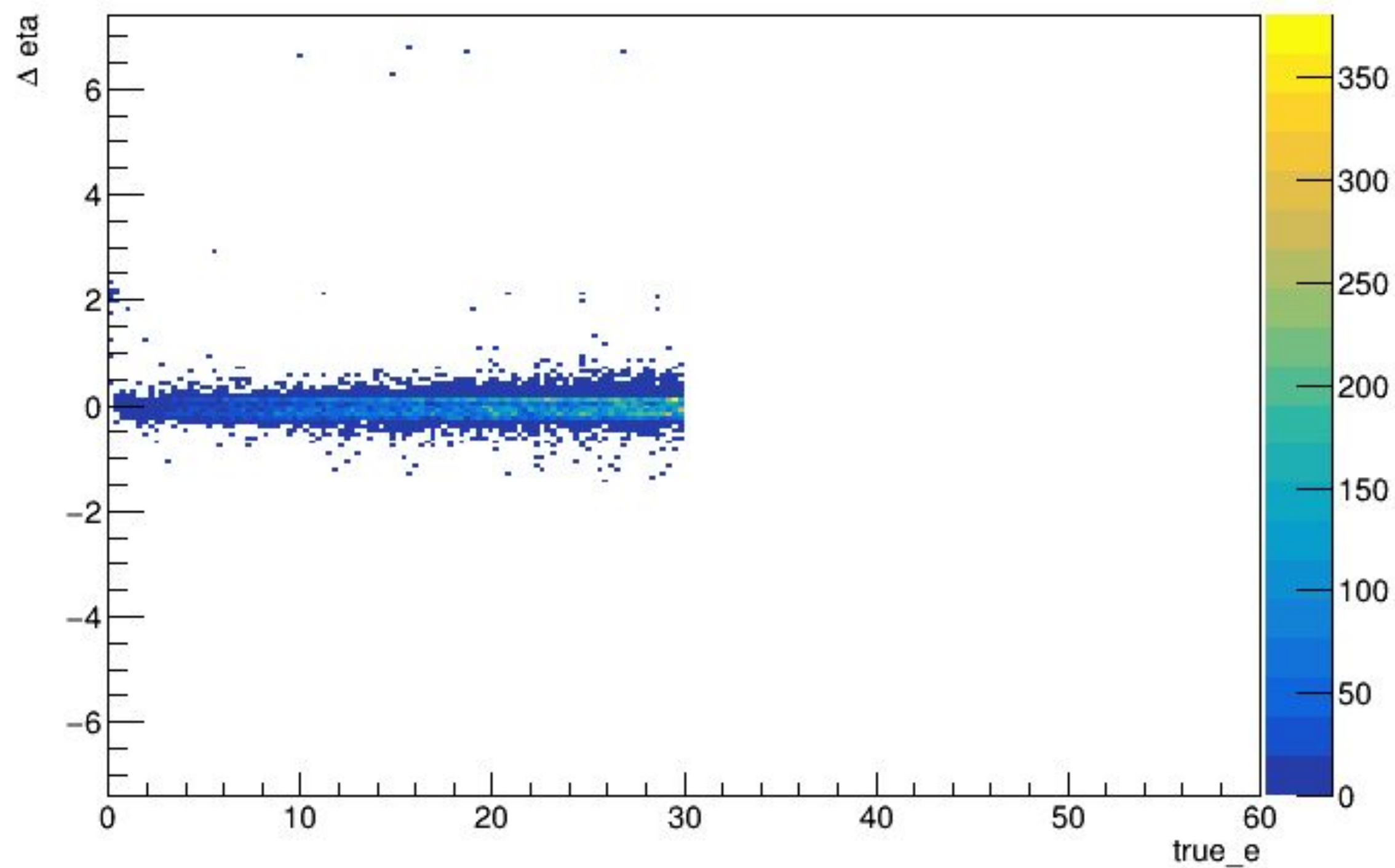


Kaon

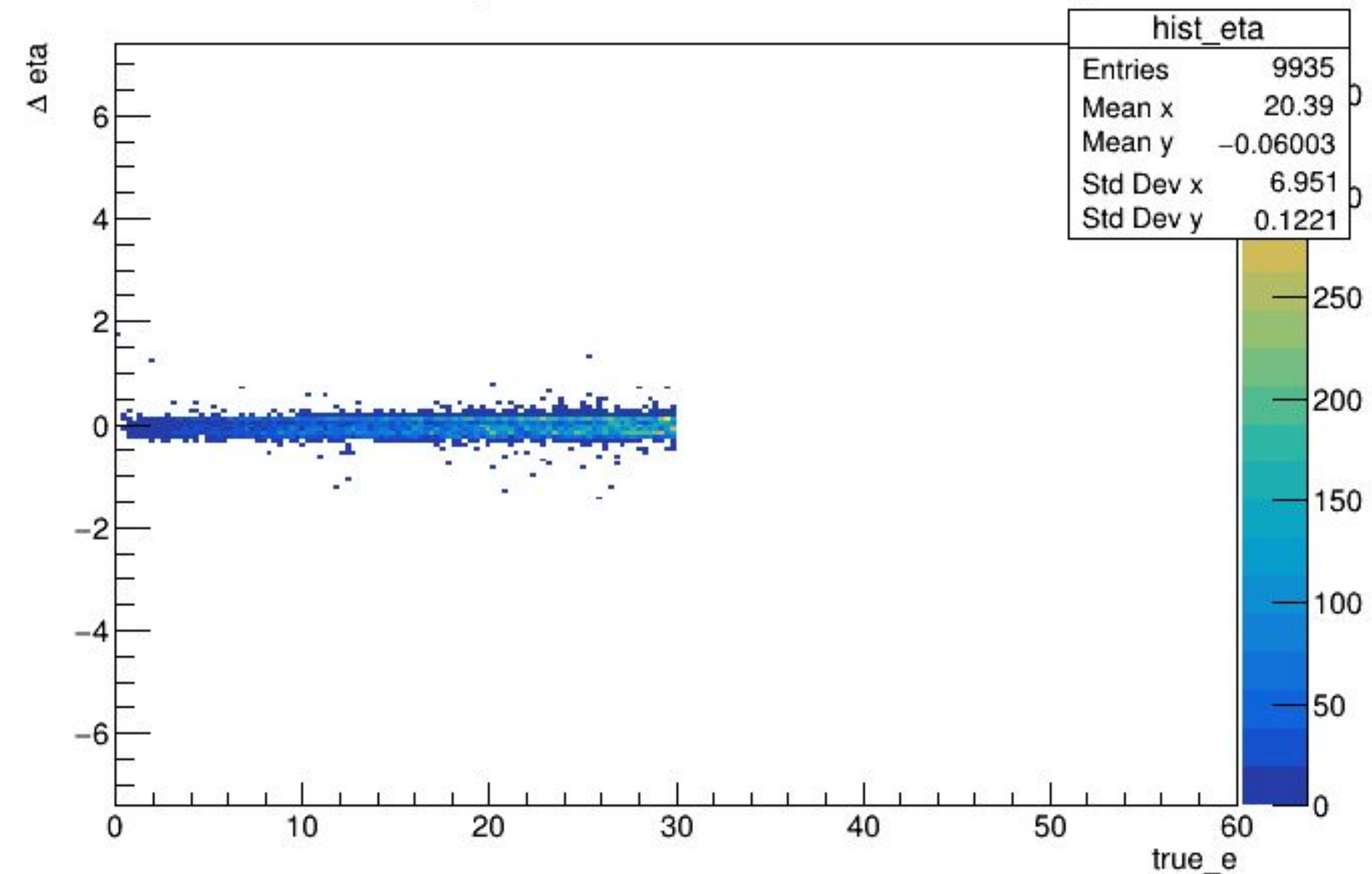
FHCAL

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



$\Delta\eta$ vs true_e {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

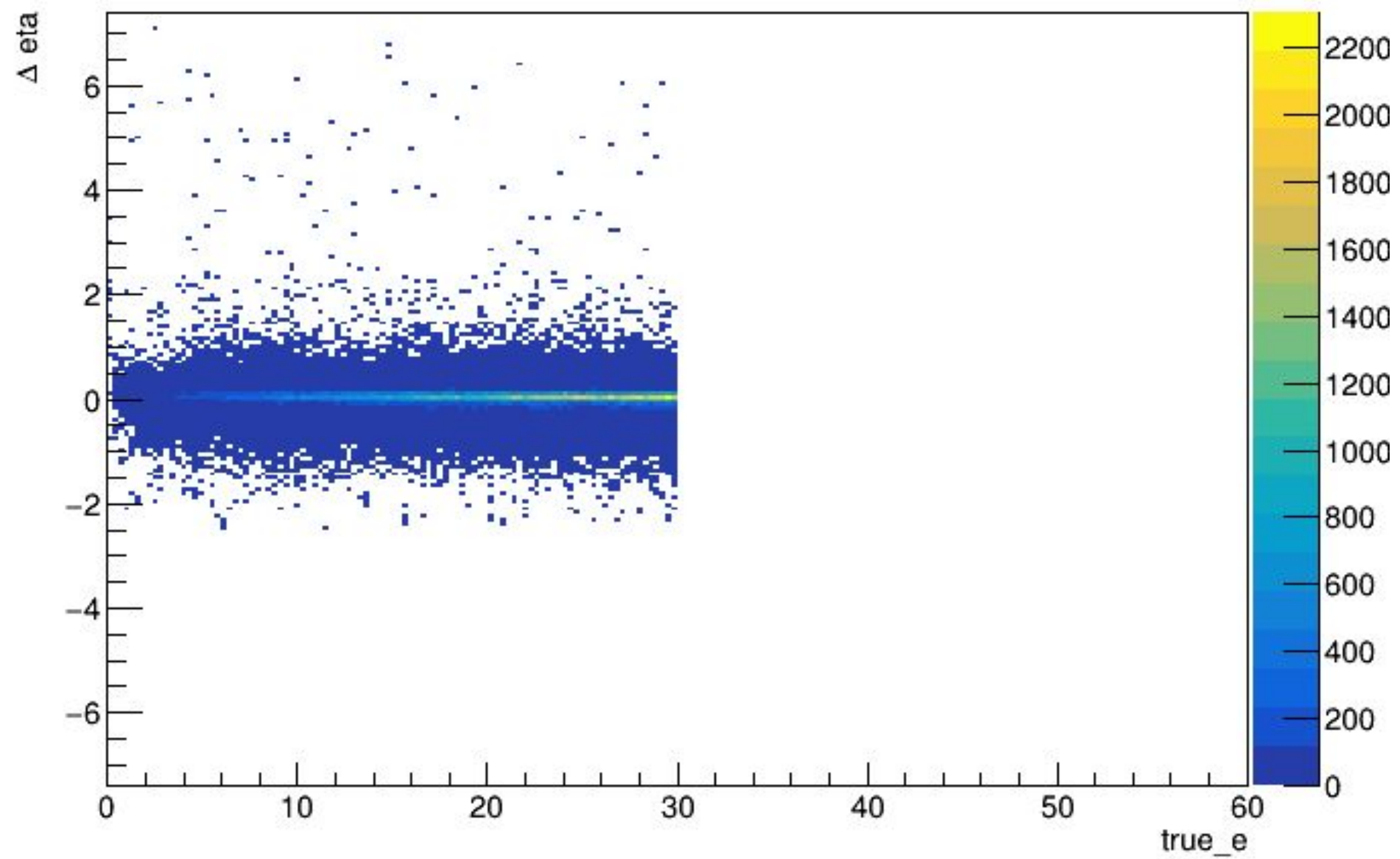


Electron

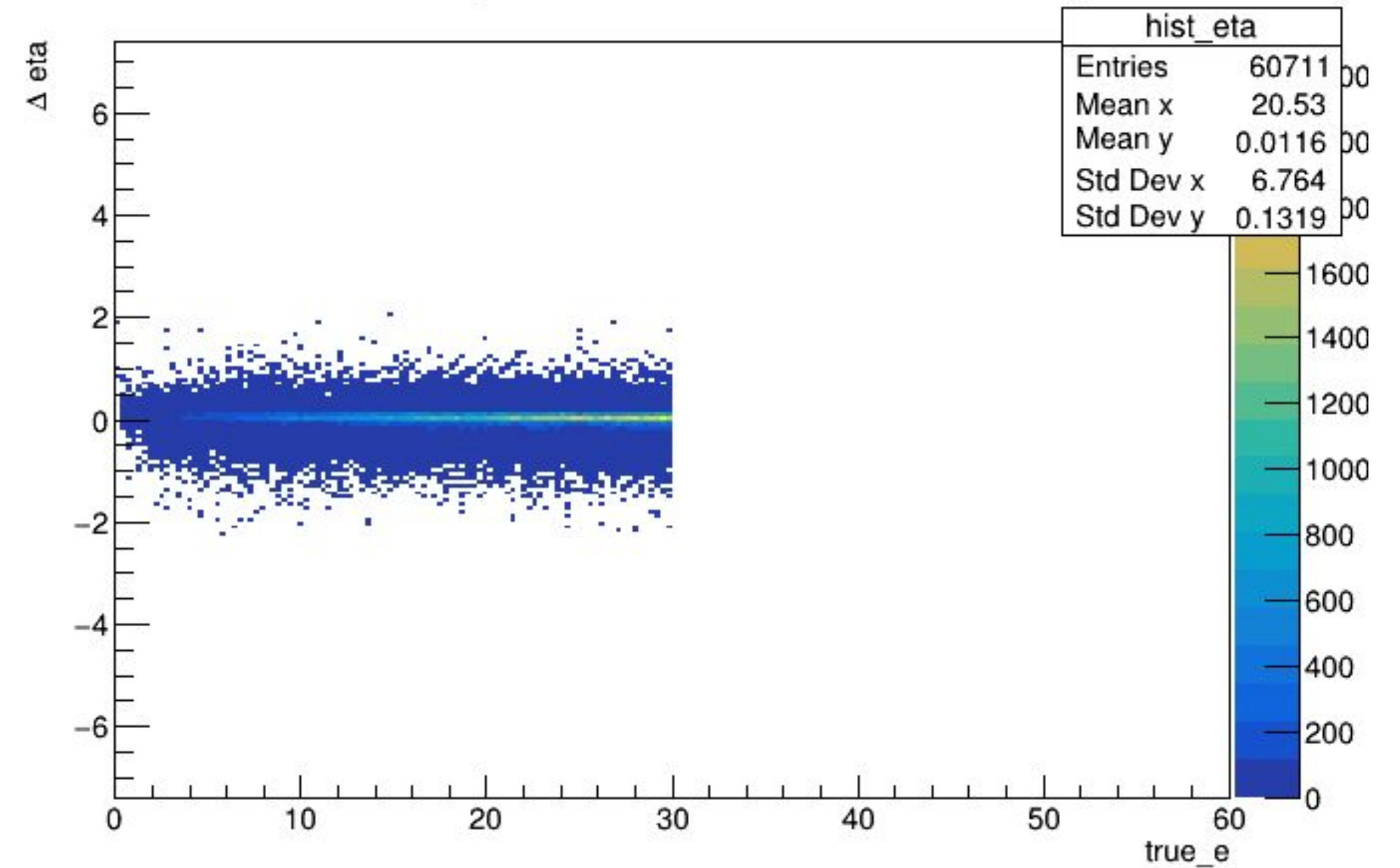
FHCAL

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



$\Delta\eta$ vs true_e {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

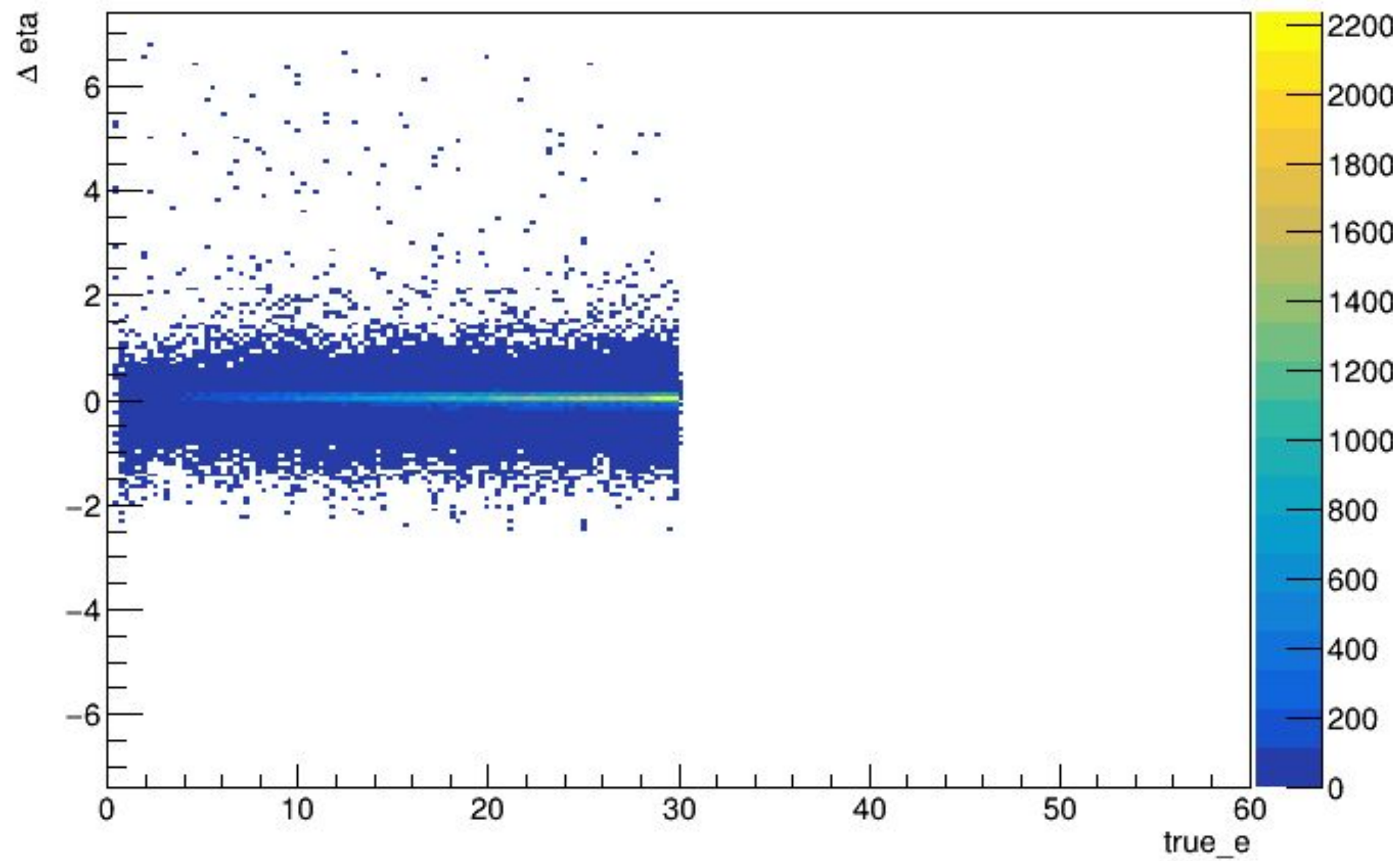


Pion

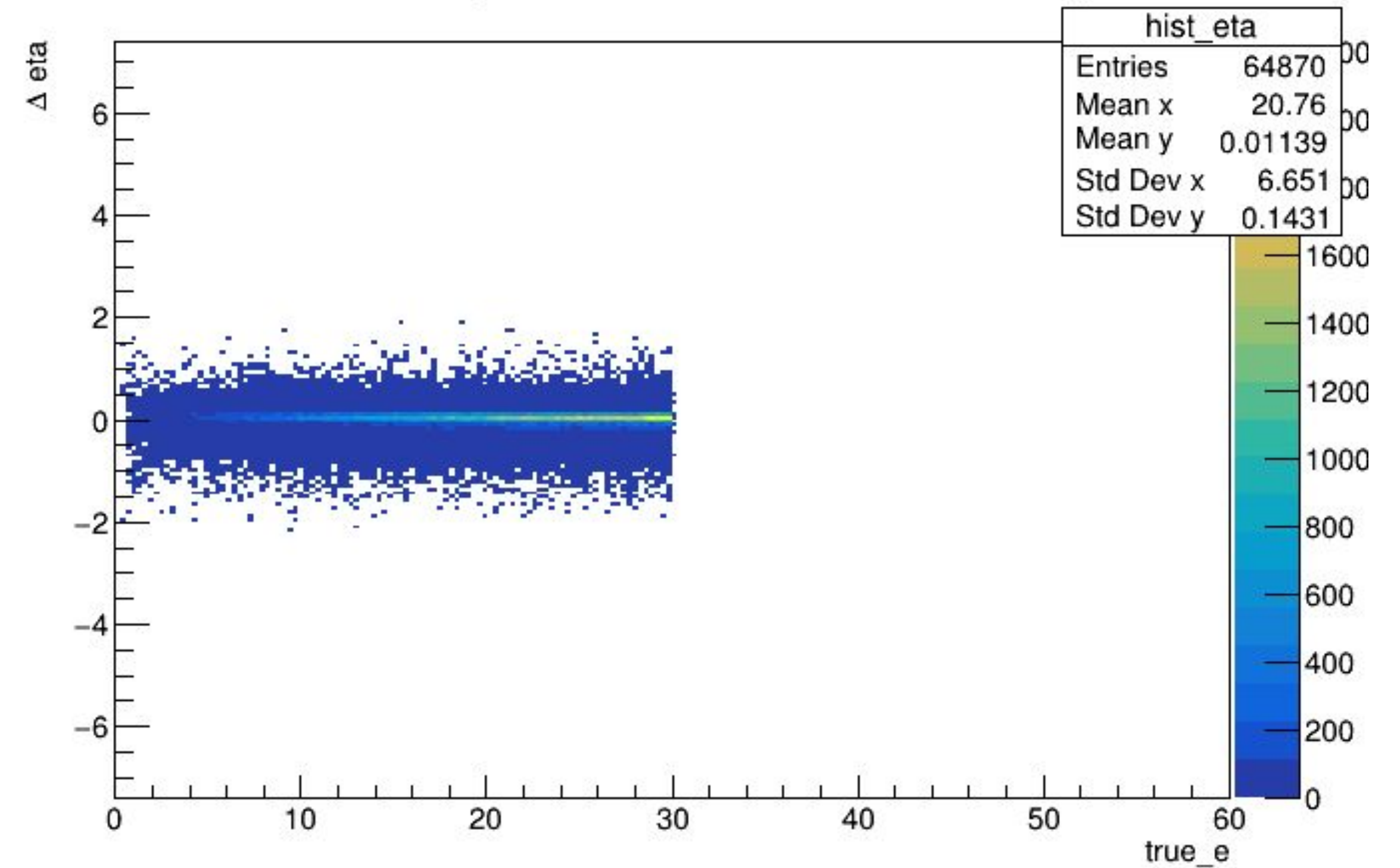
FHCAL

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



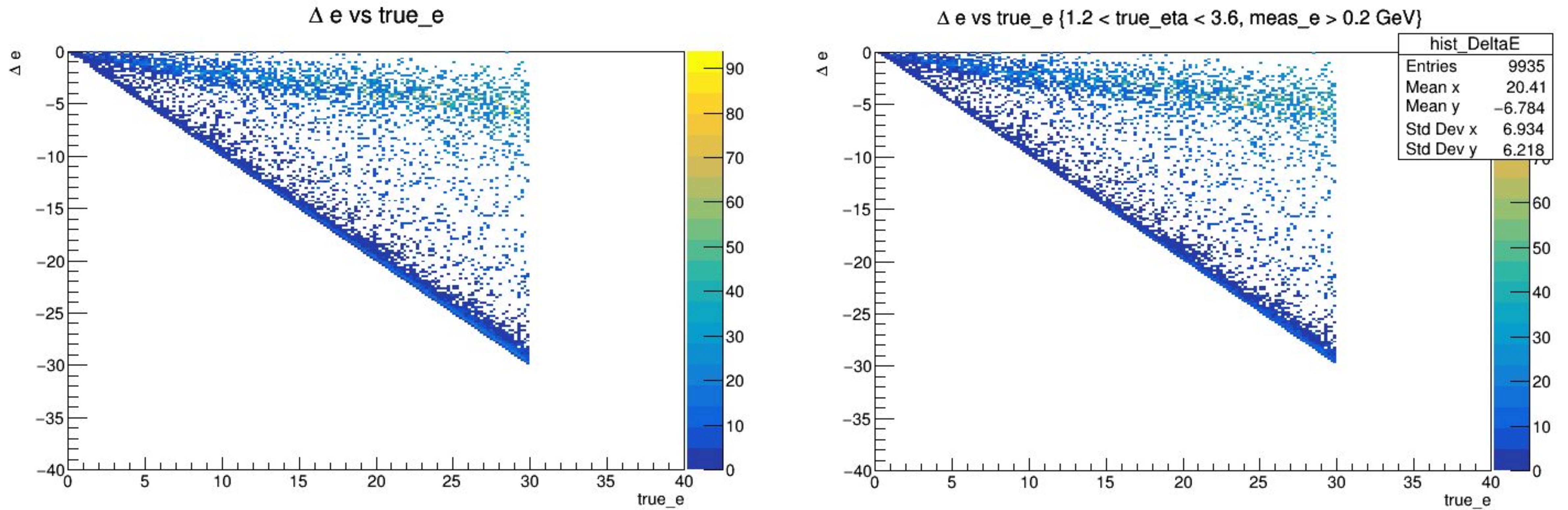
$\Delta\eta$ vs true_e {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}



Kaon

FHCAL

Δe vs g_e

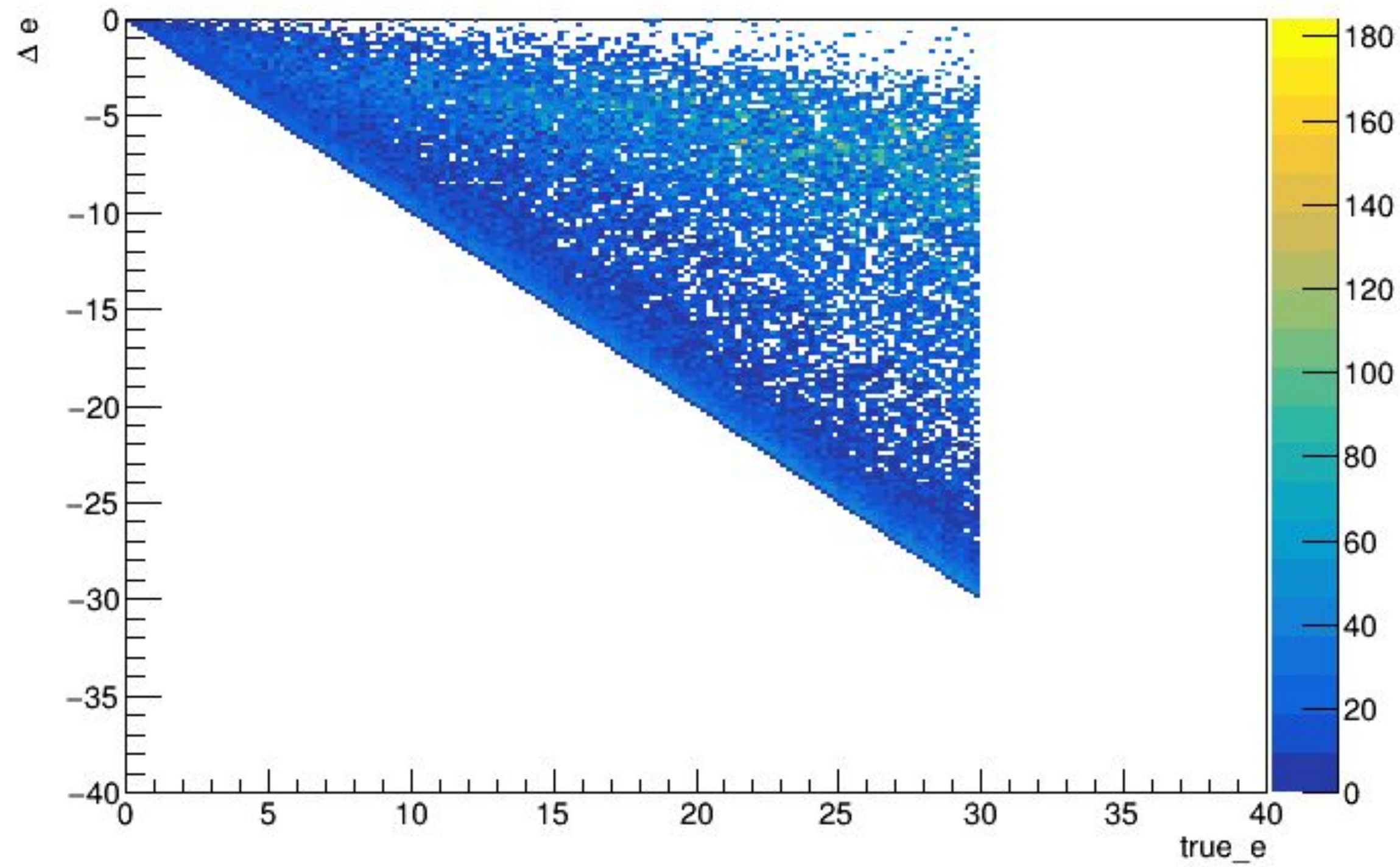


Electron

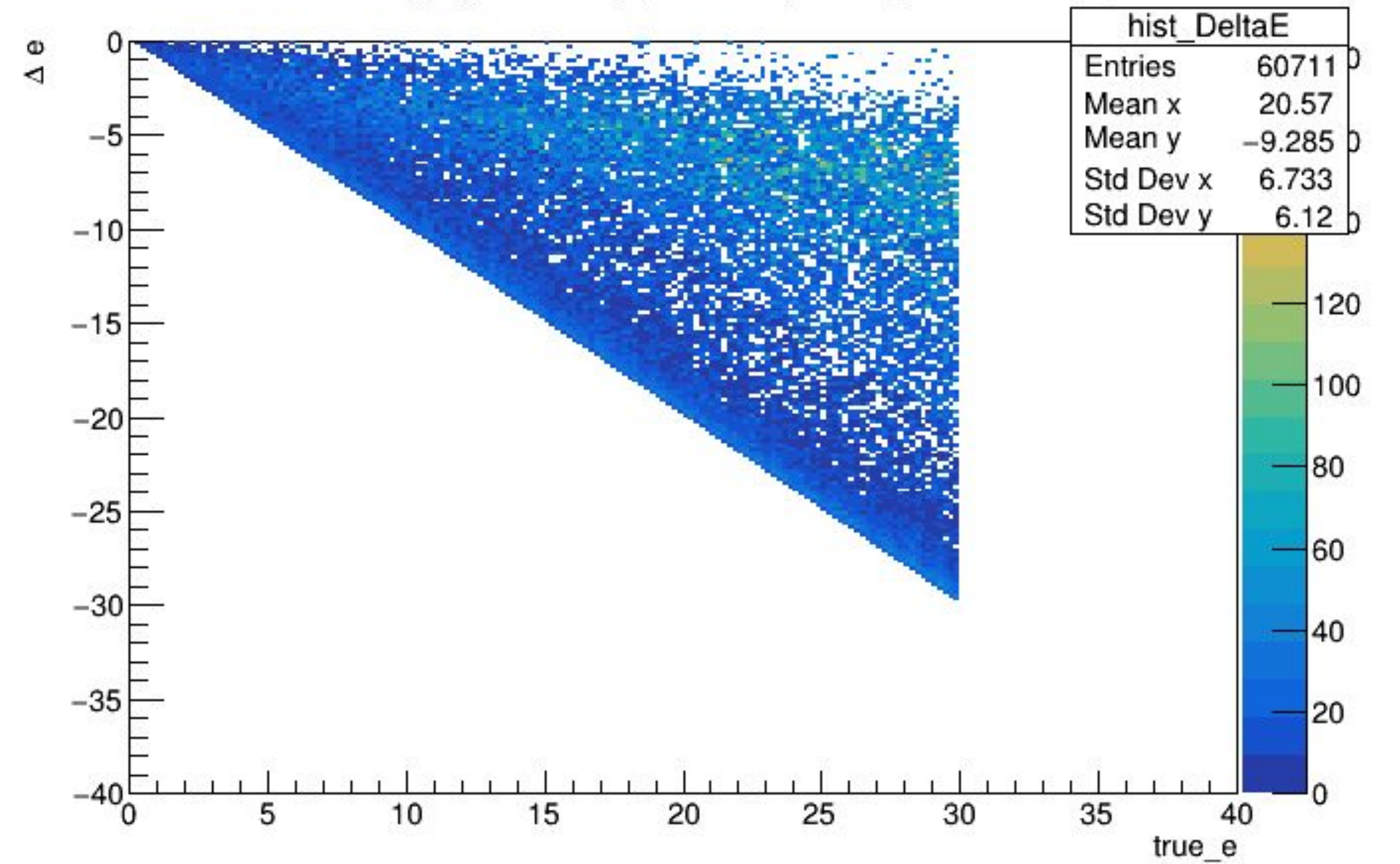
FHCAL

Δe vs g_e

Δe vs true_e



Δe vs true_e {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}

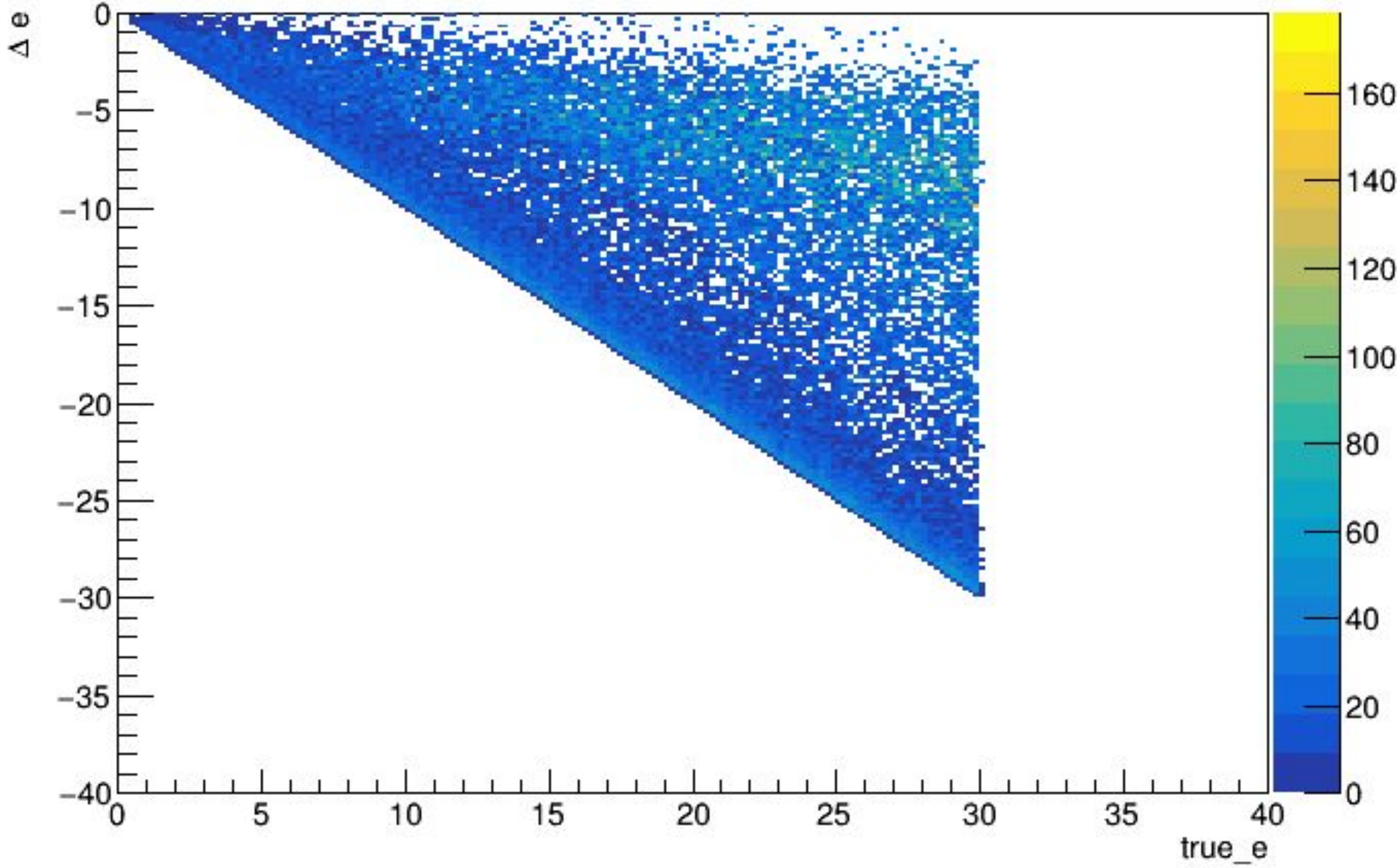


Pion

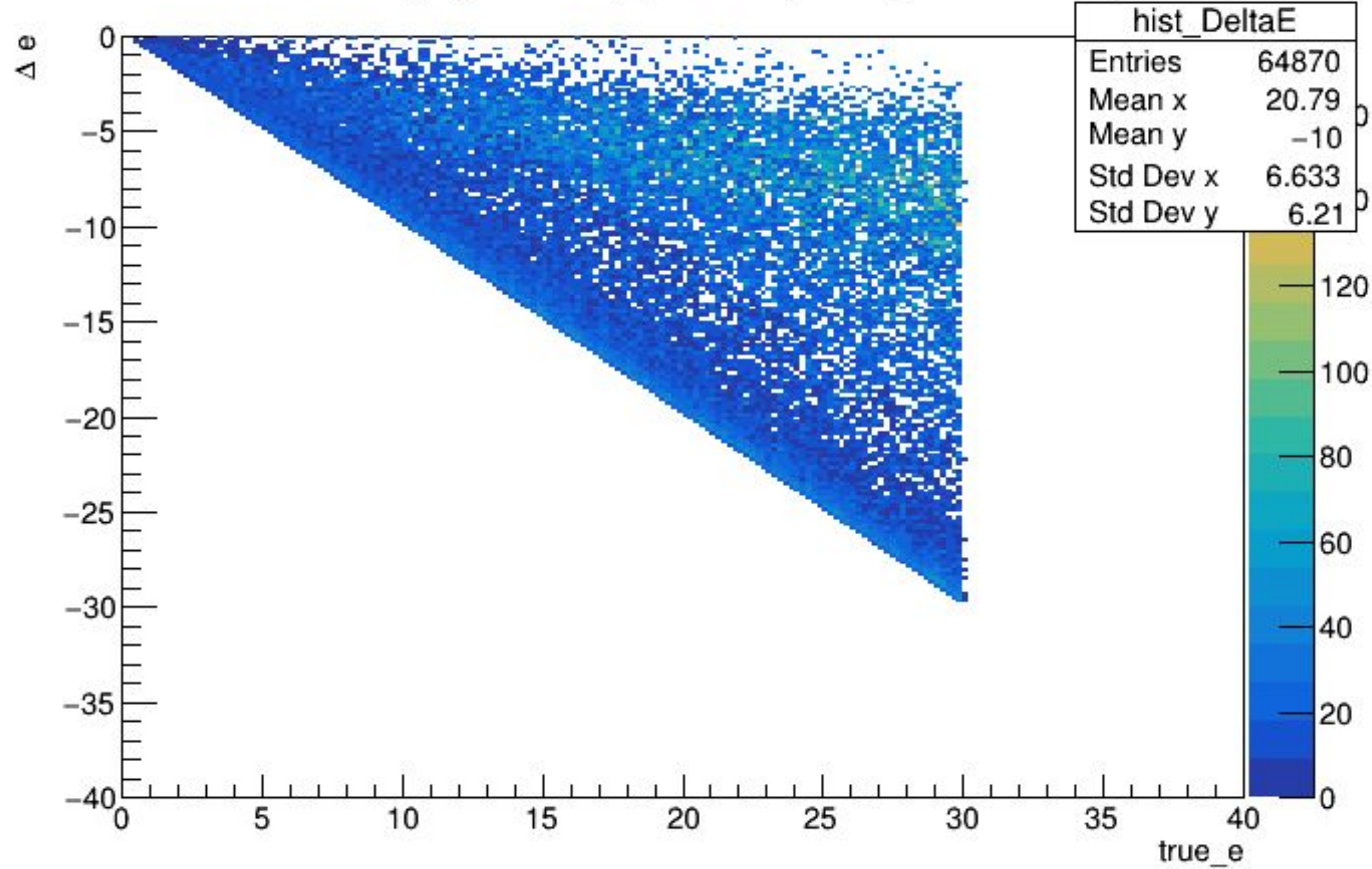
FHCAL

Δe vs g_e

Δe vs true_e



Δe vs true_e {1.2 < true_eta < 3.6, meas_e > 0.2 GeV}



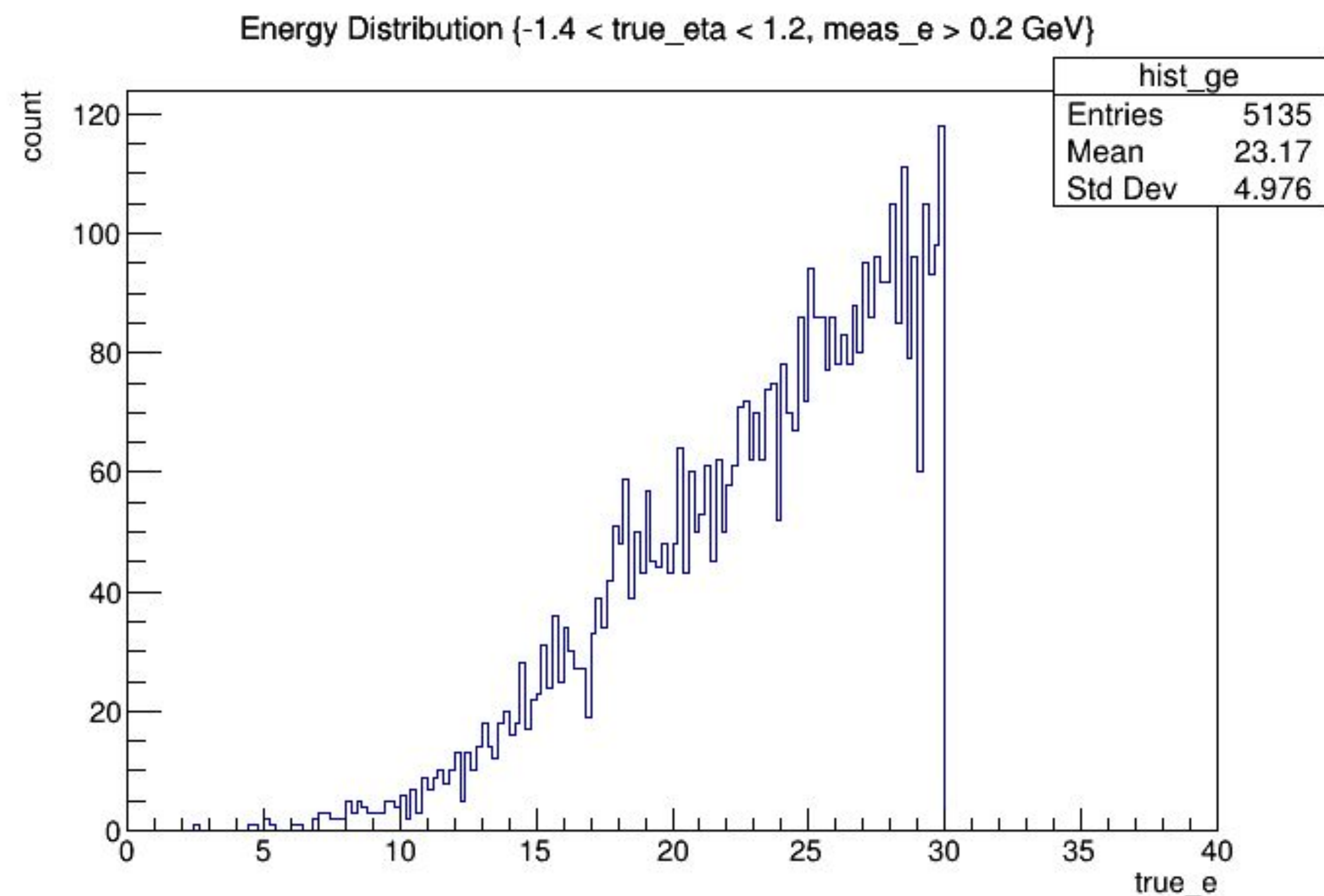
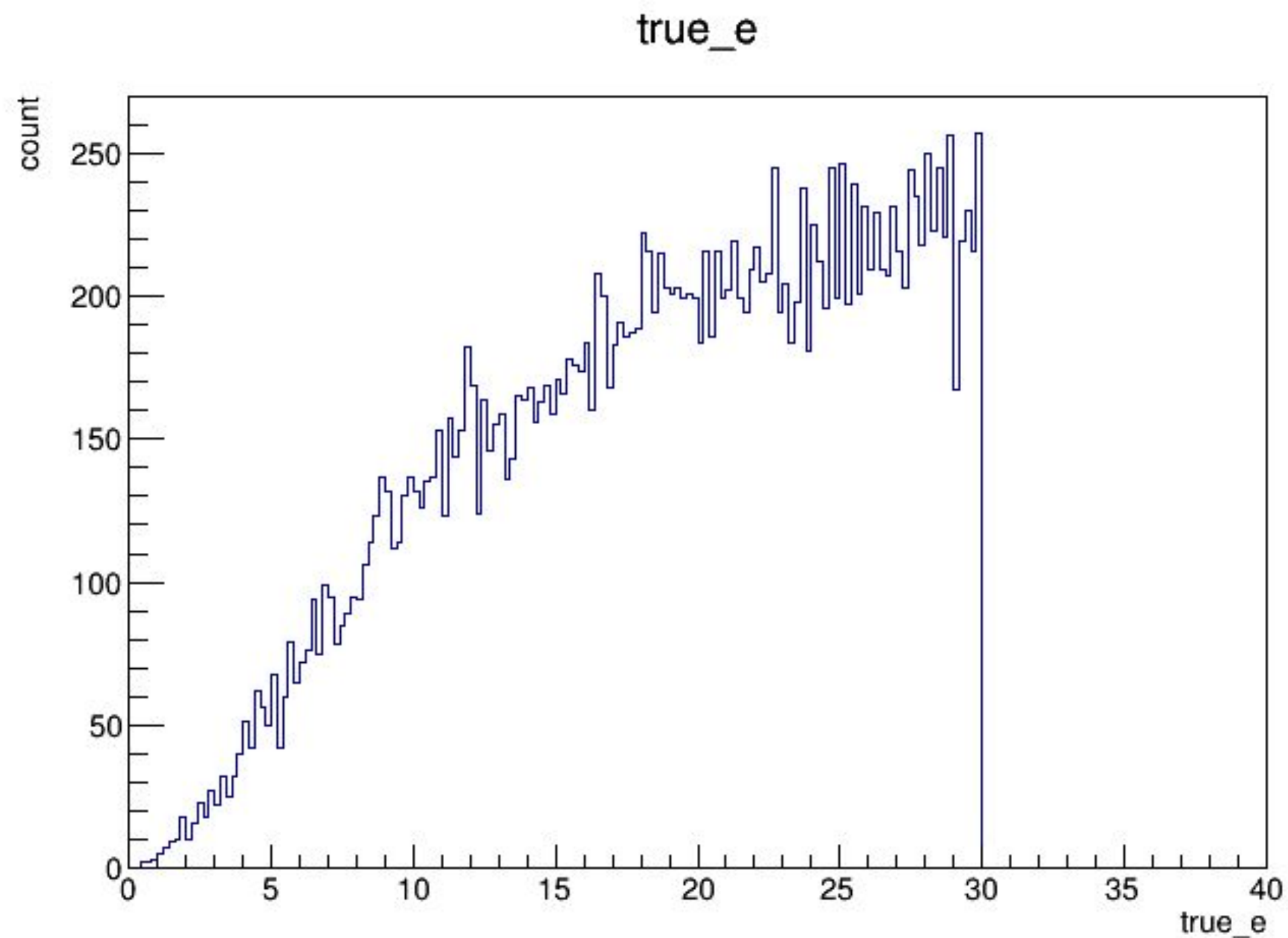
Kaon



HCALIN

HCALIN

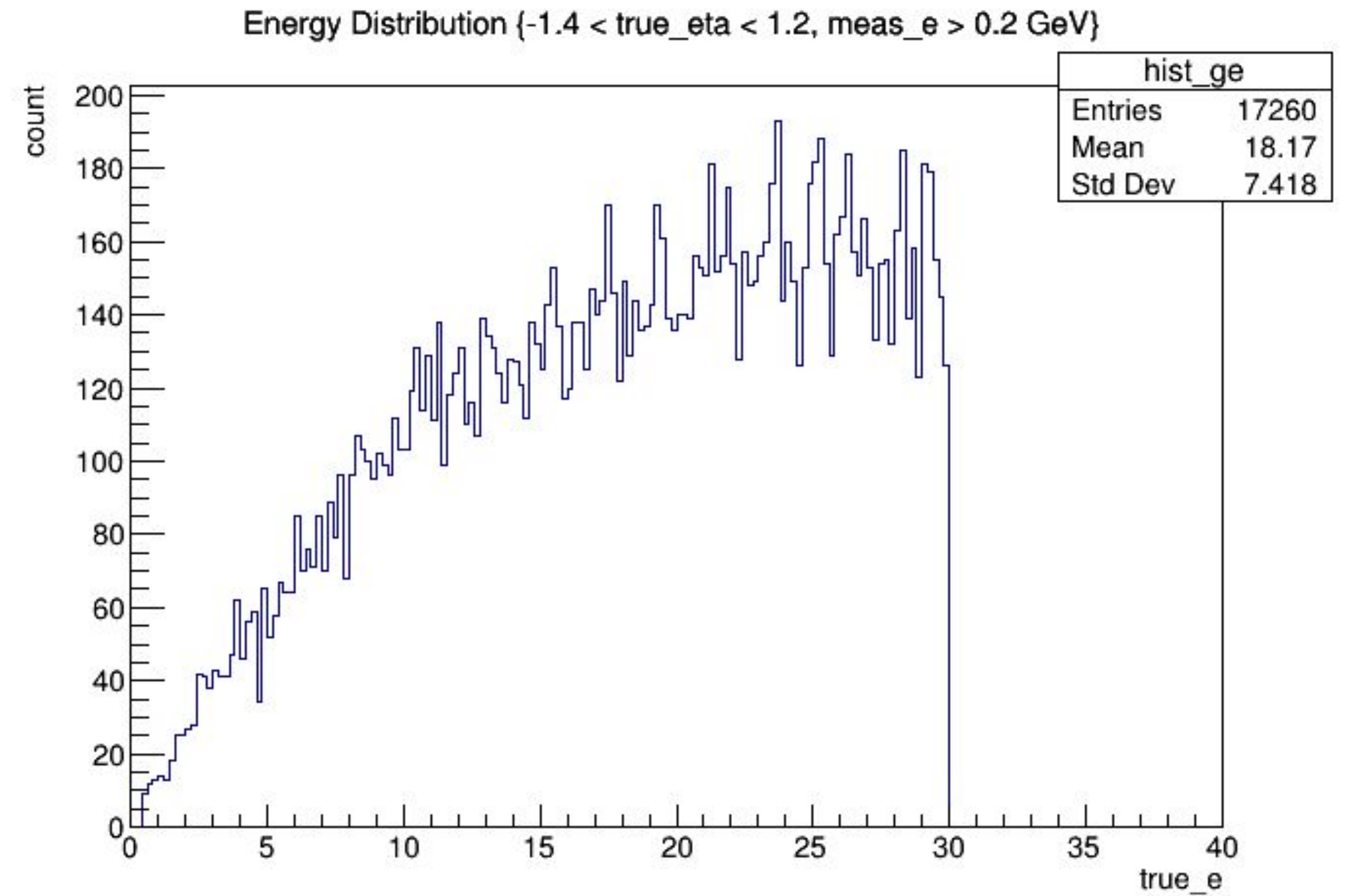
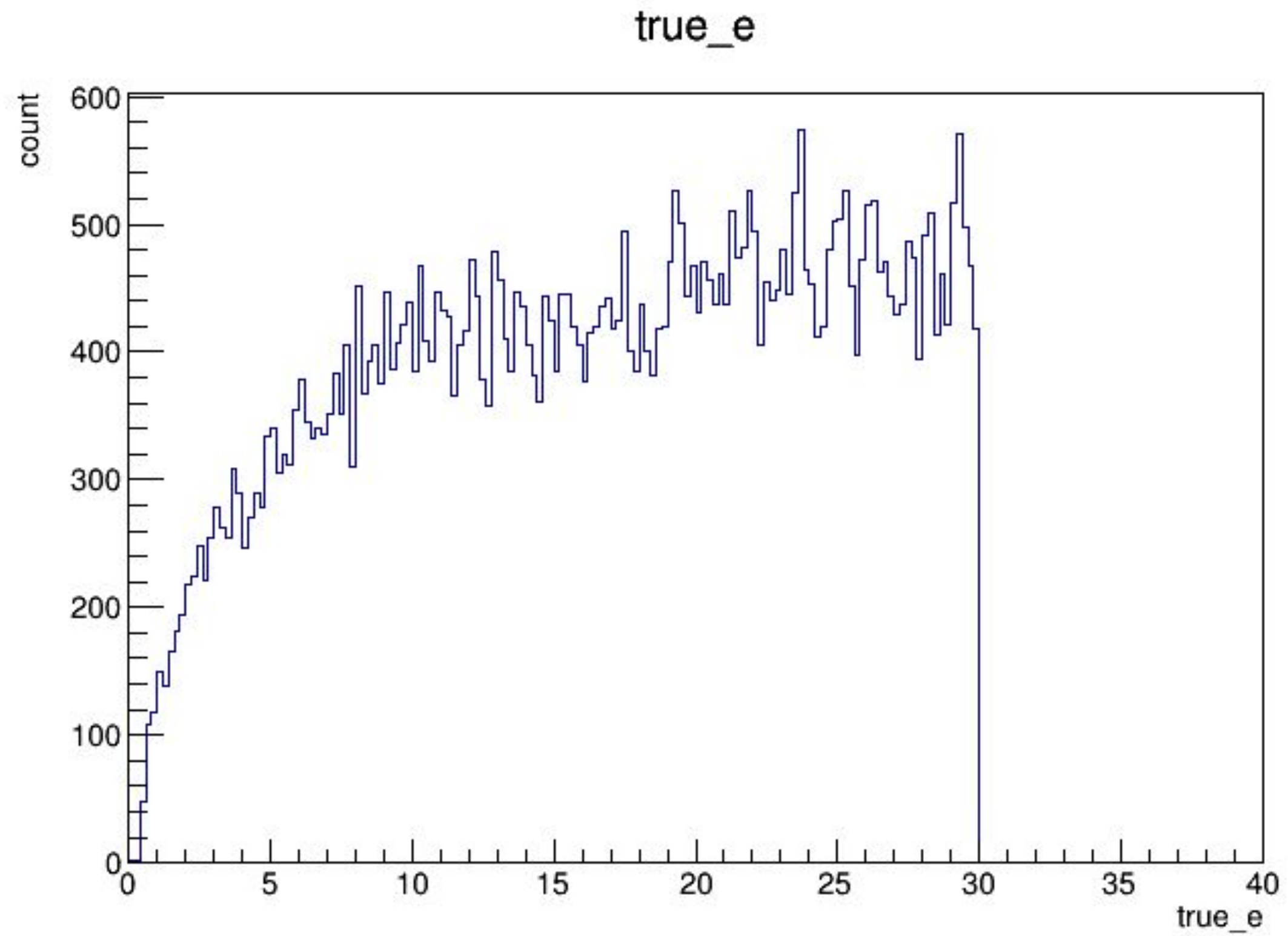
ge distribution



Electron

HCALIN

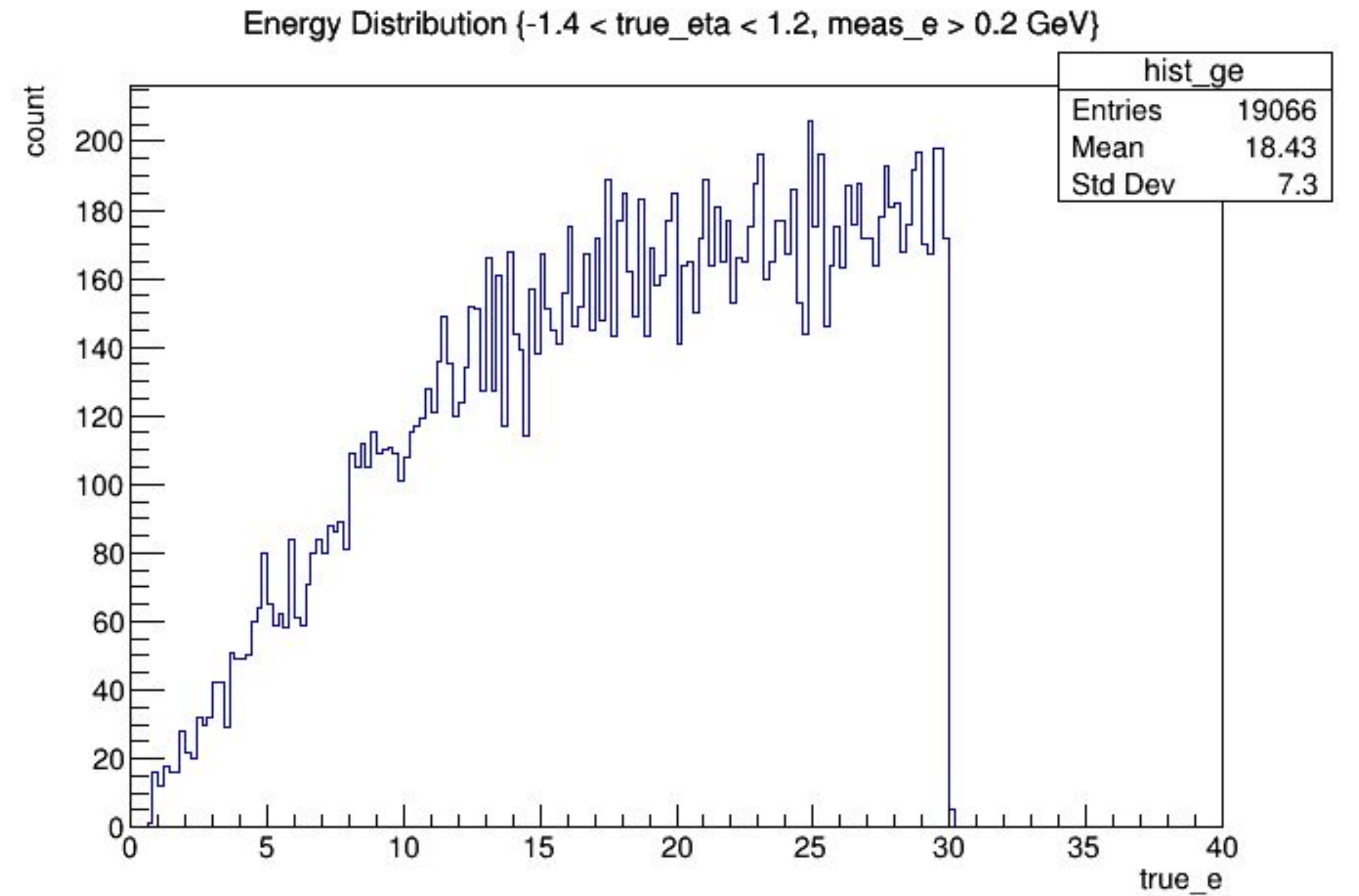
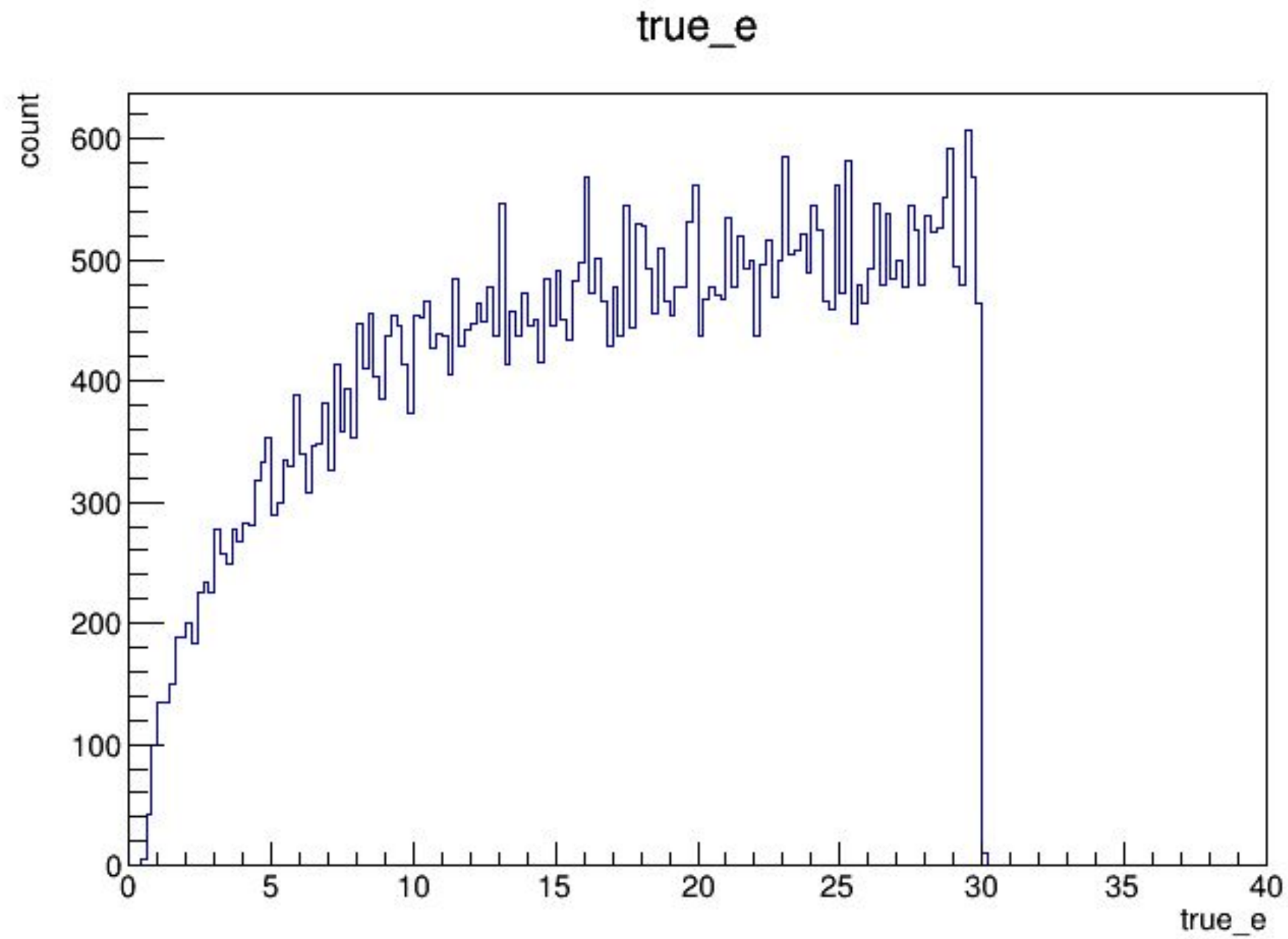
ge distribution



Pion

HCALIN

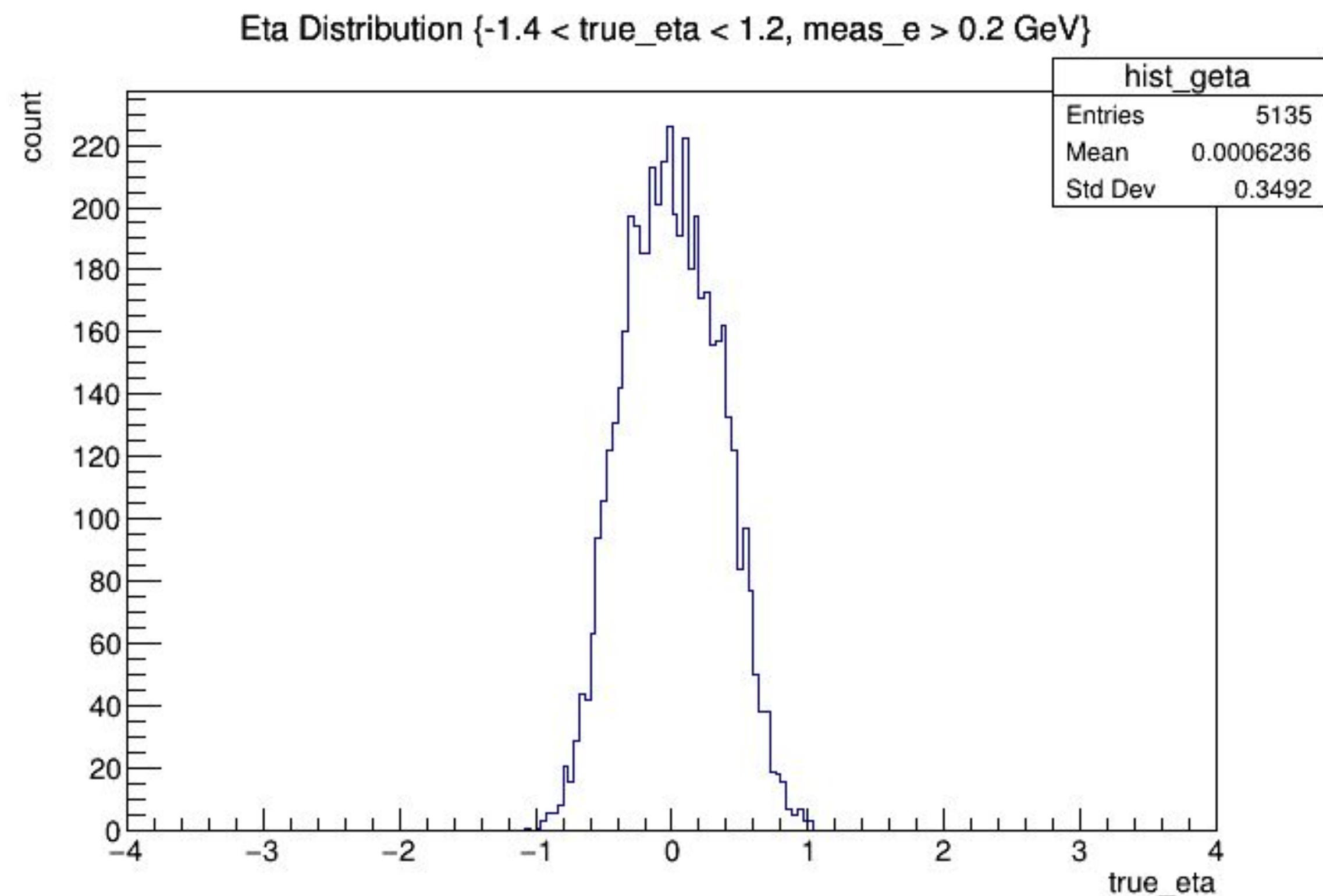
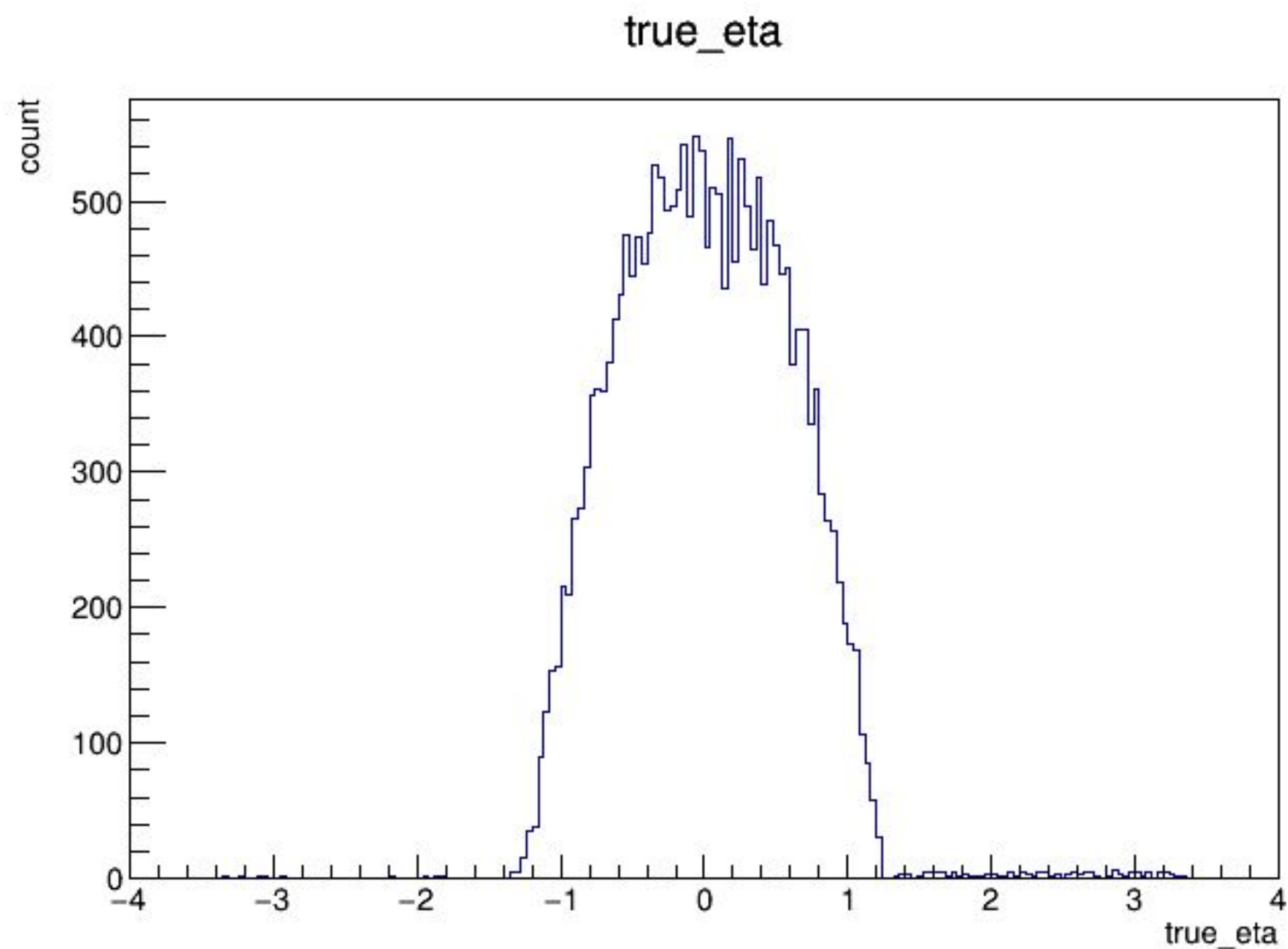
ge distribution



Kaon

HCALIN

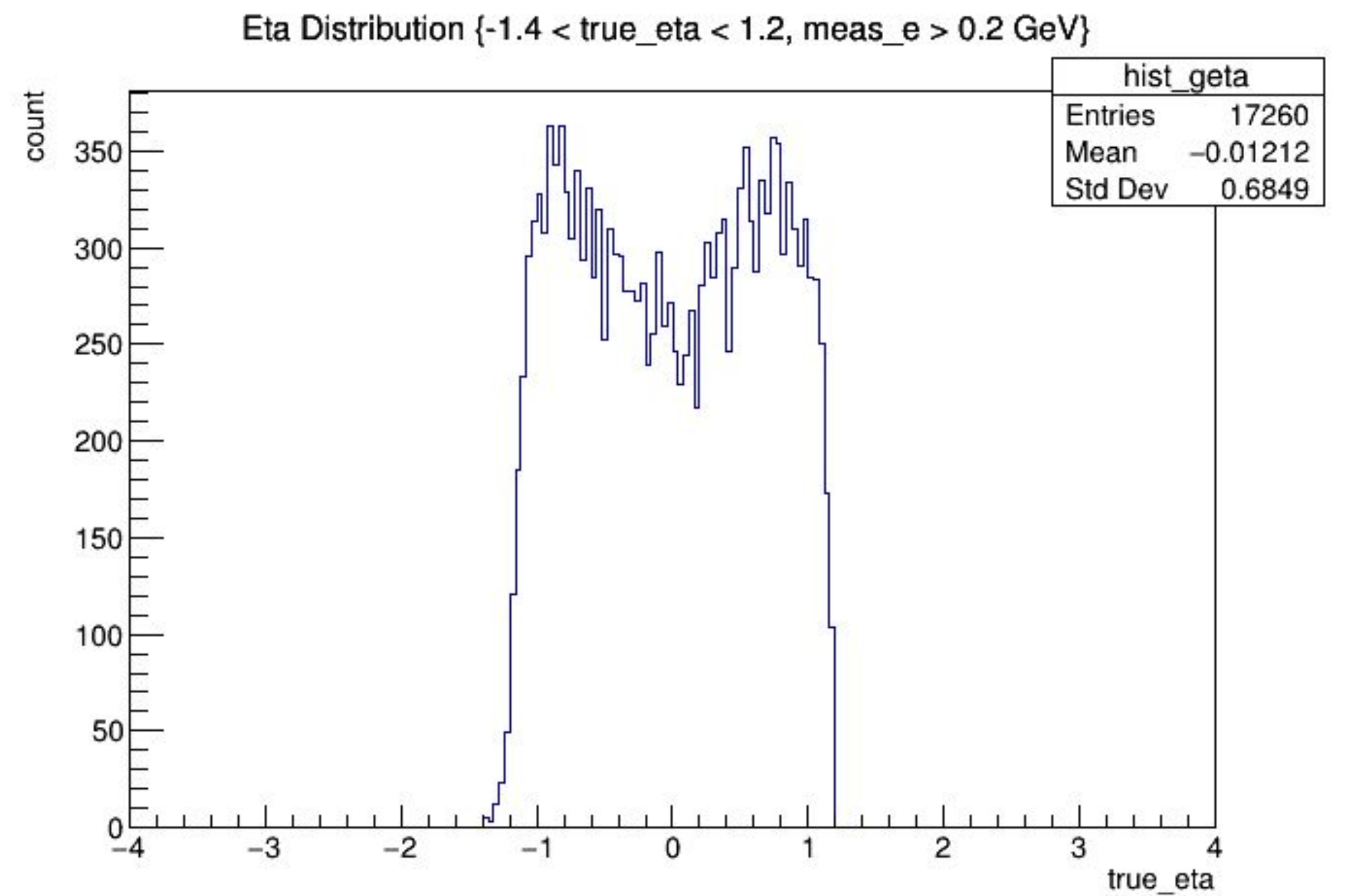
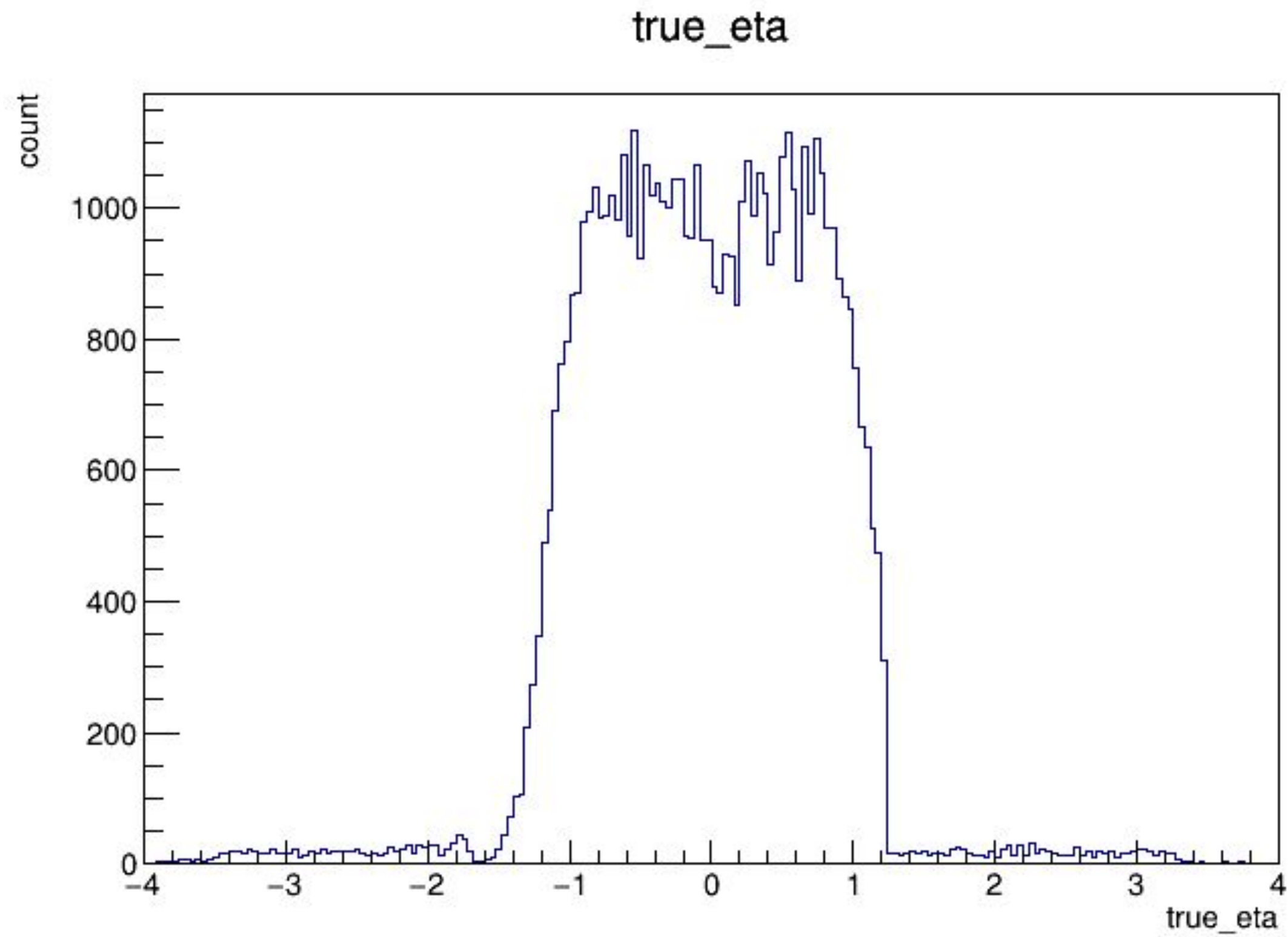
geta distribution



Electron

HCALIN

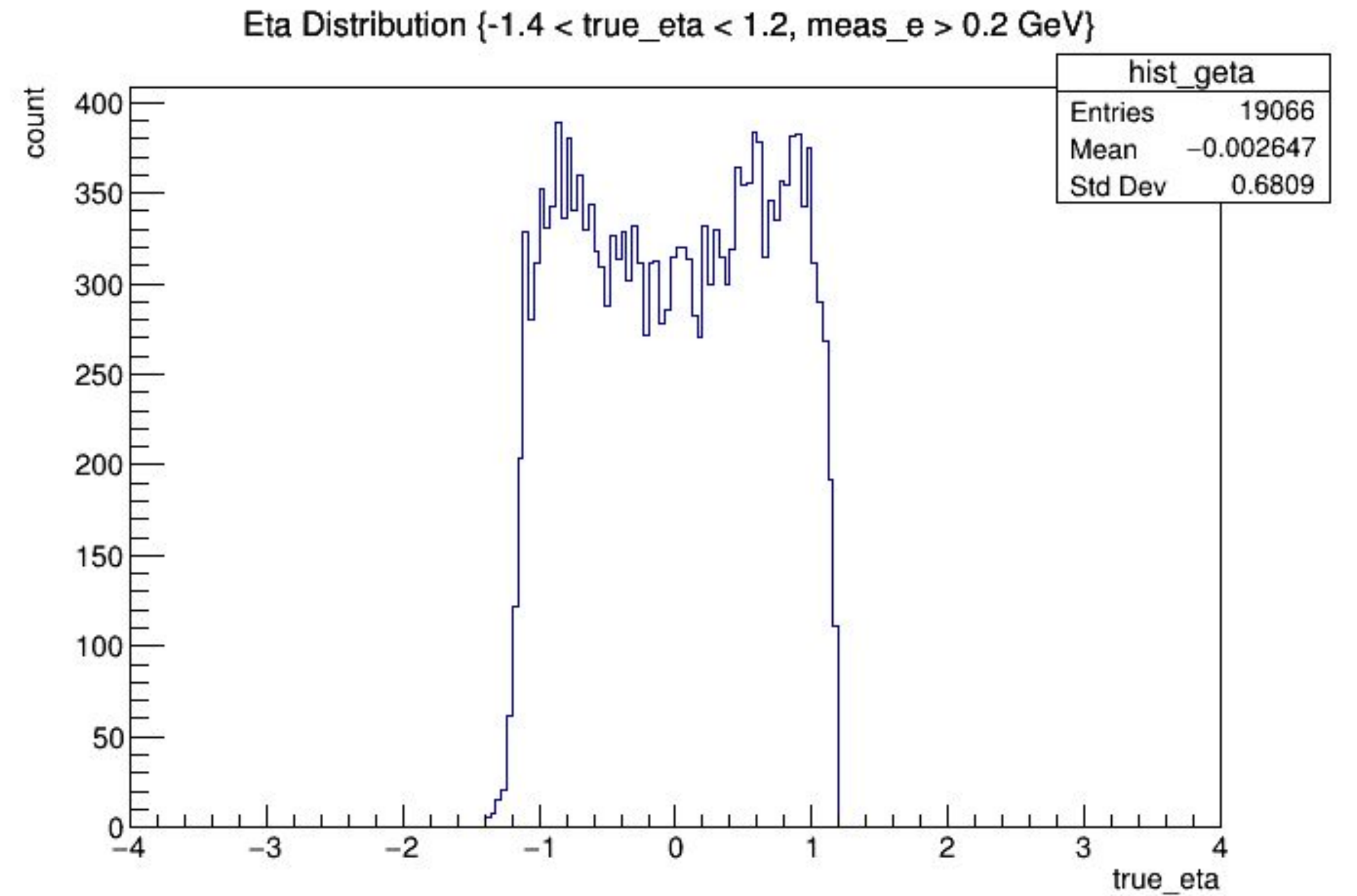
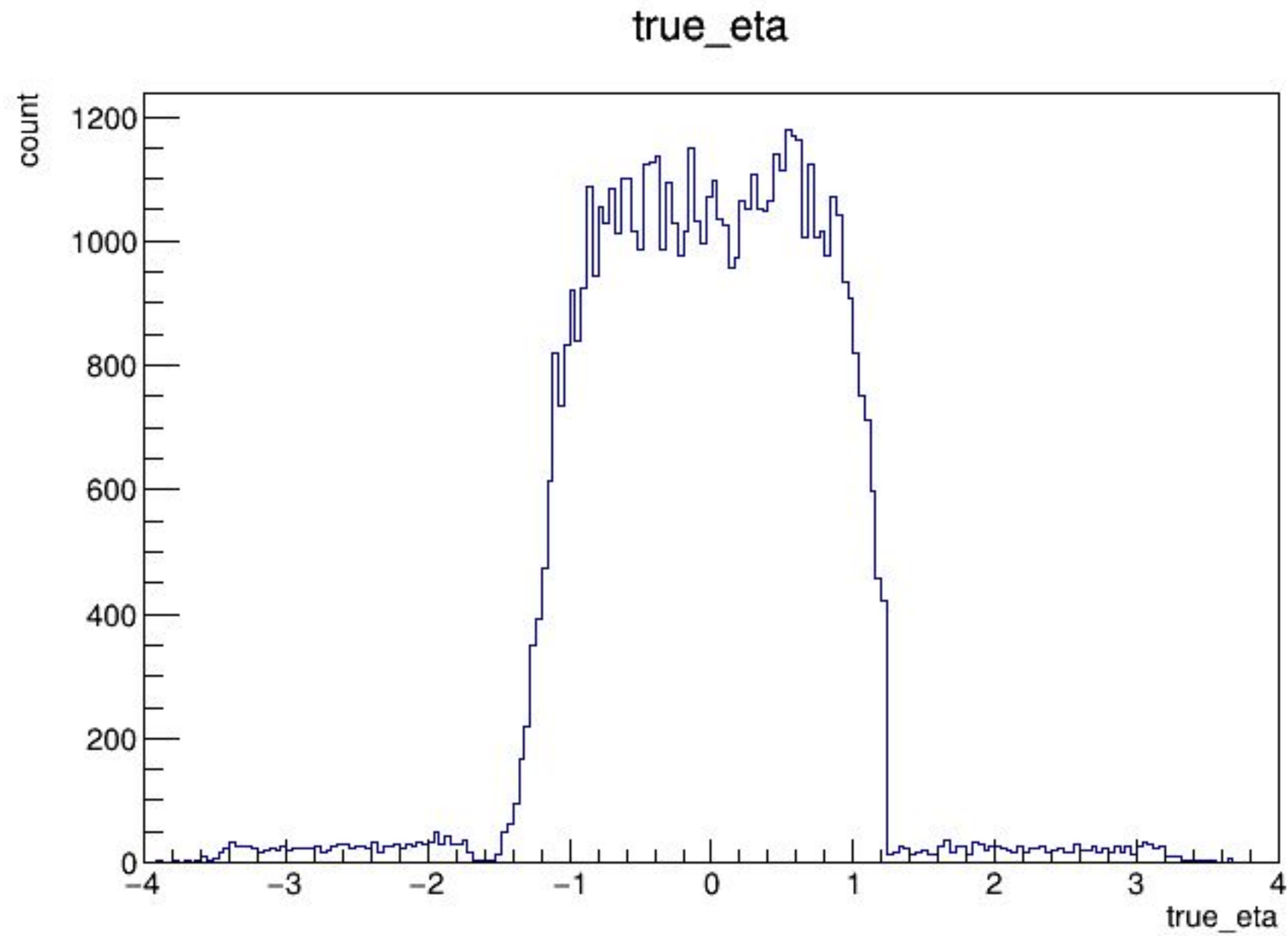
geta distribution



Pion

HCALIN

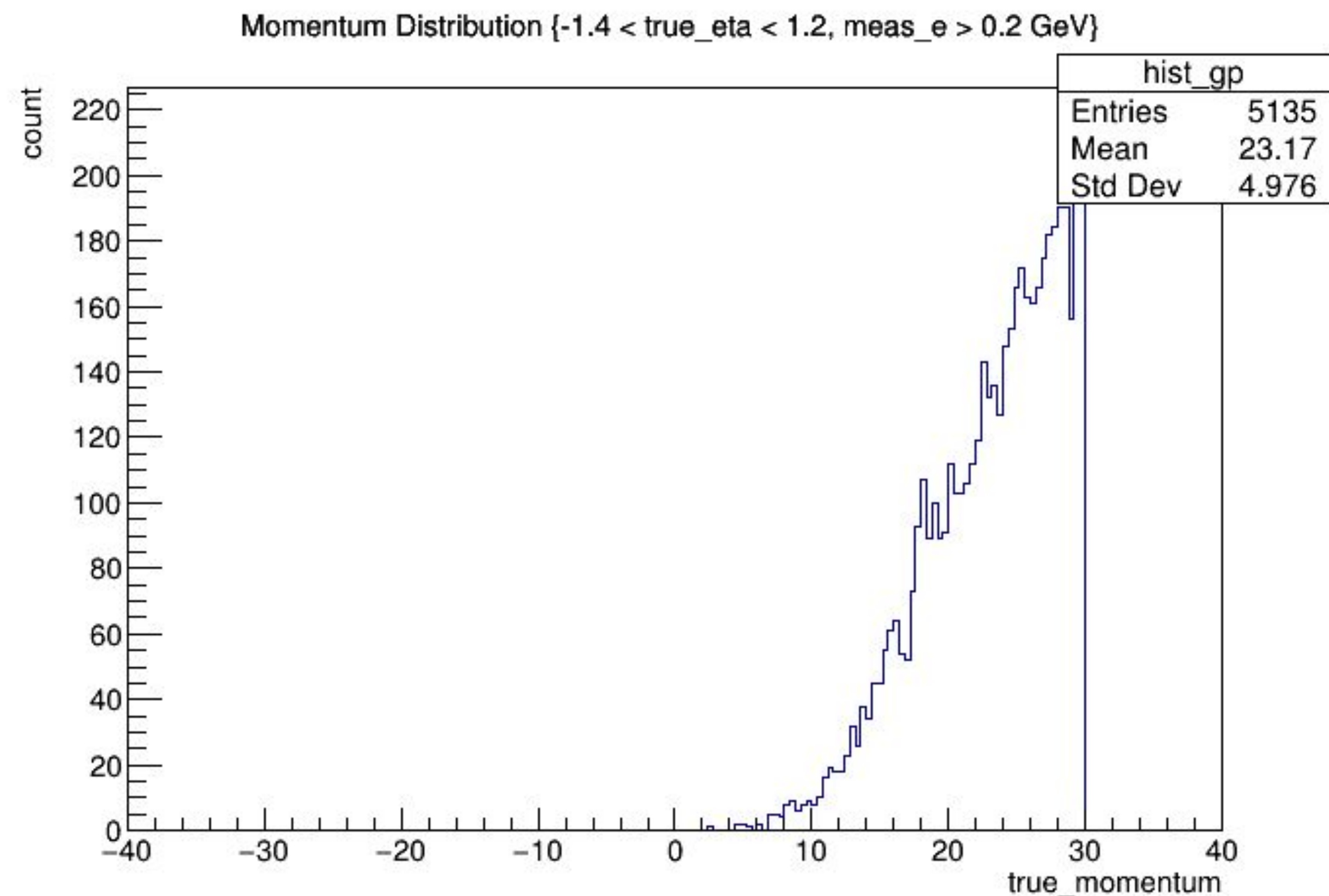
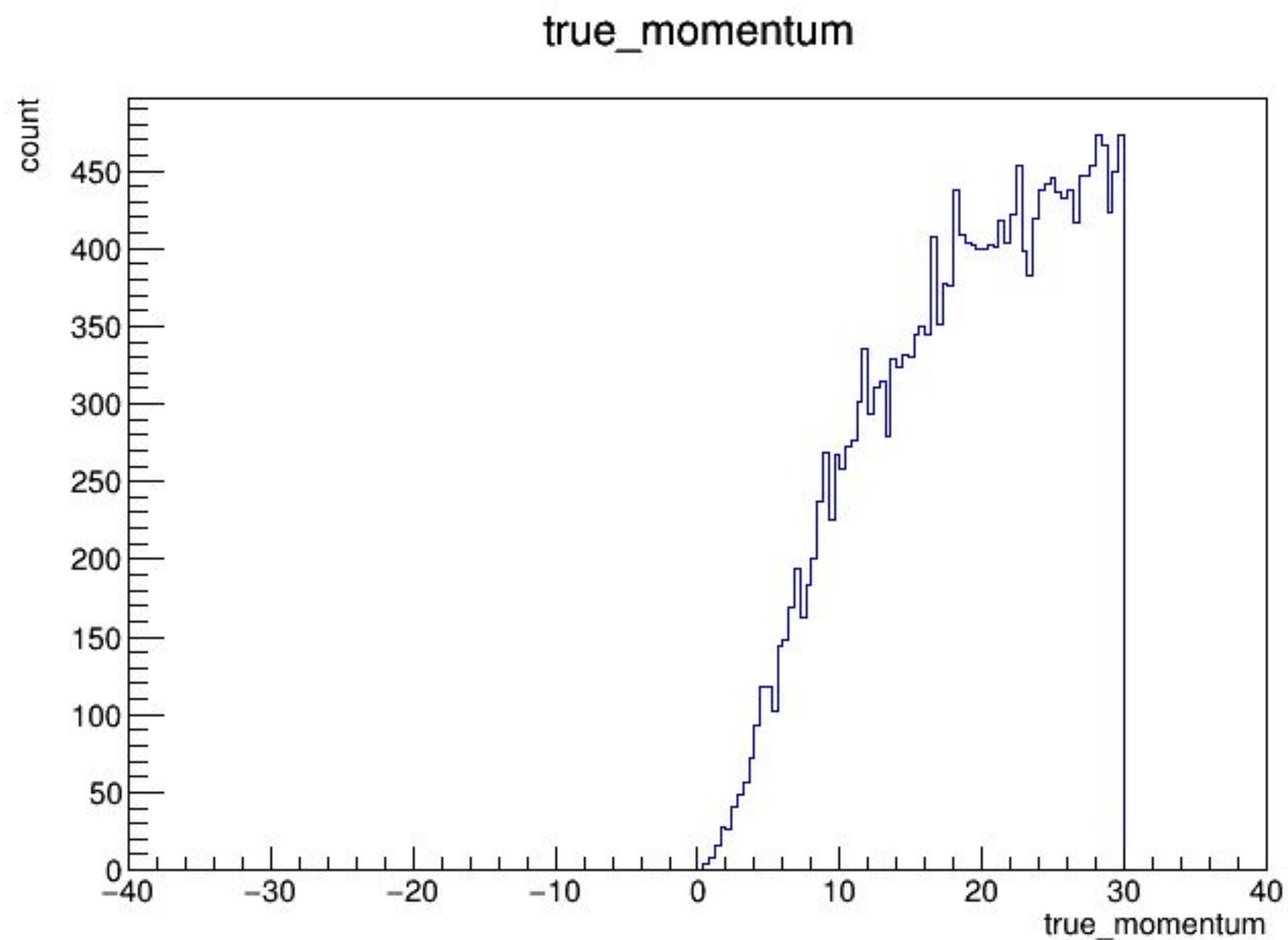
geta distribution



Kaon

HCALIN

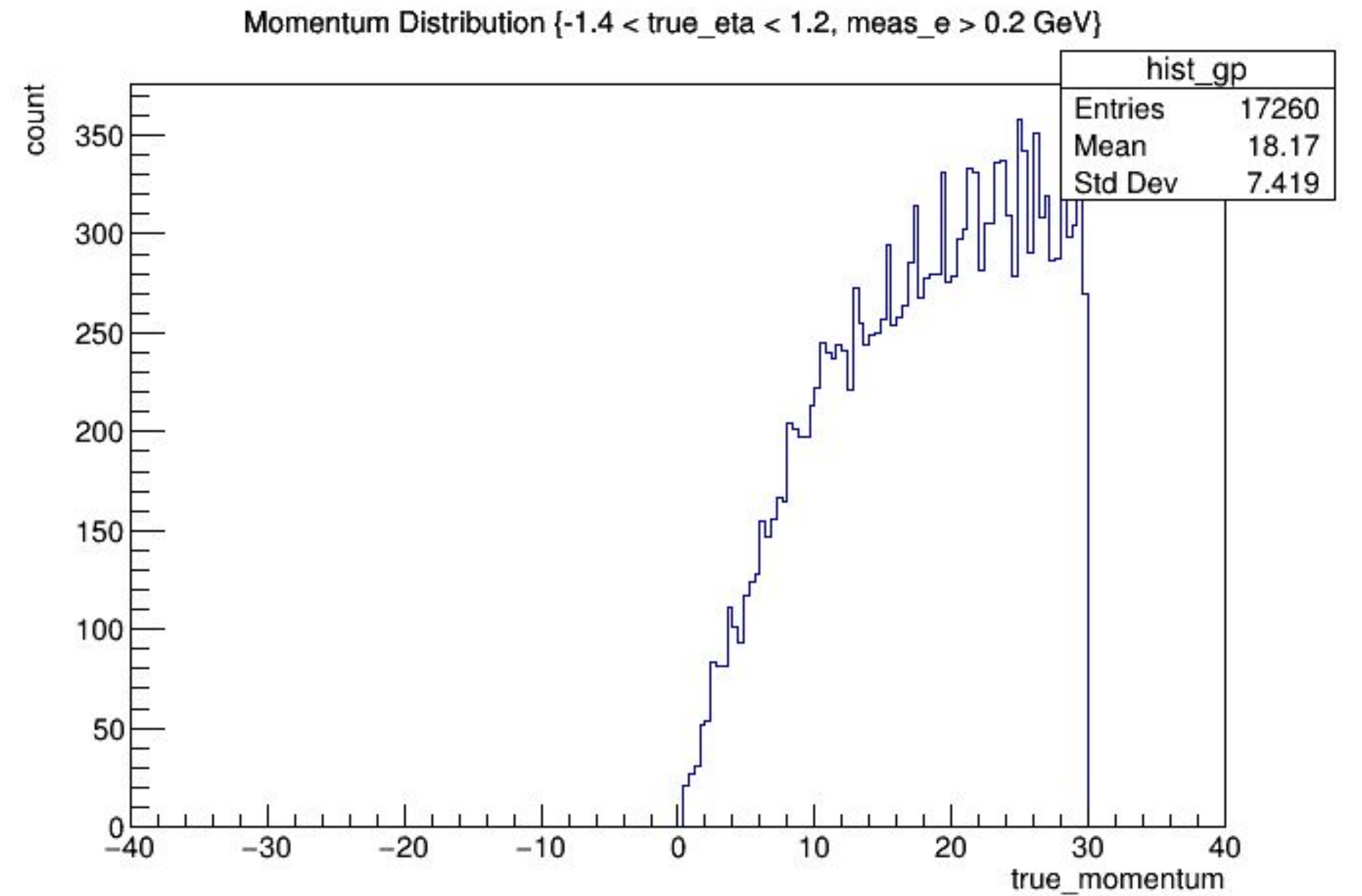
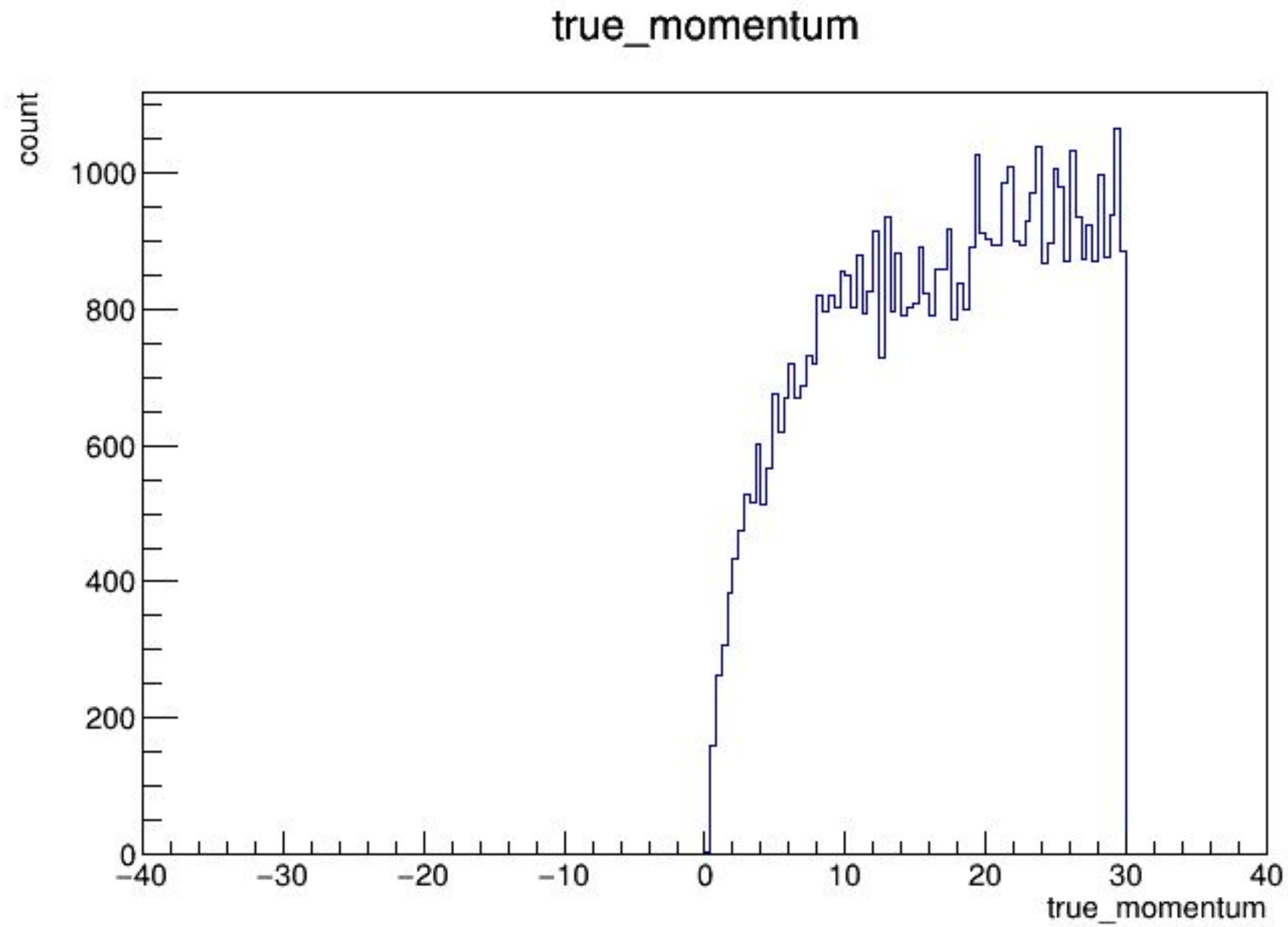
Momentum distribution



Electron

HCALIN

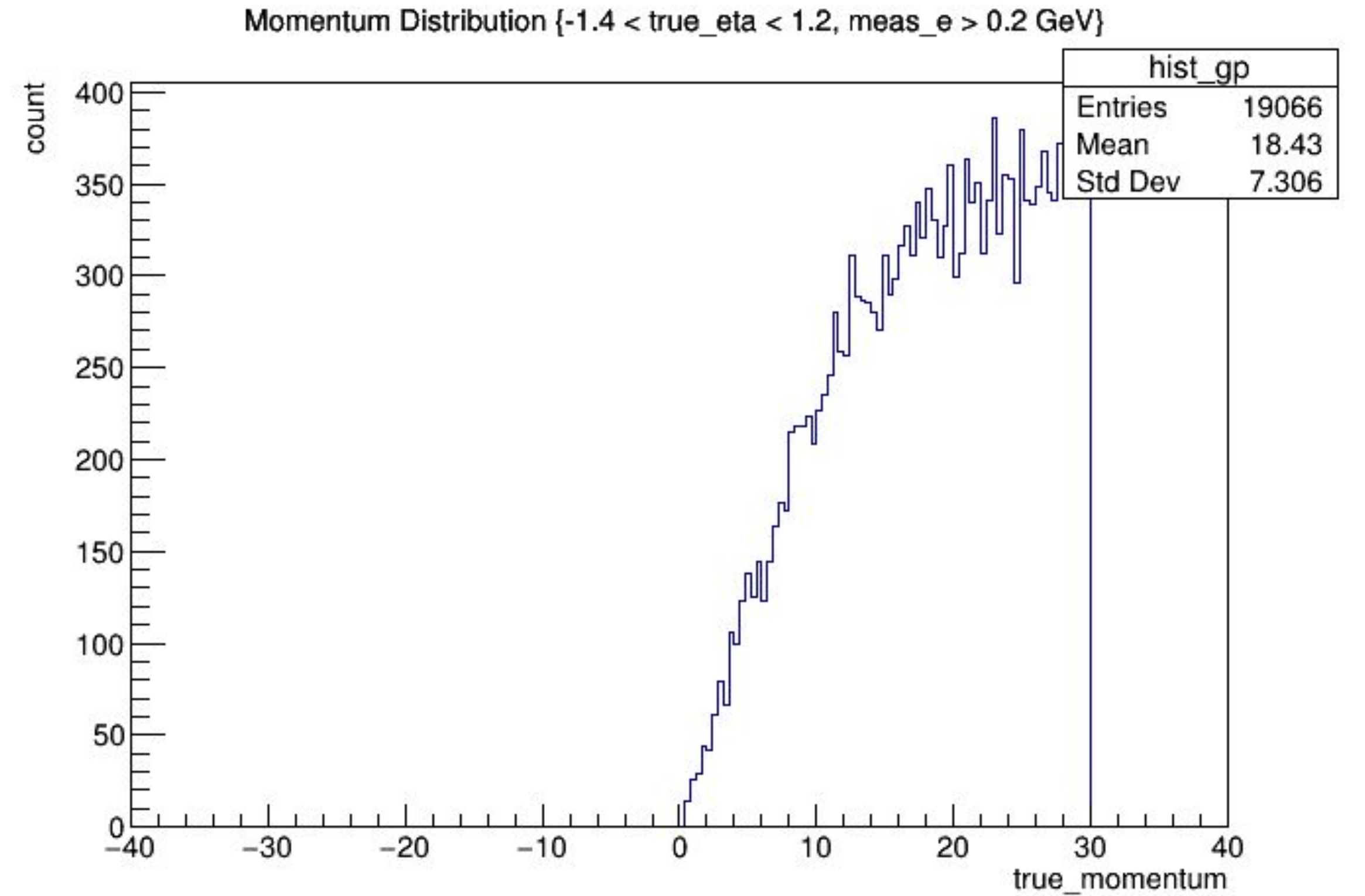
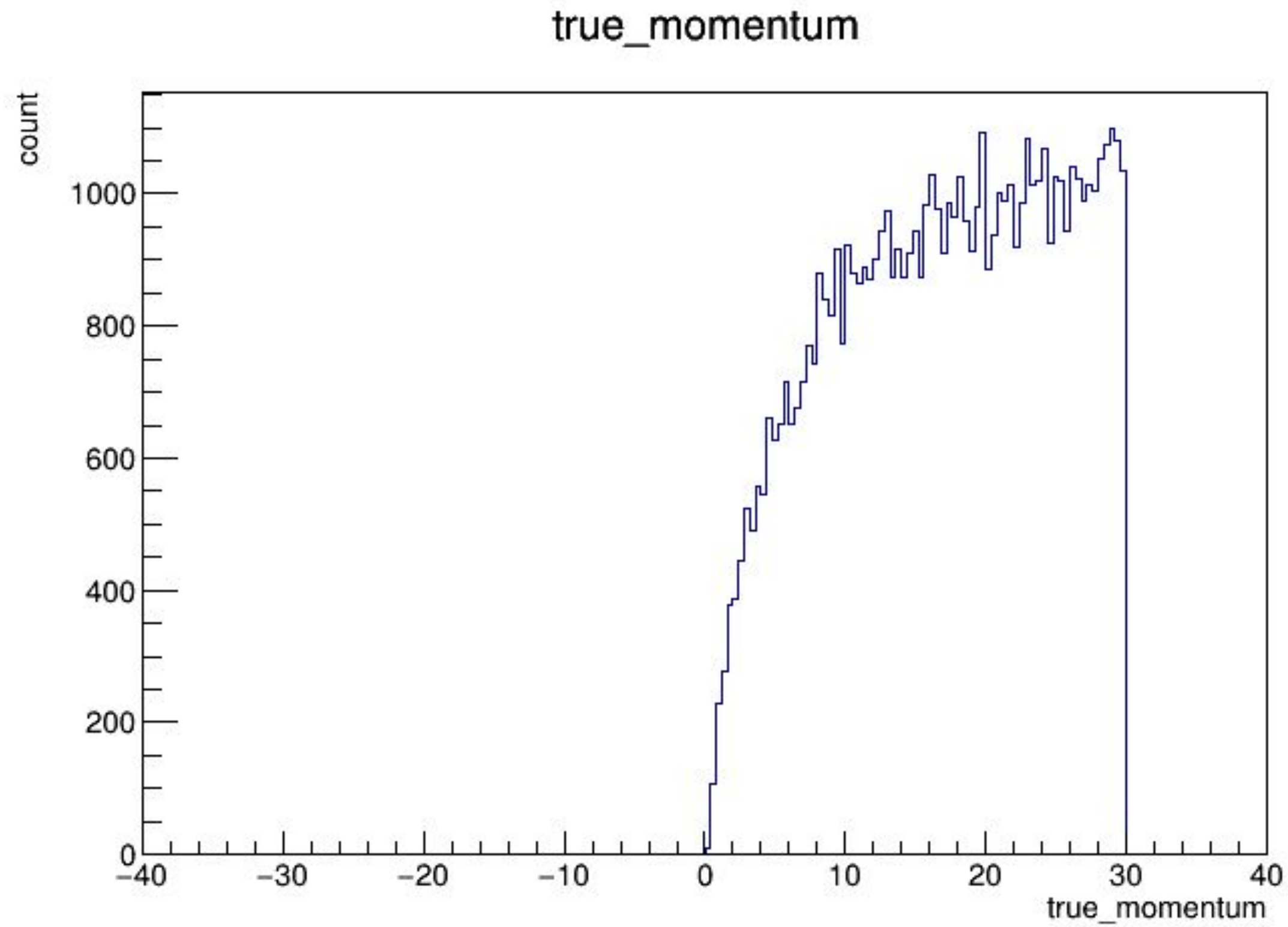
Momentum distribution



Pion

HCALIN

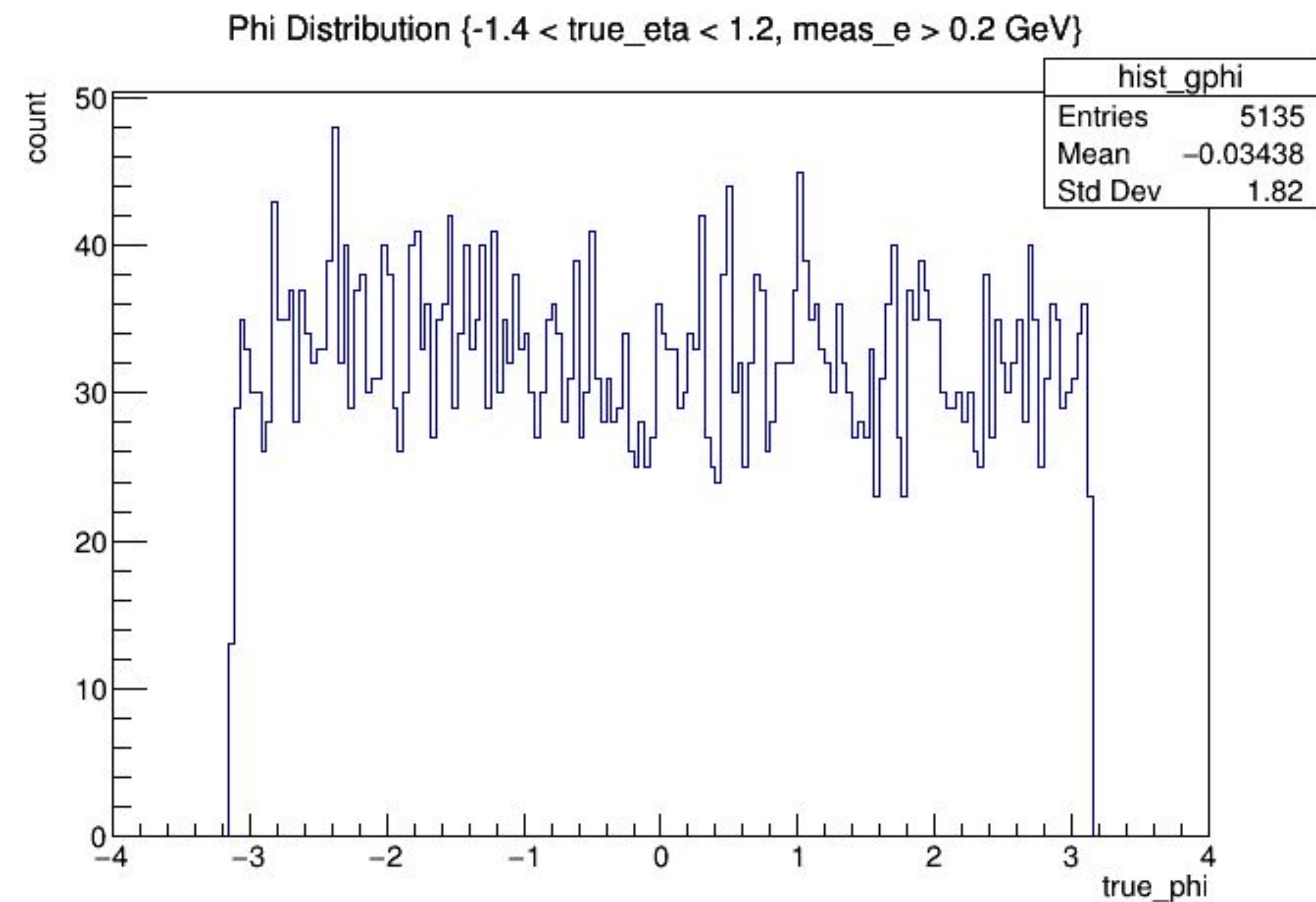
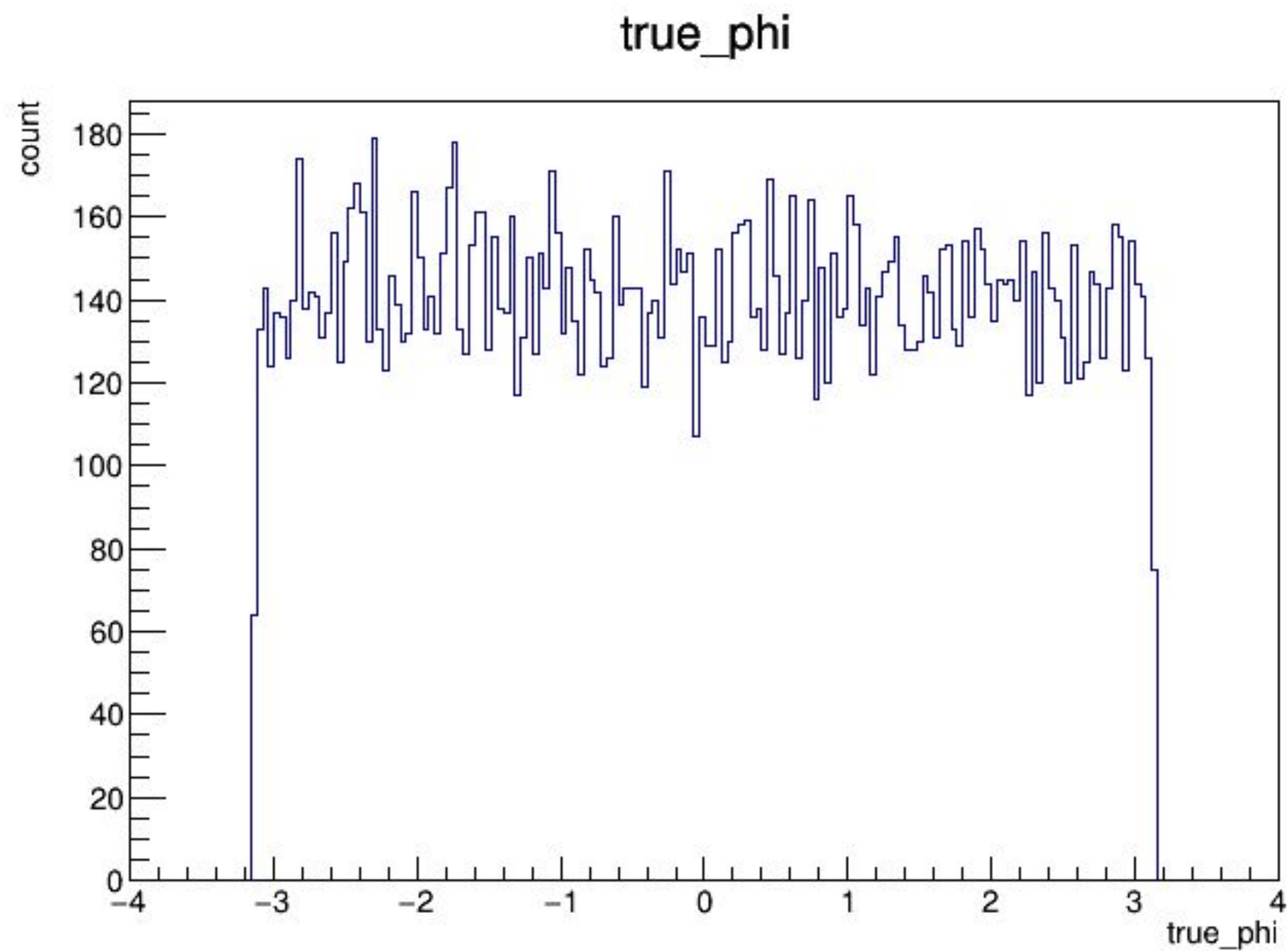
Momentum distribution



Kaon

HCALIN

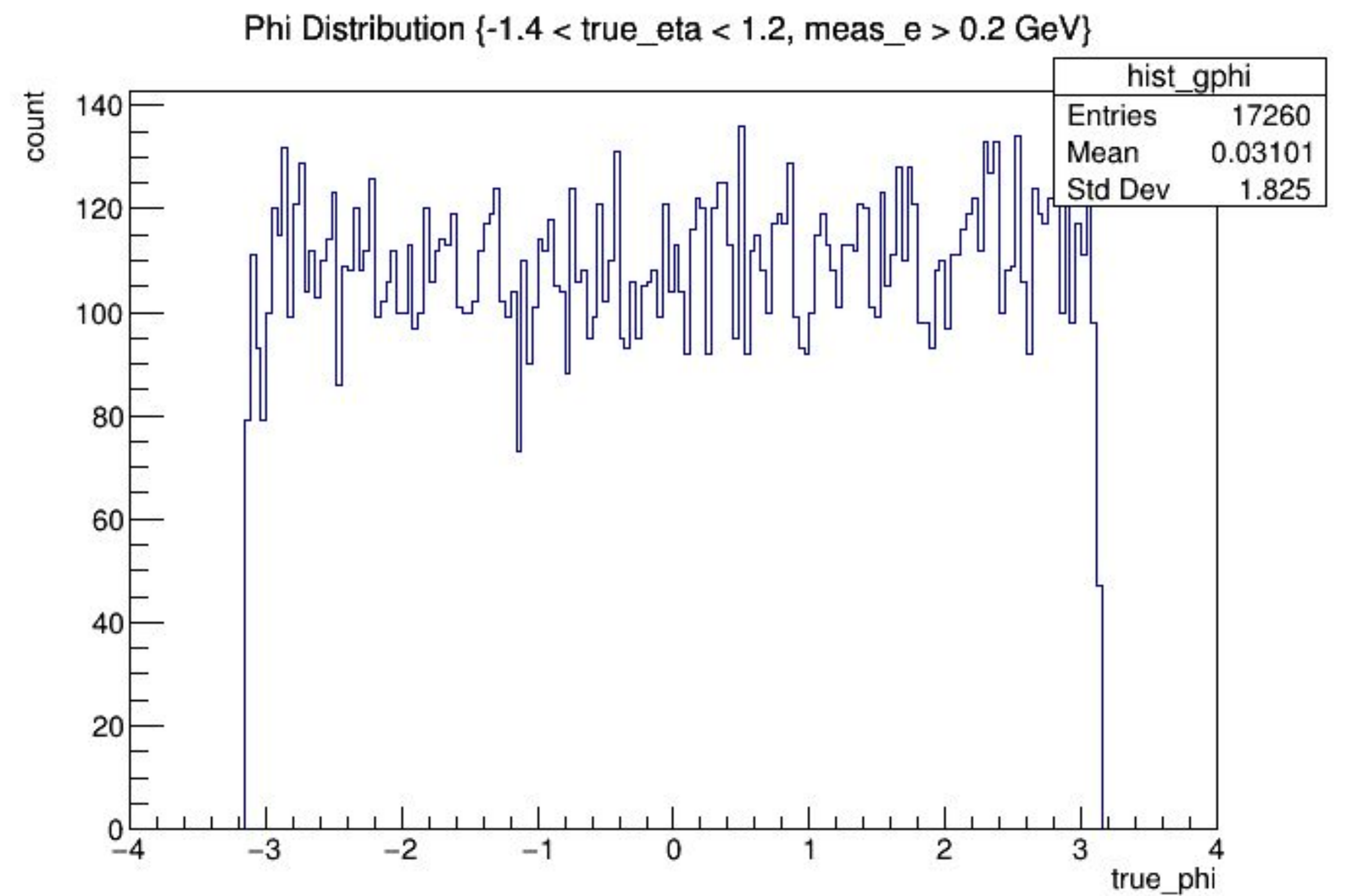
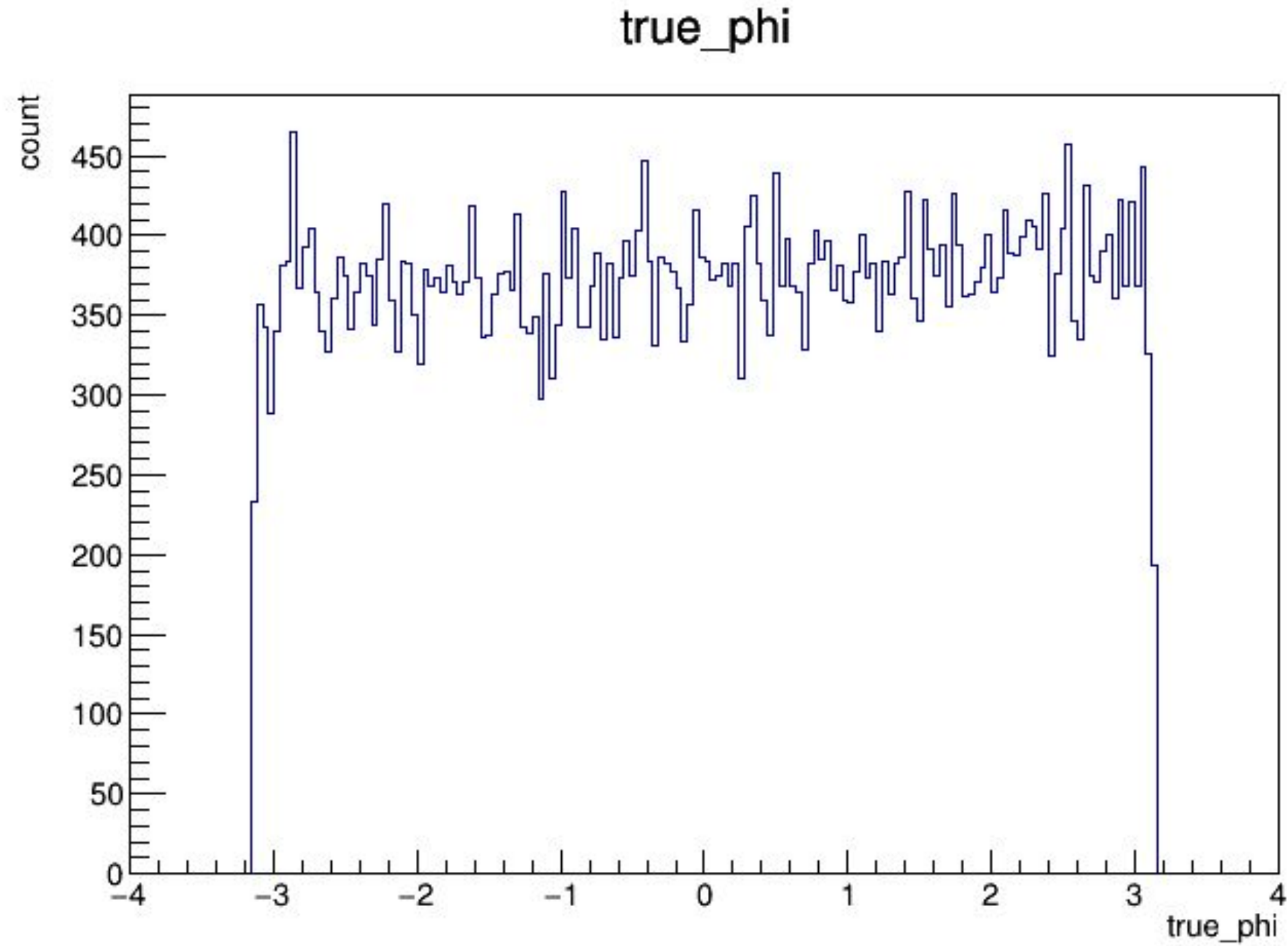
Phi distribution



Electron

HCALIN

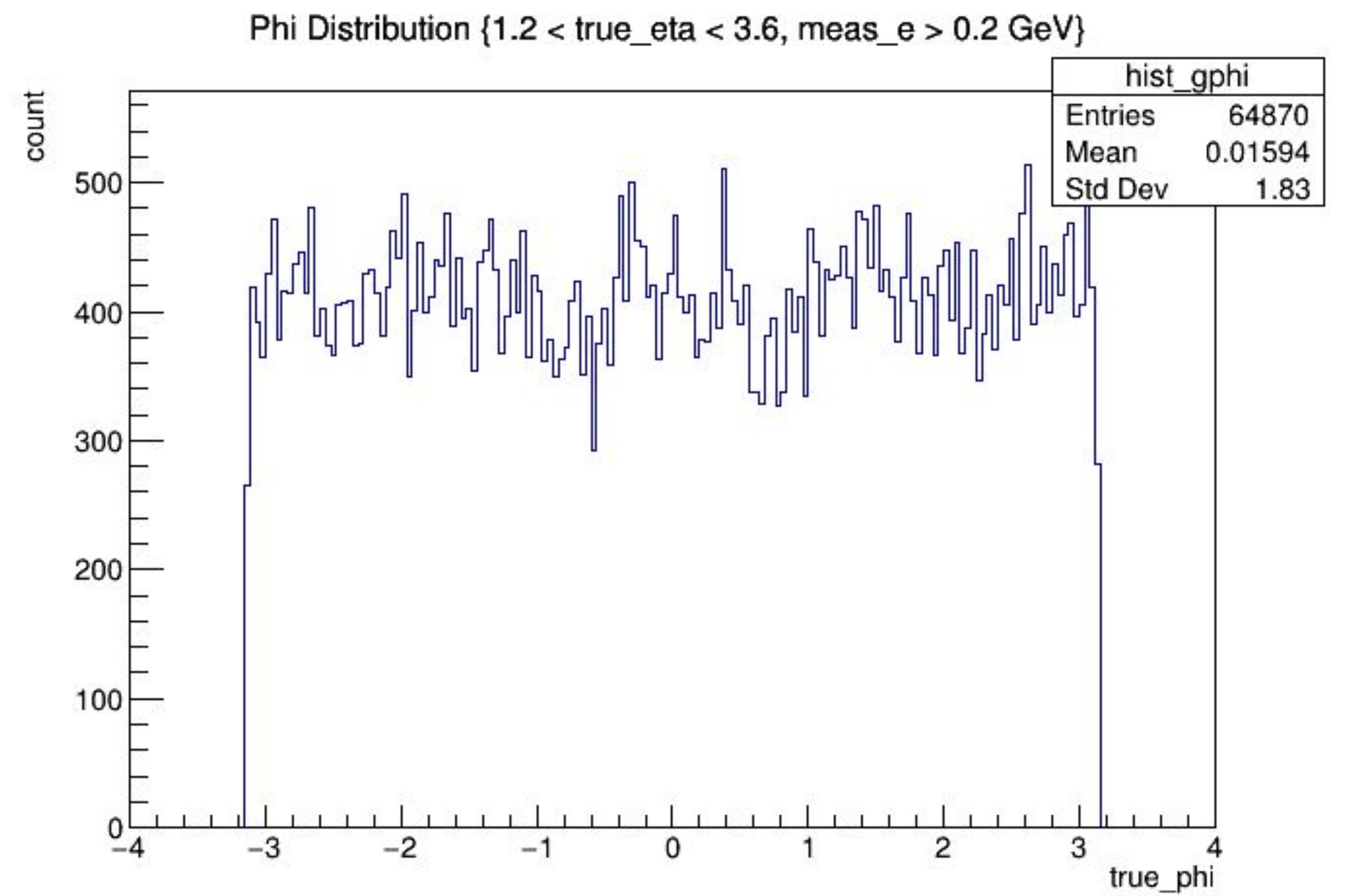
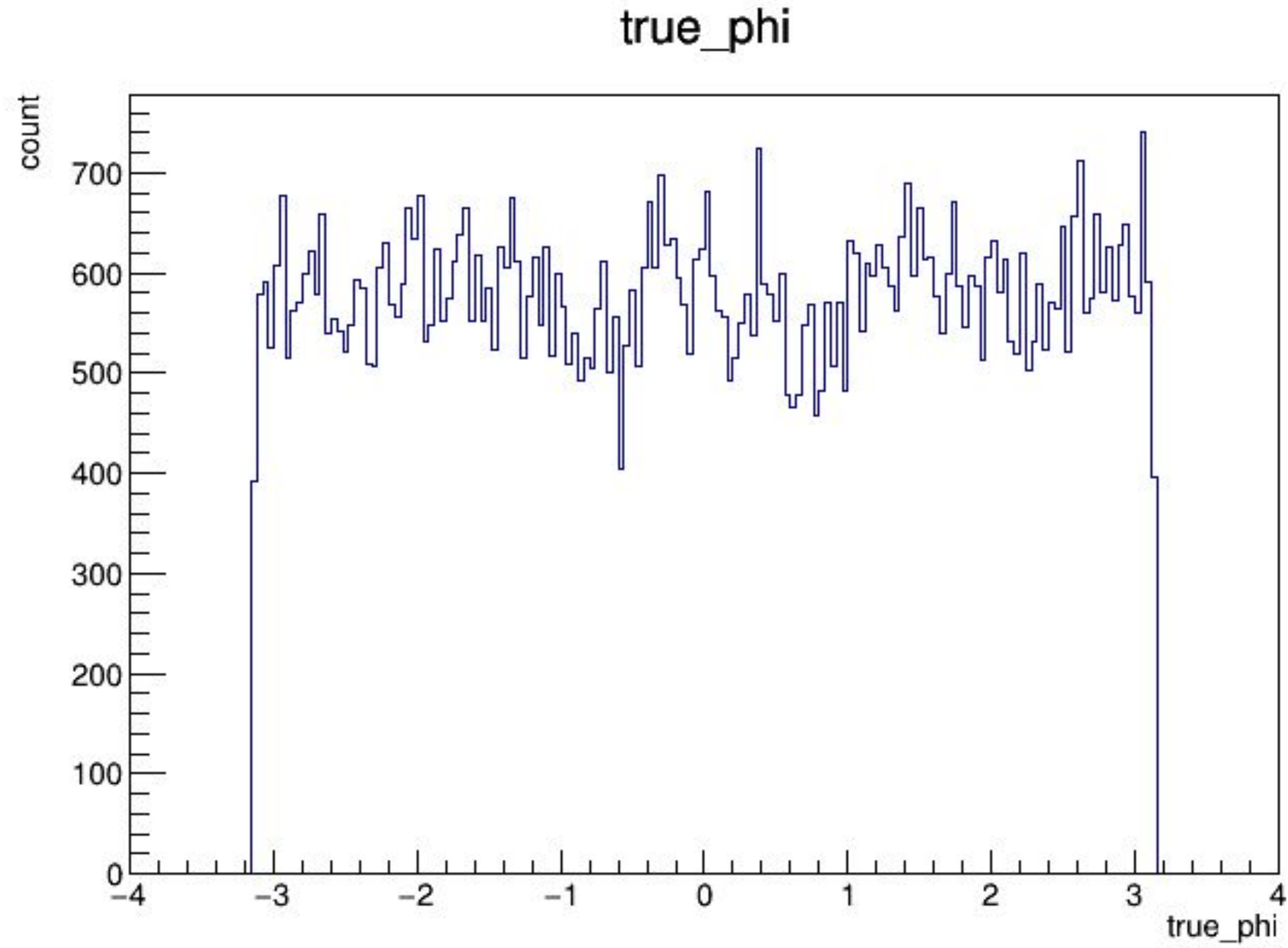
Phi distribution



Pion

HCALIN

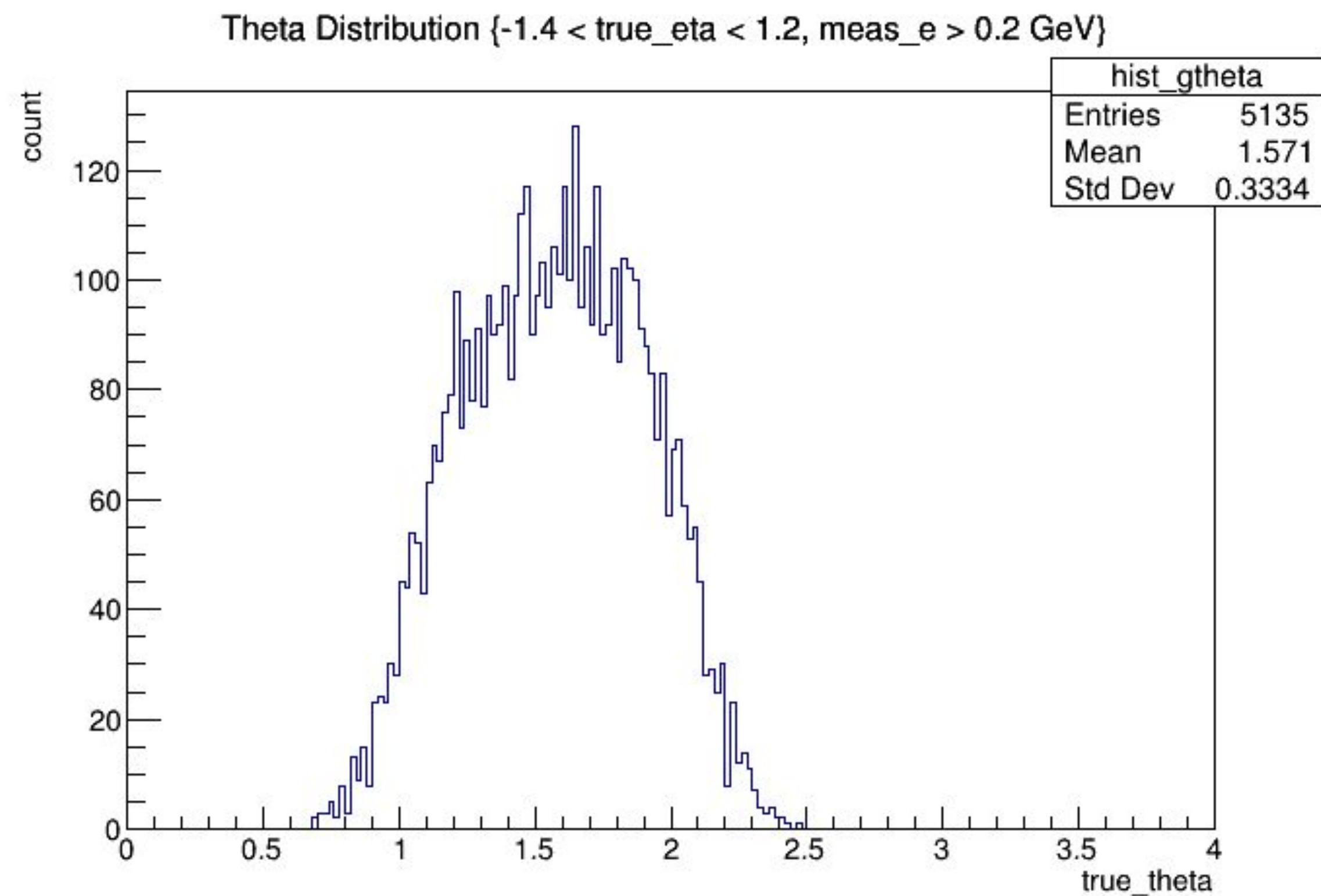
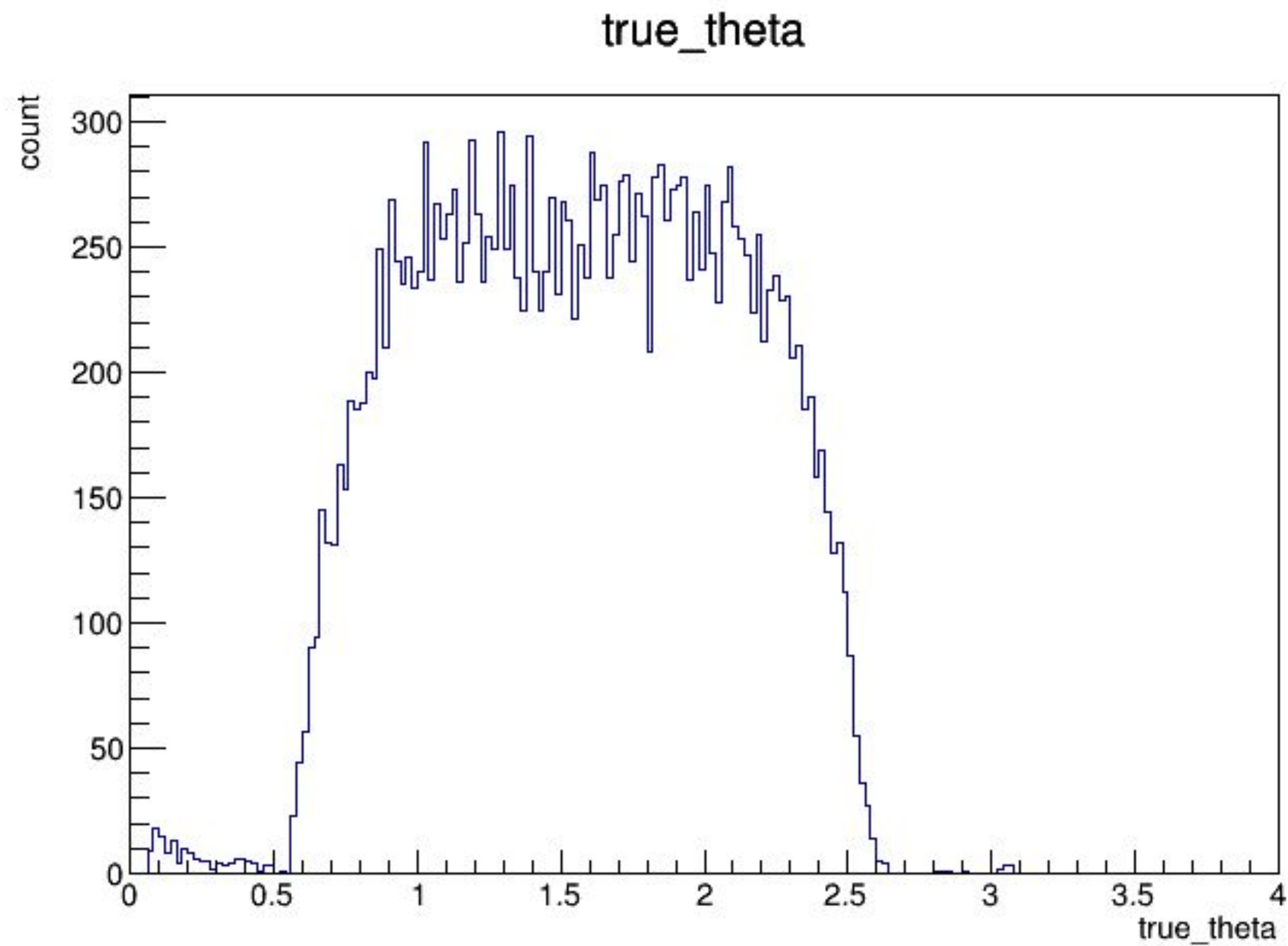
Phi distribution



Kaon

HCALIN

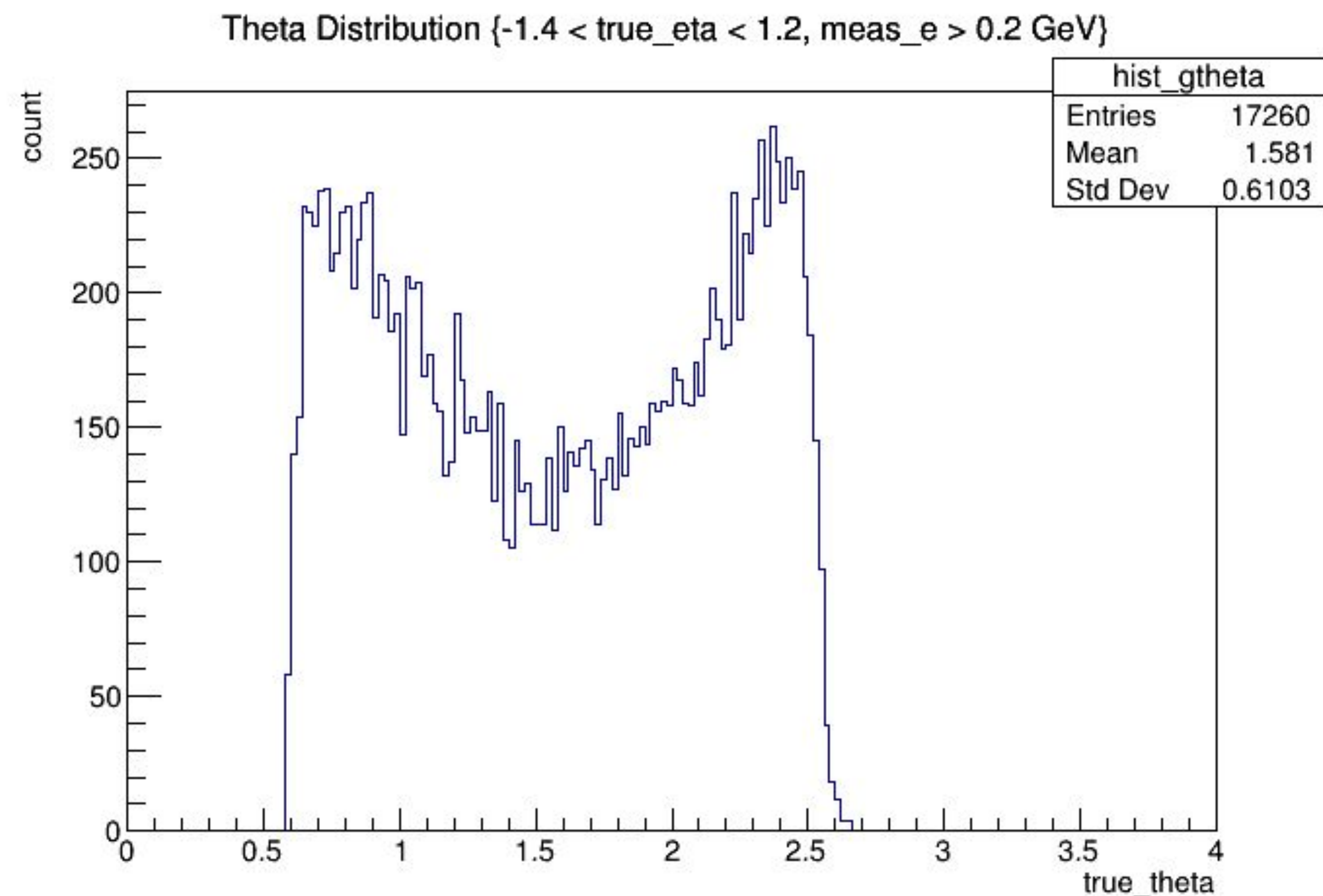
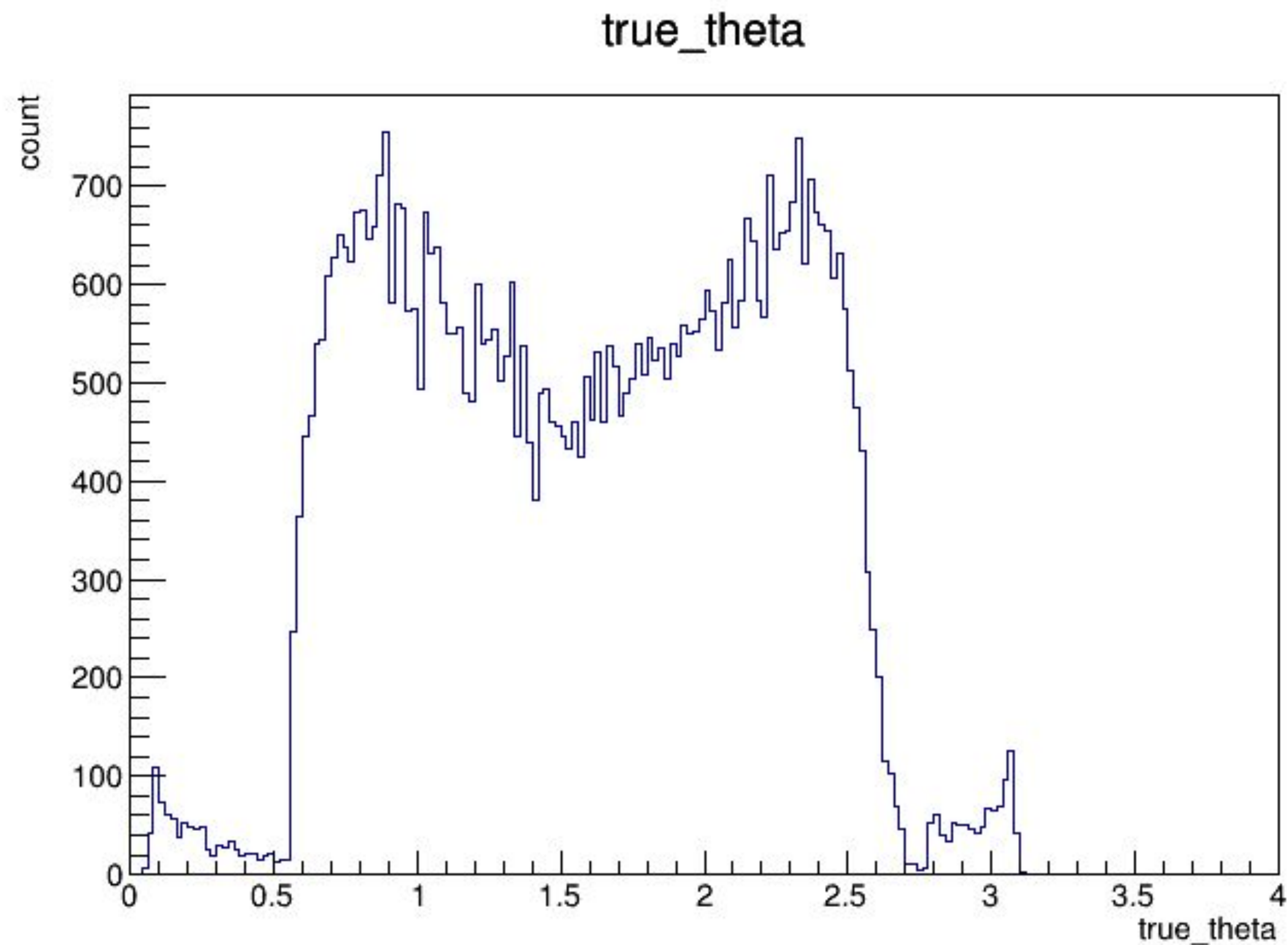
Theta distribution



Electron

HCALIN

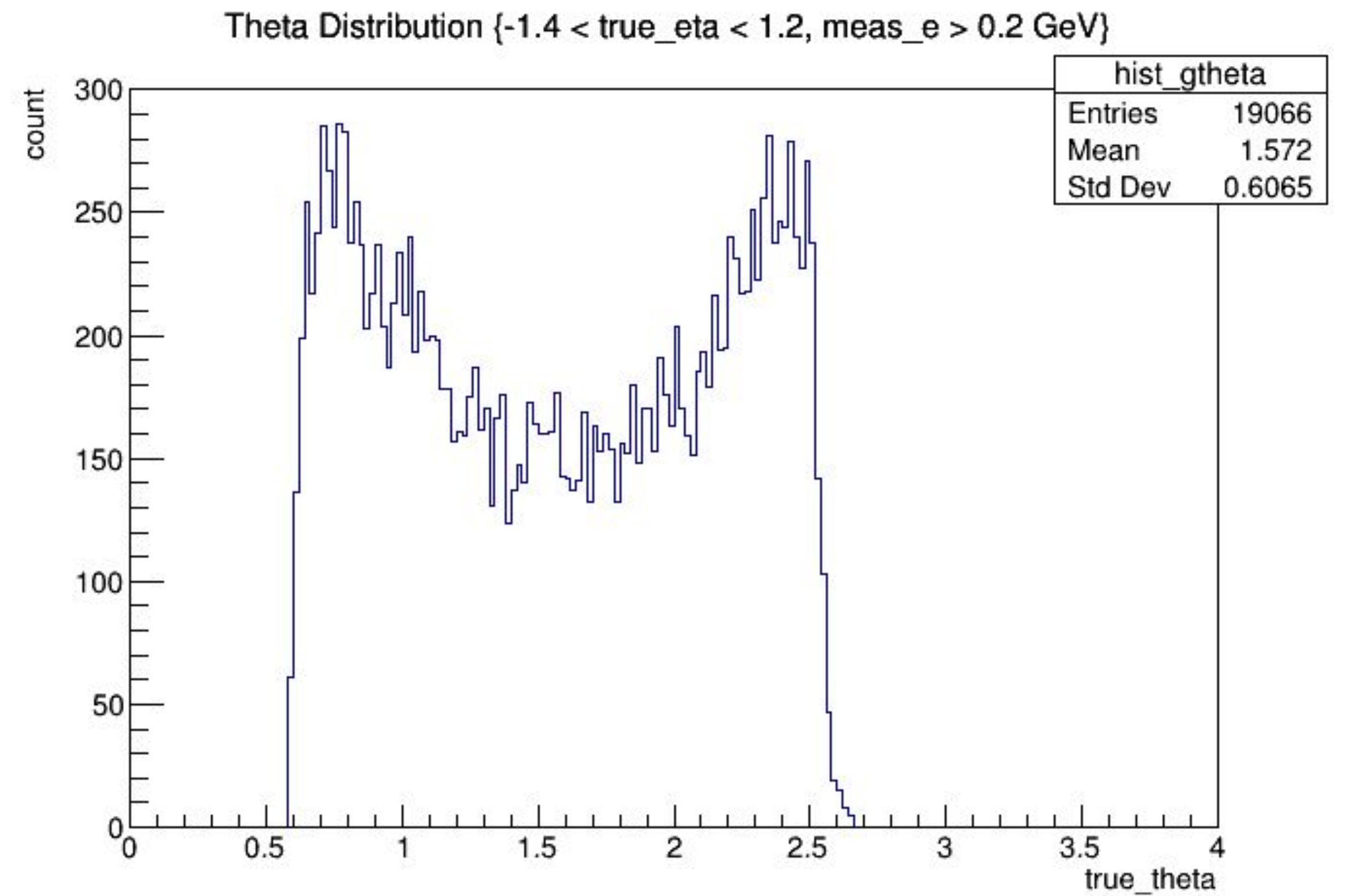
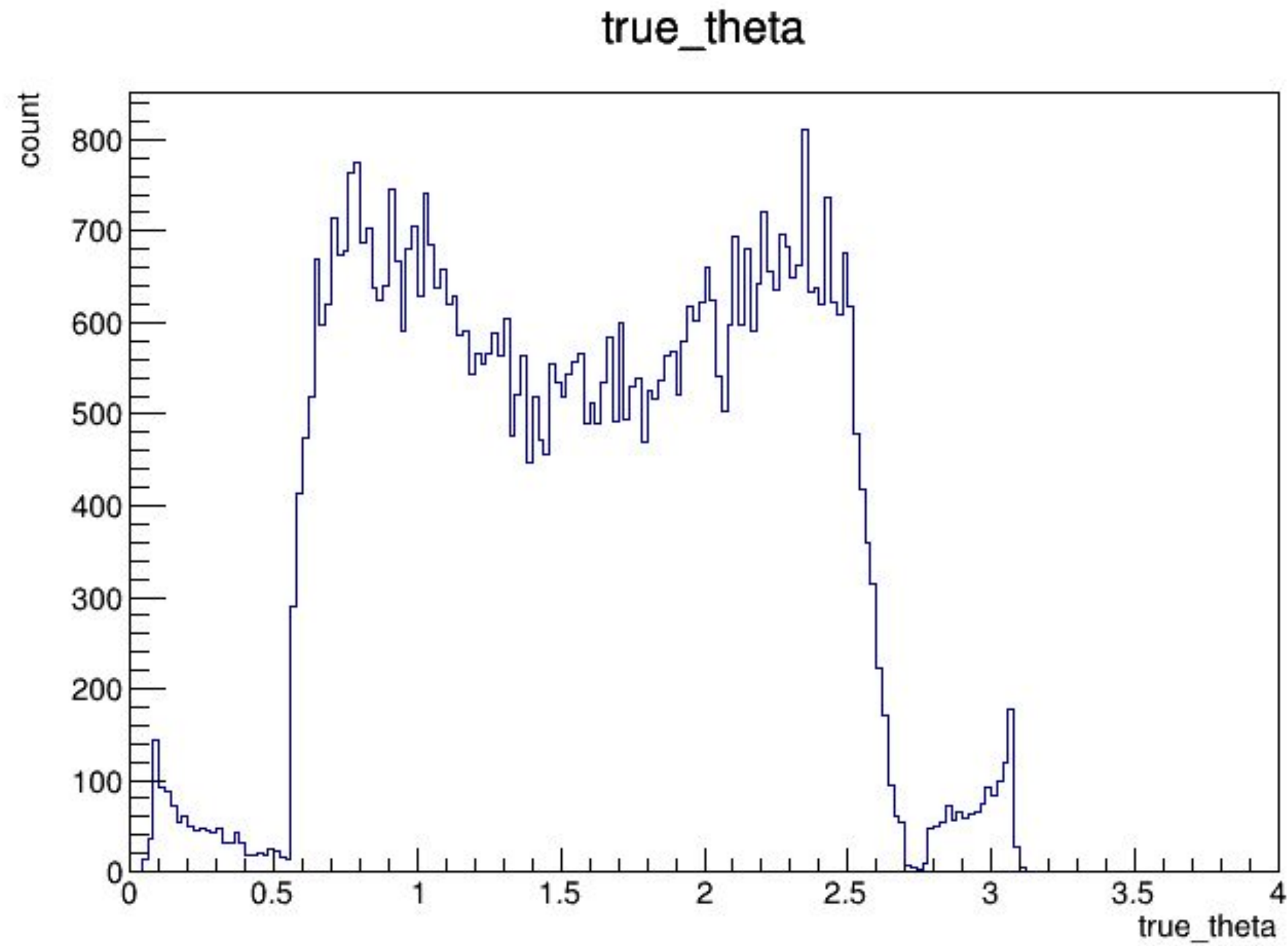
Theta distribution



Pion

HCALIN

Theta distribution

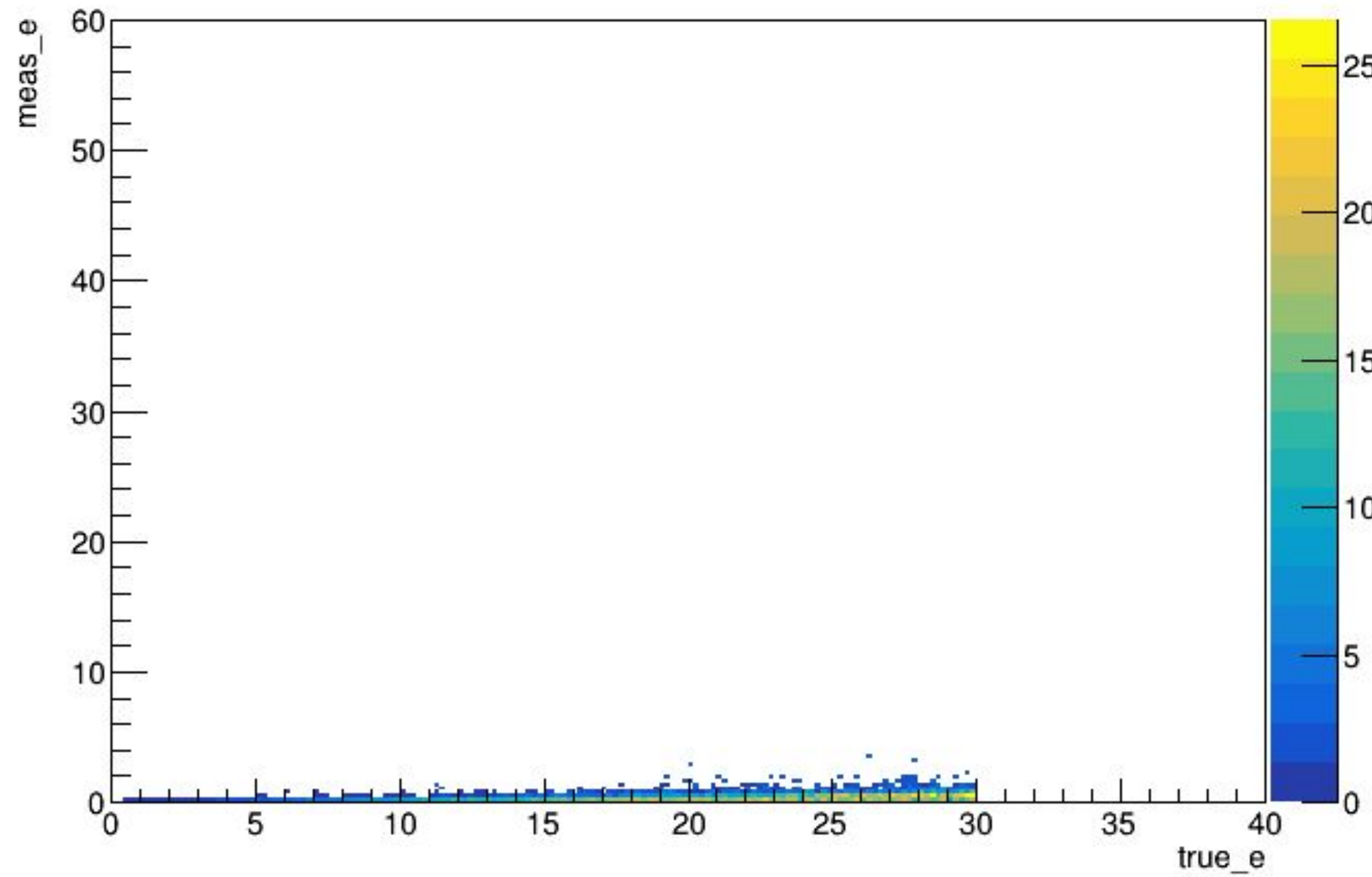


Kaon

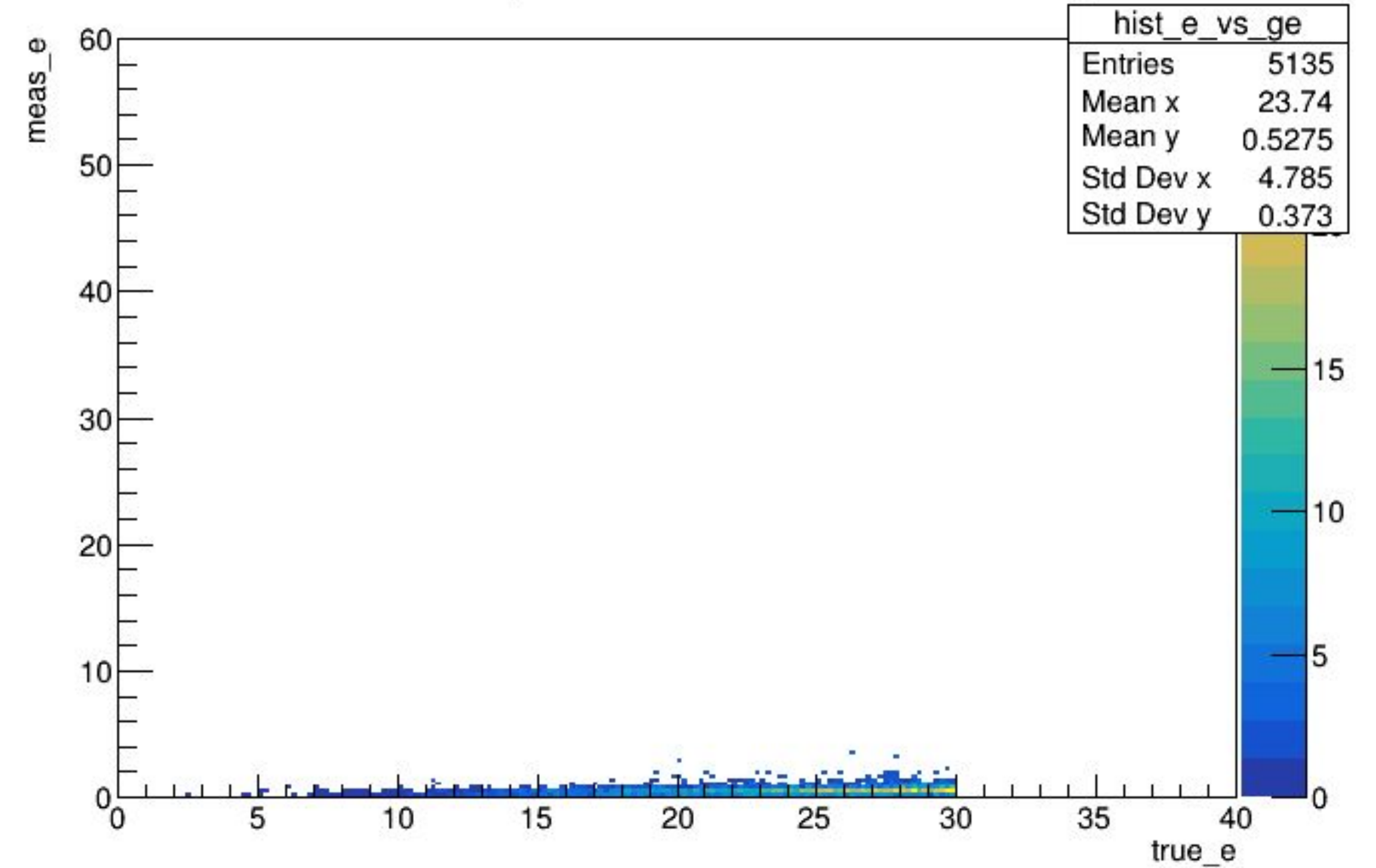
HCALIN

e vs ge

meas_e vs true_e



meas_e vs true_e $\{-1.4 < \text{true_eta} < 1.2, \text{meas_e} > 0.2 \text{ GeV}\}$

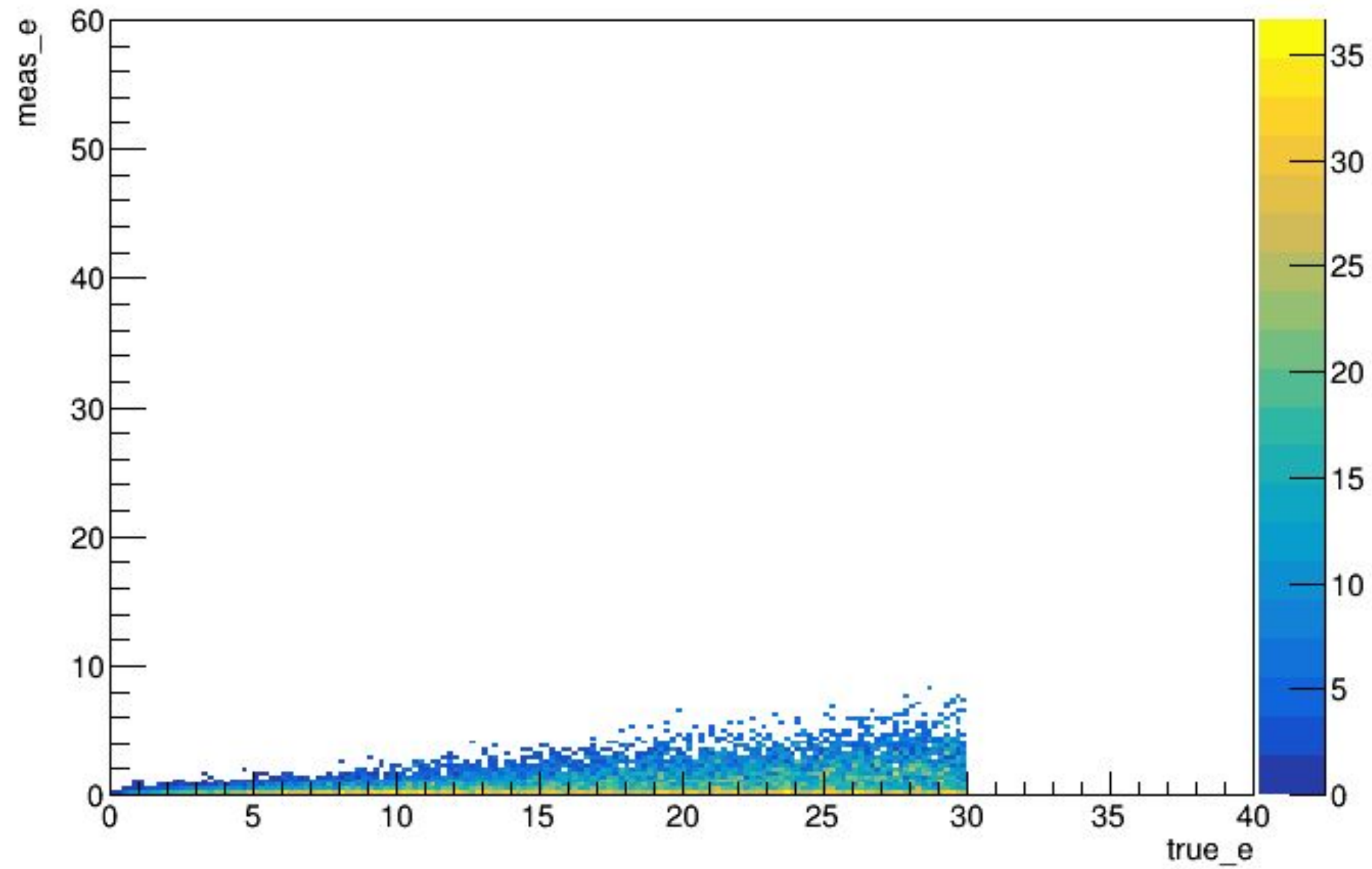


Electron

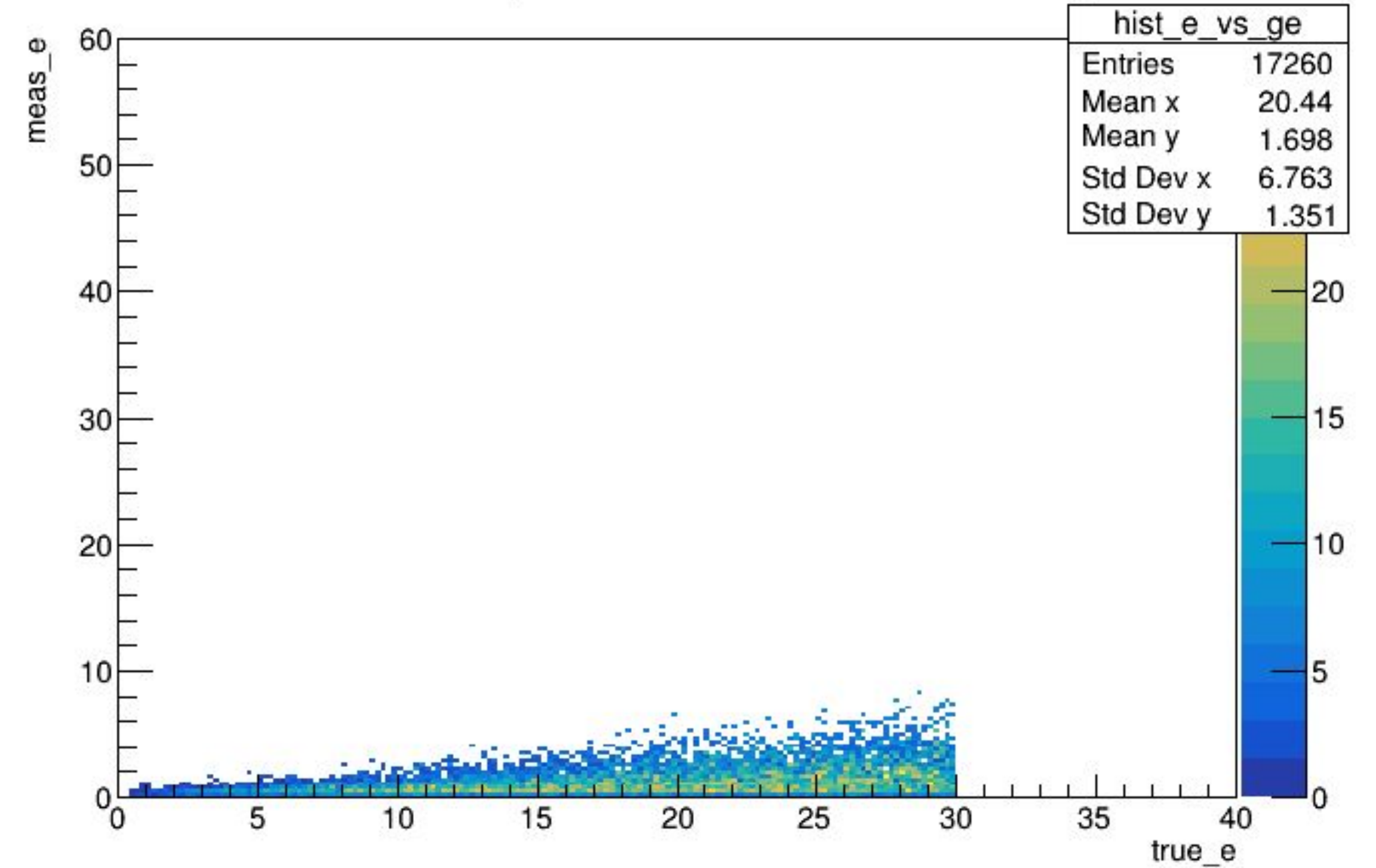
HCALIN

e vs ge

meas_e vs true_e



meas_e vs true_e $\{-1.4 < \text{true_eta} < 1.2, \text{meas_e} > 0.2 \text{ GeV}\}$

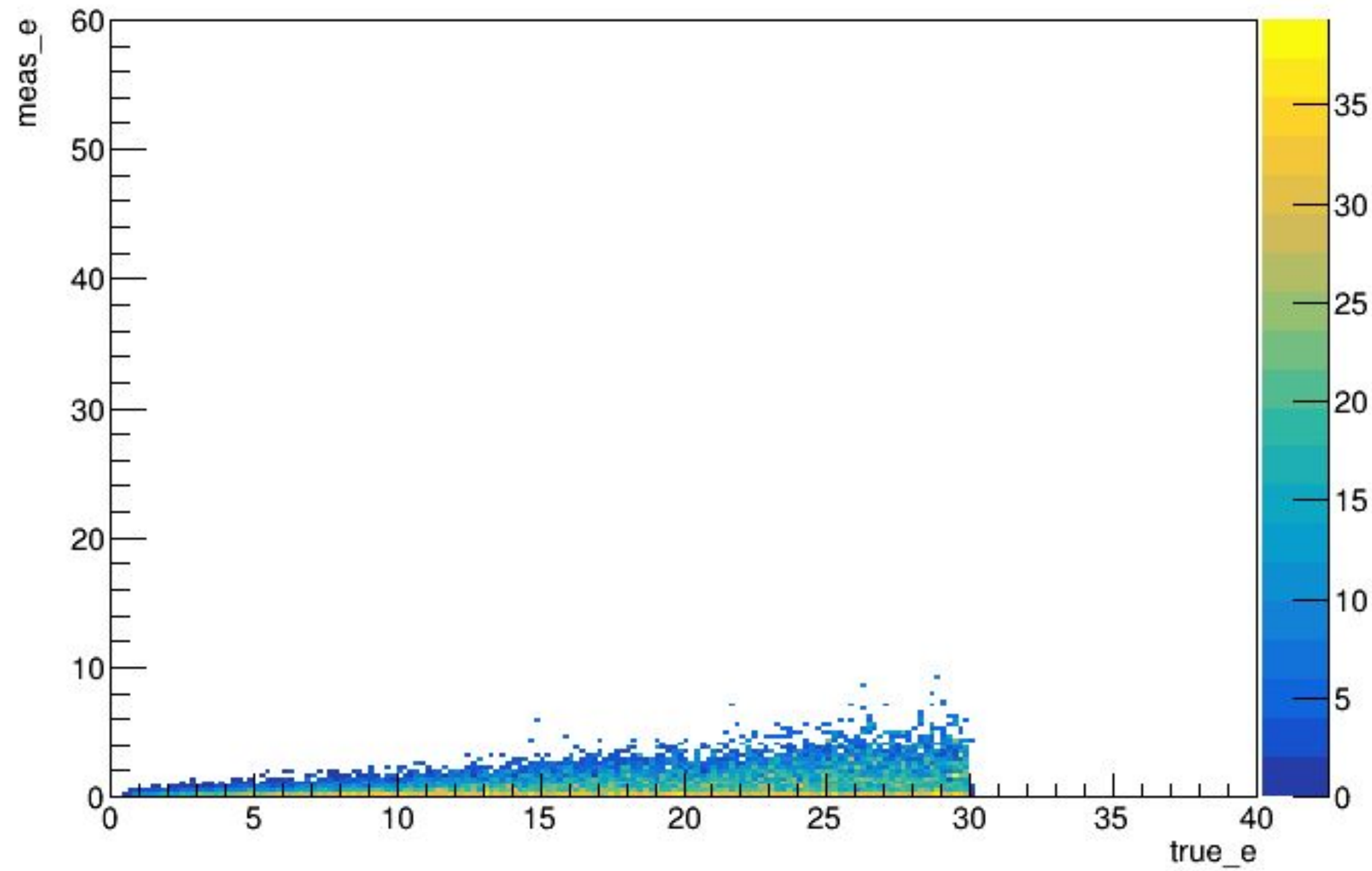


Pion

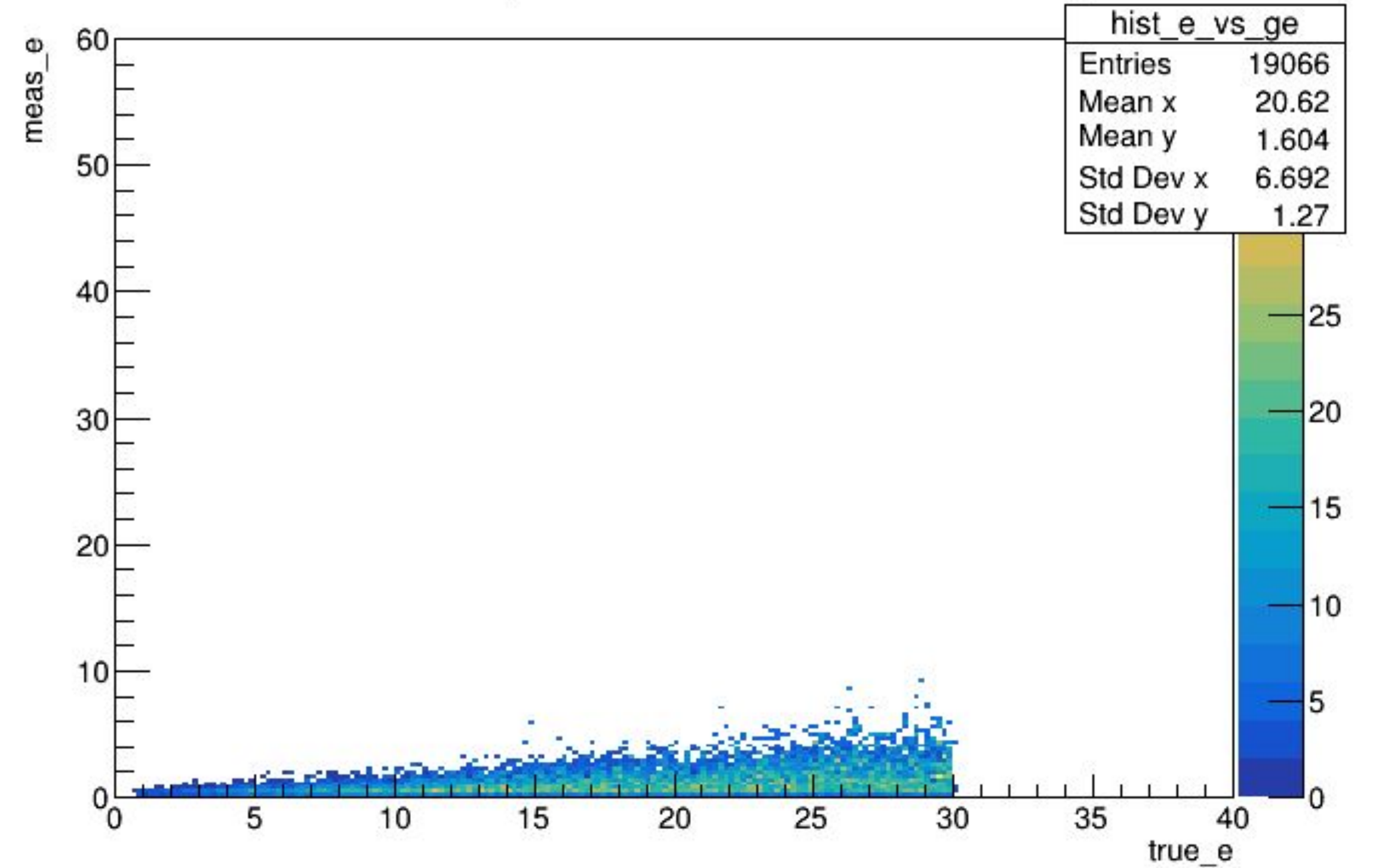
HCALIN

e vs ge

meas_e vs true_e



meas_e vs true_e $\{-1.4 < \text{true_eta} < 1.2, \text{meas_e} > 0.2 \text{ GeV}\}$

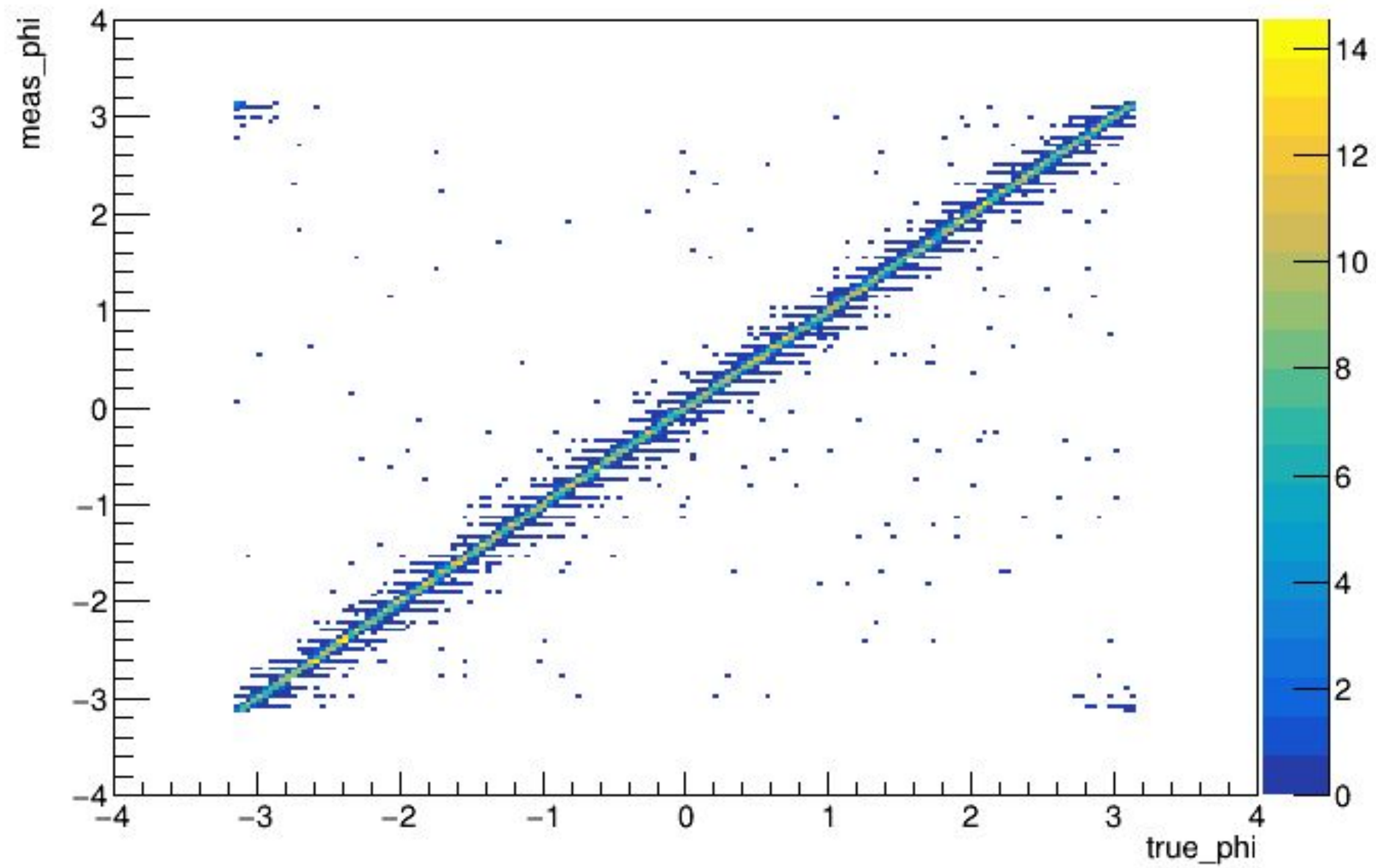


Kaon

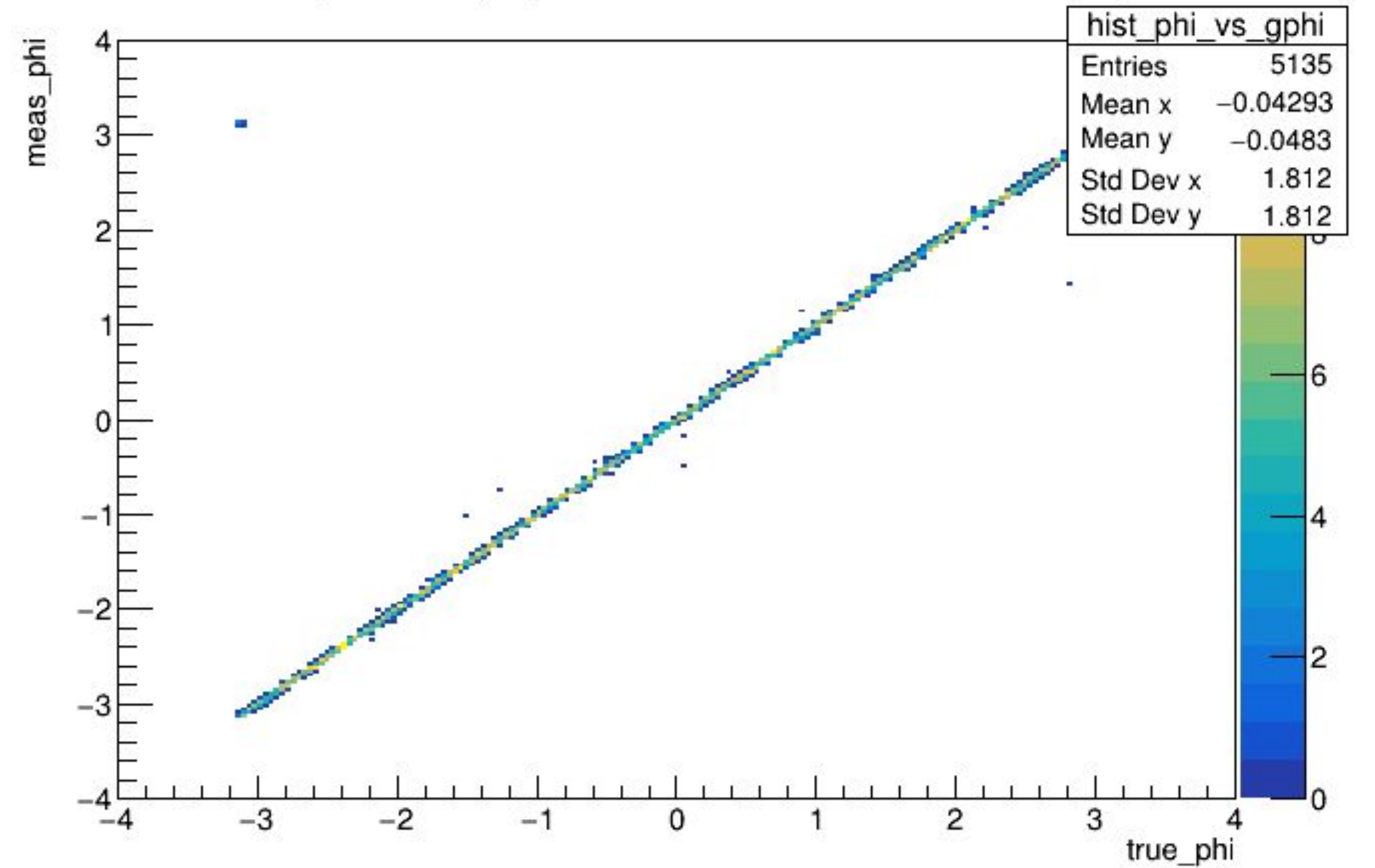
HCALIN

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi $\{-1.4 < \text{true_eta} < 1.2, \text{meas_e} > 0.2 \text{ GeV}\}$

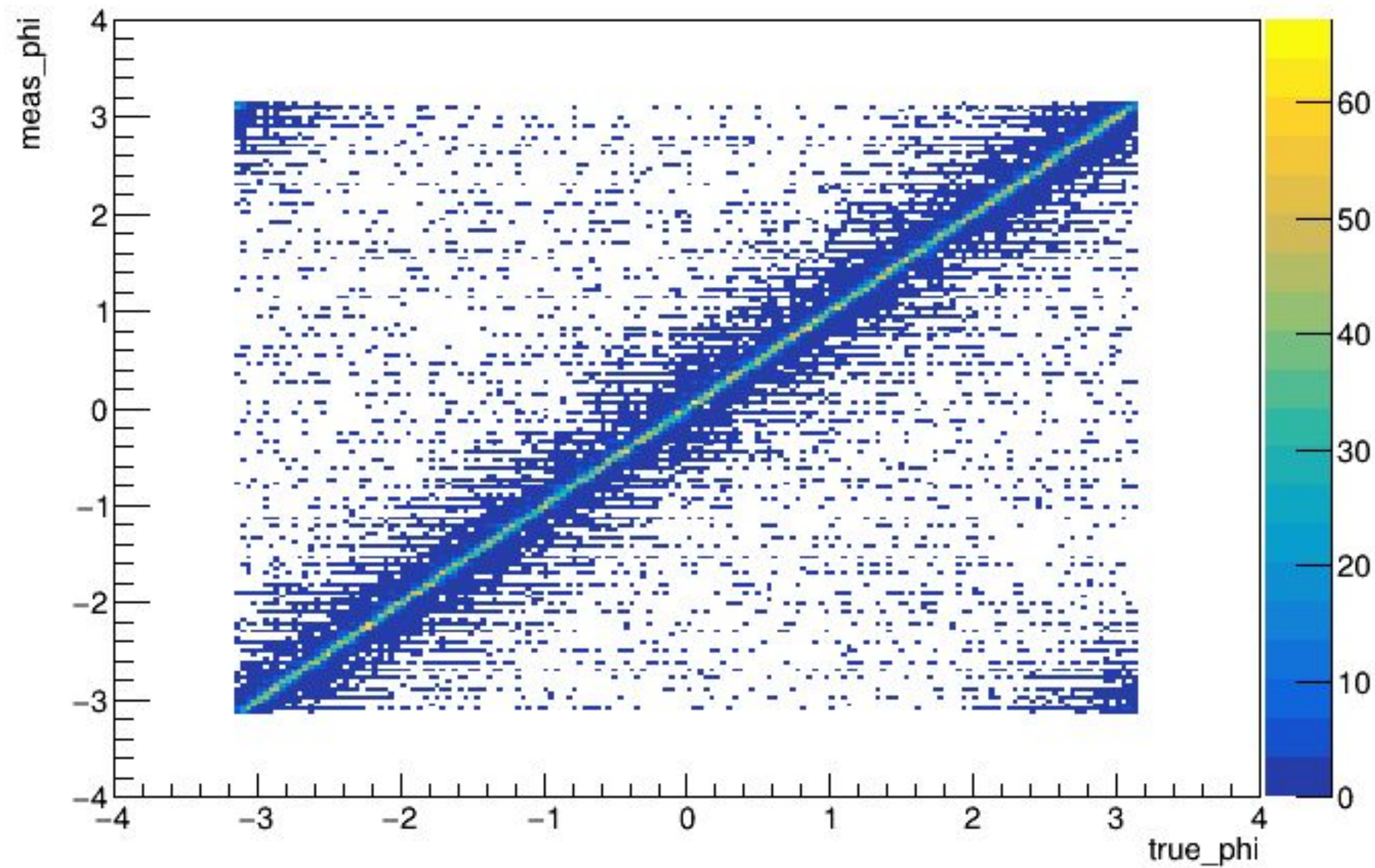


Electron

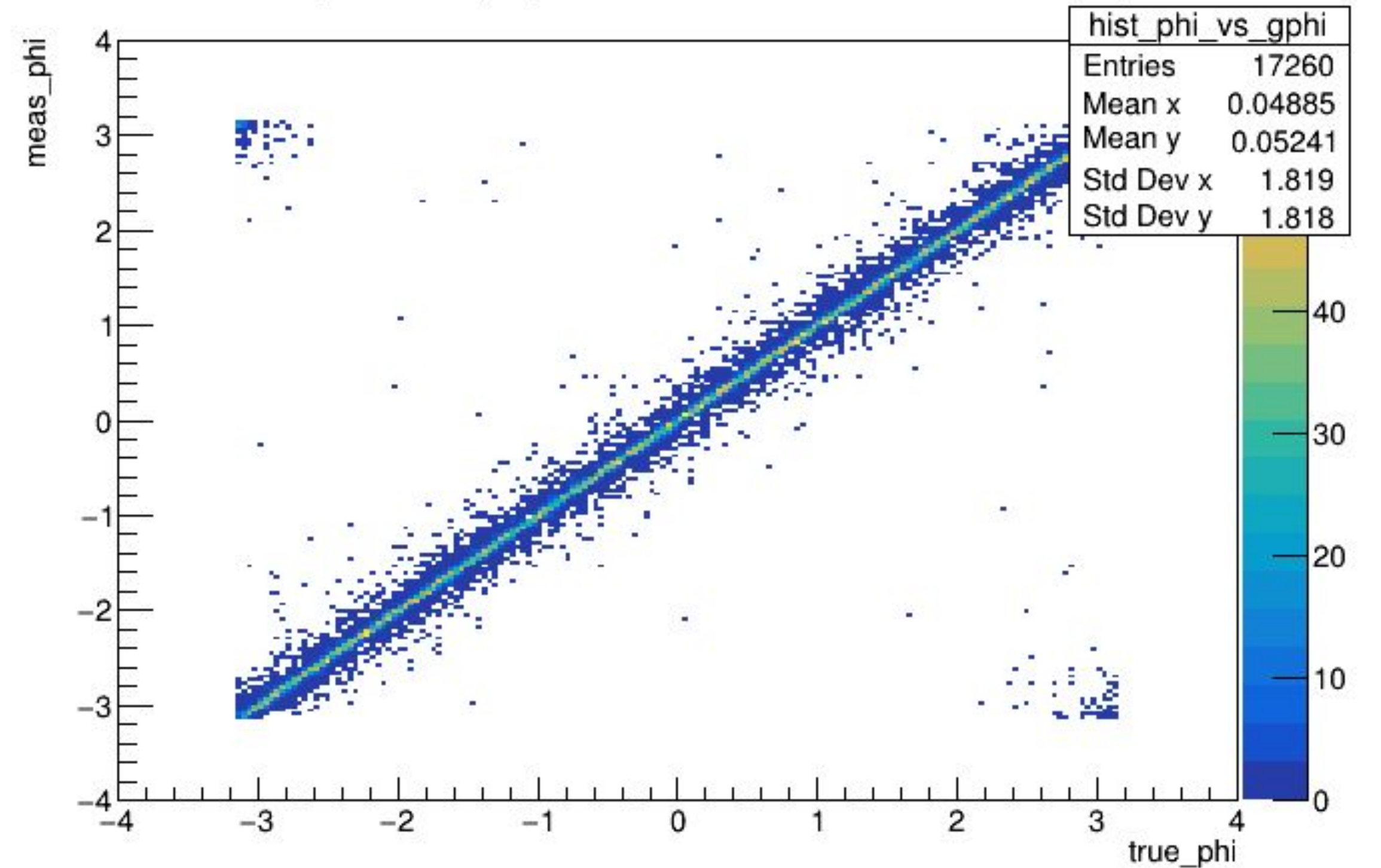
HCALIN

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi $\{-1.4 < \text{true_eta} < 1.2, \text{meas_e} > 0.2 \text{ GeV}\}$

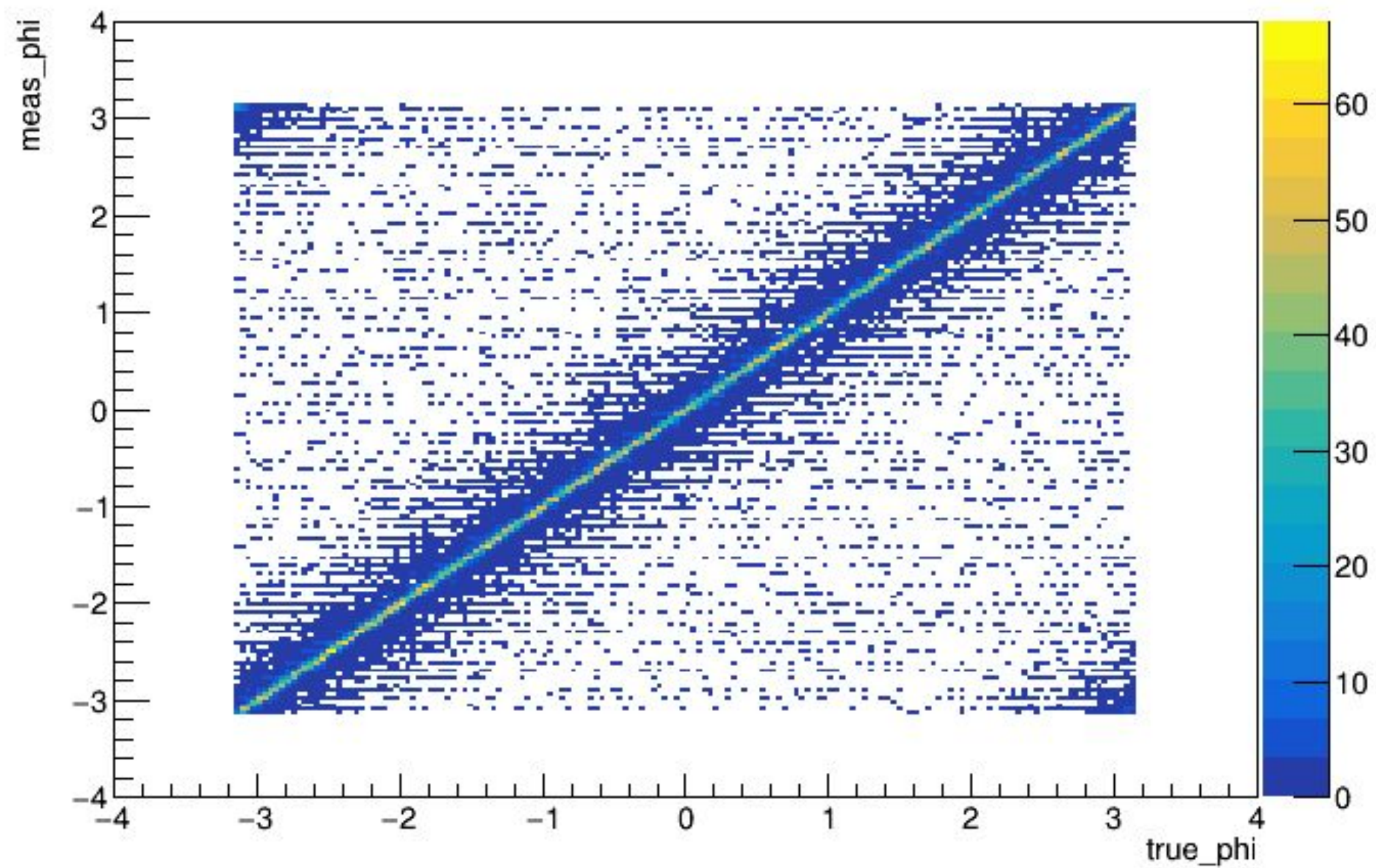


Pion

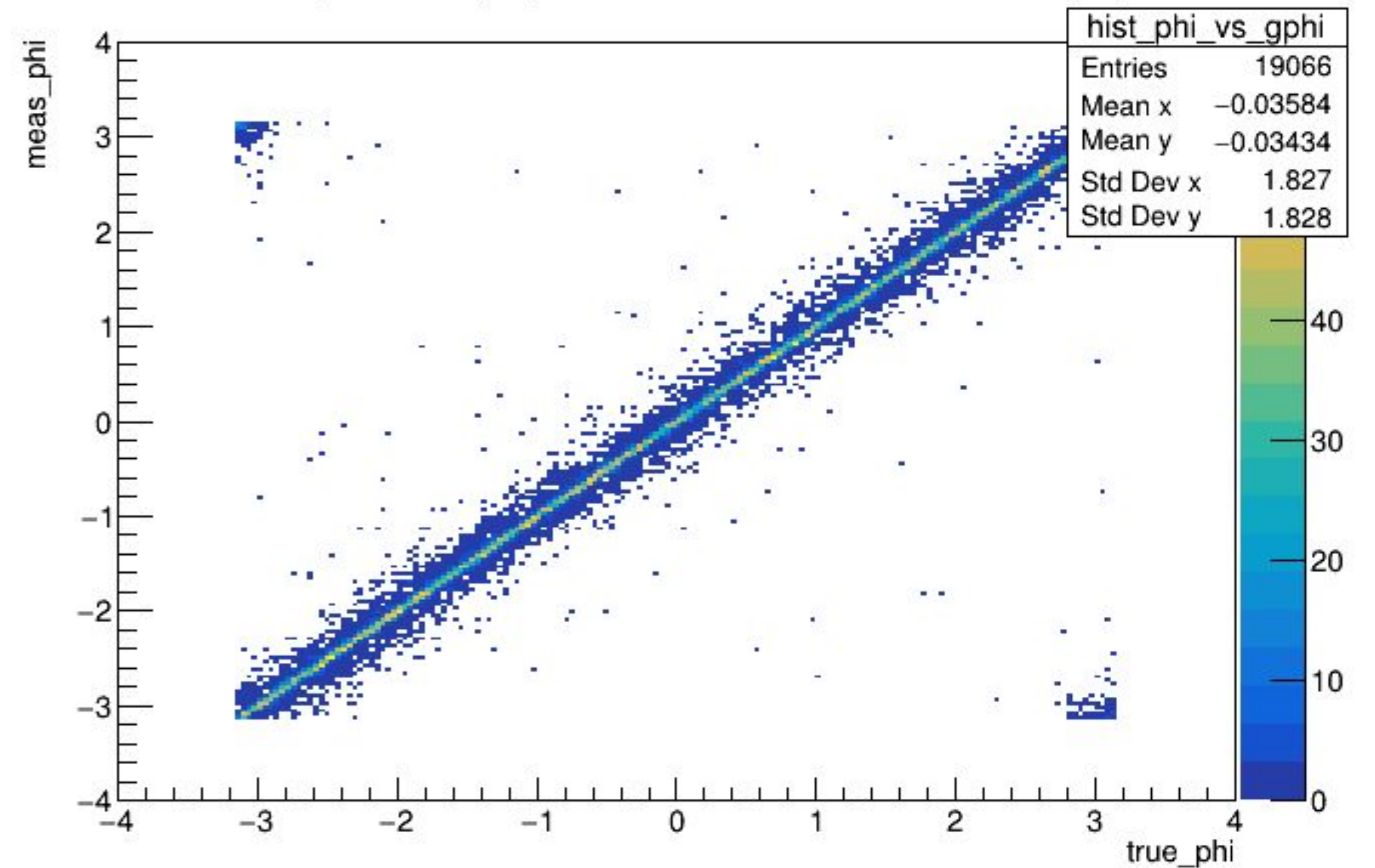
HCALIN

phi vs gphi

meas_phi vs true_phi



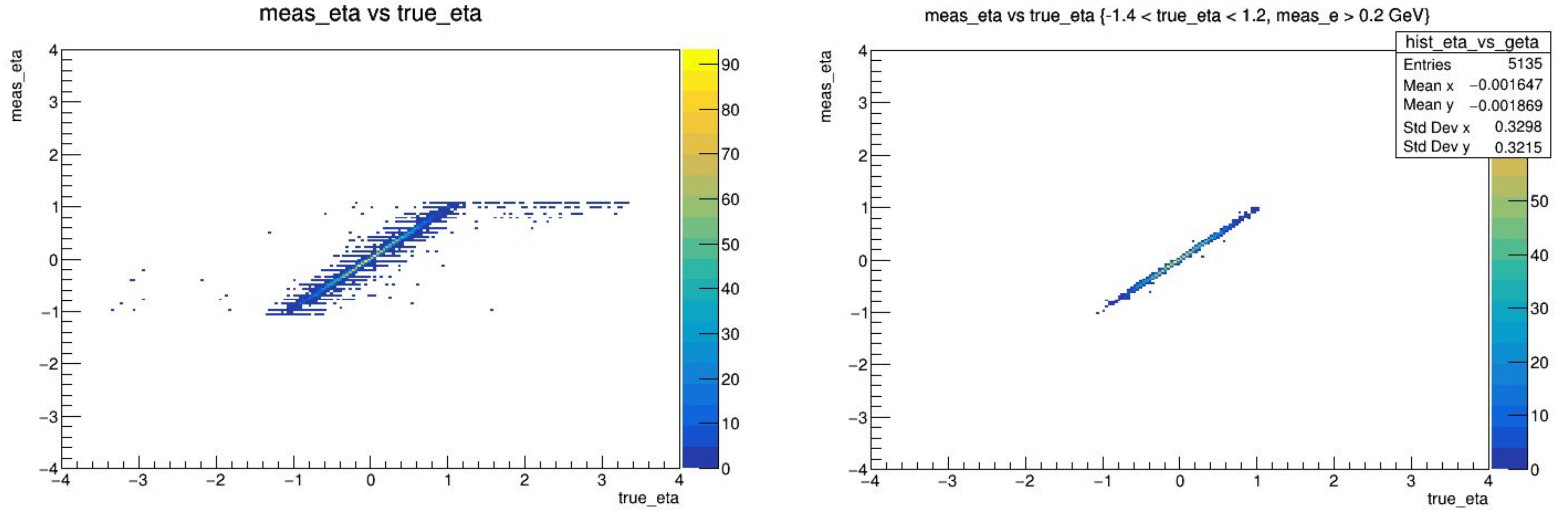
meas_phi vs true_phi $\{-1.4 < \text{true_eta} < 1.2, \text{meas_e} > 0.2 \text{ GeV}\}$



Kaon

HCALIN

eta vs geta

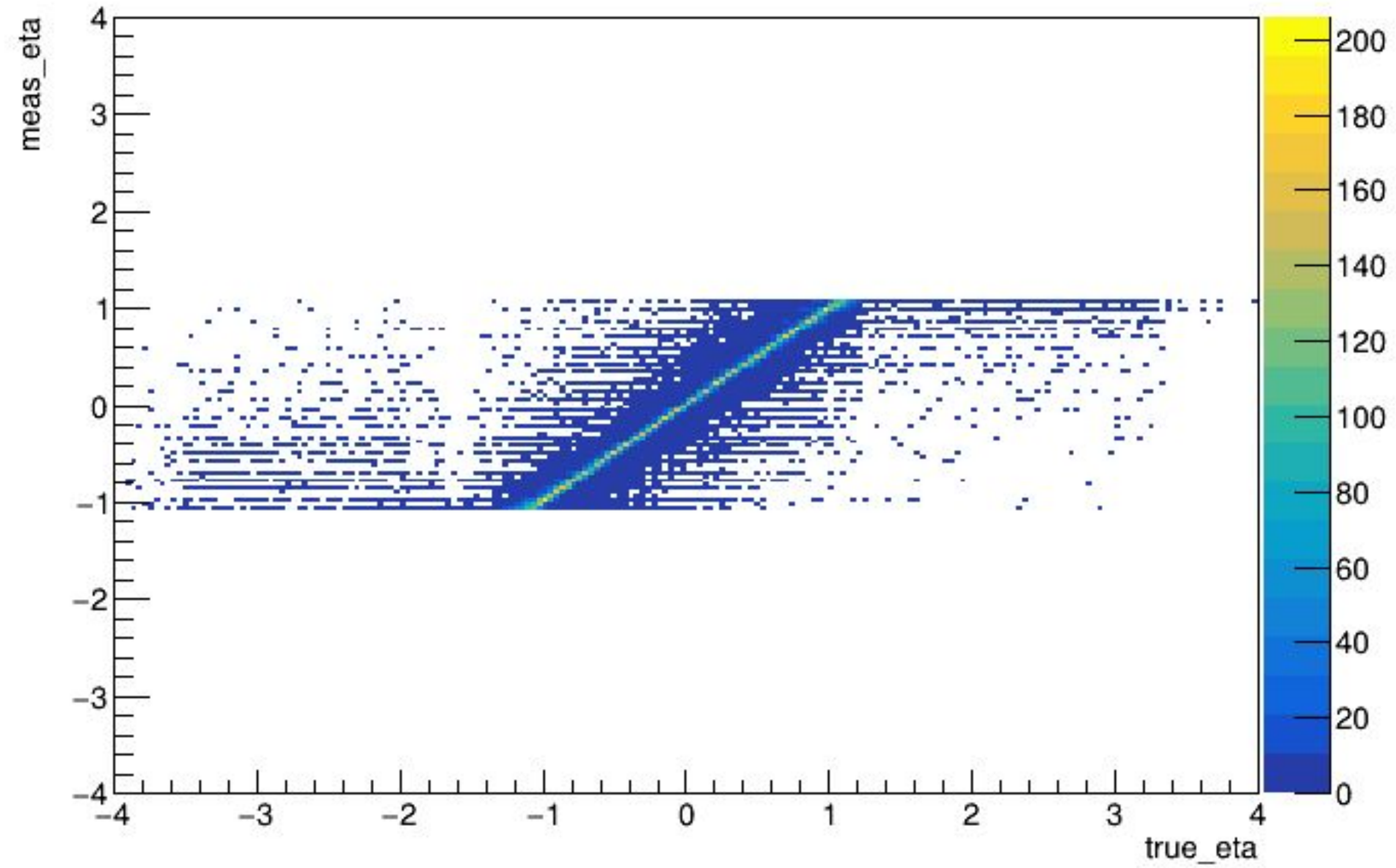


Electron

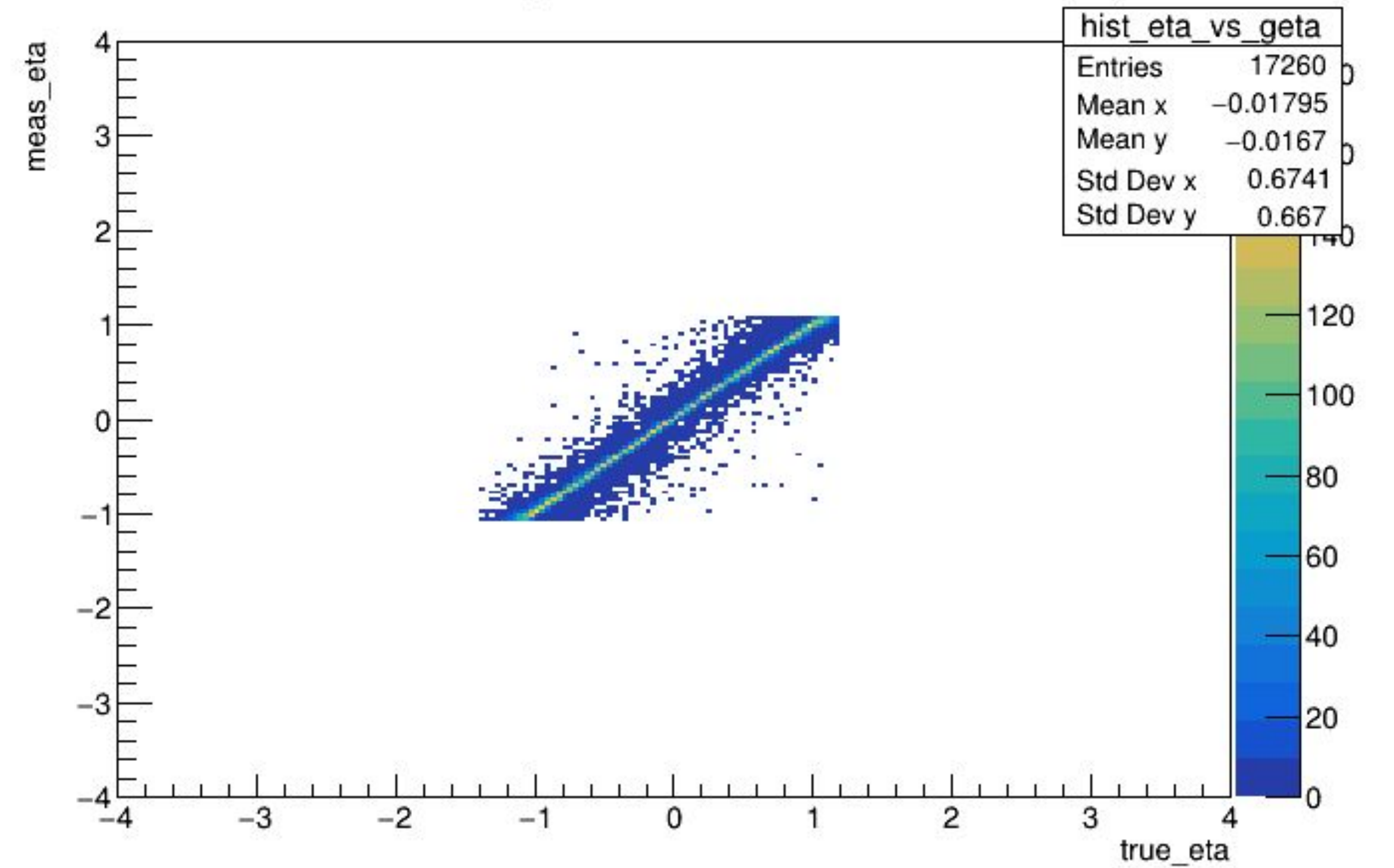
HCALIN

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta {-1.4 < true_eta < 1.2, meas_e > 0.2 GeV}

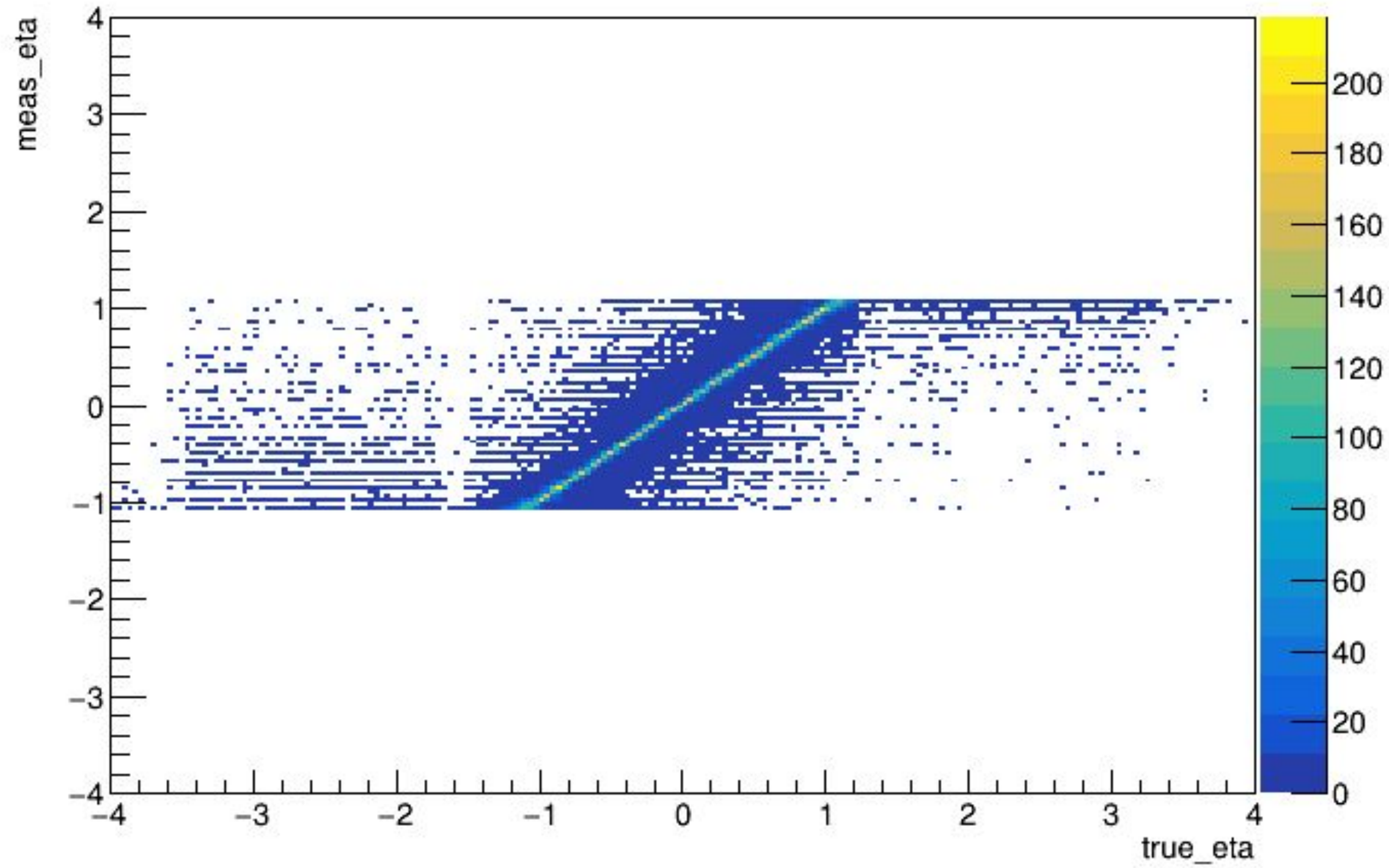


Pion

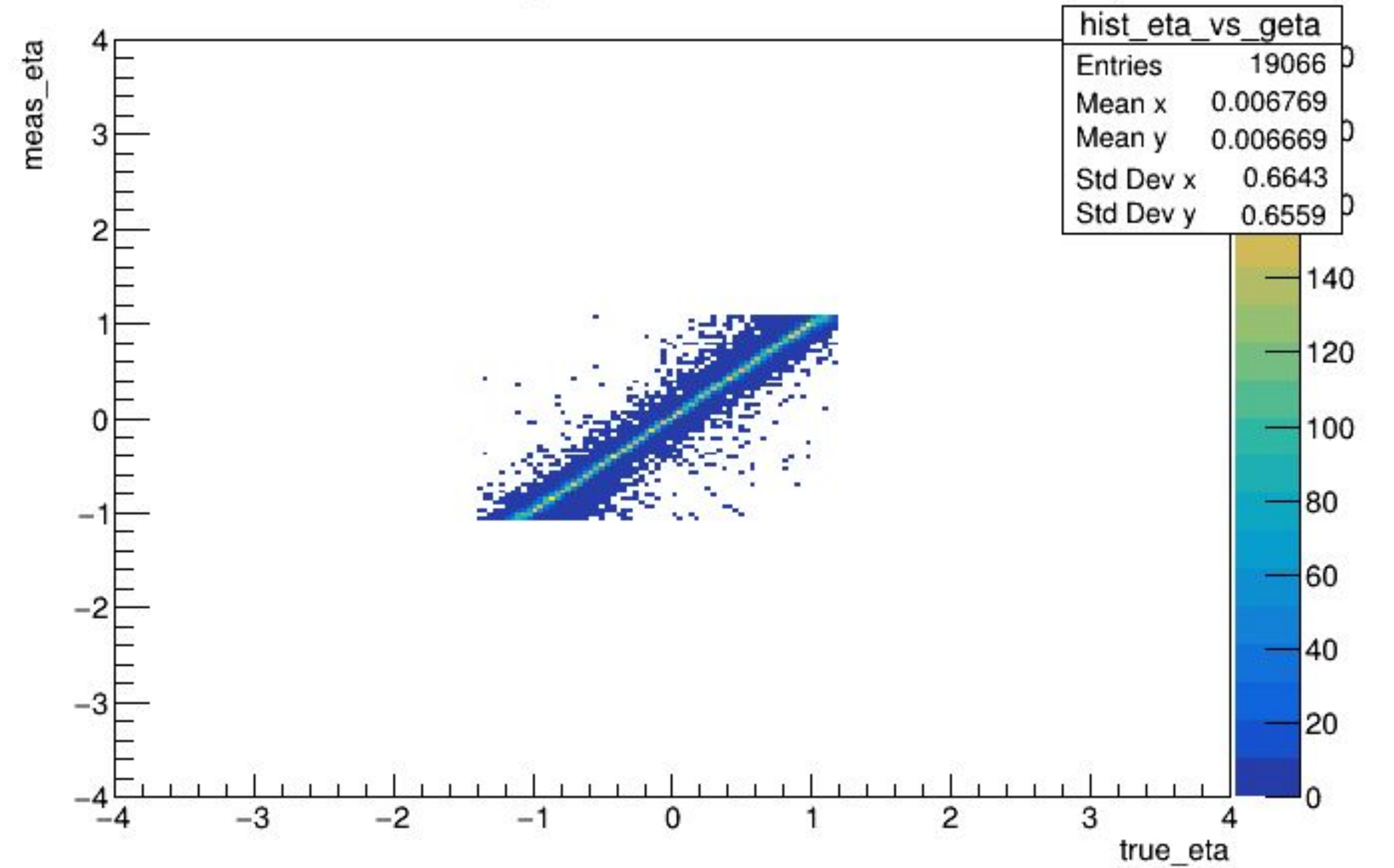
HCALIN

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta $\{-1.4 < \text{true_eta} < 1.2, \text{meas_e} > 0.2 \text{ GeV}\}$

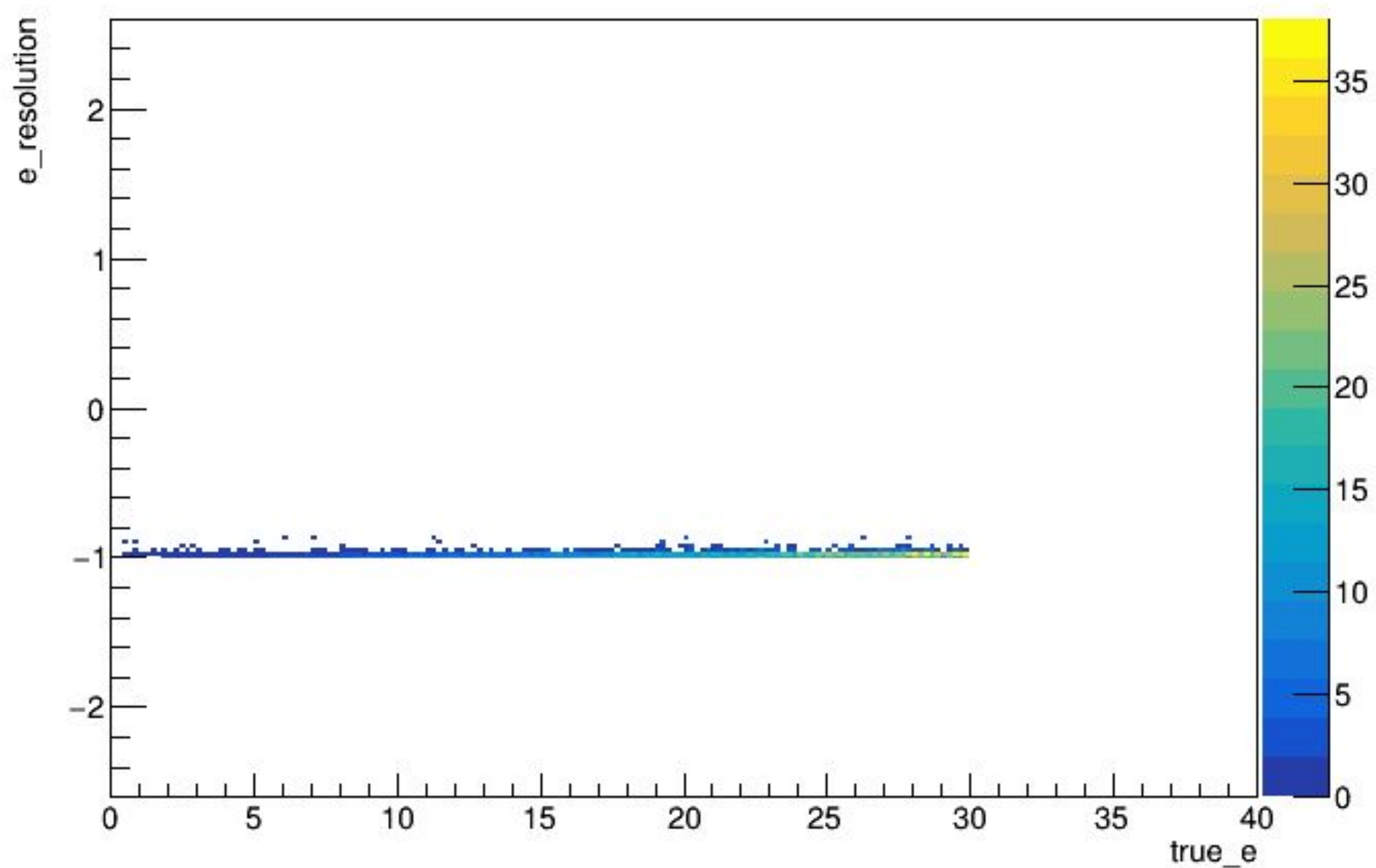


Kaon

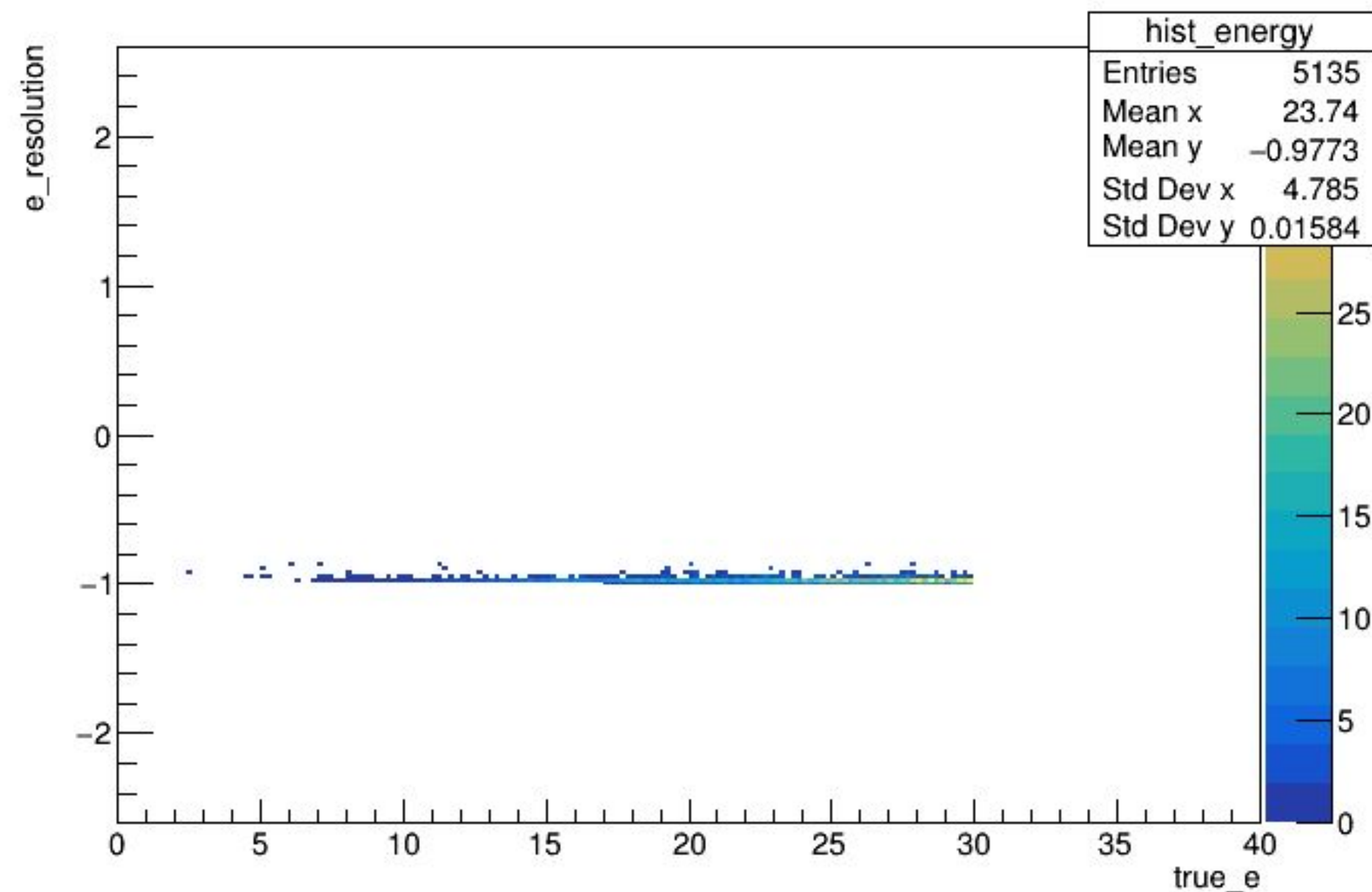
HCALIN

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e $\{-1.4 < \text{true}_\eta < 1.2, \text{meas}_e > 0.2 \text{ GeV}\}$

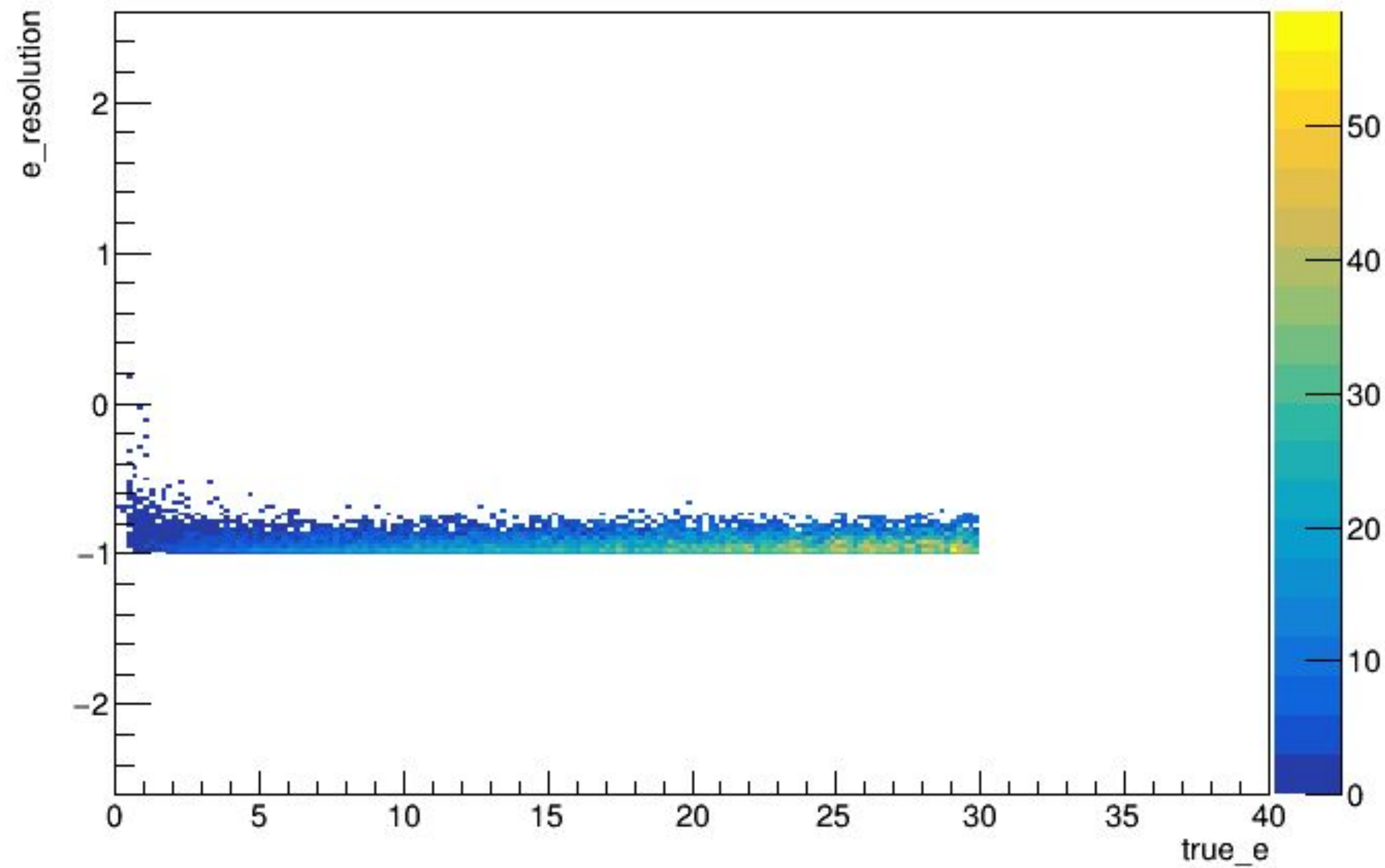


Electron

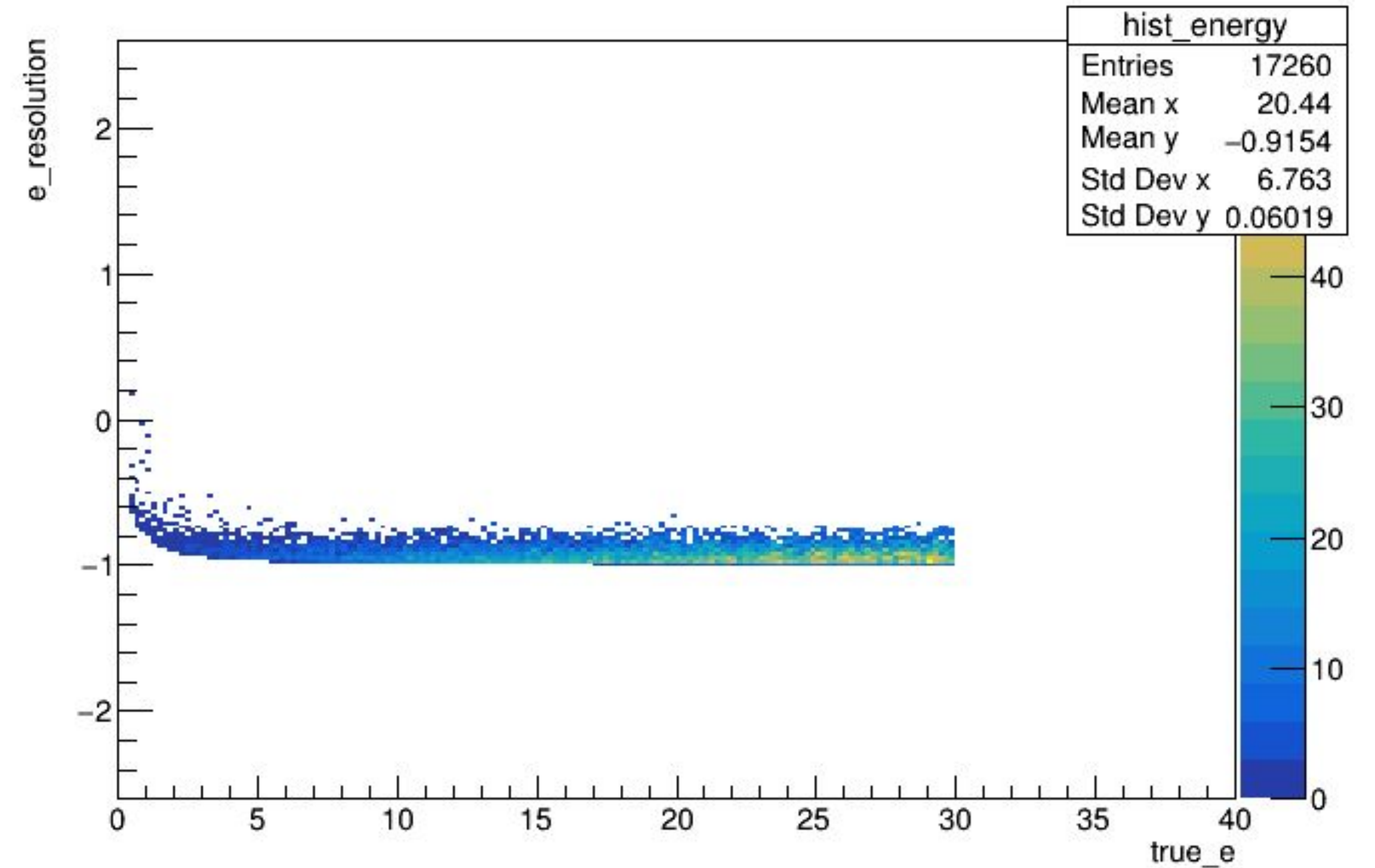
HCALIN

$\Delta e/ge$ vs ge

($\Delta e/true_e$) vs $true_e$



($\Delta e/true_e$) vs $true_e$ $\{-1.4 < true_eta < 1.2, meas_e > 0.2 \text{ GeV}\}$

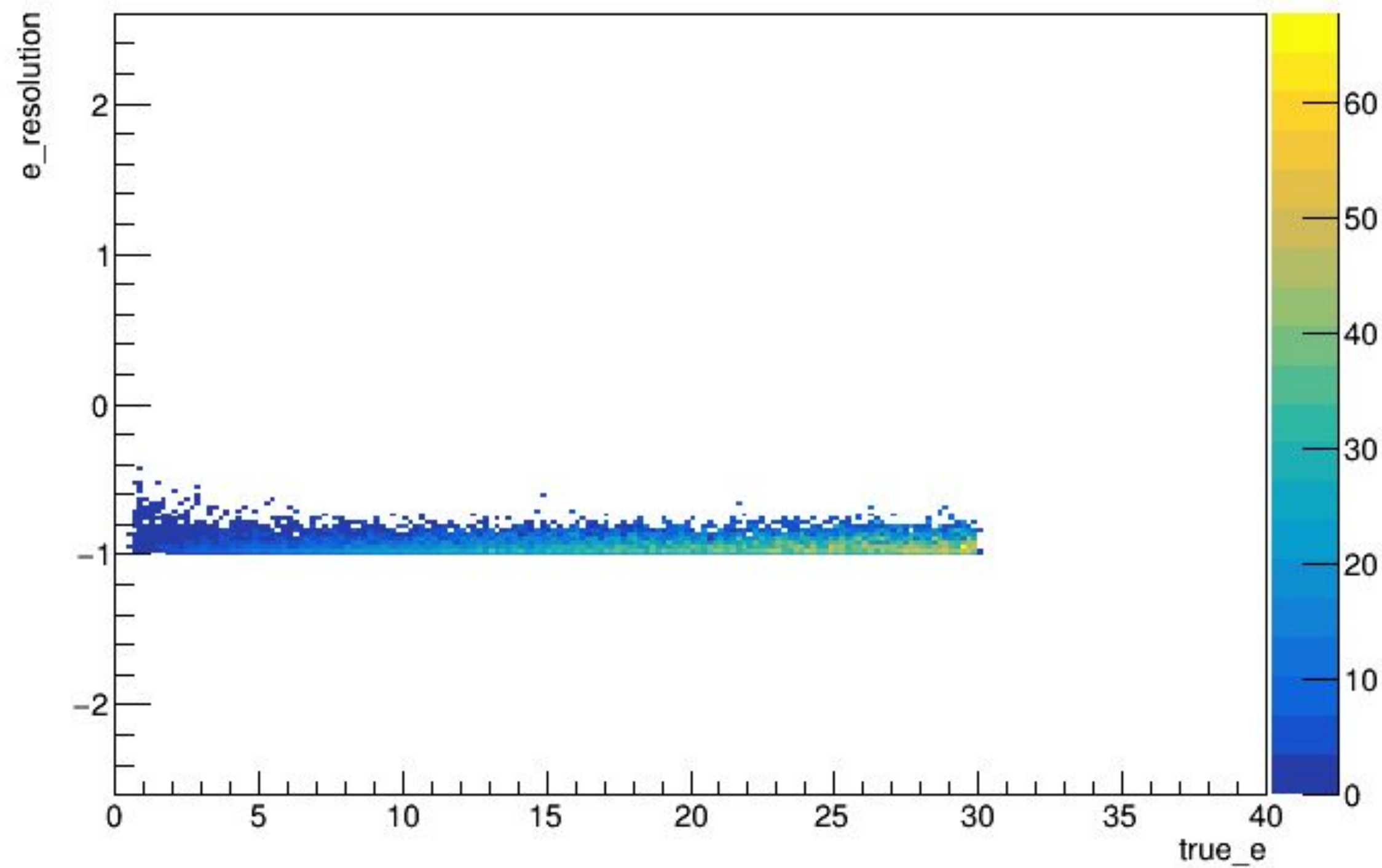


Pion

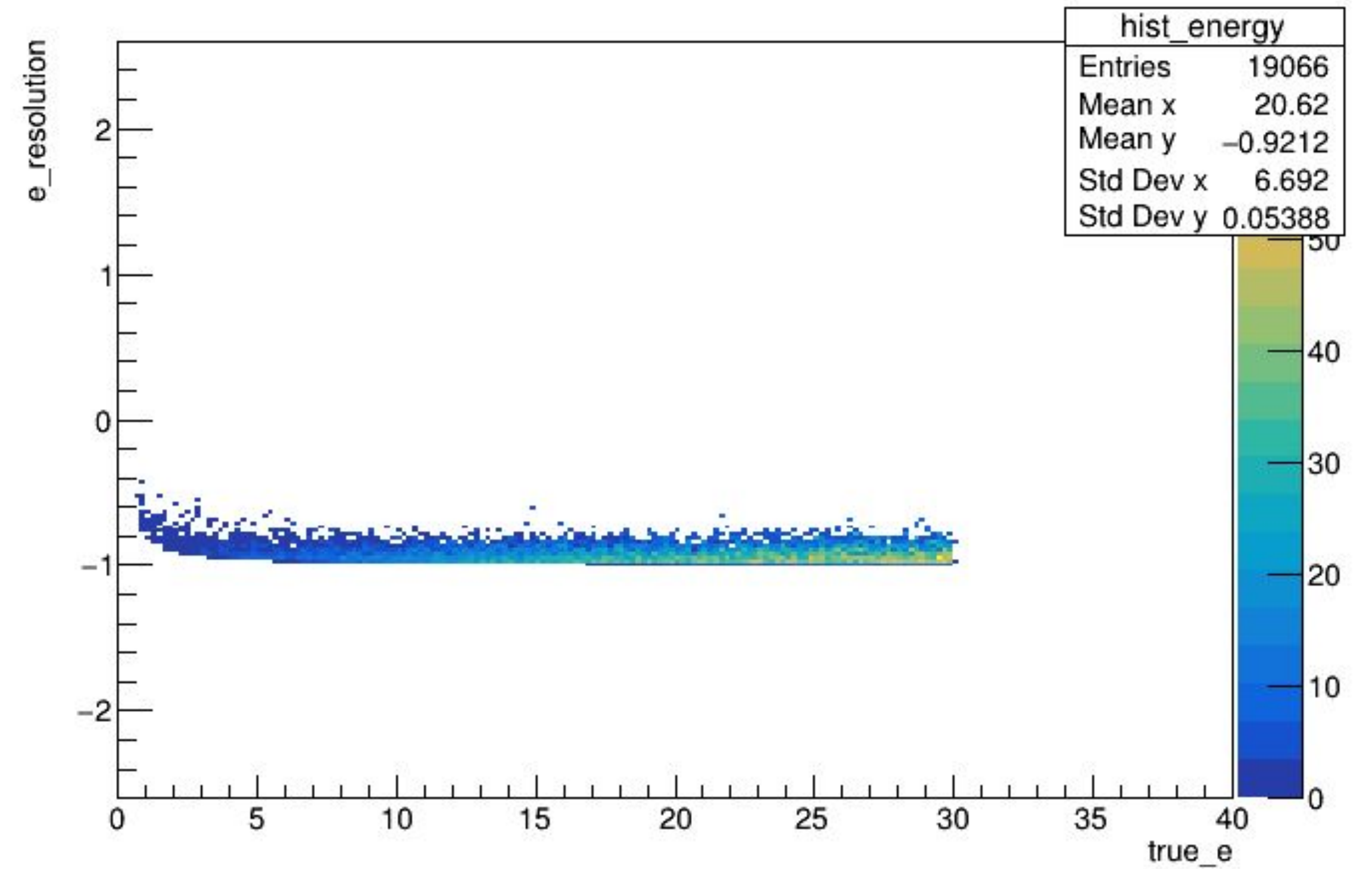
HCALIN

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e $\{-1.4 < \text{true}_\eta < 1.2, \text{meas}_e > 0.2 \text{ GeV}\}$

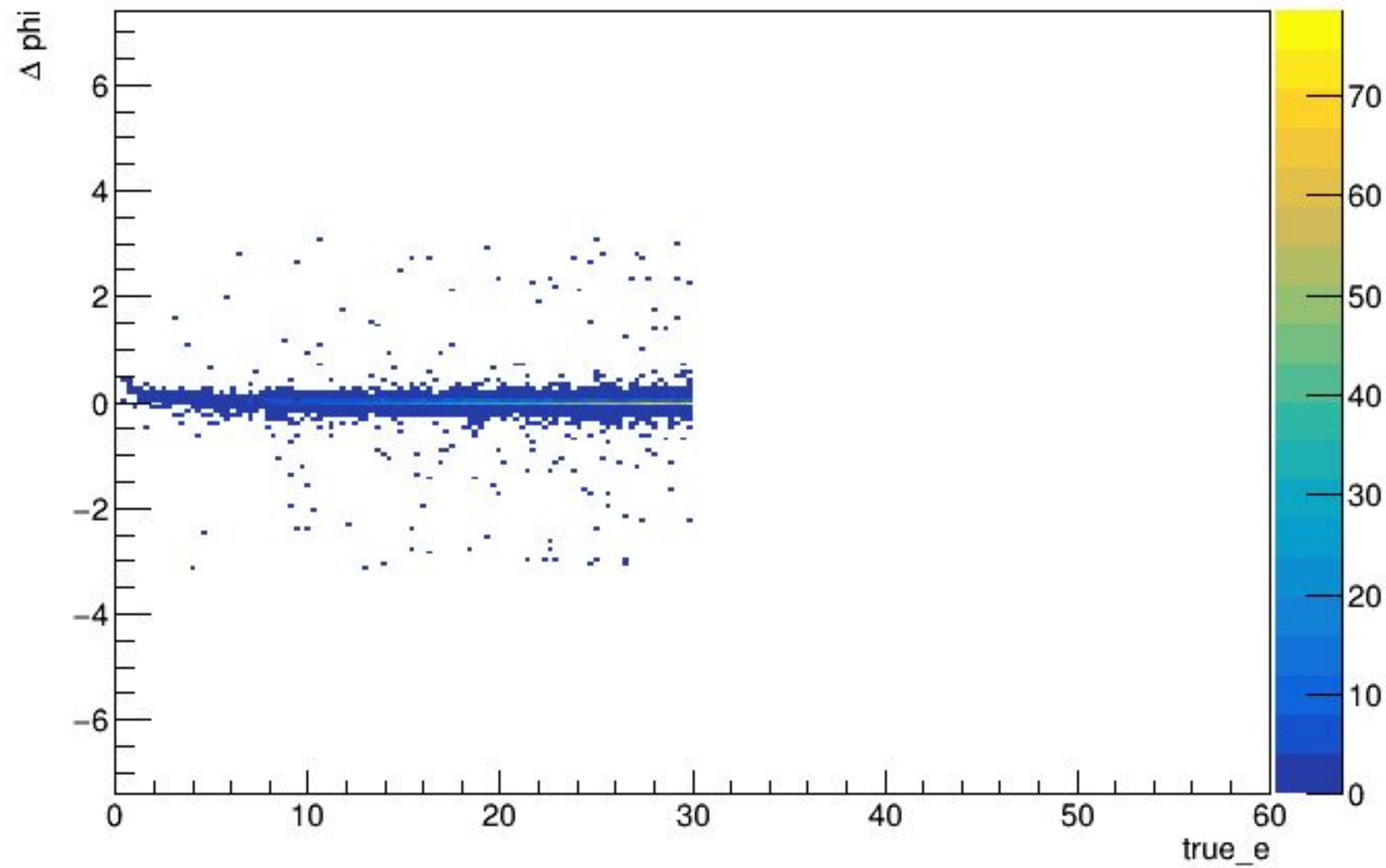


Kaon

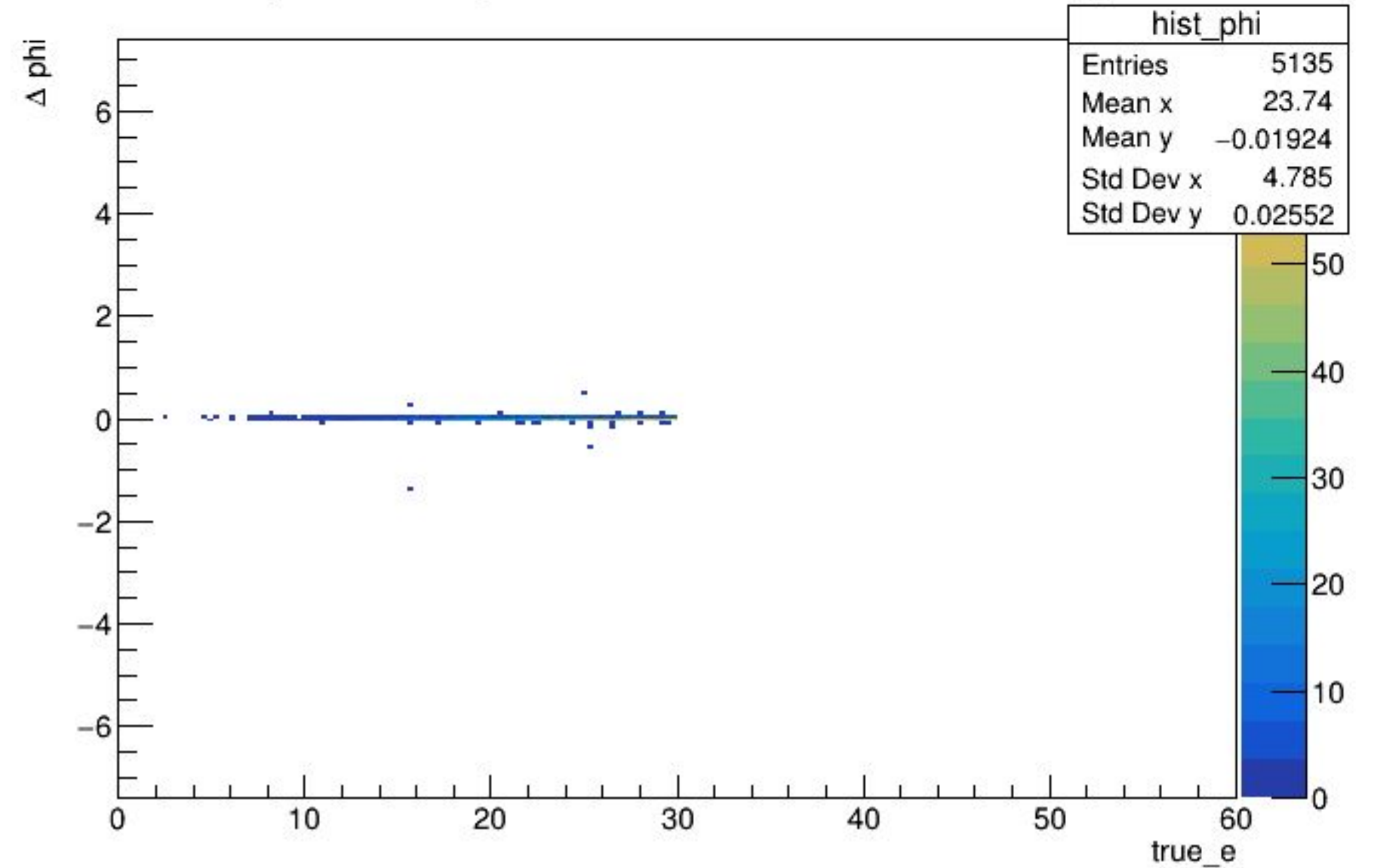
HCALIN

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e $\{-1.4 < \text{true}_\eta < 1.2, \text{meas}_e > 0.2 \text{ GeV}\}$

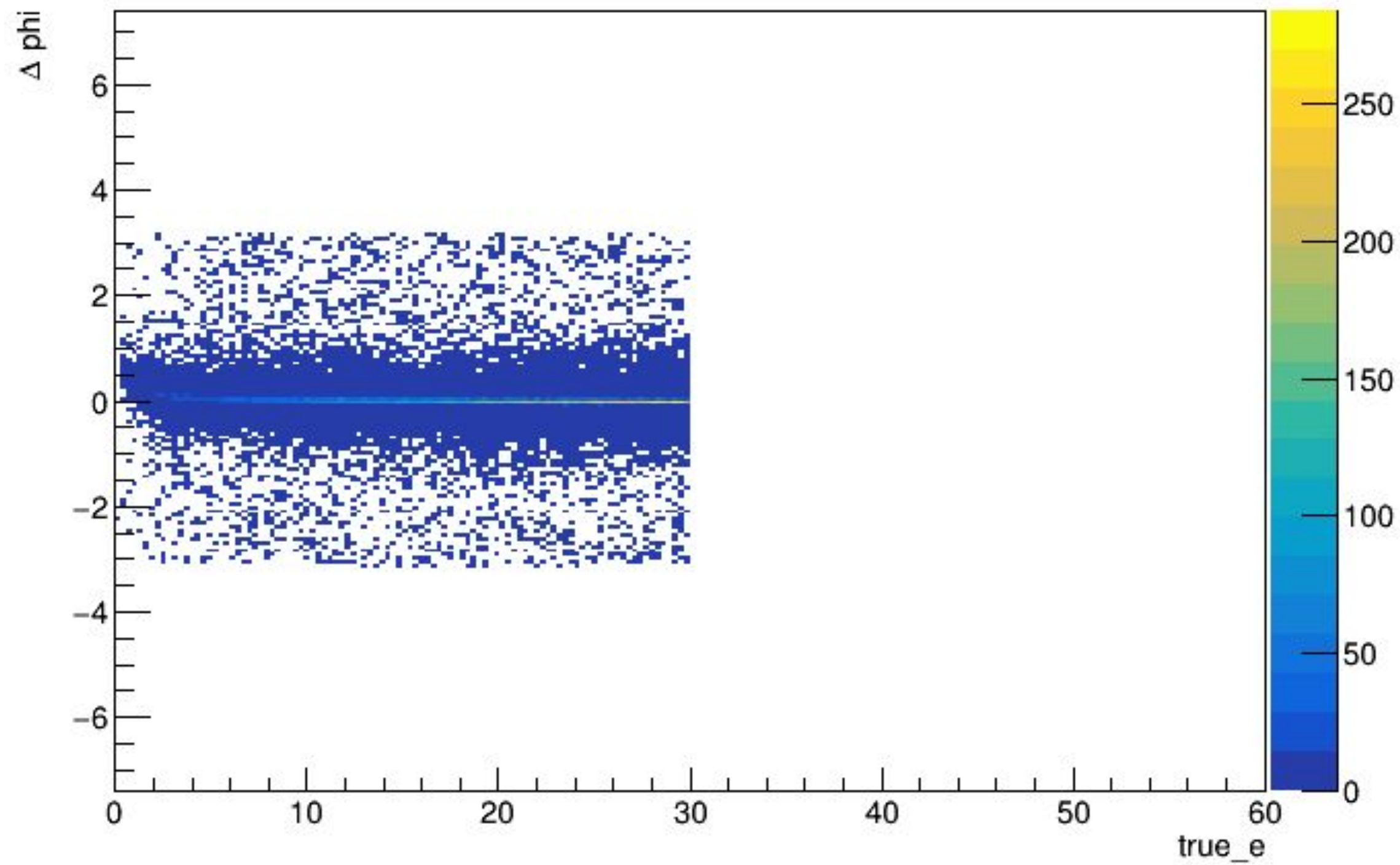


Electron

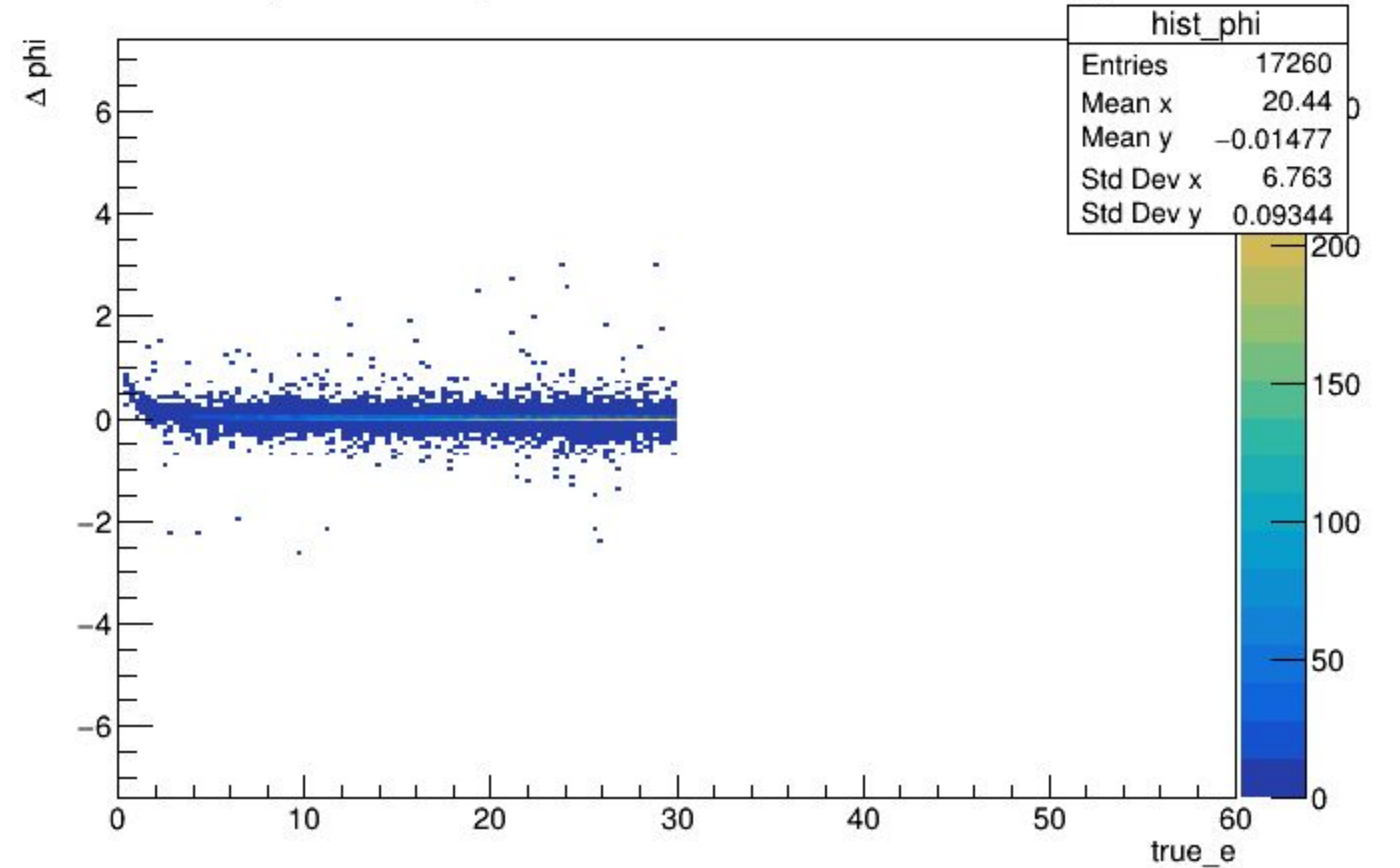
HCALIN

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e $\{-1.4 < \text{true}_\eta < 1.2, \text{meas}_e > 0.2 \text{ GeV}\}$

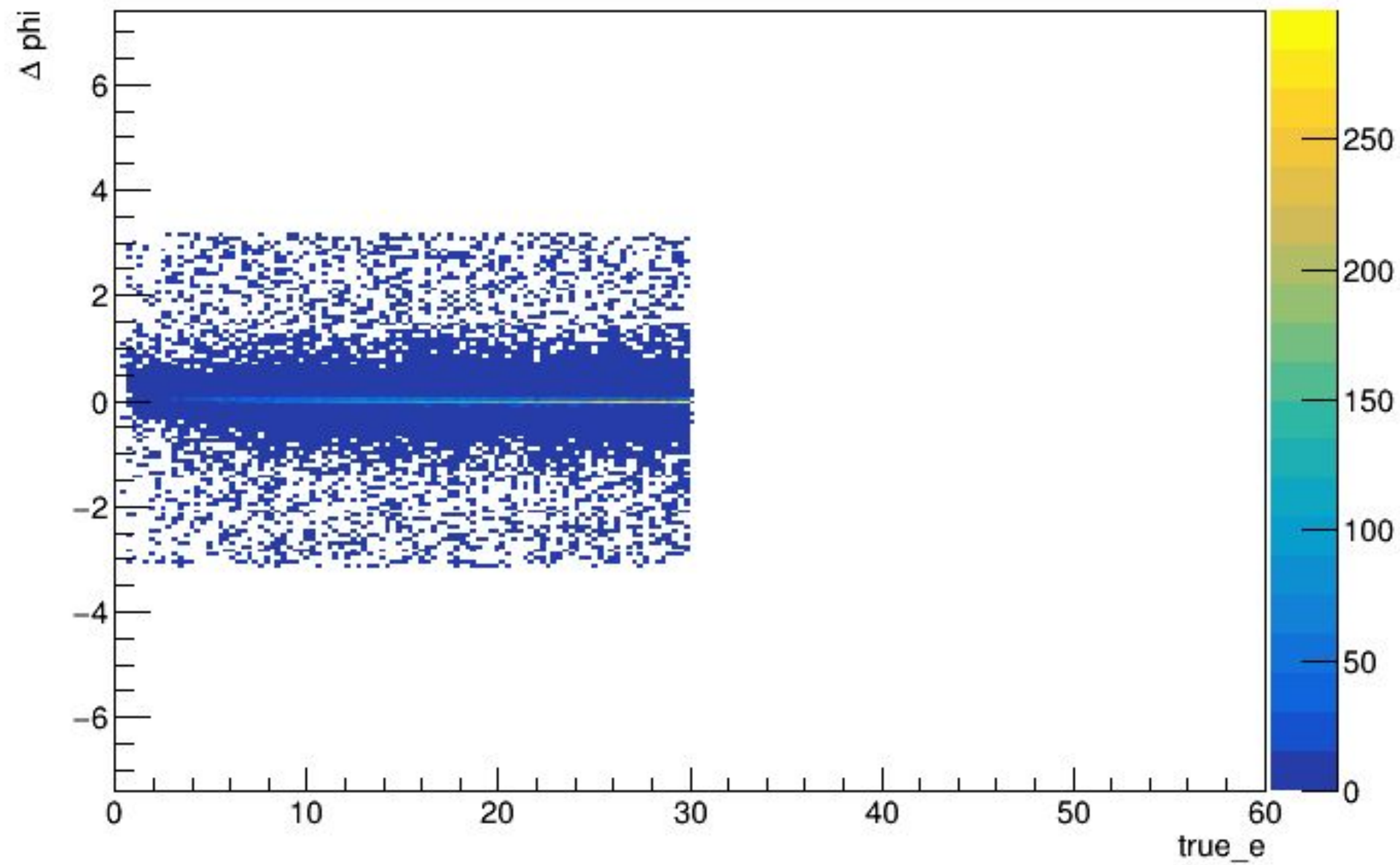


Pion

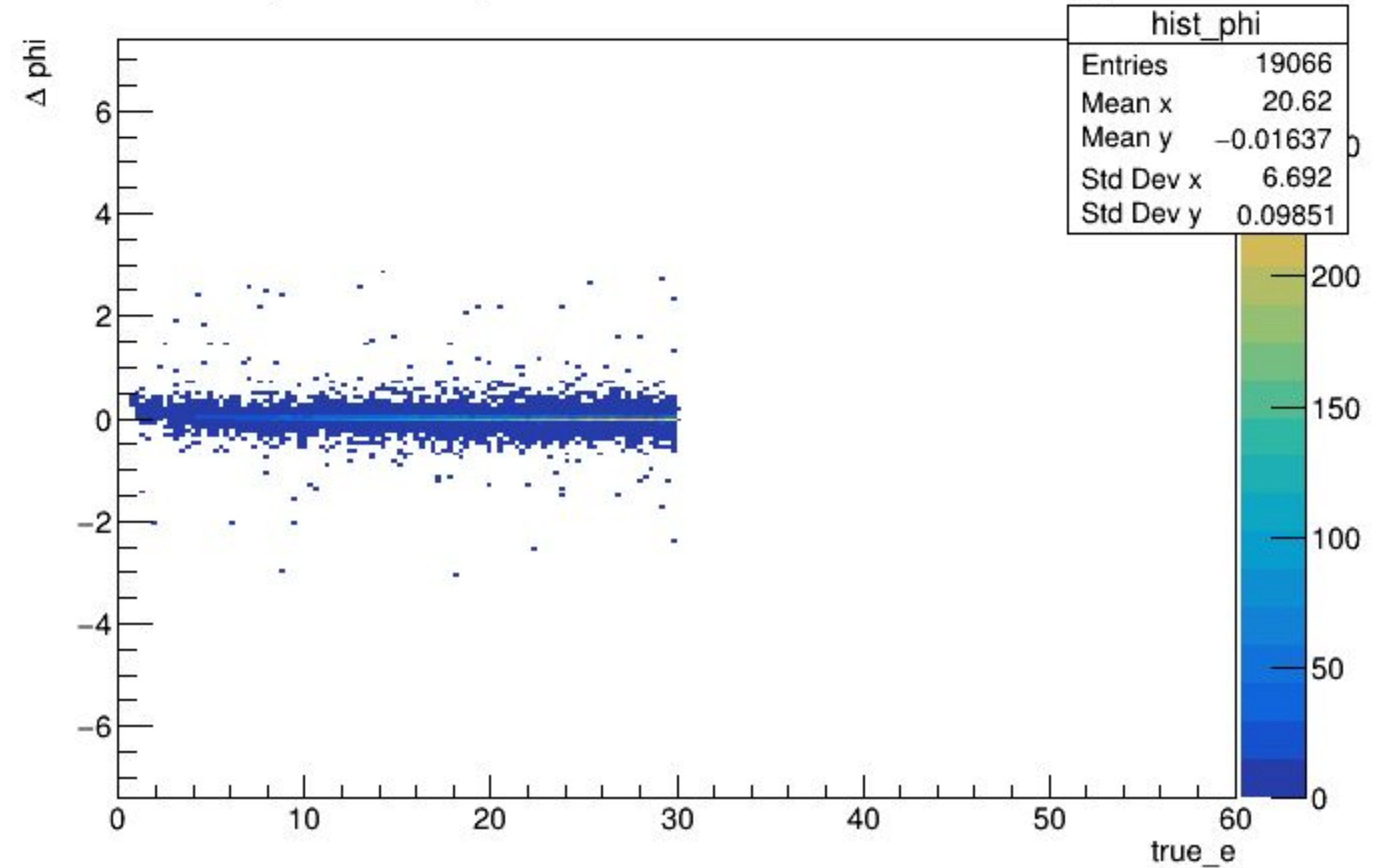
HCALIN

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e $\{-1.4 < \text{true}_\eta < 1.2, \text{meas}_e > 0.2 \text{ GeV}\}$

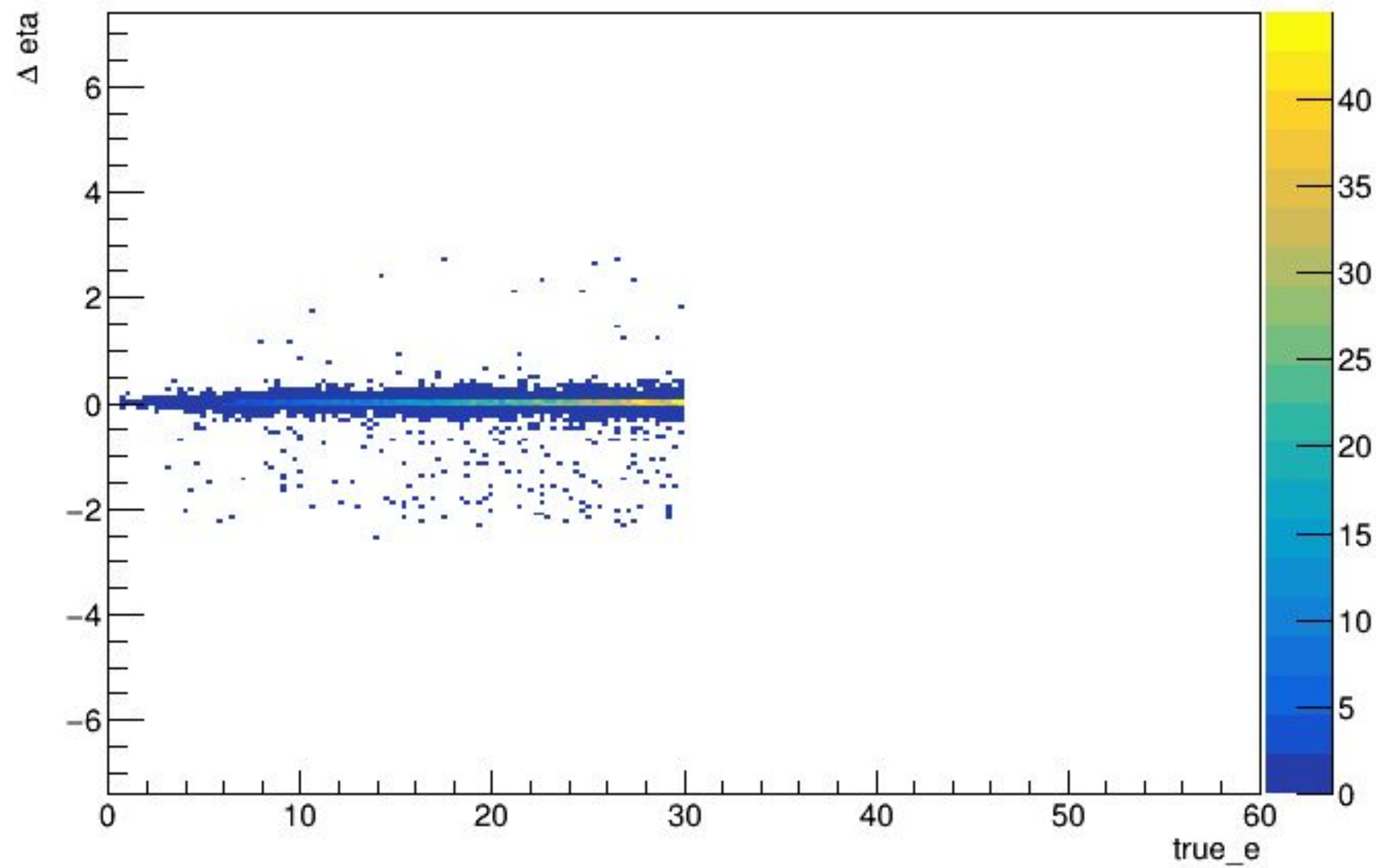


Kaon

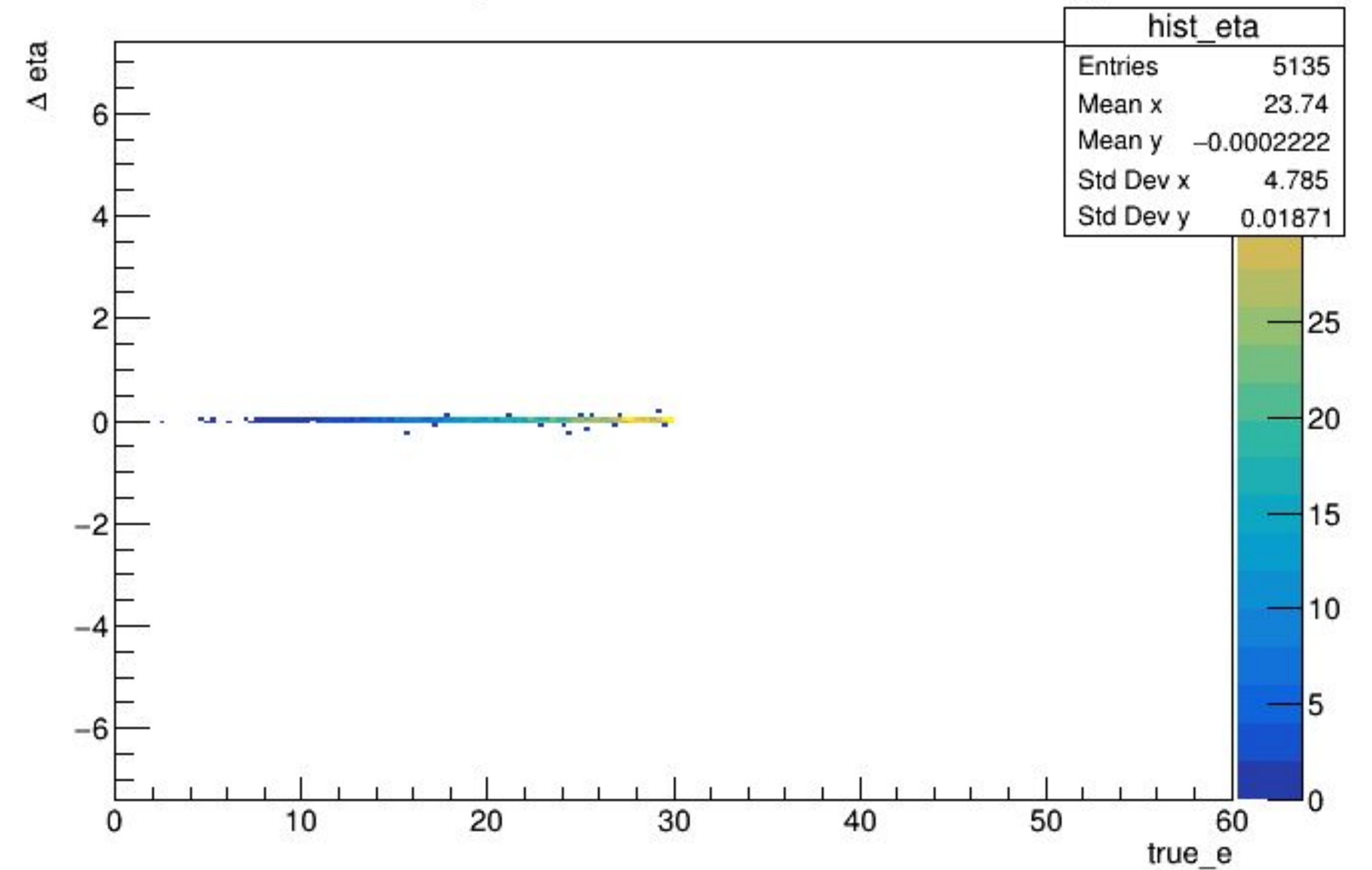
HCALIN

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



$\Delta\eta$ vs true_e $\{-1.4 < \text{true}_\eta < 1.2, \text{meas}_e > 0.2 \text{ GeV}\}$

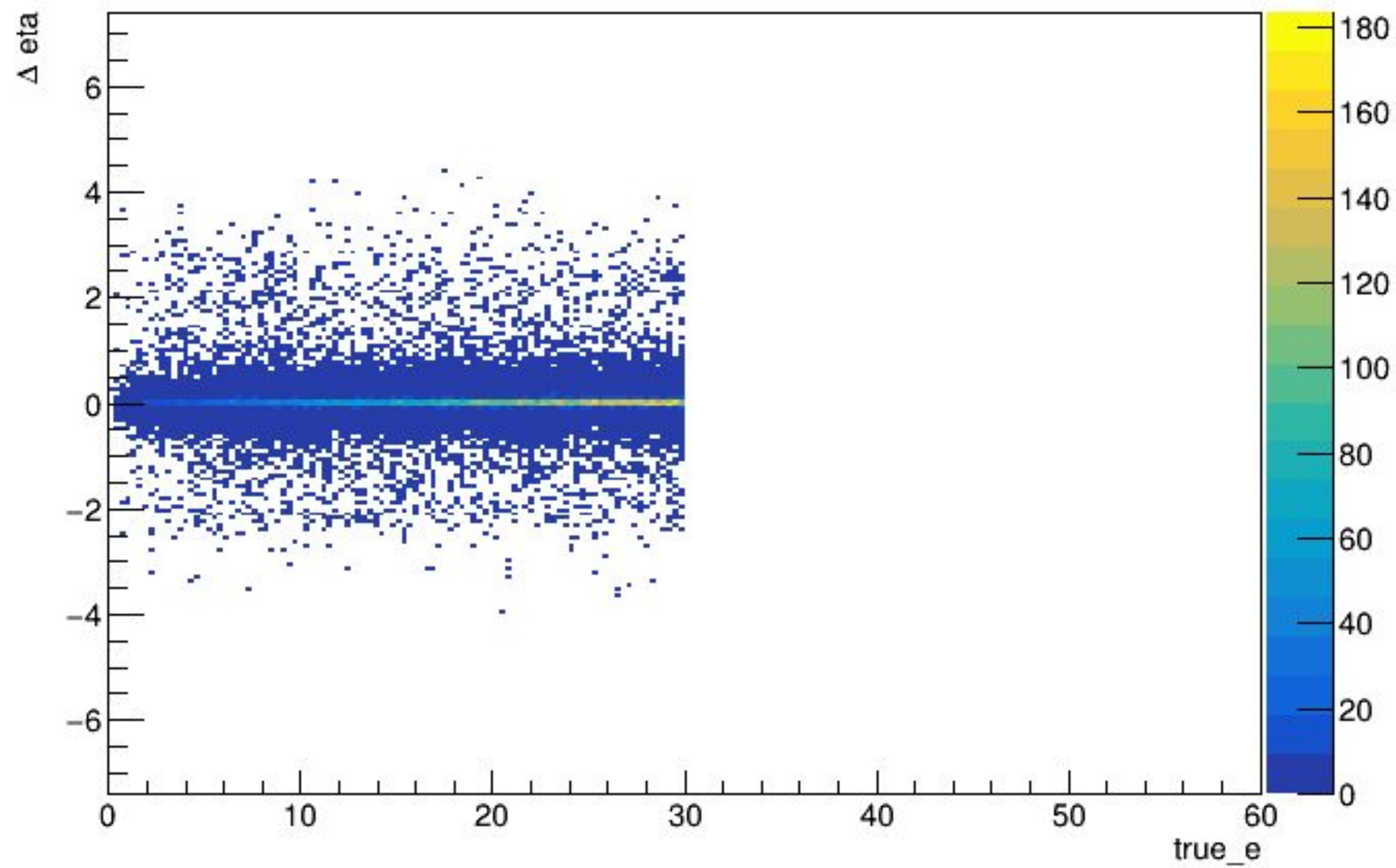


Electron

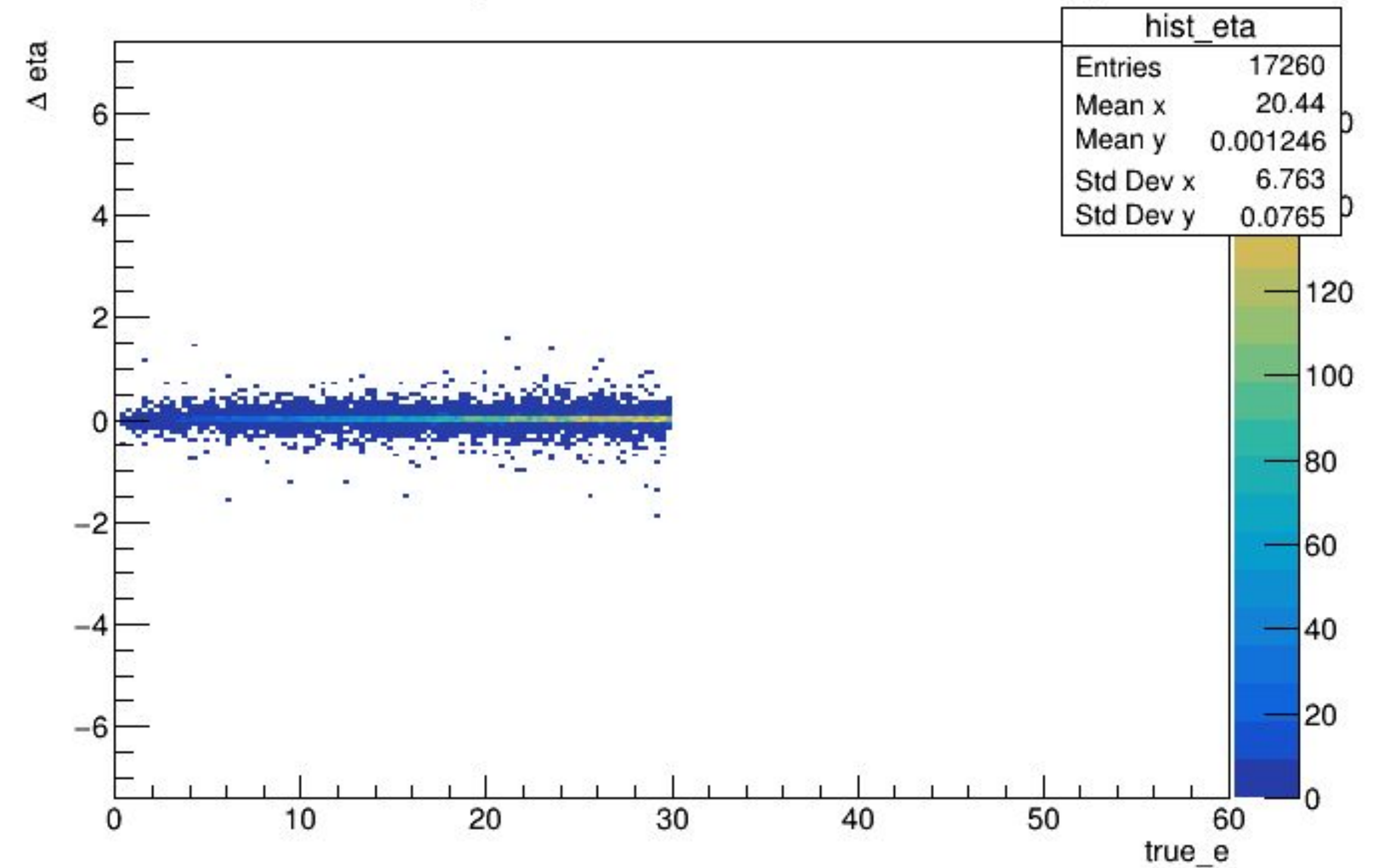
HCALIN

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



$\Delta\eta$ vs true_e $\{-1.4 < \text{true}_\eta < 1.2, \text{meas}_e > 0.2 \text{ GeV}\}$

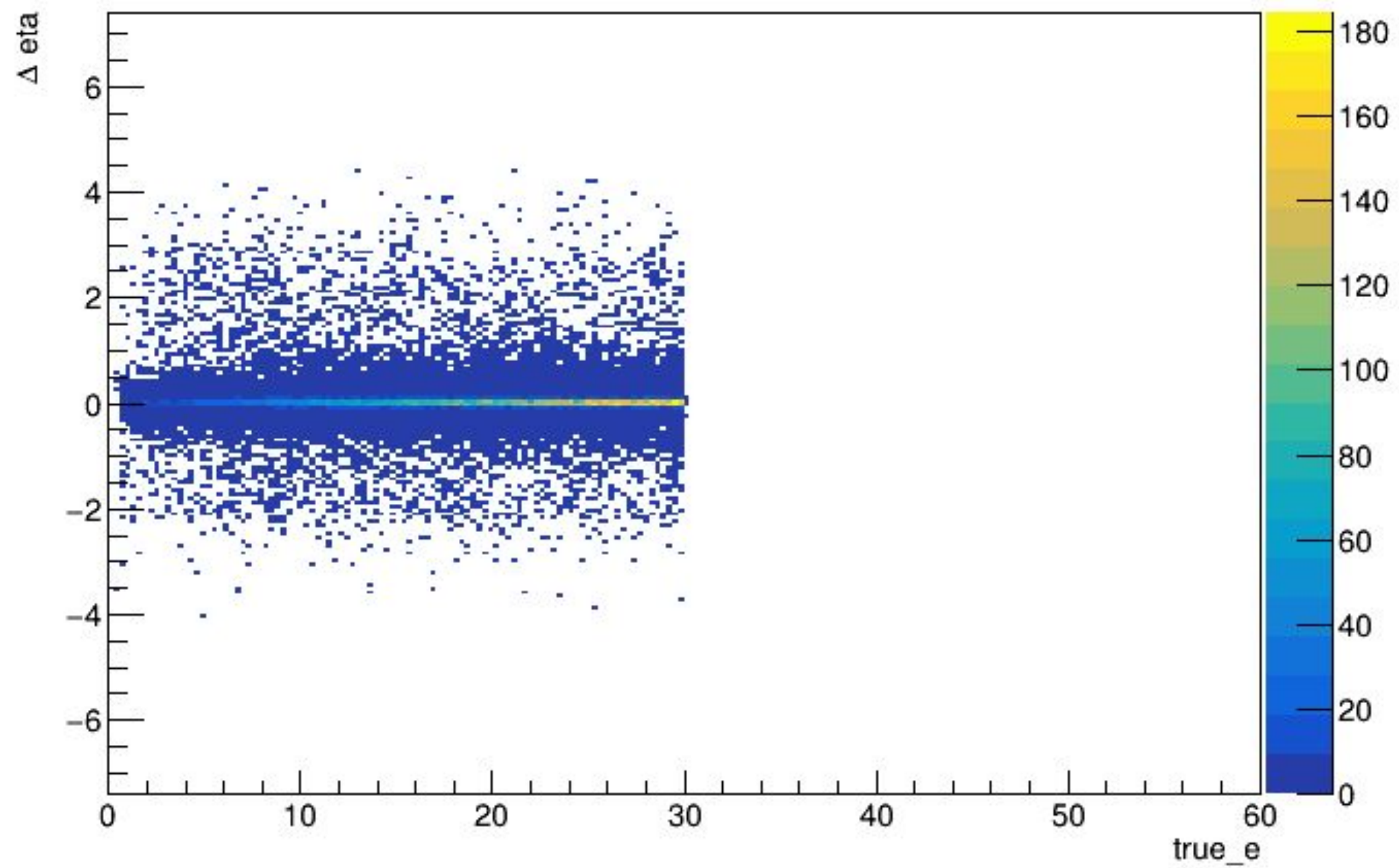


Pion

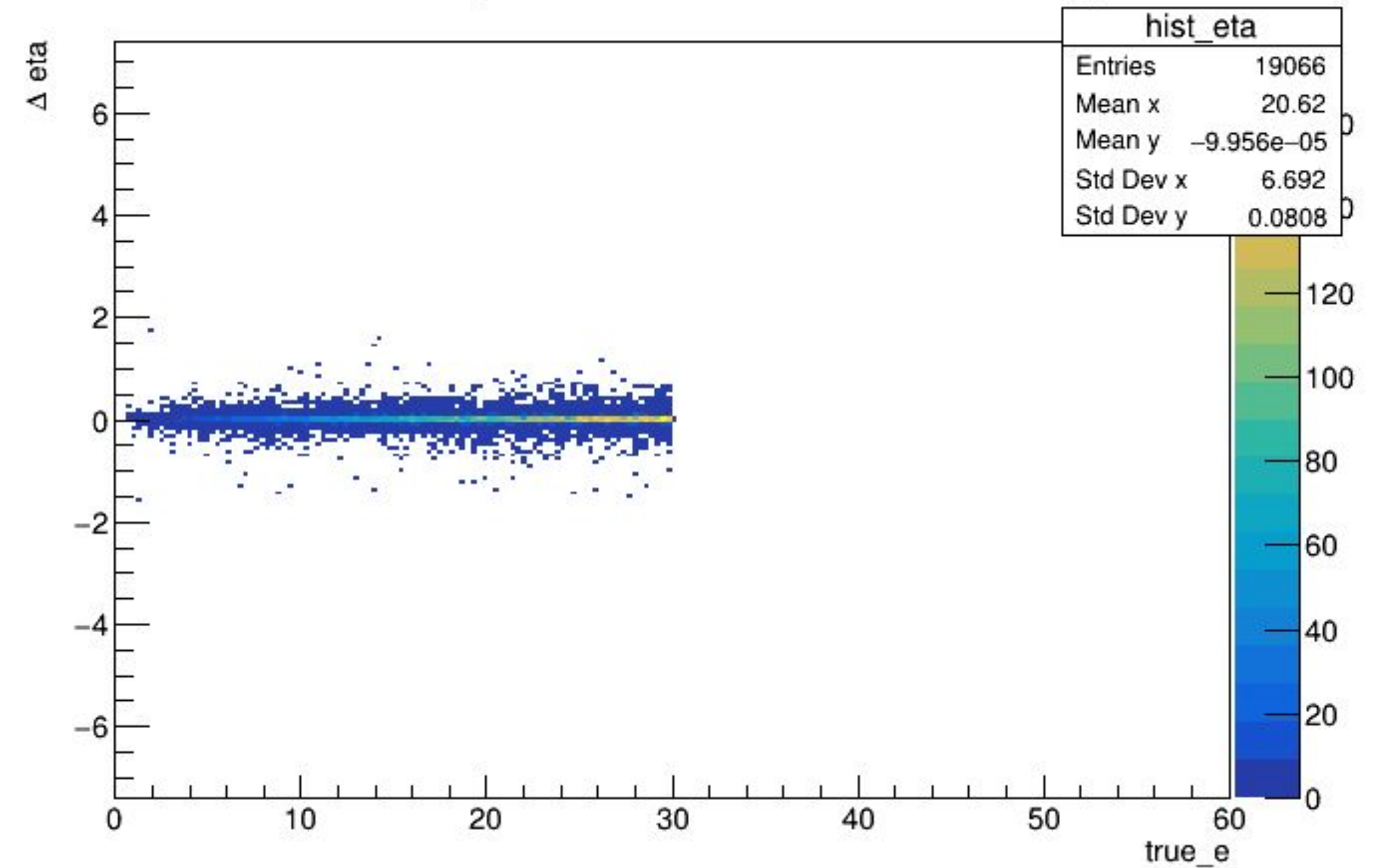
HCALIN

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



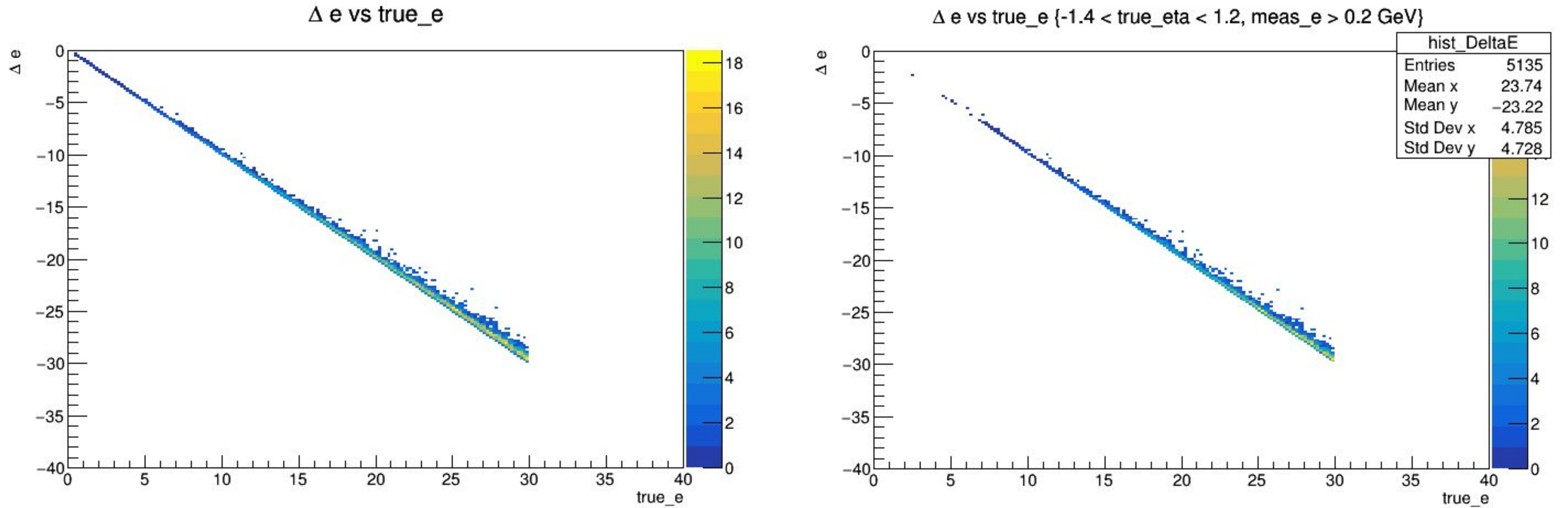
$\Delta\eta$ vs true_e $\{-1.4 < \text{true}_\eta < 1.2, \text{meas}_e > 0.2 \text{ GeV}\}$



Kaon

HCALIN

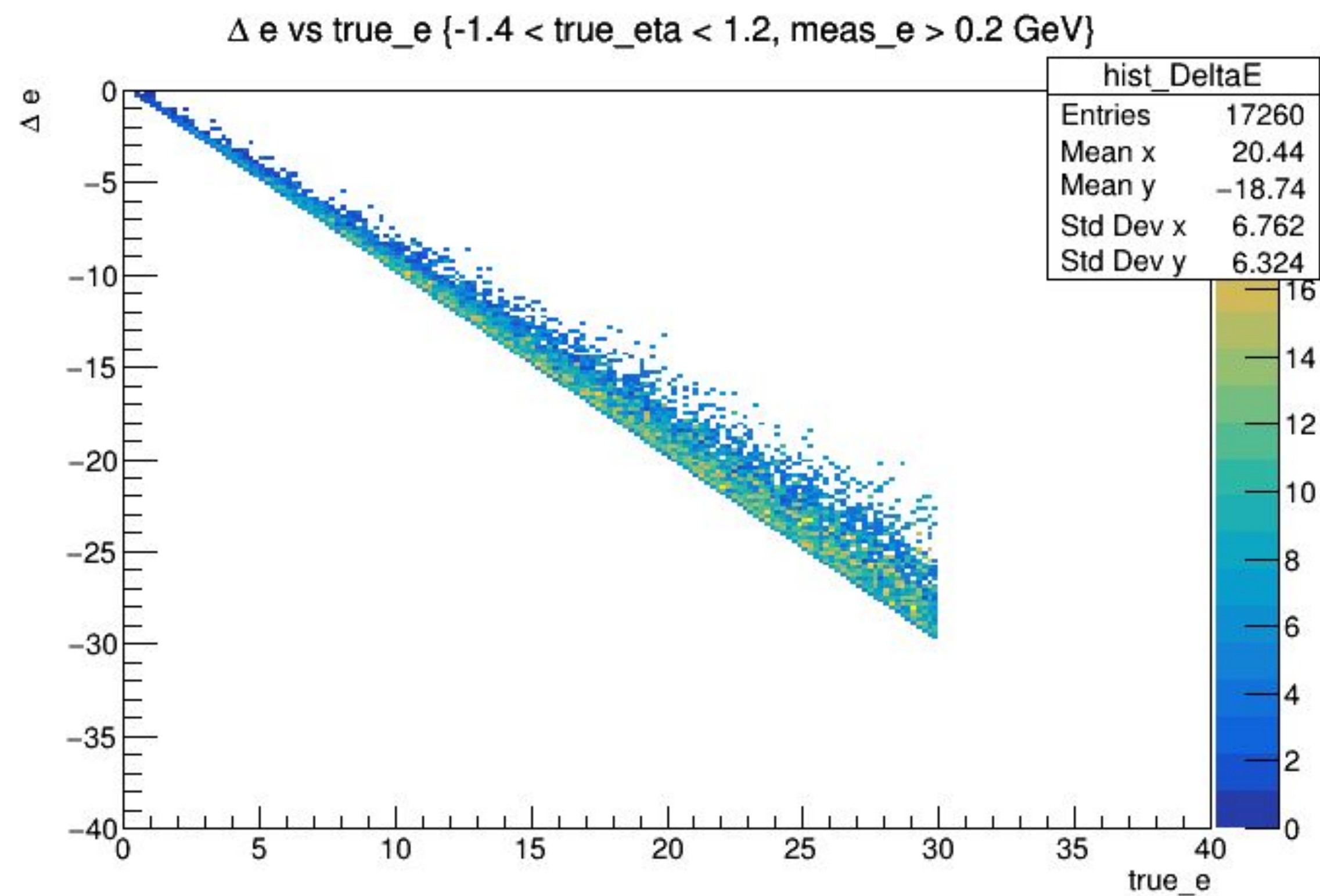
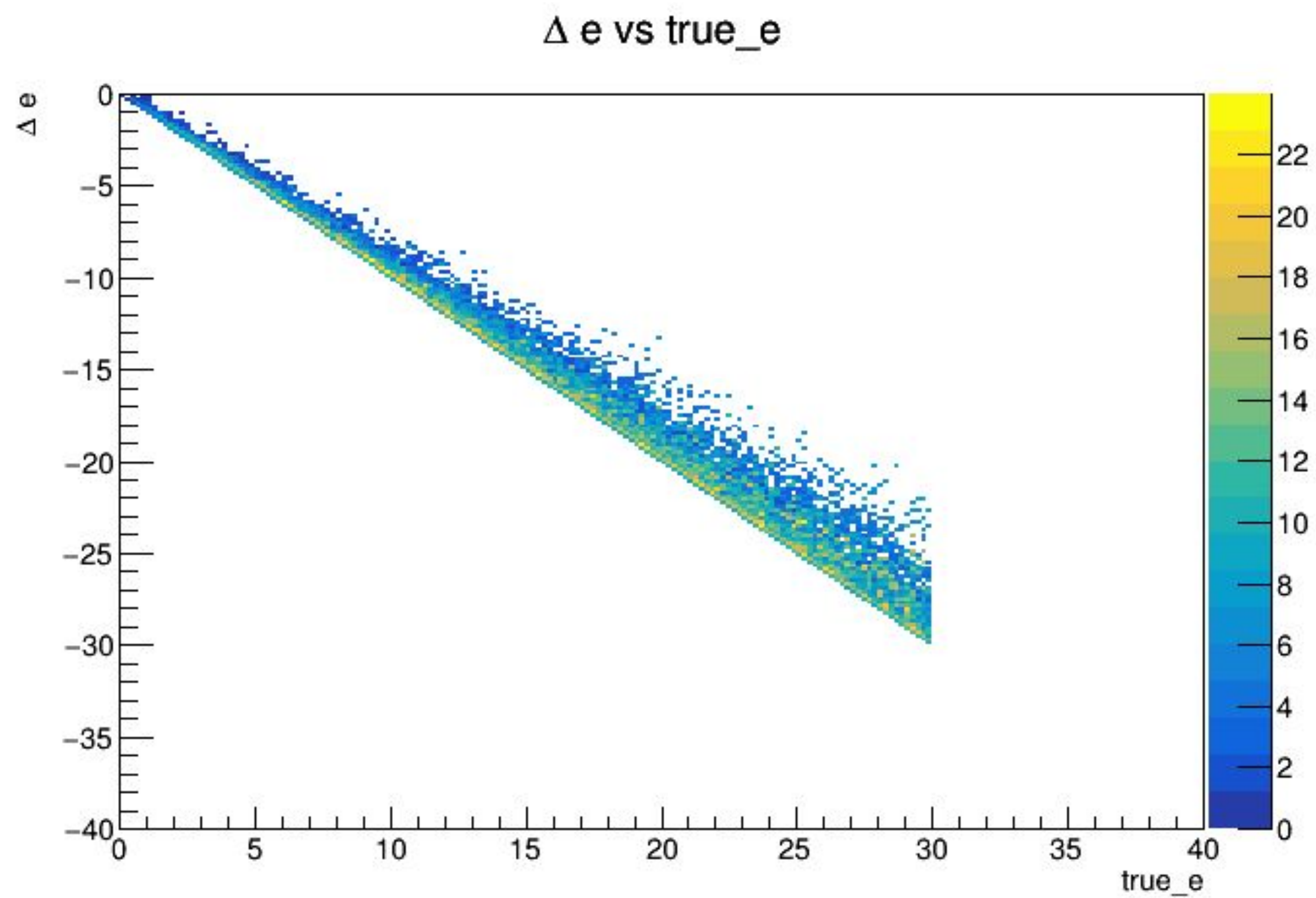
Δe vs g_e



Electron

HCALIN

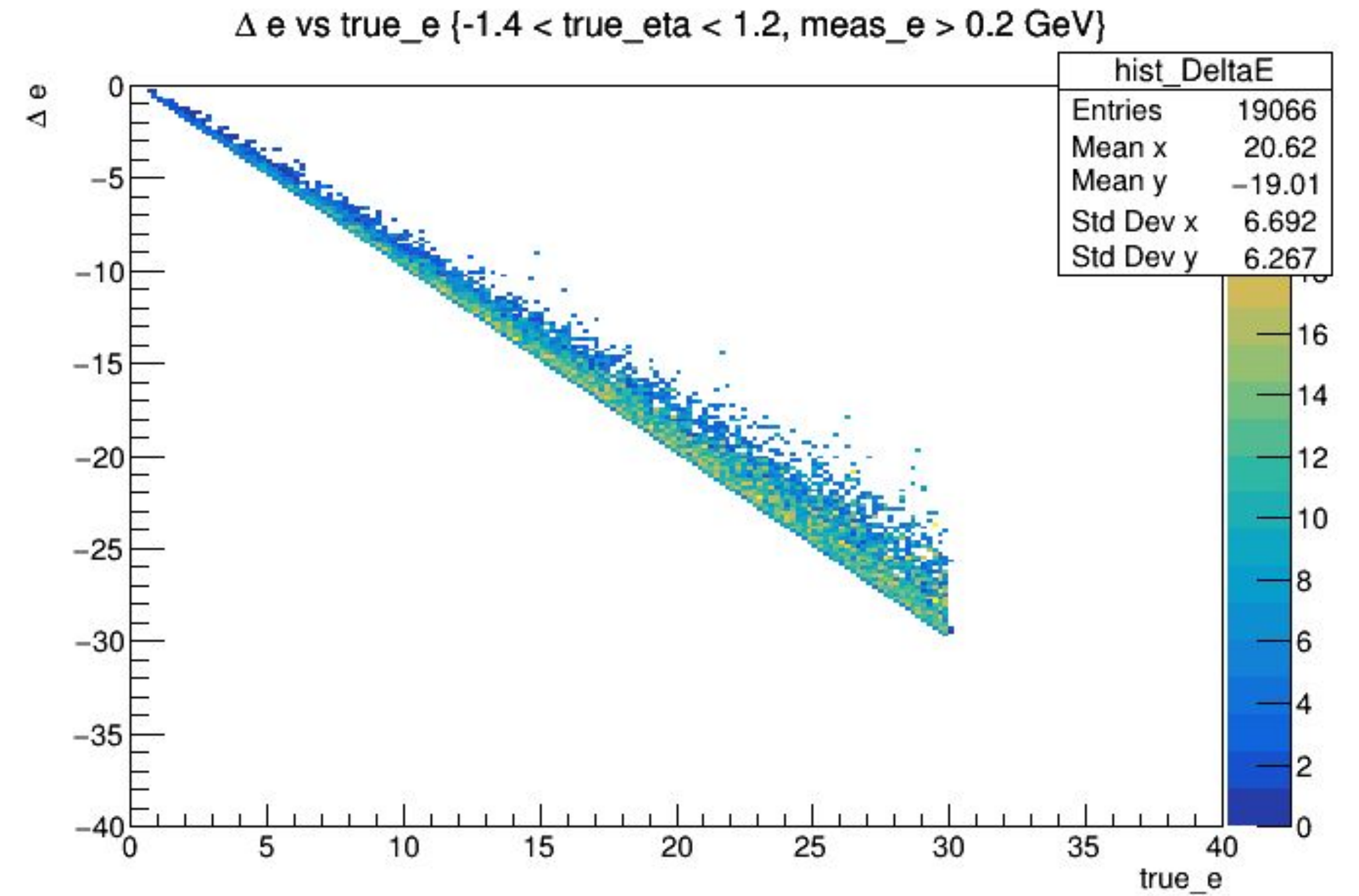
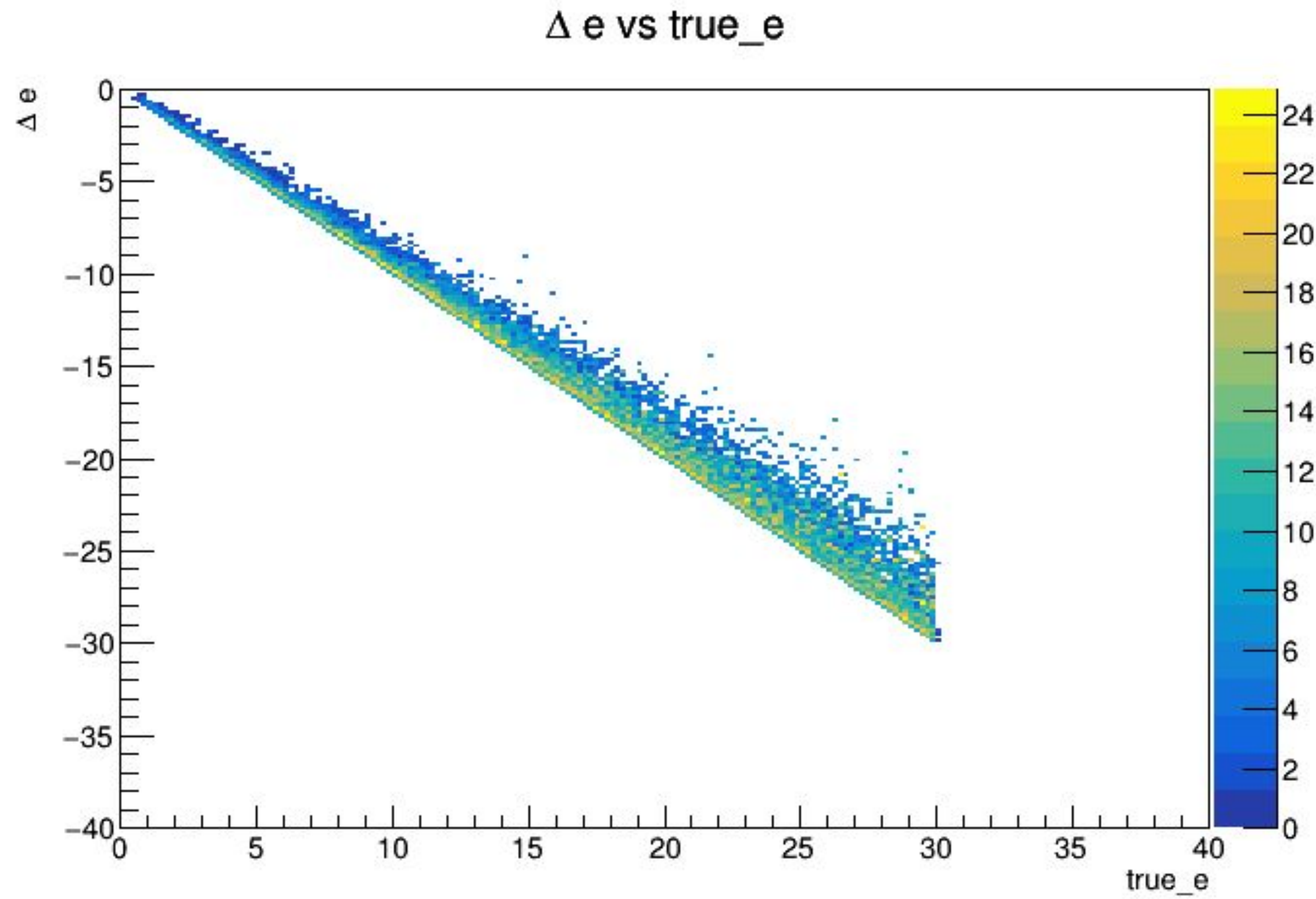
Δe vs g_e



Pion

HCALIN

Δe vs g_e



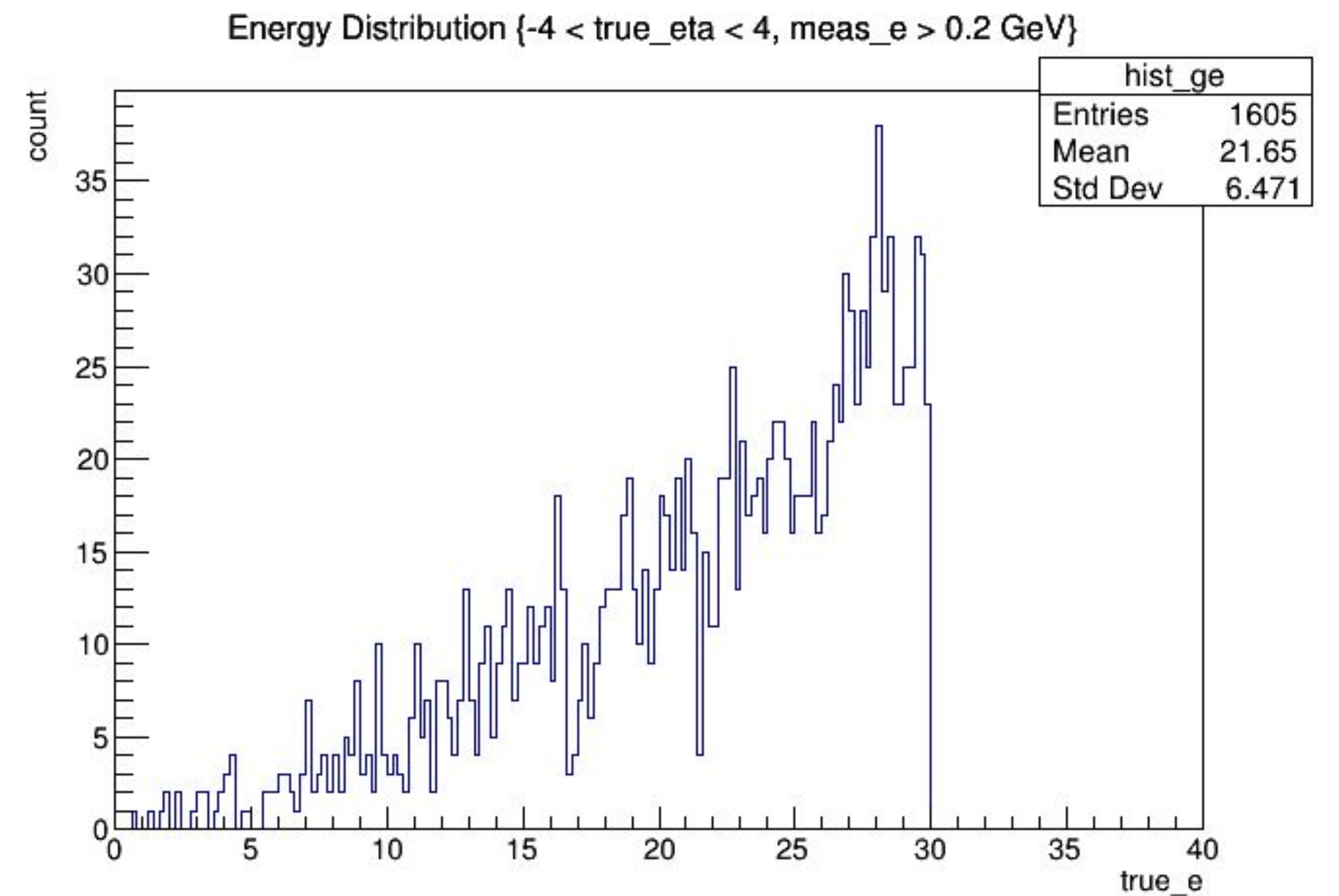
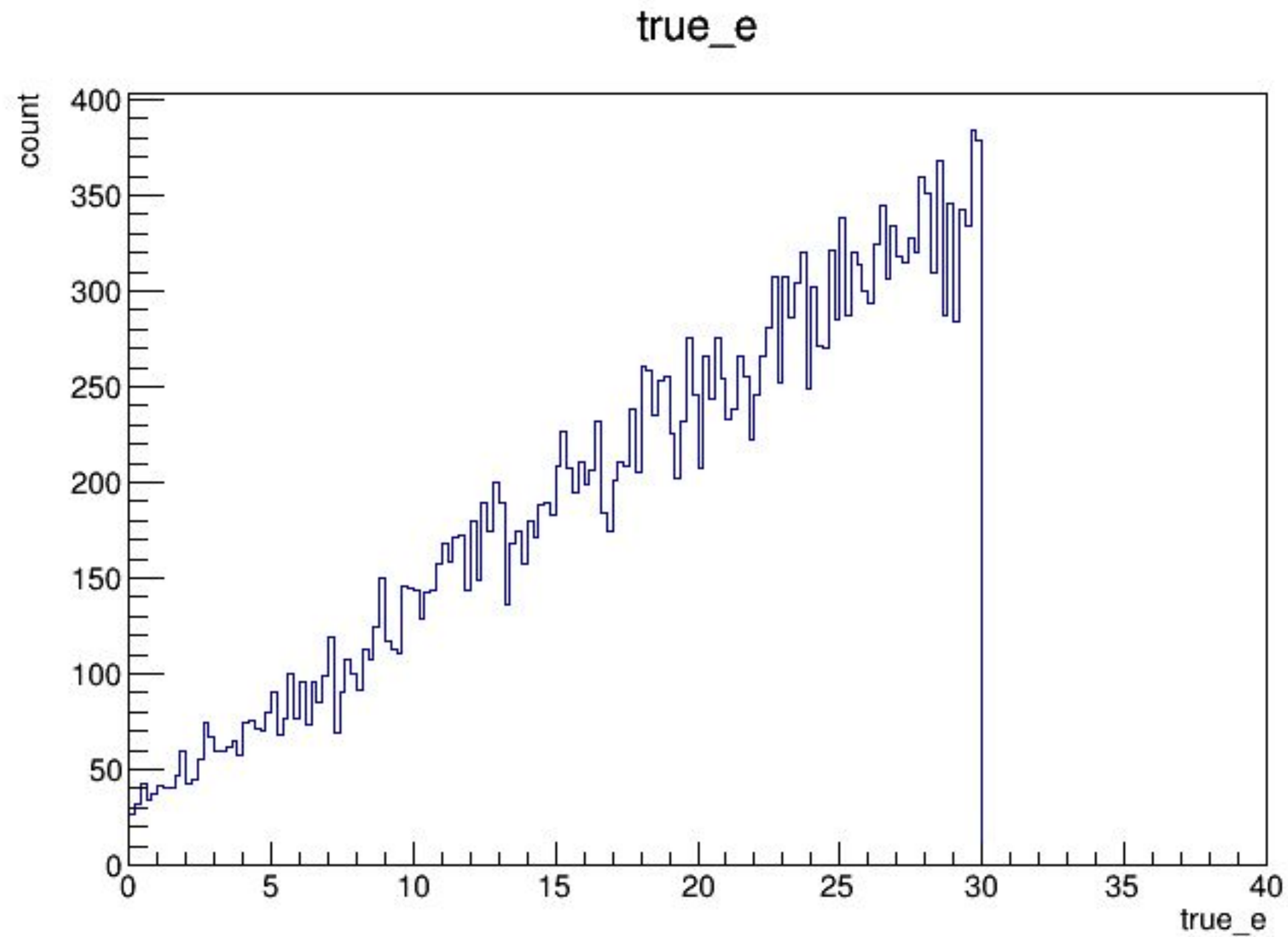
Kaon



HCAALOUT

HCALOUT

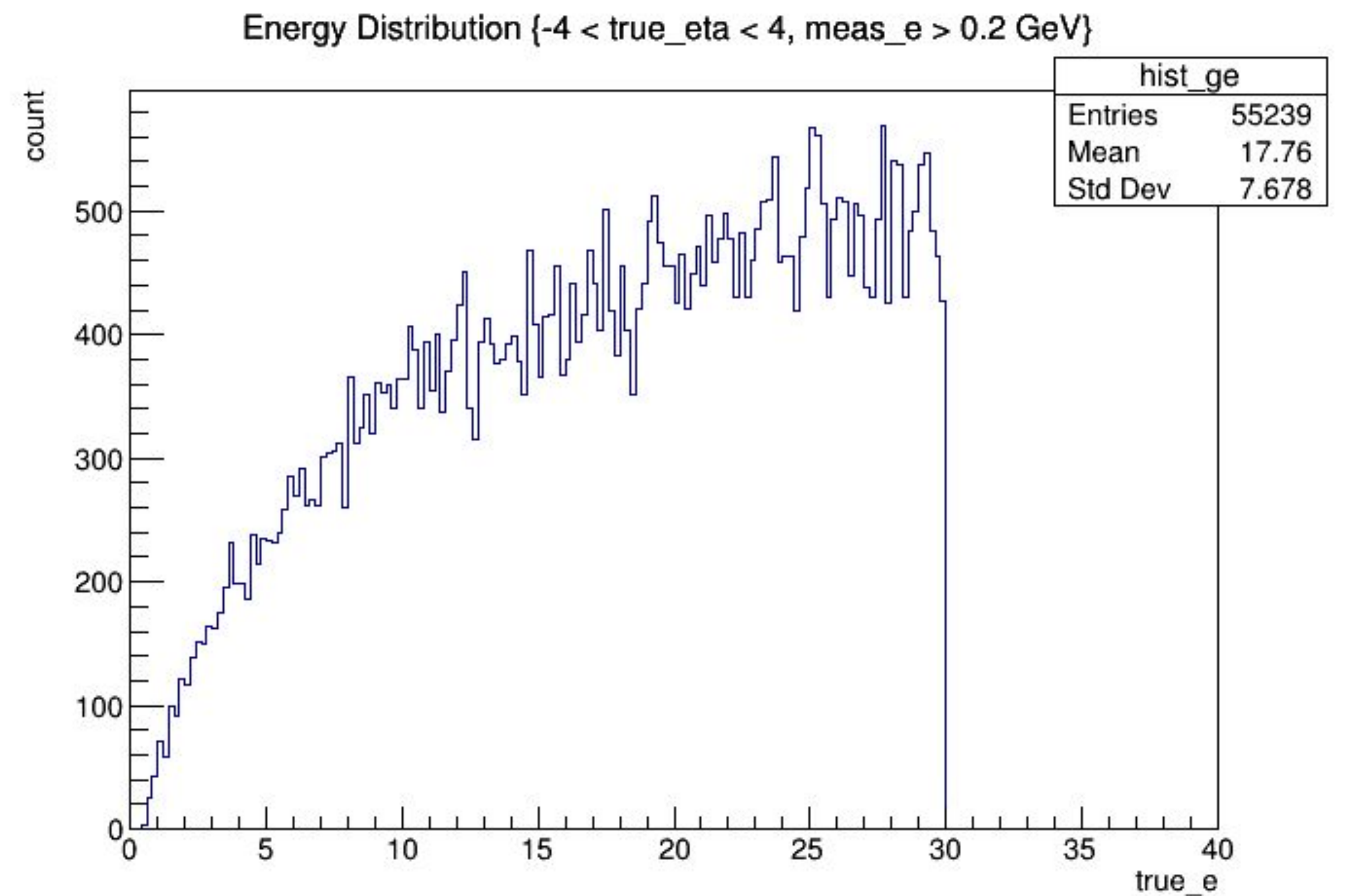
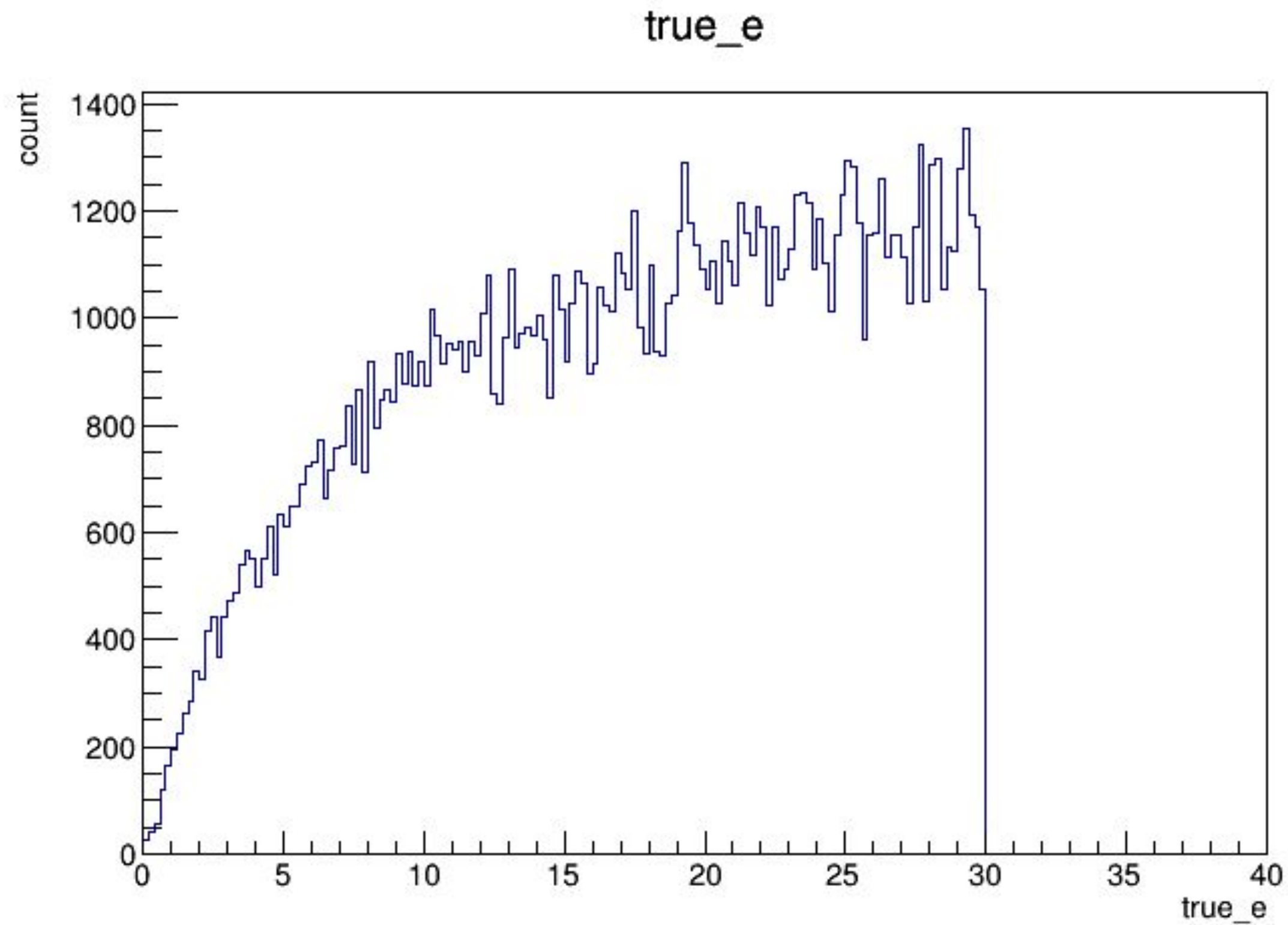
ge distribution



Electron

HCALOUT

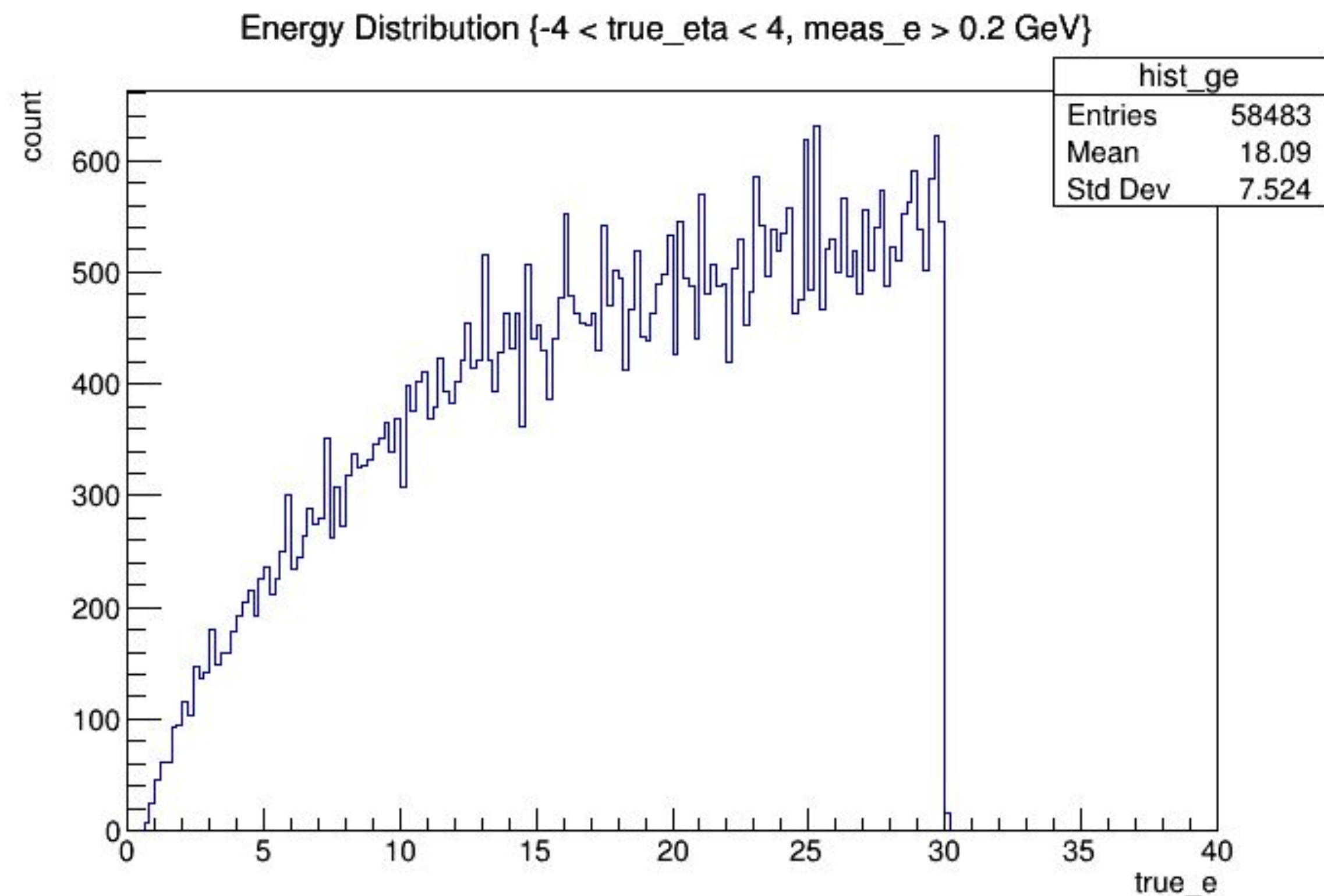
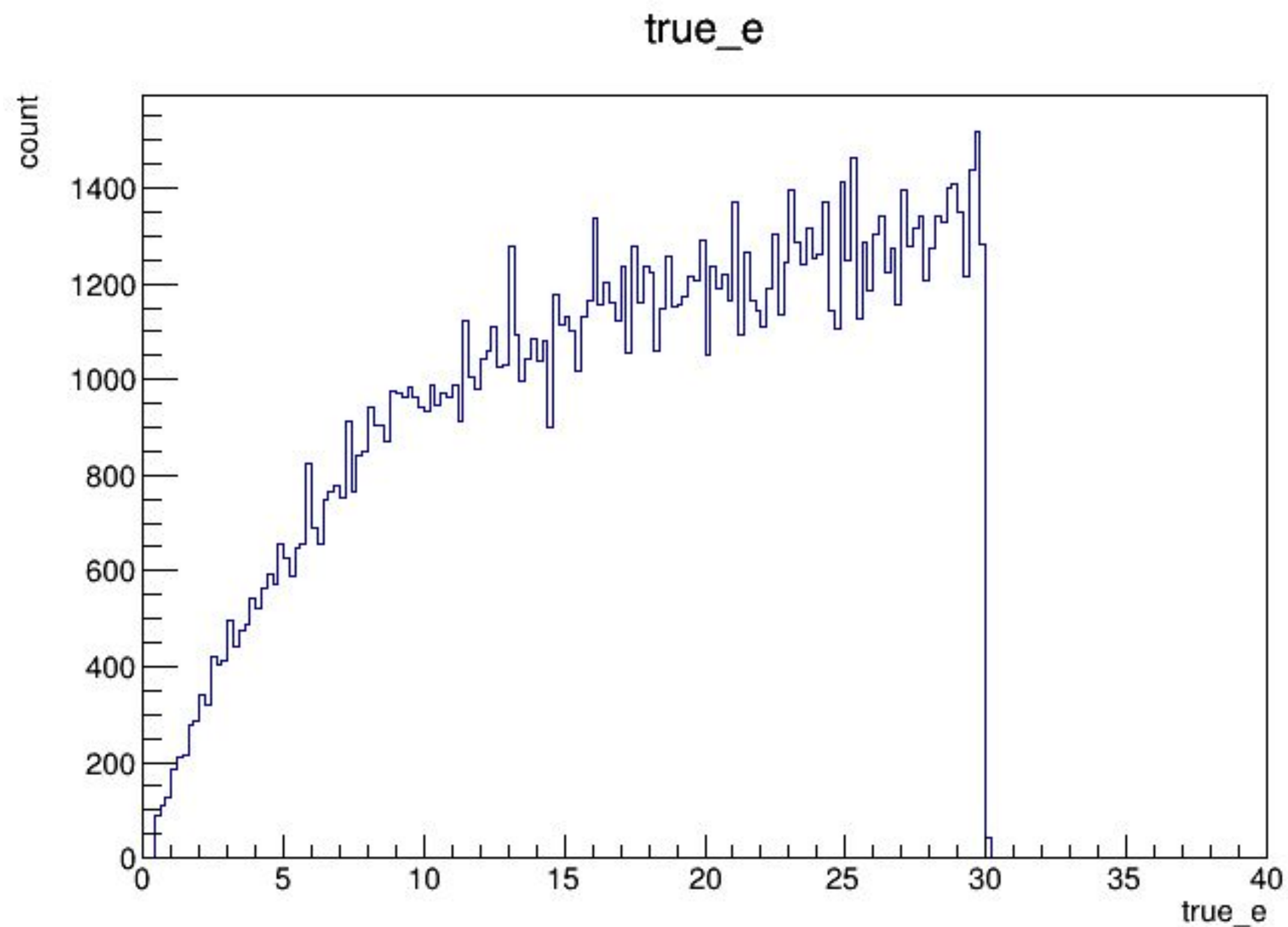
ge distribution



Pion

HCALOUT

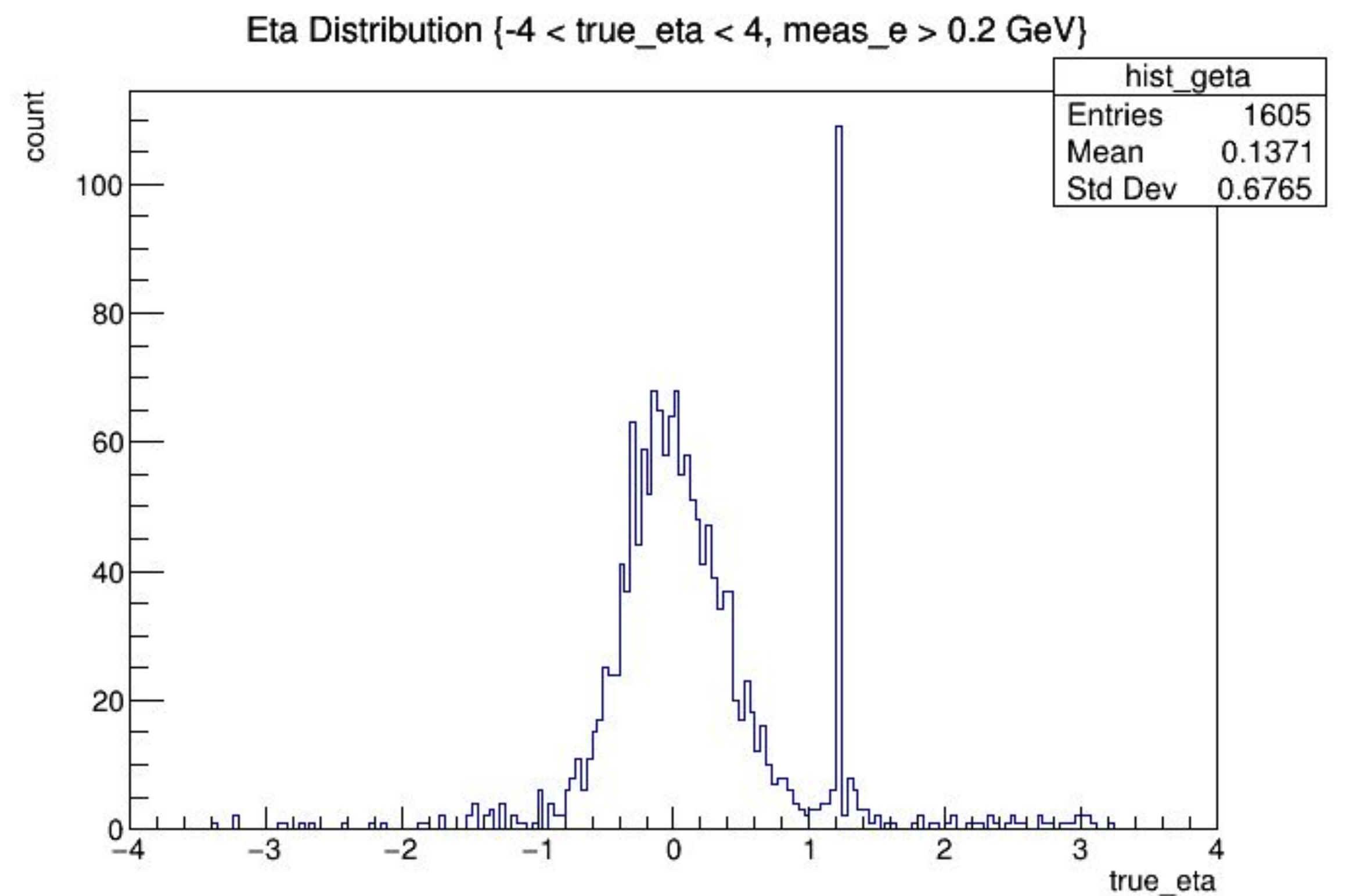
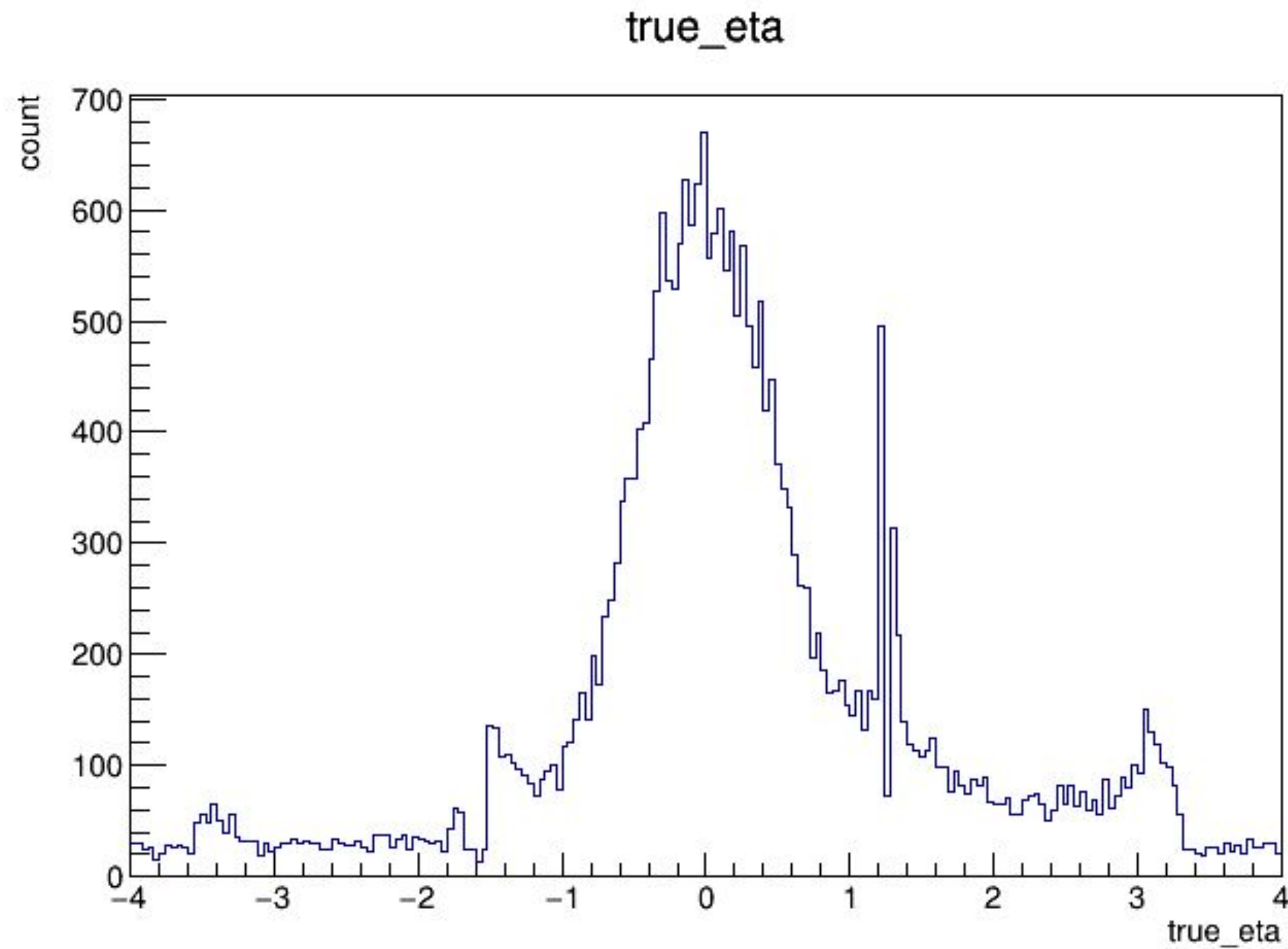
ge distribution



Kaon

HCALOUT

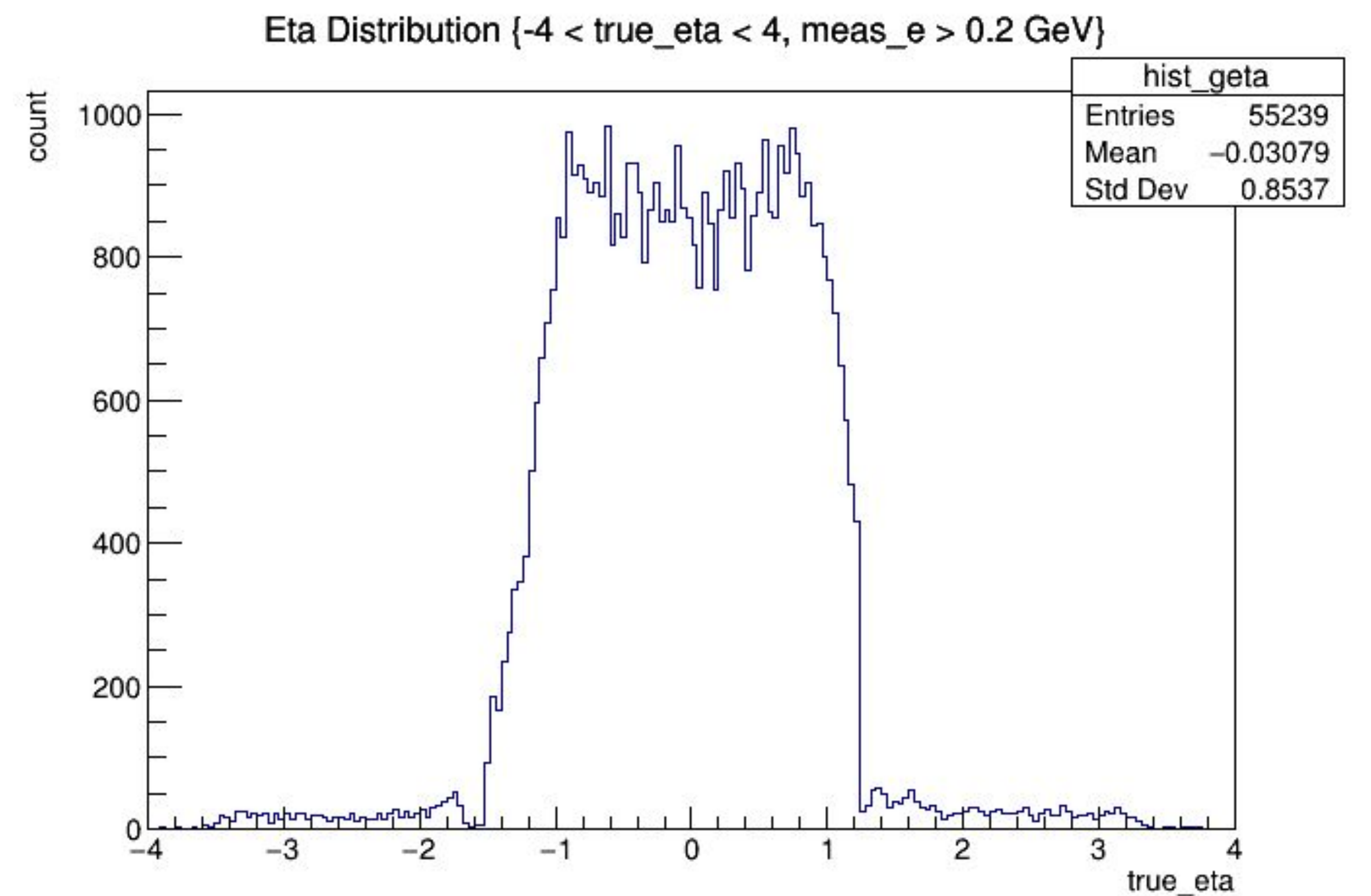
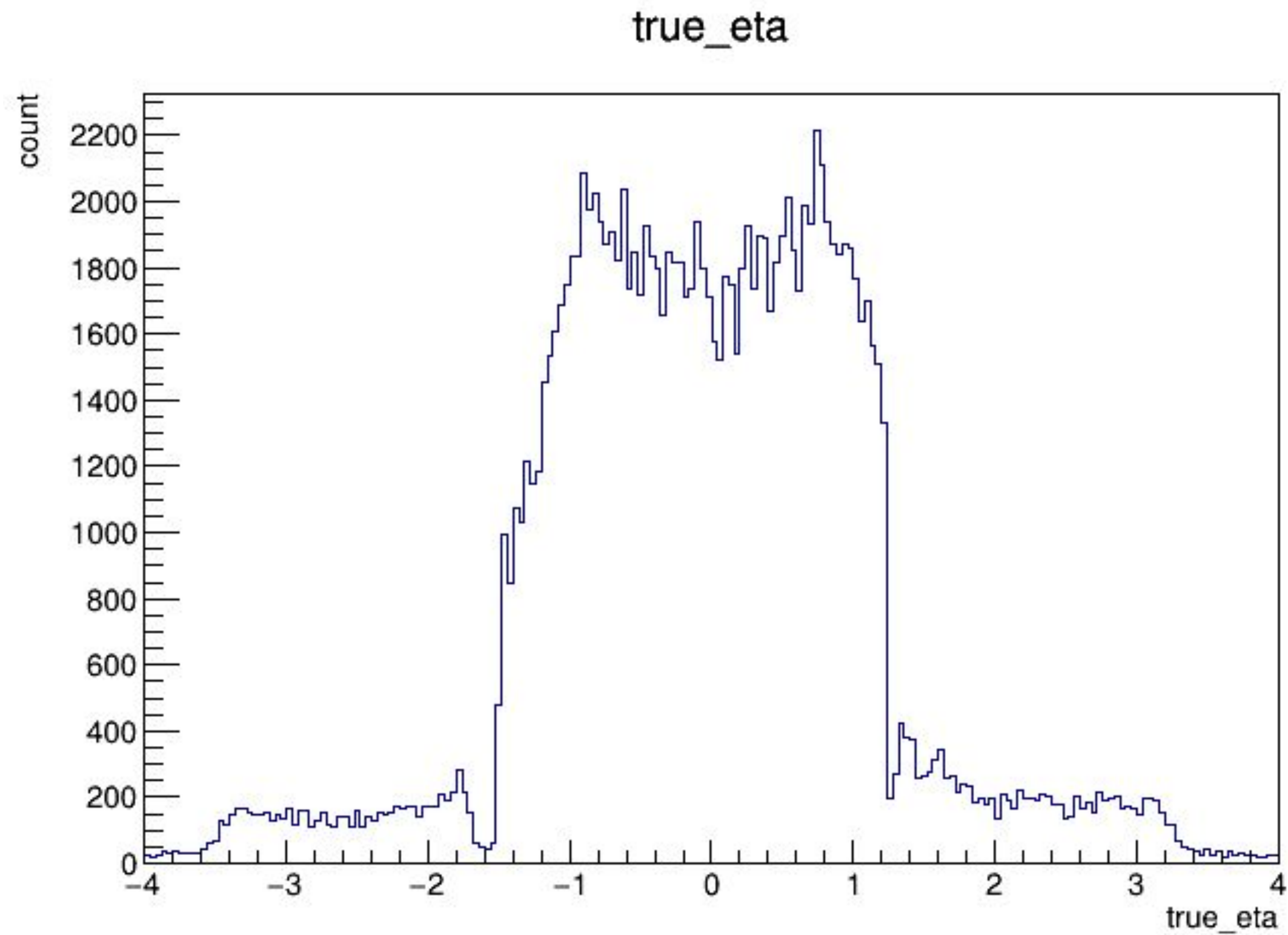
geta distribution



Electron

HCALOUT

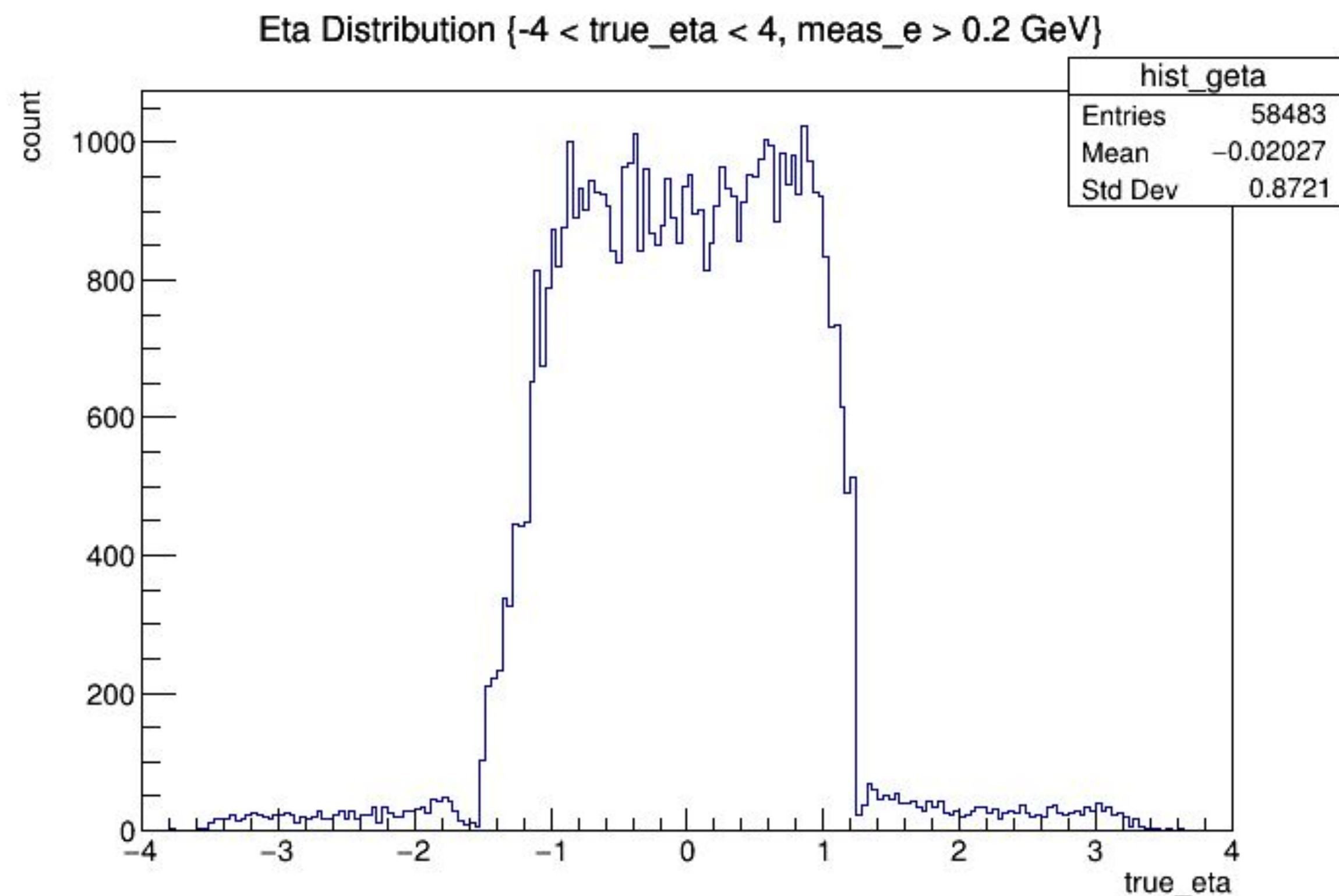
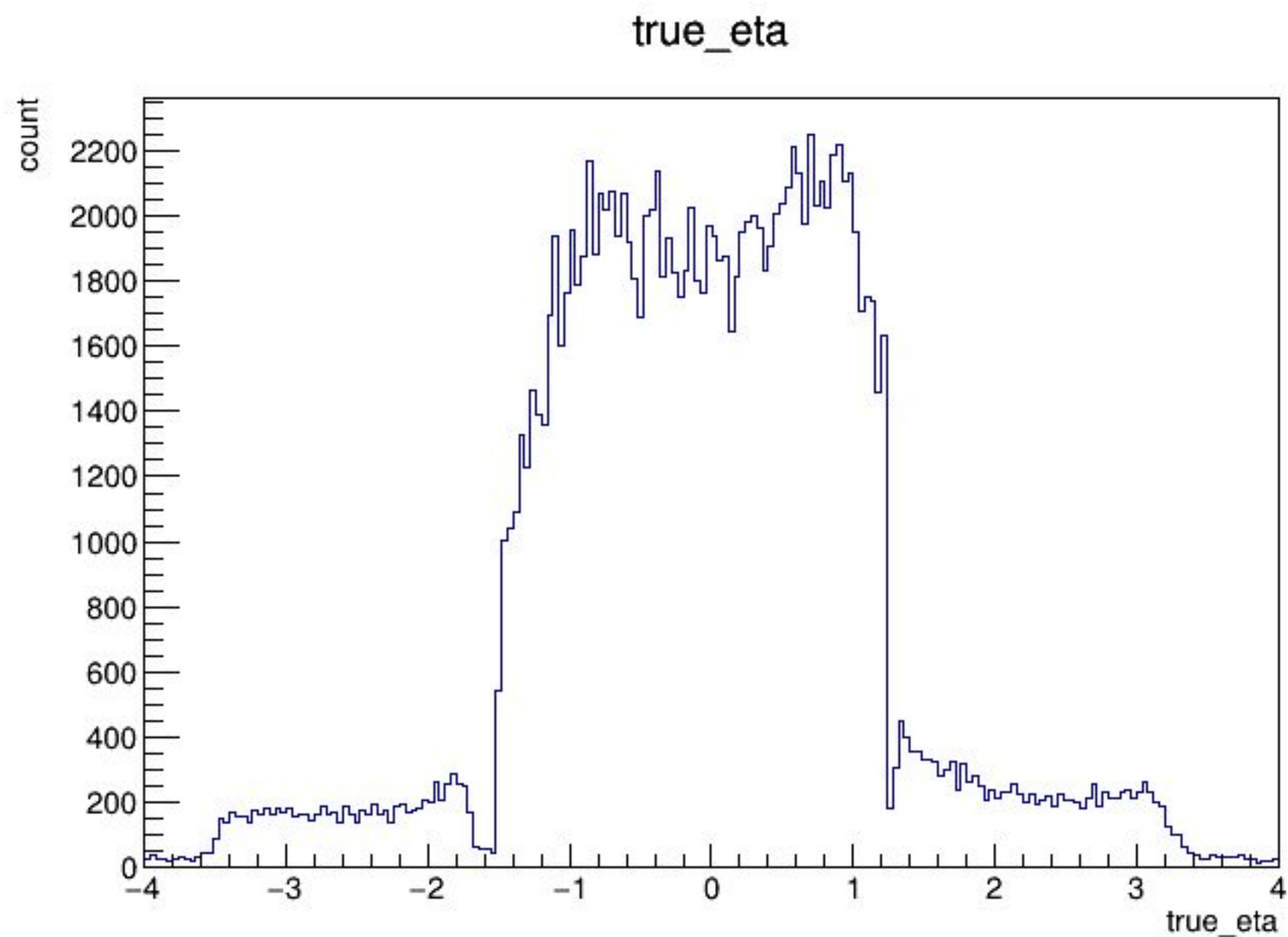
geta distribution



Pion

HCALOUT

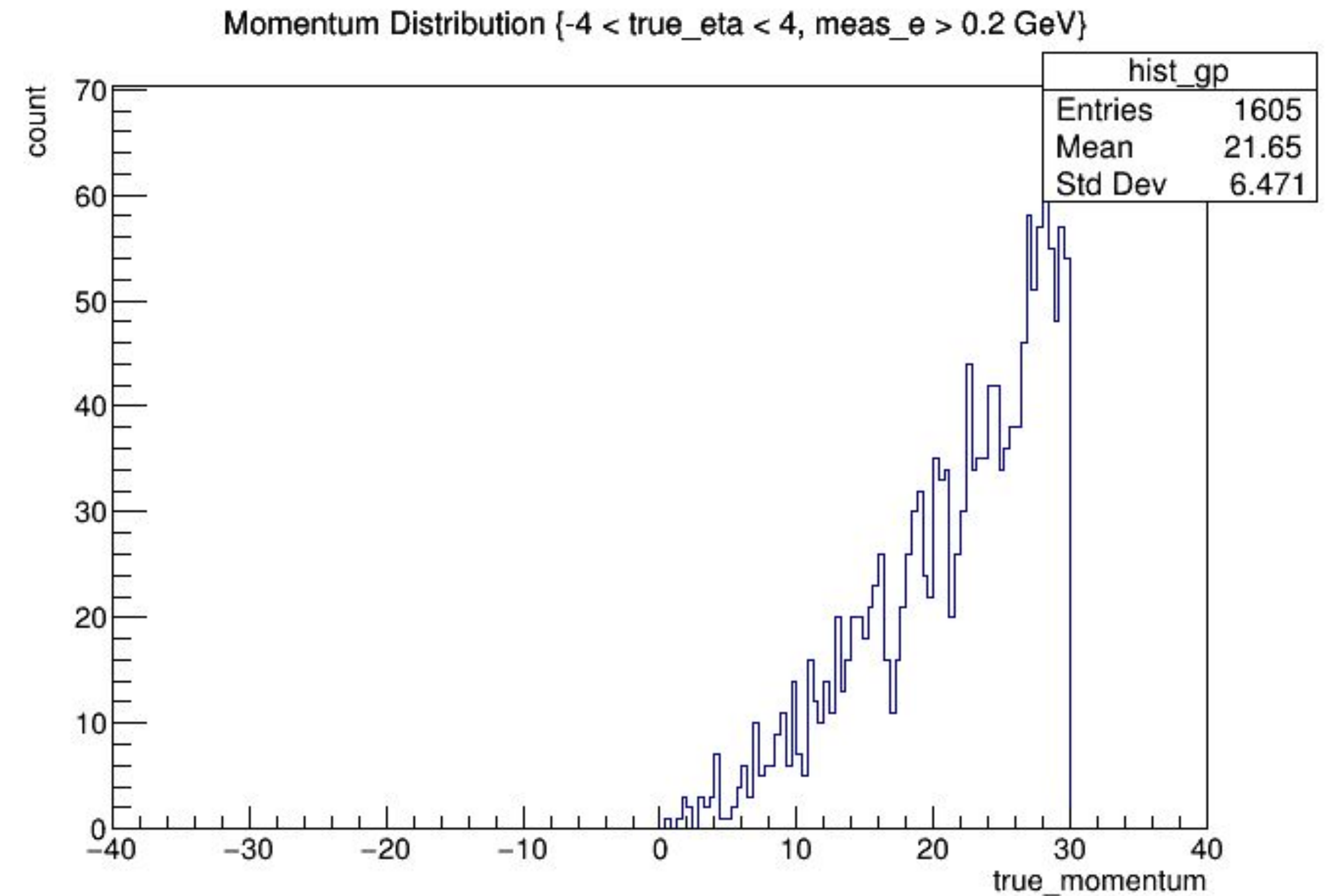
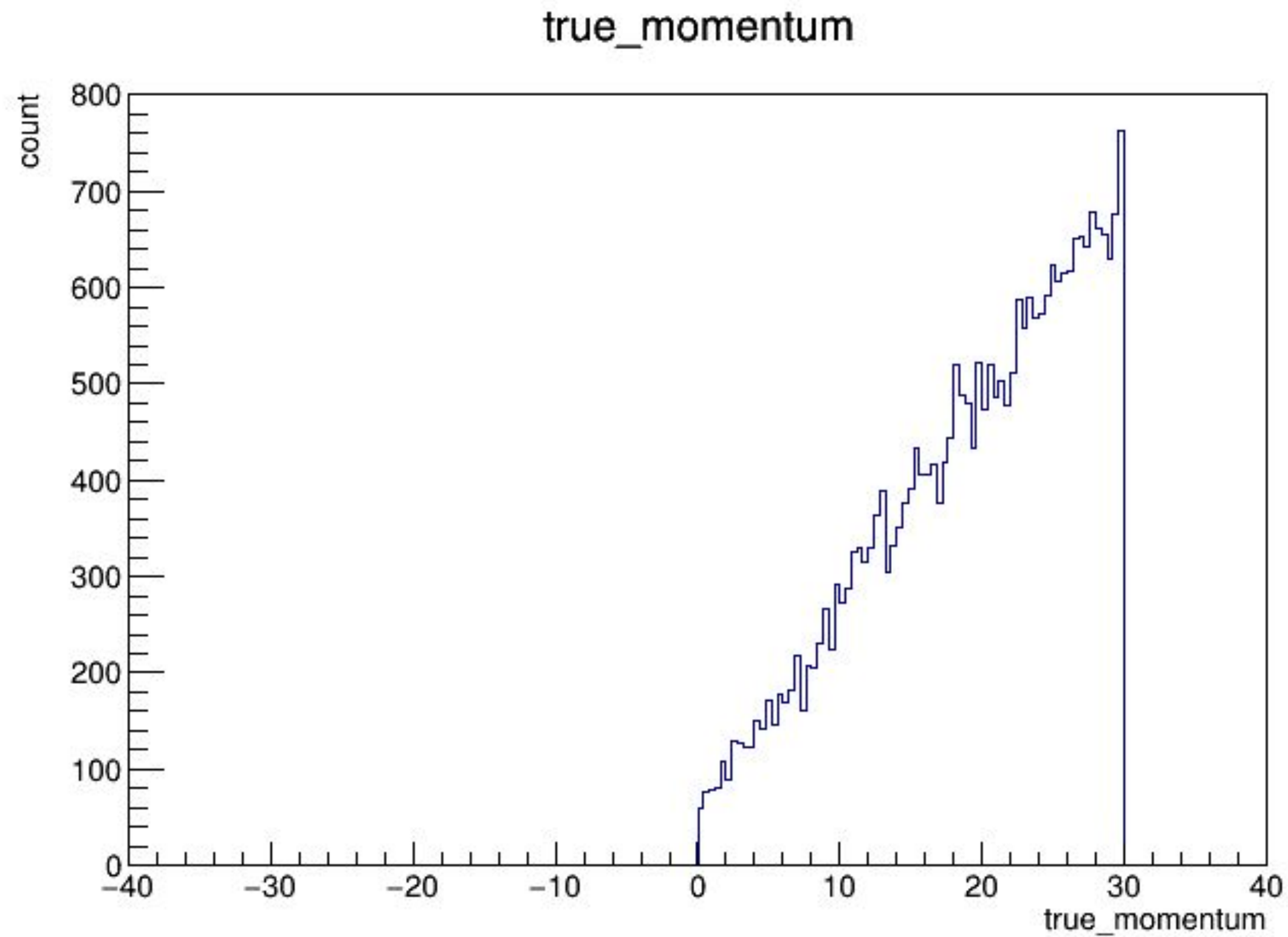
geta distribution



Kaon

HCALOUT

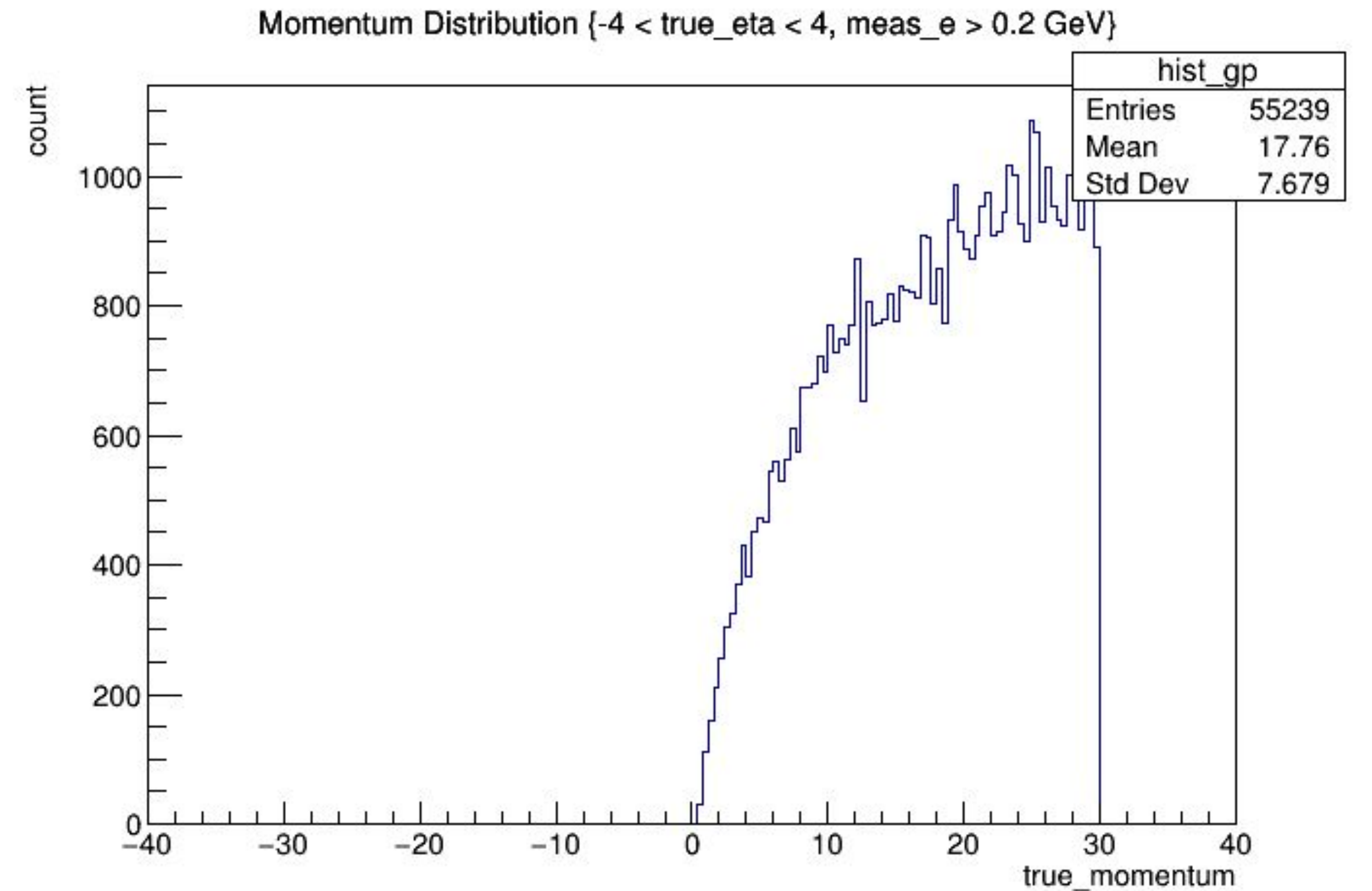
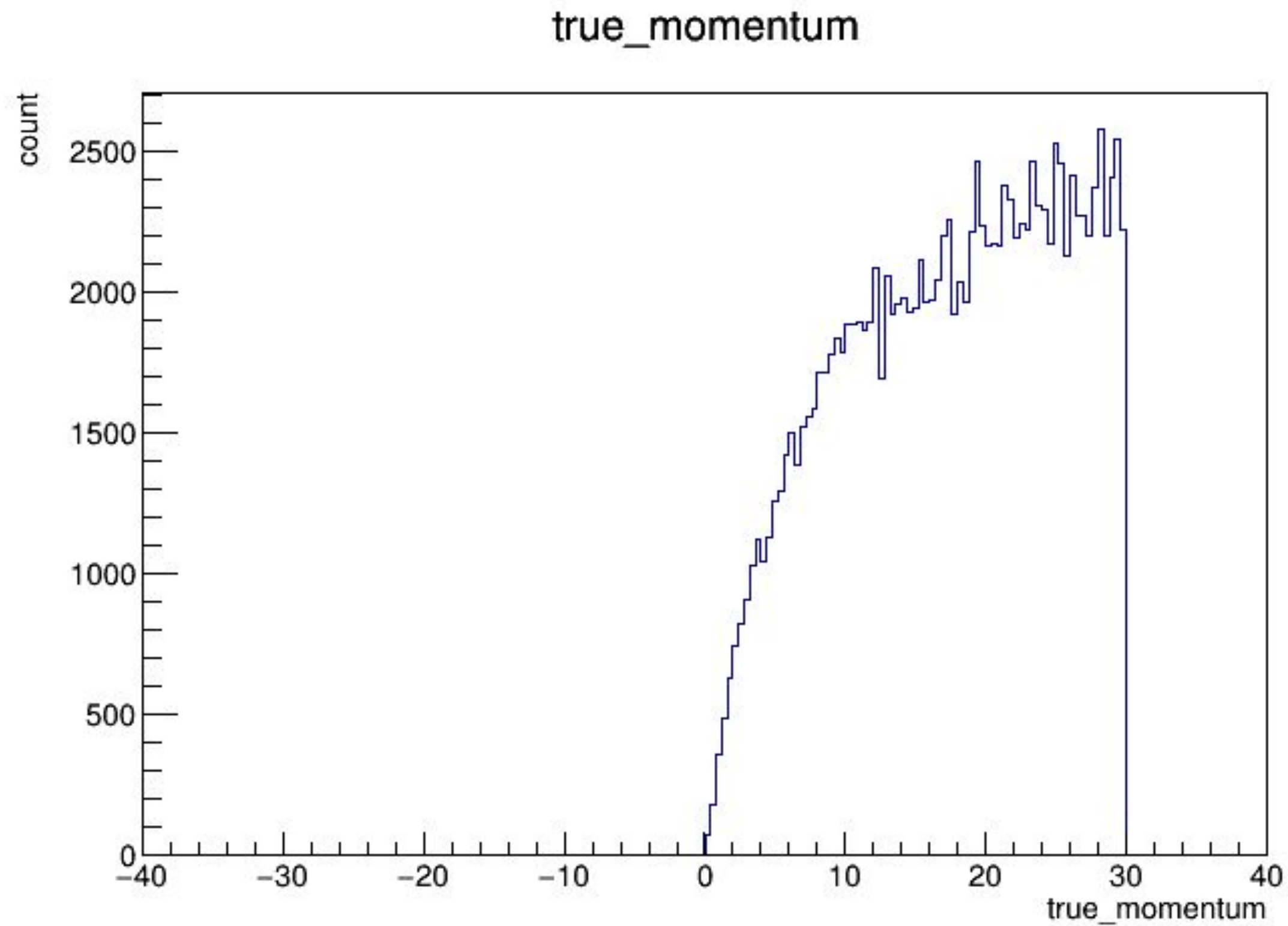
Momentum distribution



Electron

HCALOUT

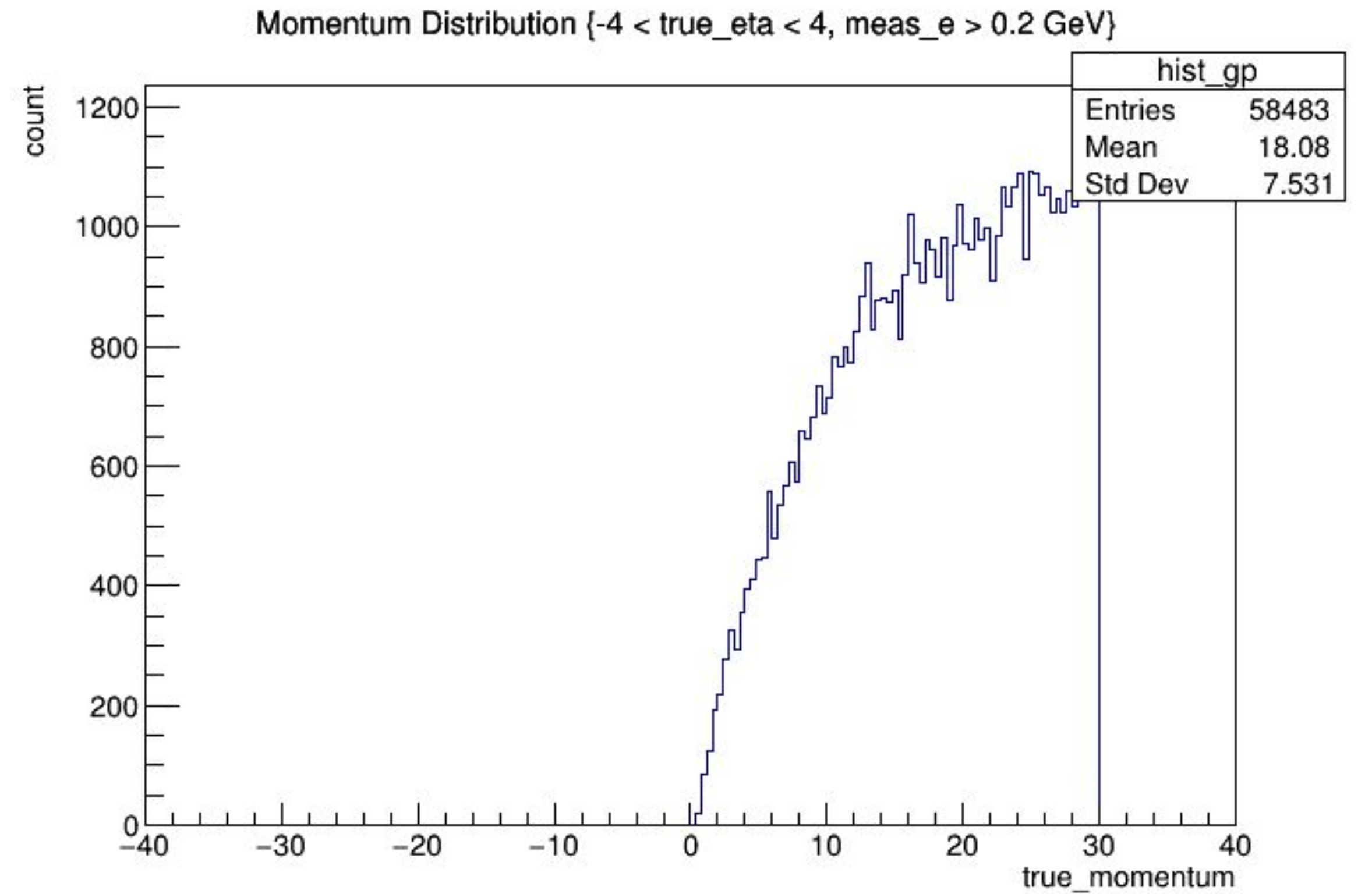
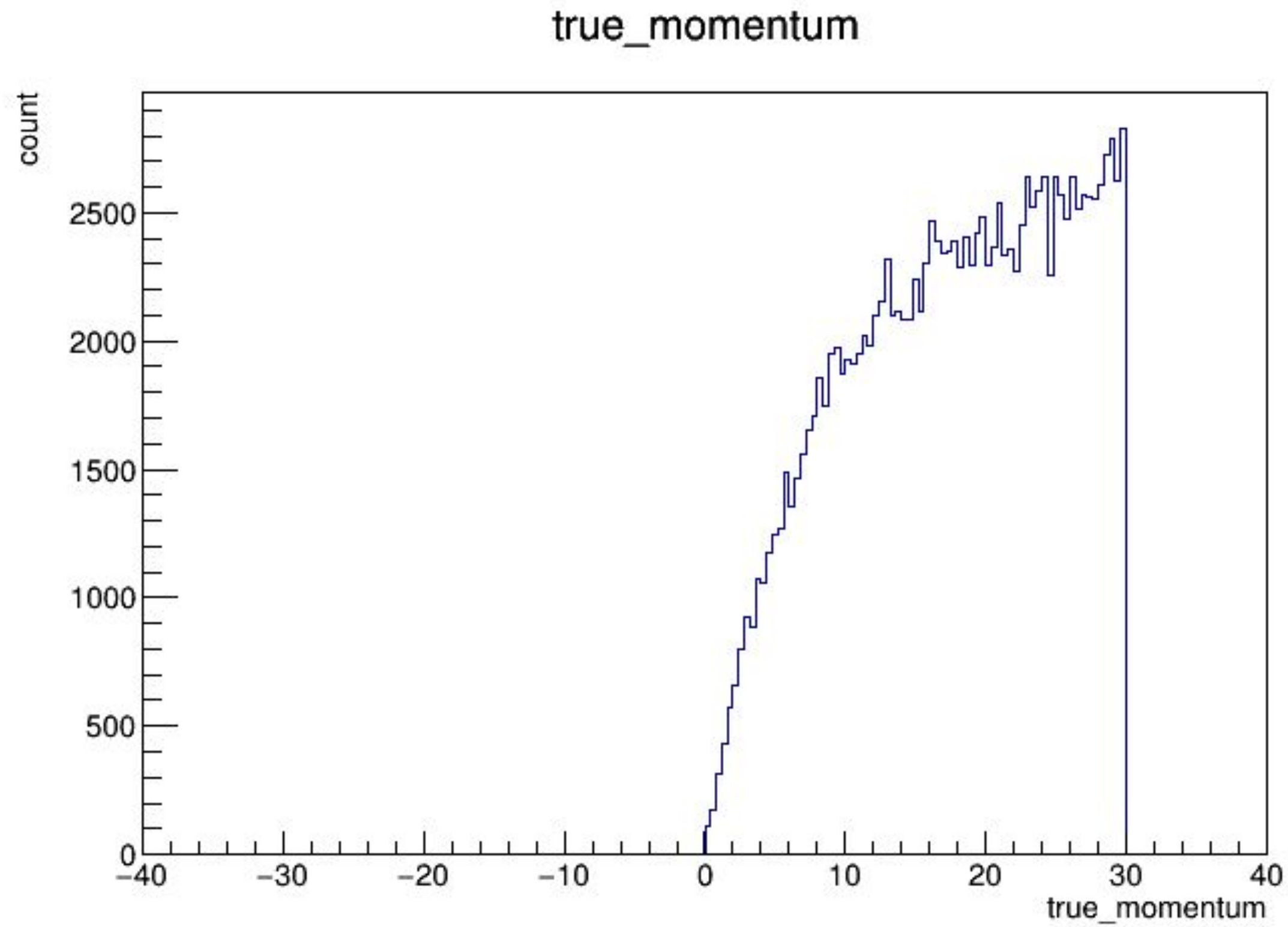
Momentum distribution



Pion

HCALOUT

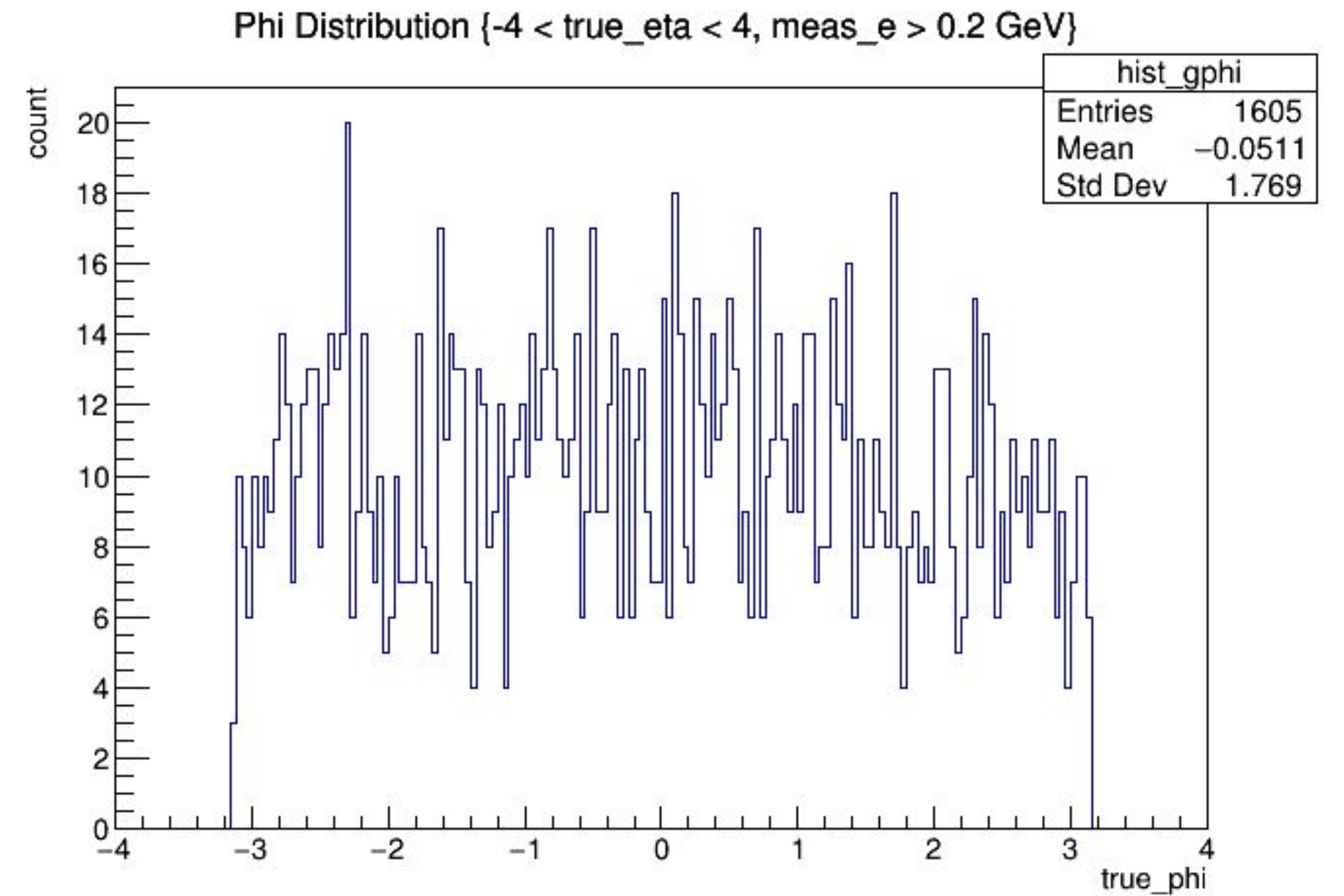
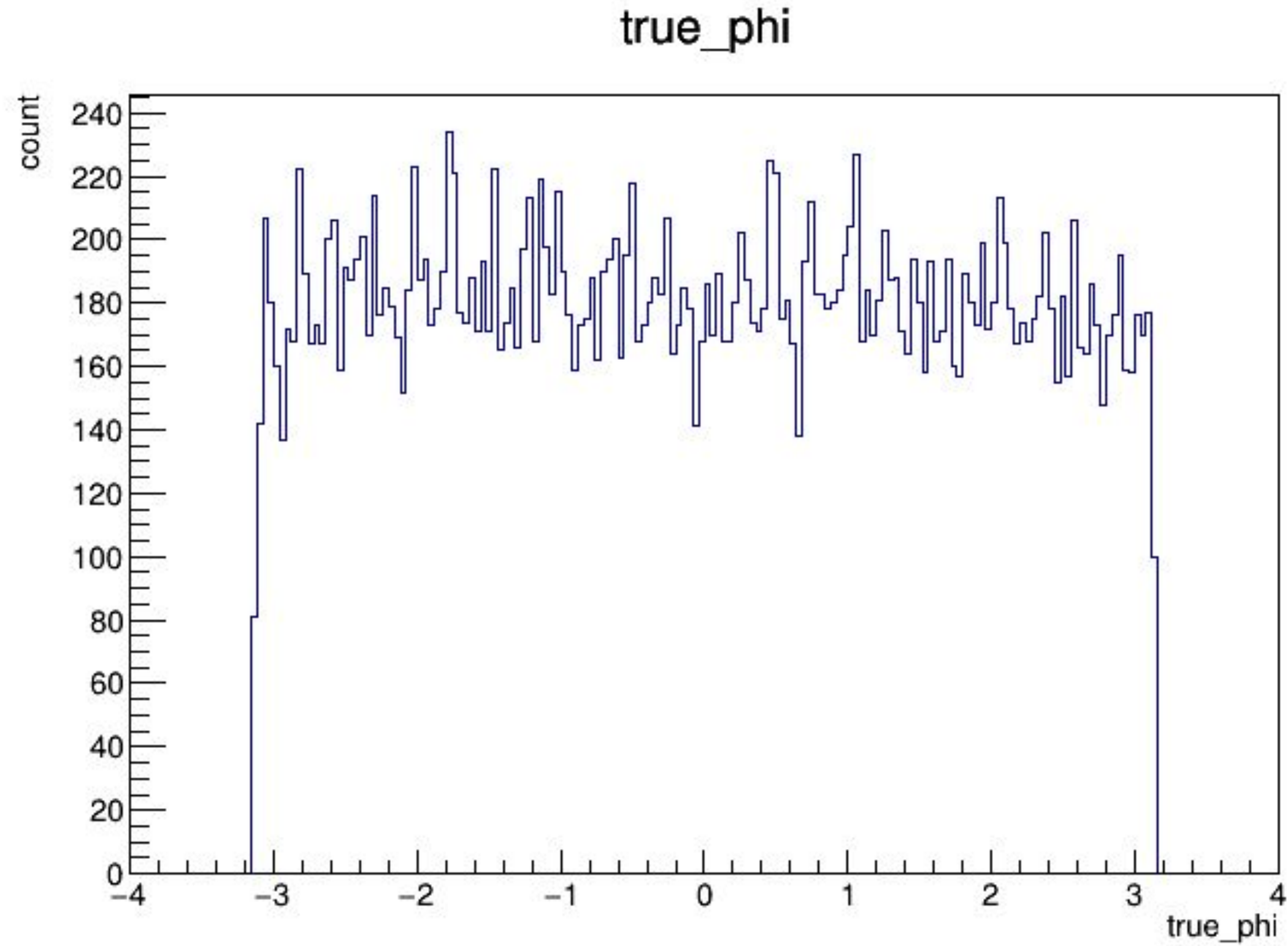
Momentum distribution



Kaon

HCALOUT

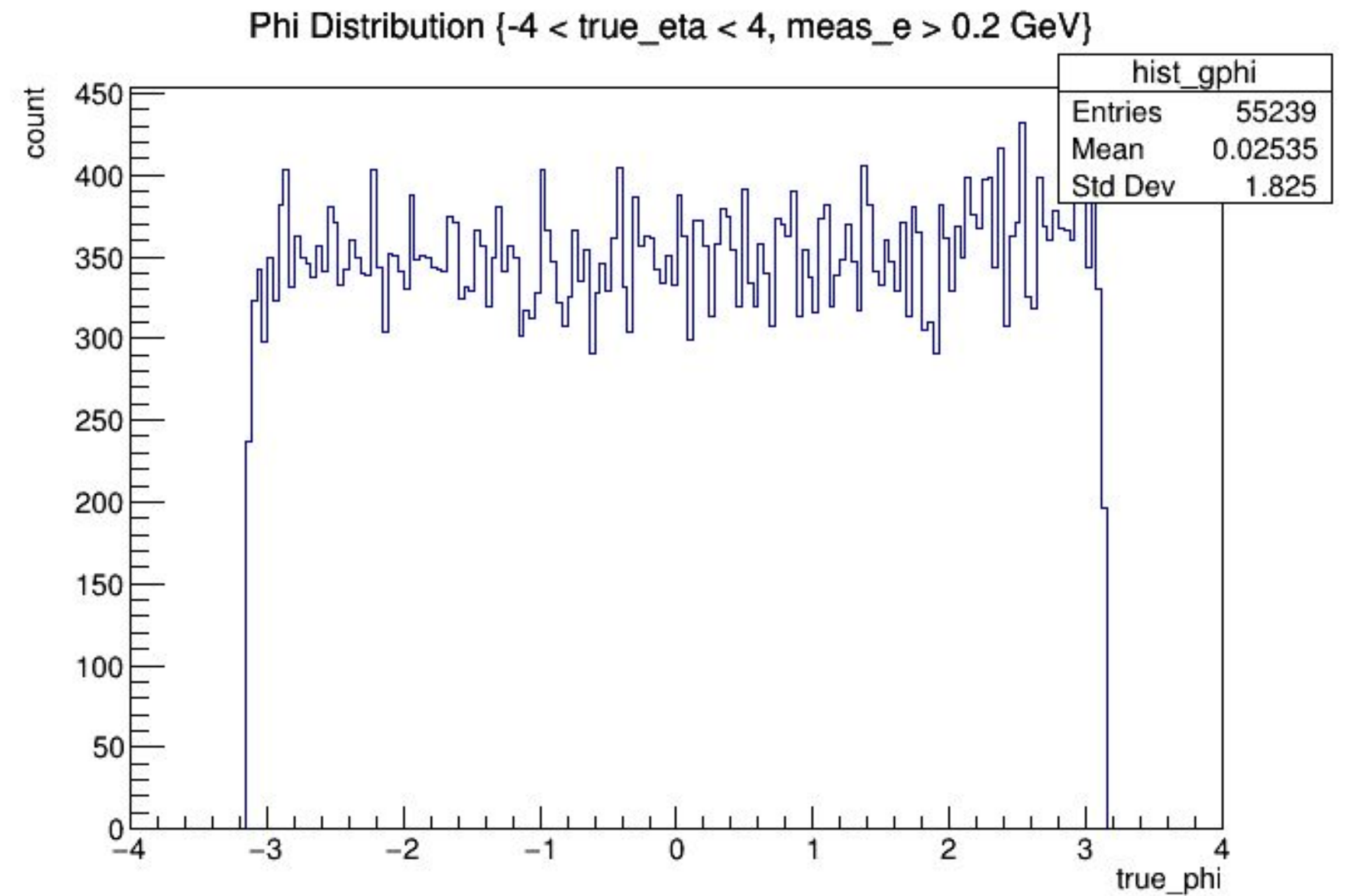
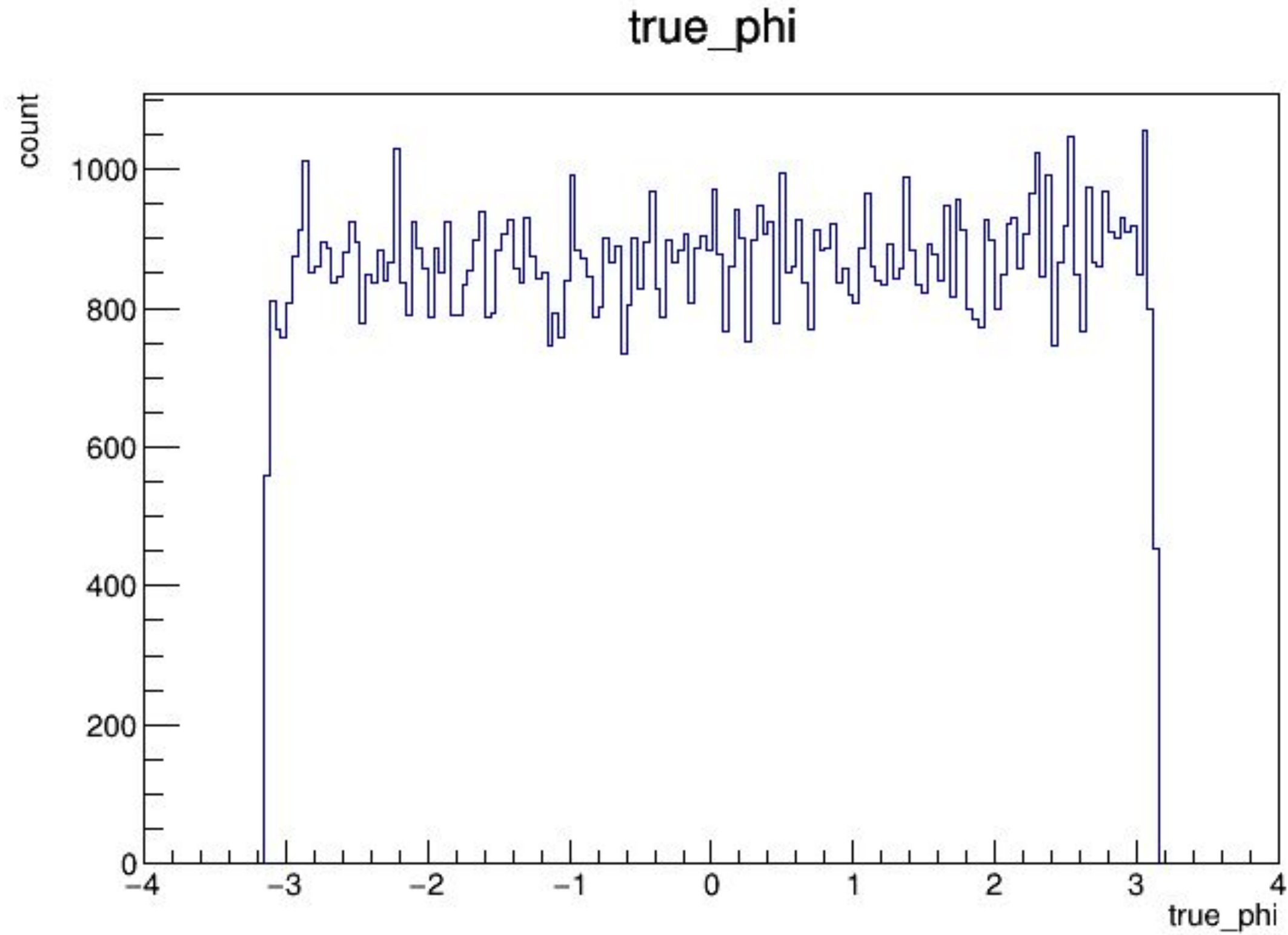
Phi distribution



Electron

HCALOUT

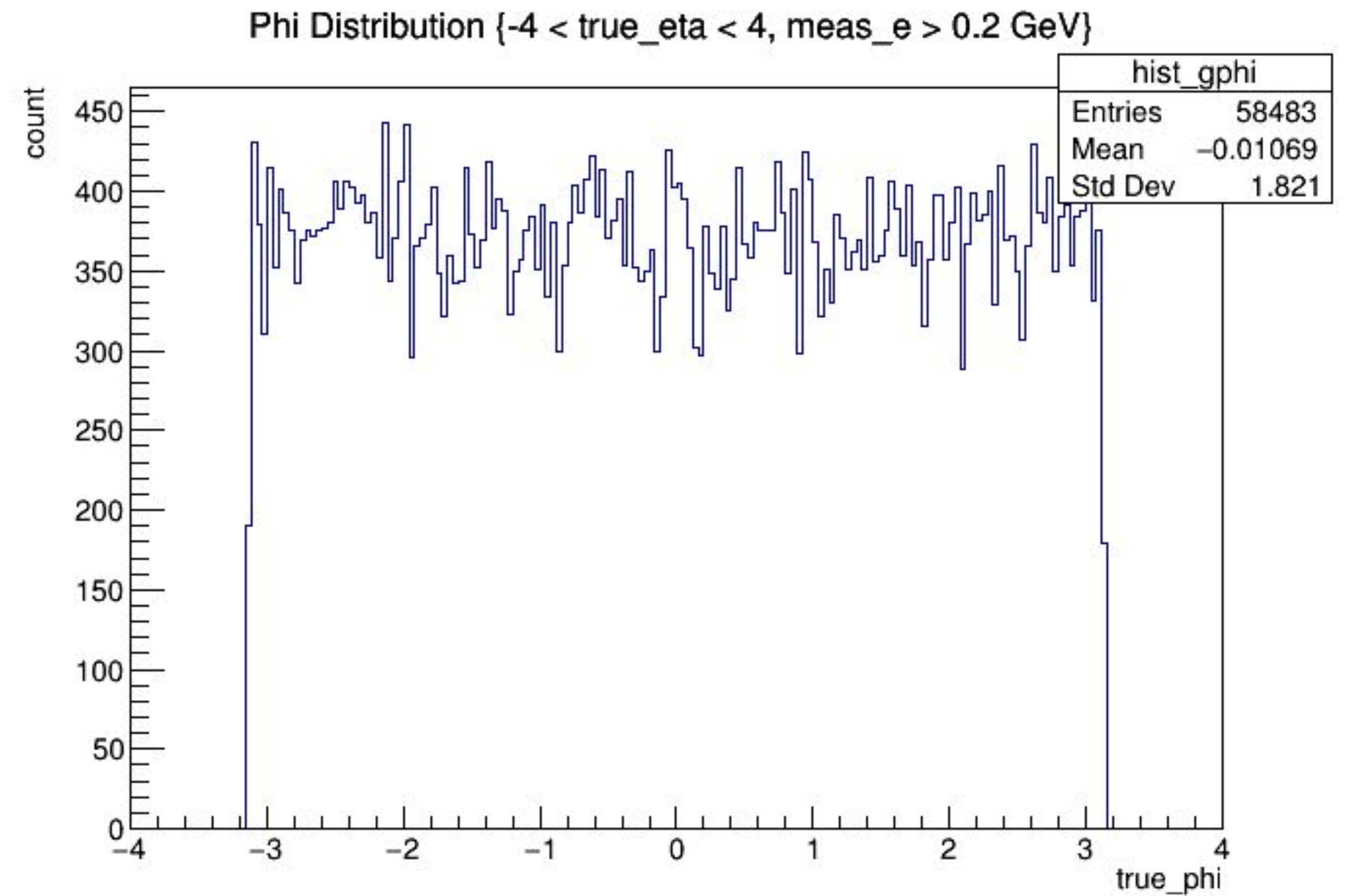
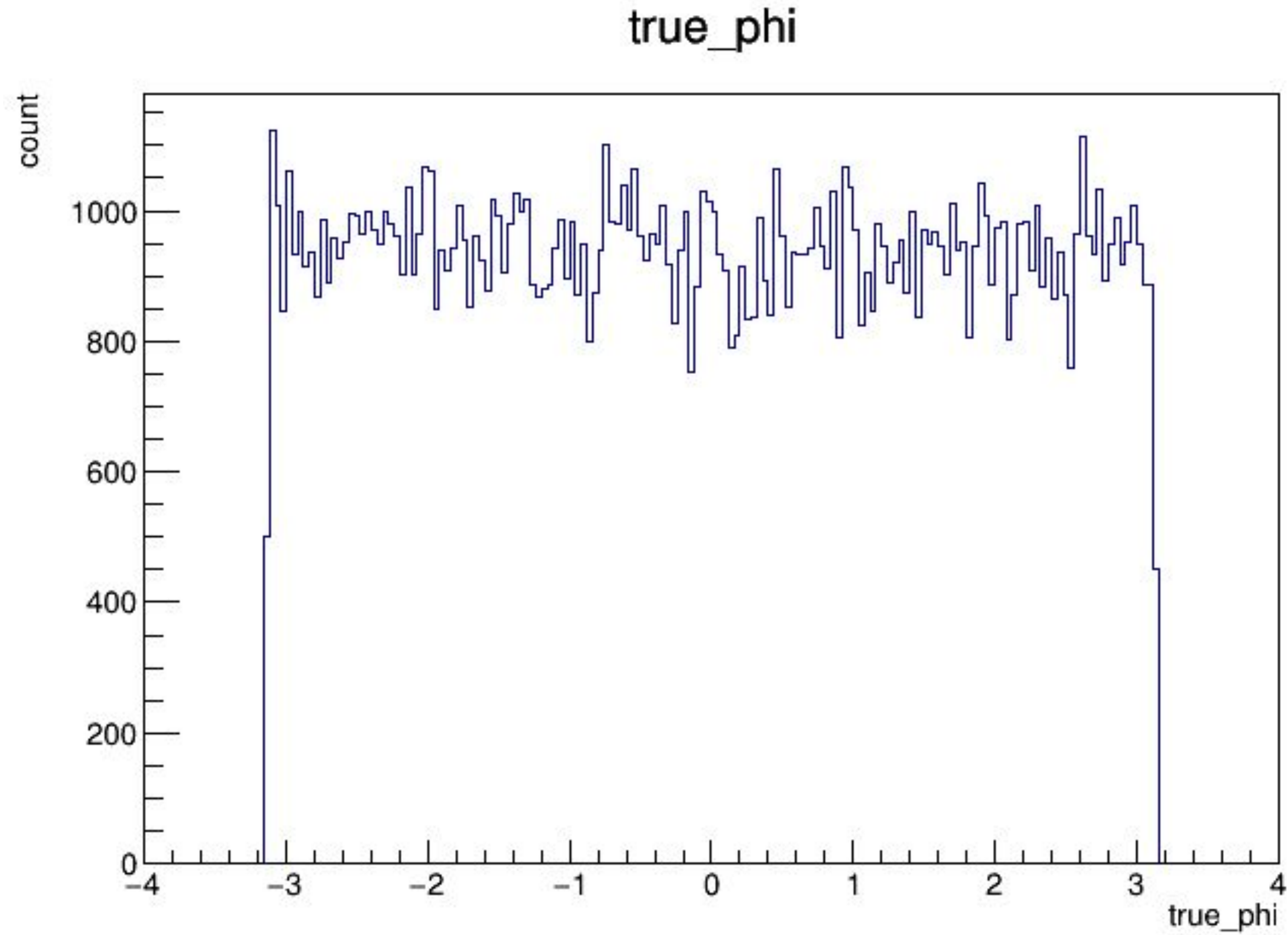
Phi distribution



Pion

HCALOUT

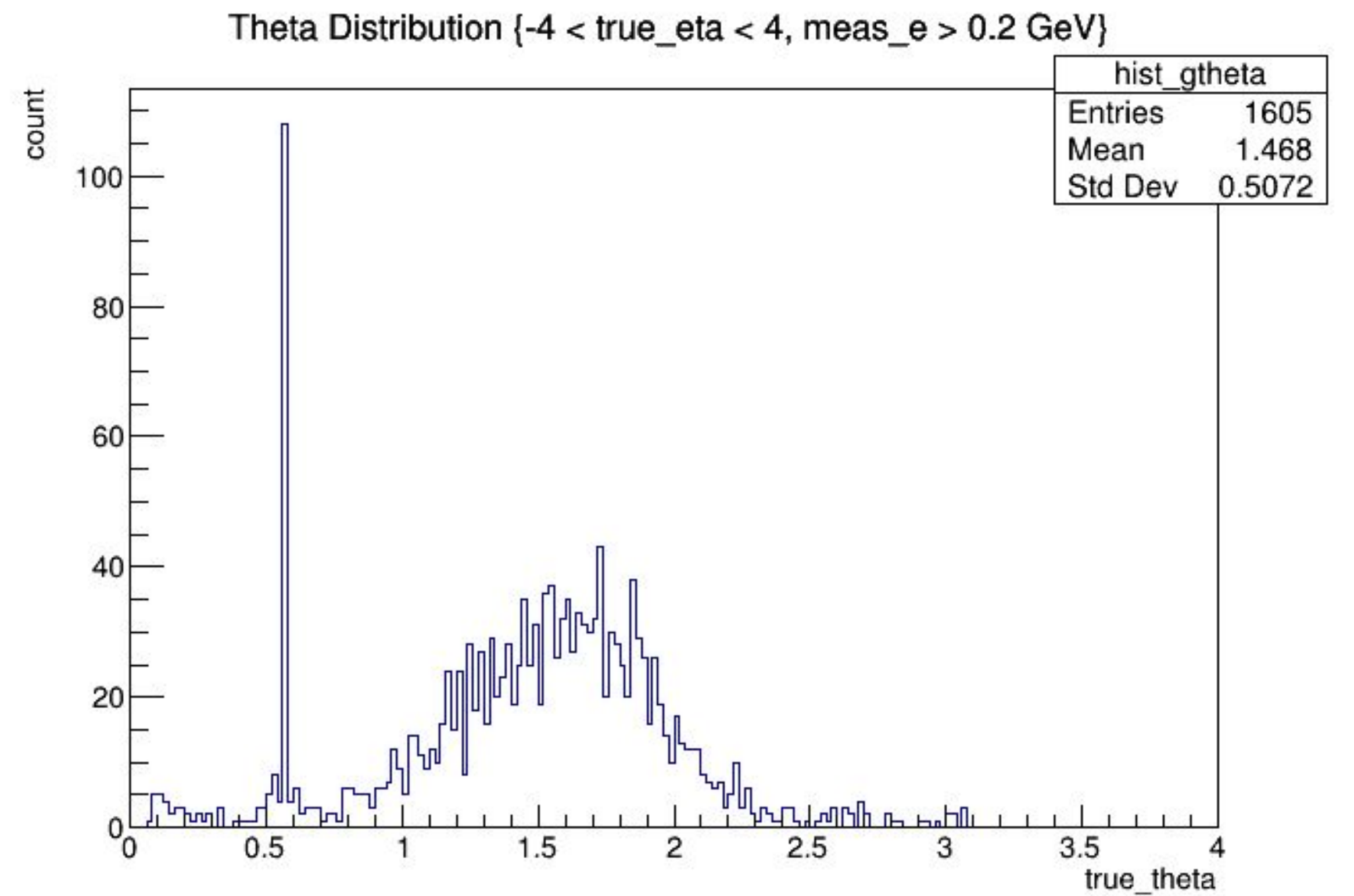
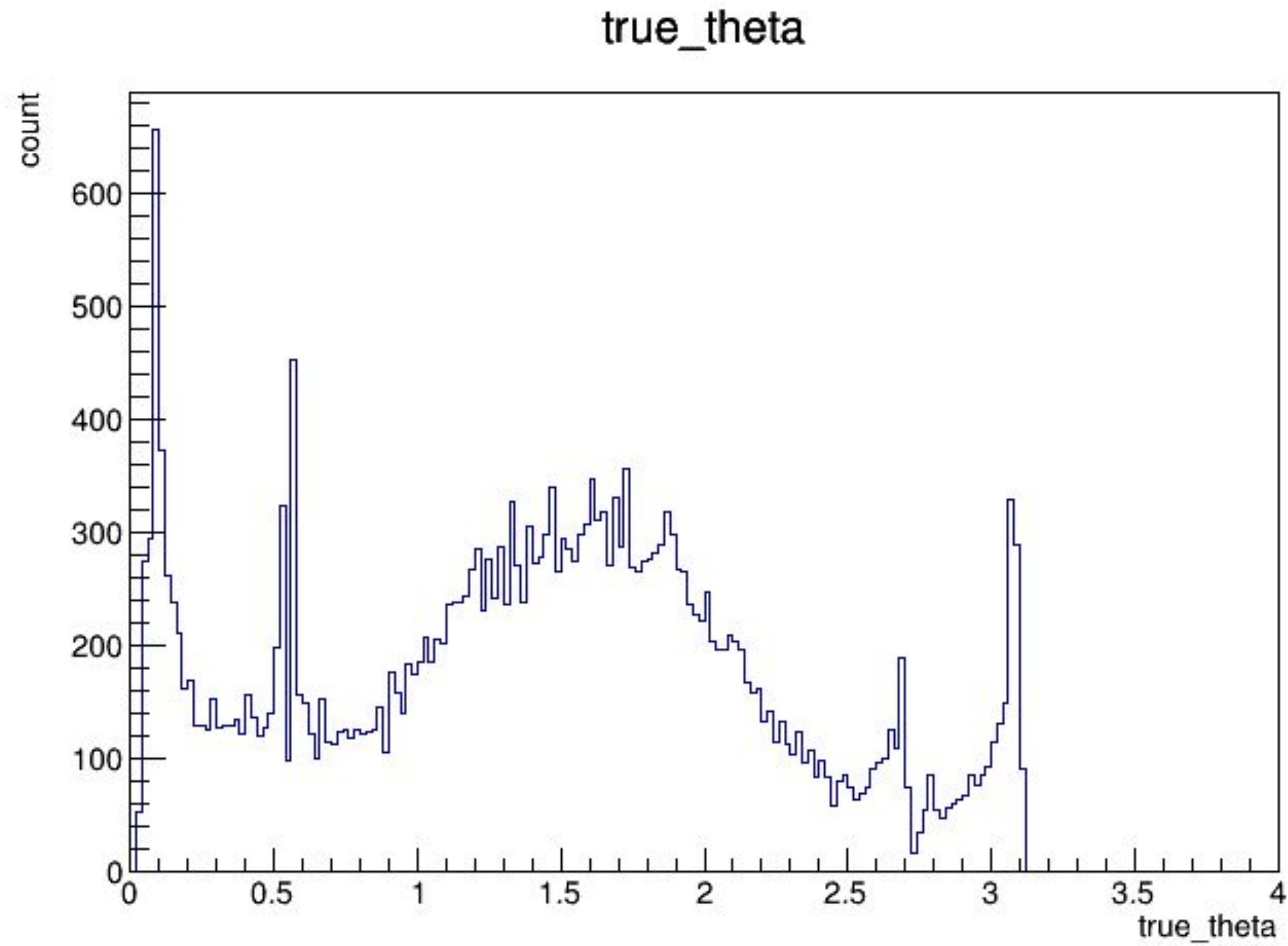
Phi distribution



Kaon

HCALOUT

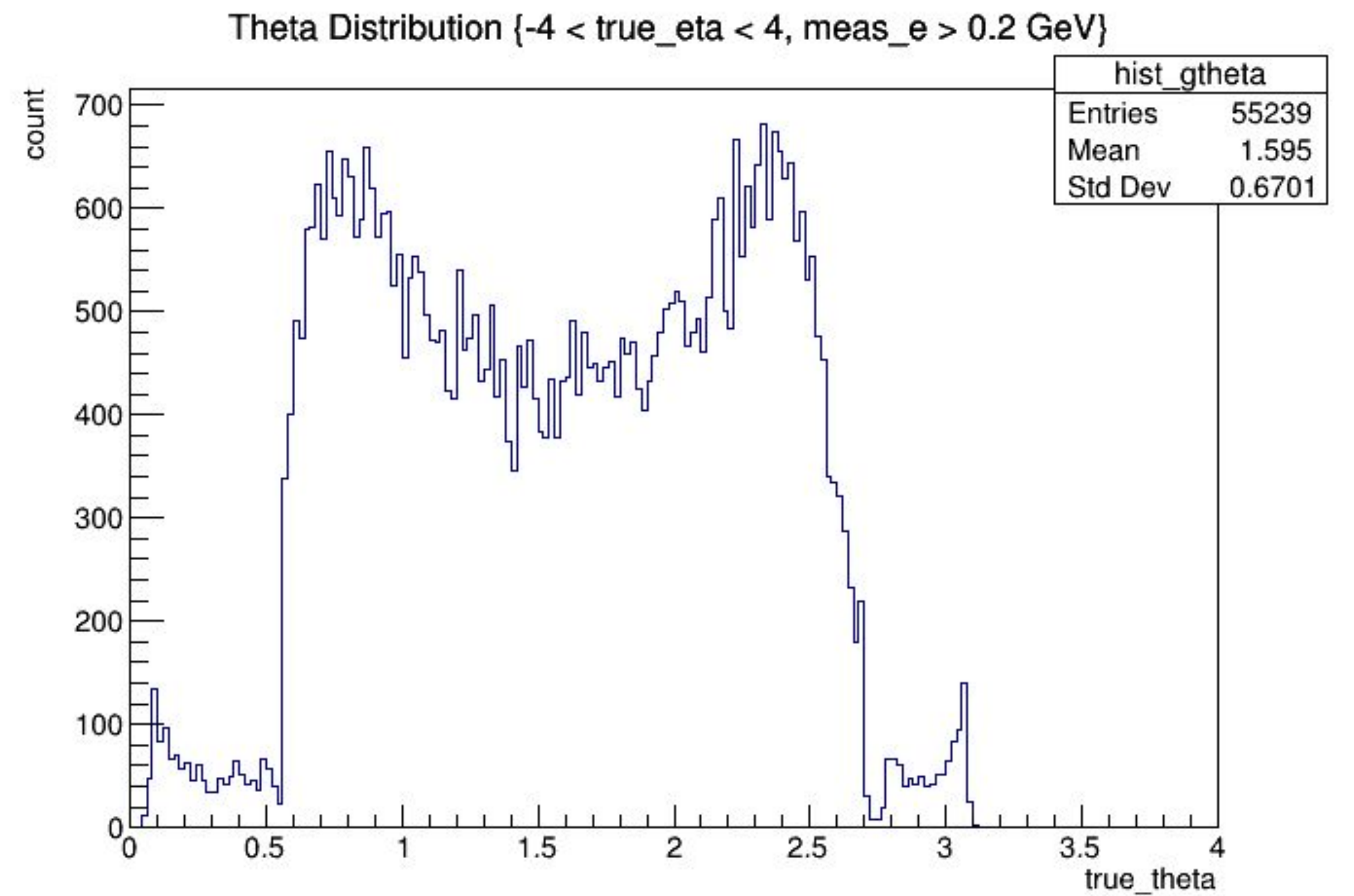
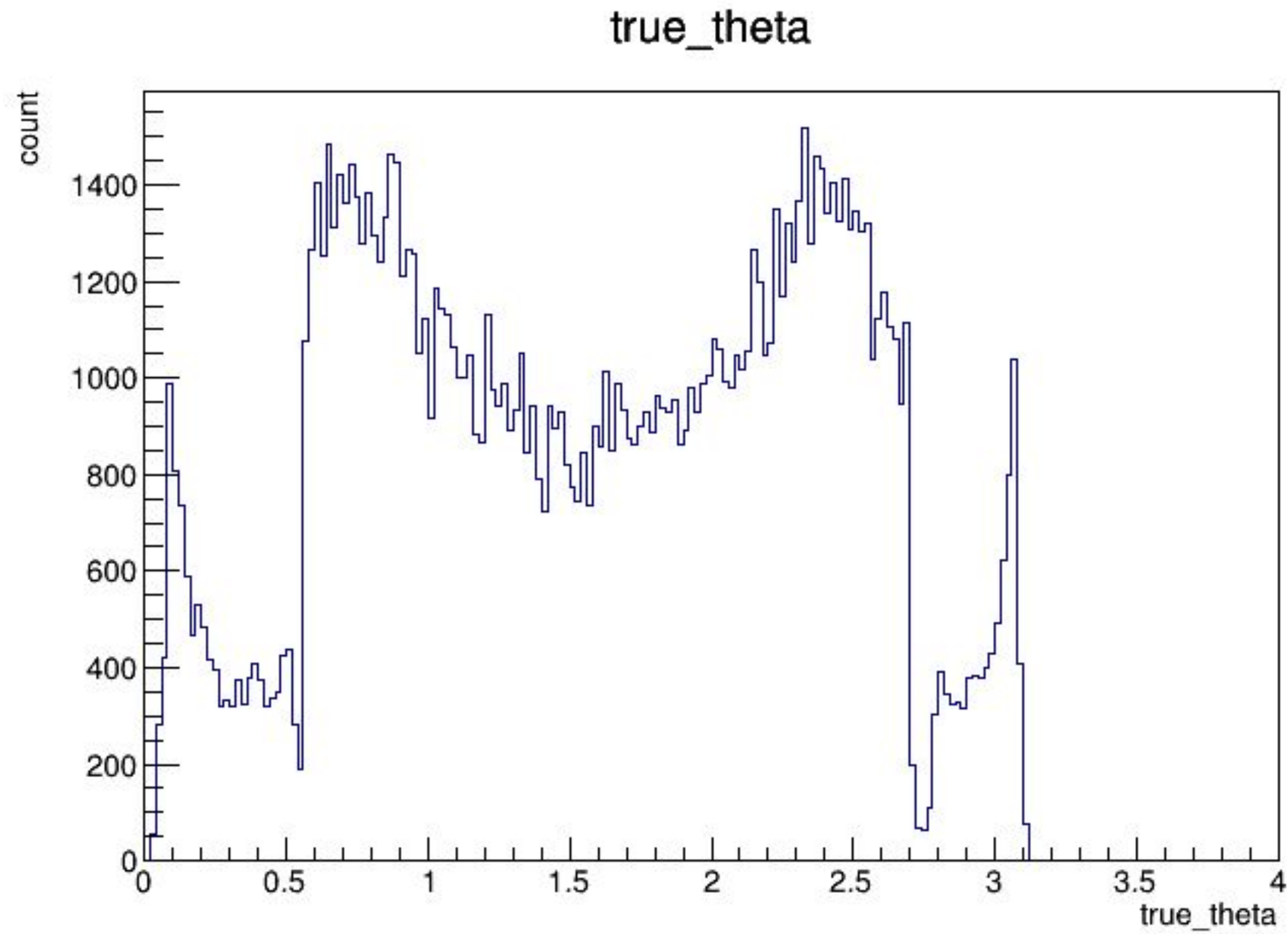
Theta distribution



Electron

HCALOUT

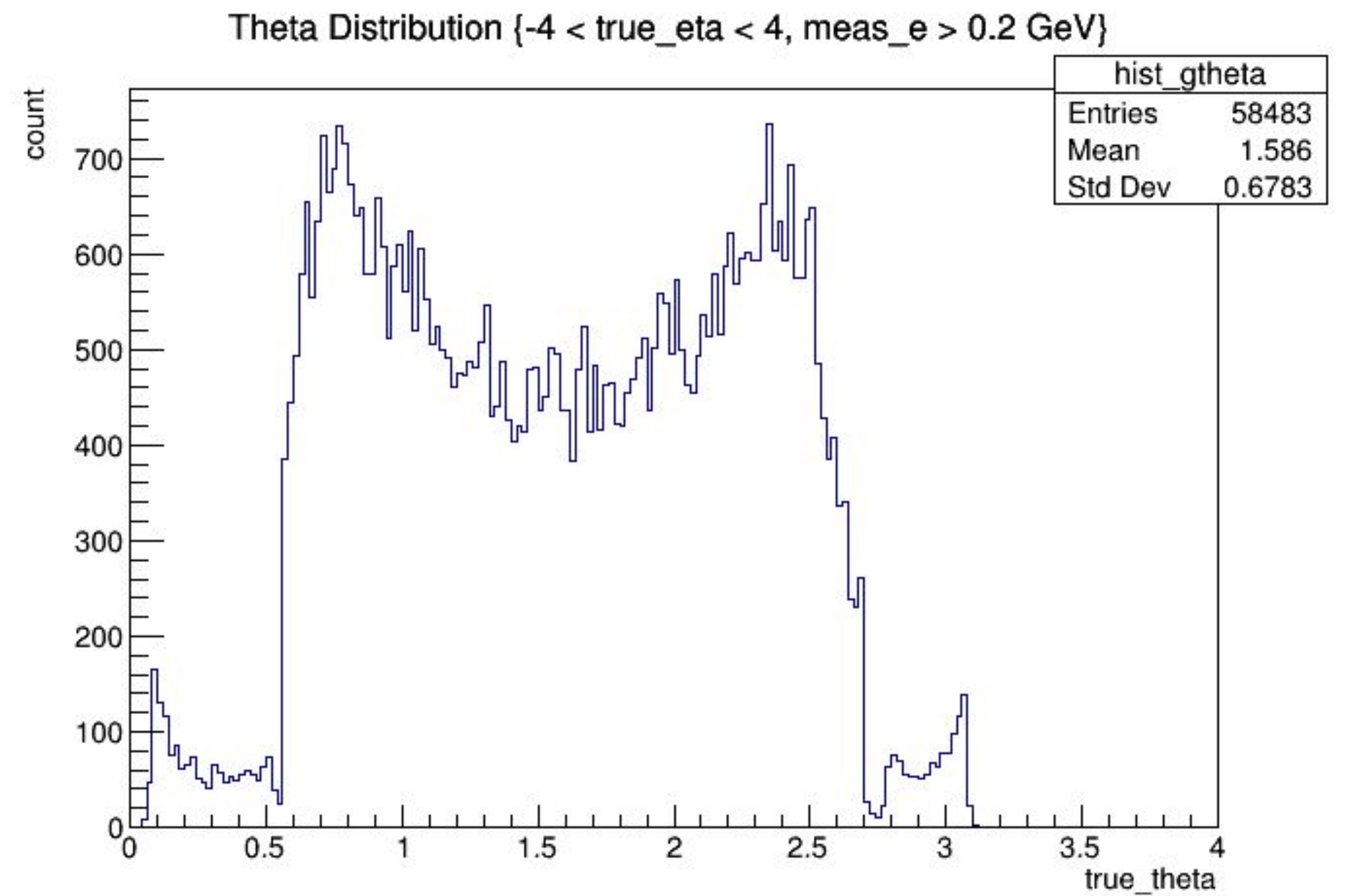
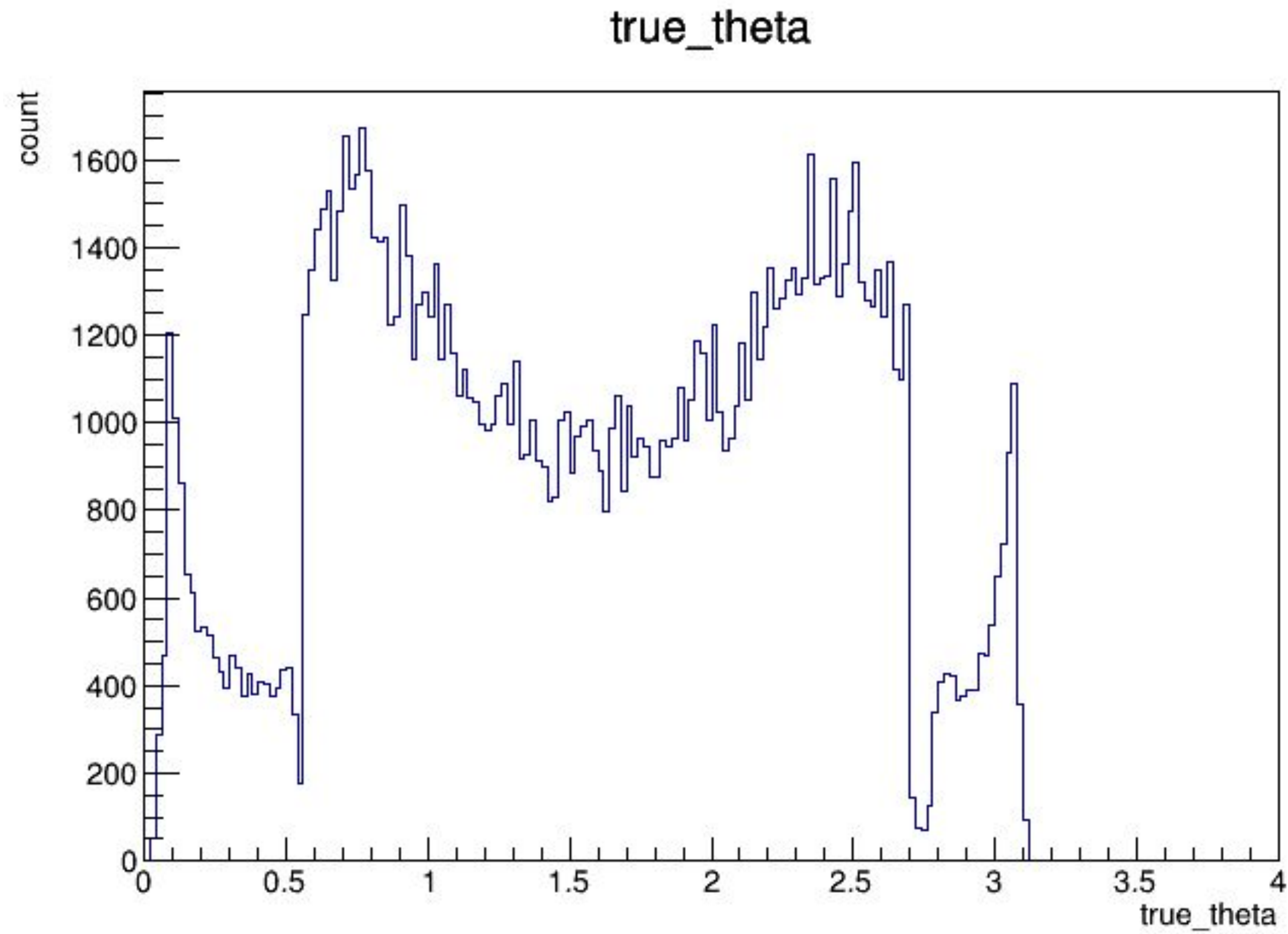
Theta distribution



Pion

HCALOUT

Theta distribution

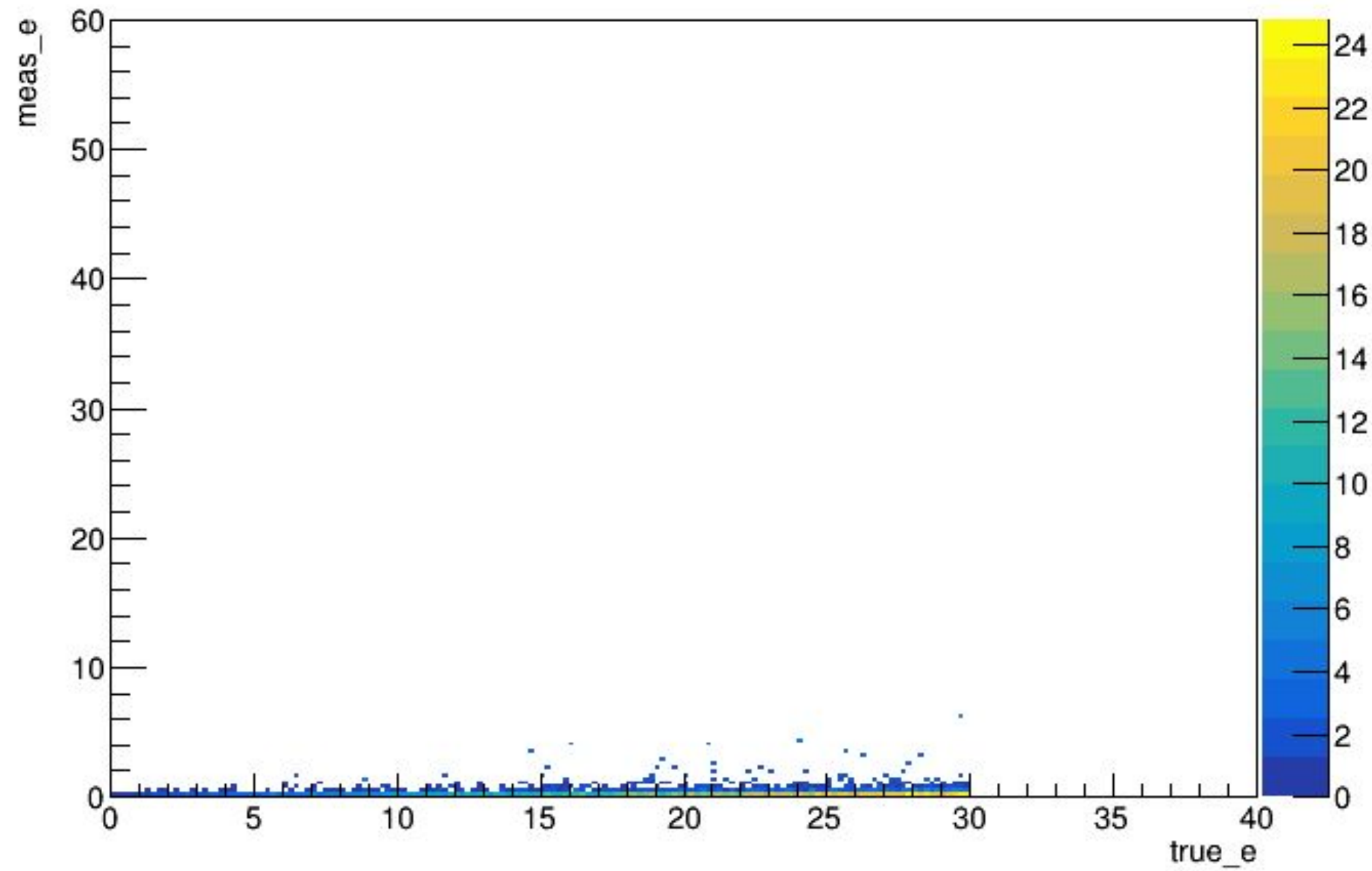


Kaon

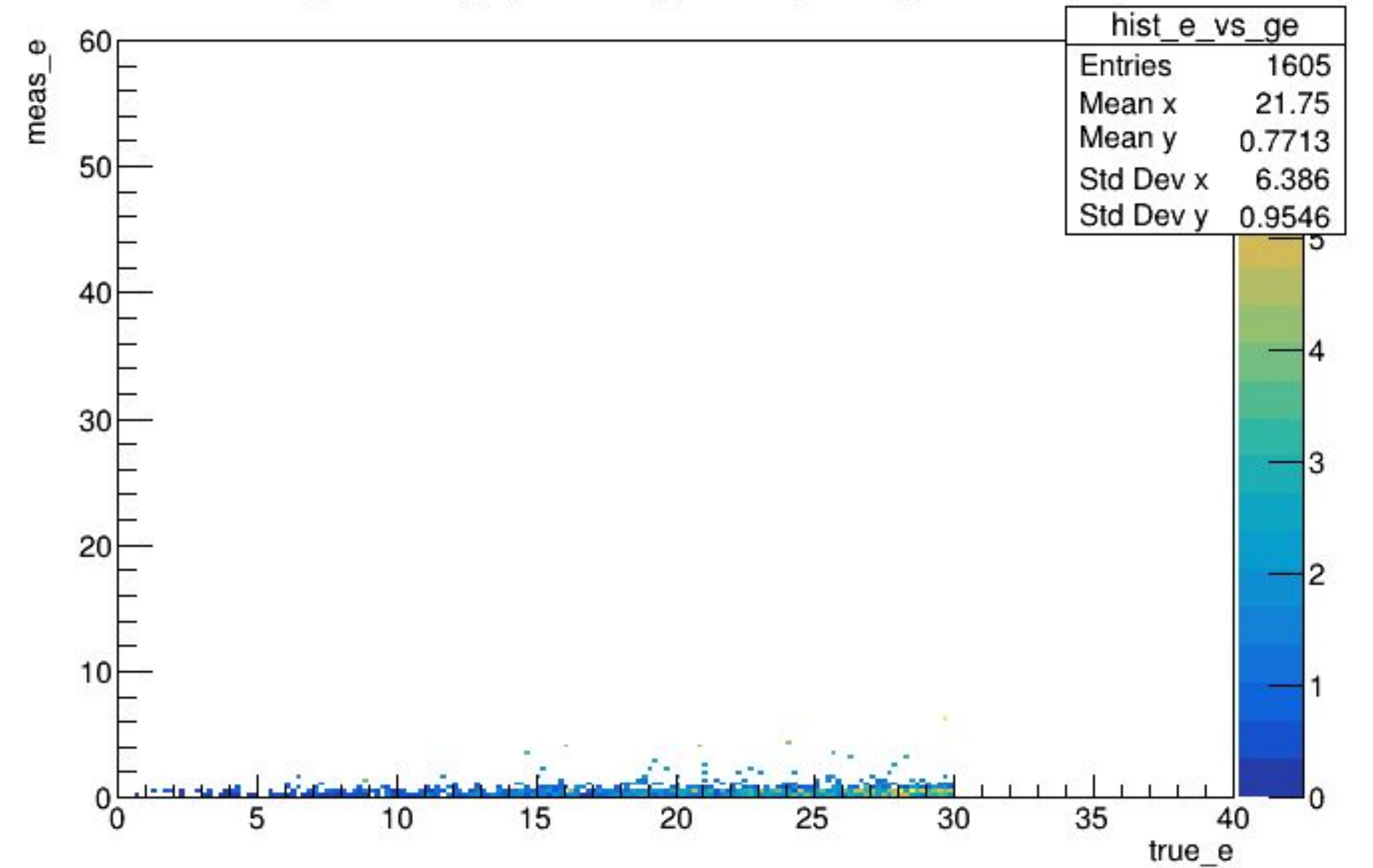
HCALOUT

e vs ge

meas_e vs true_e



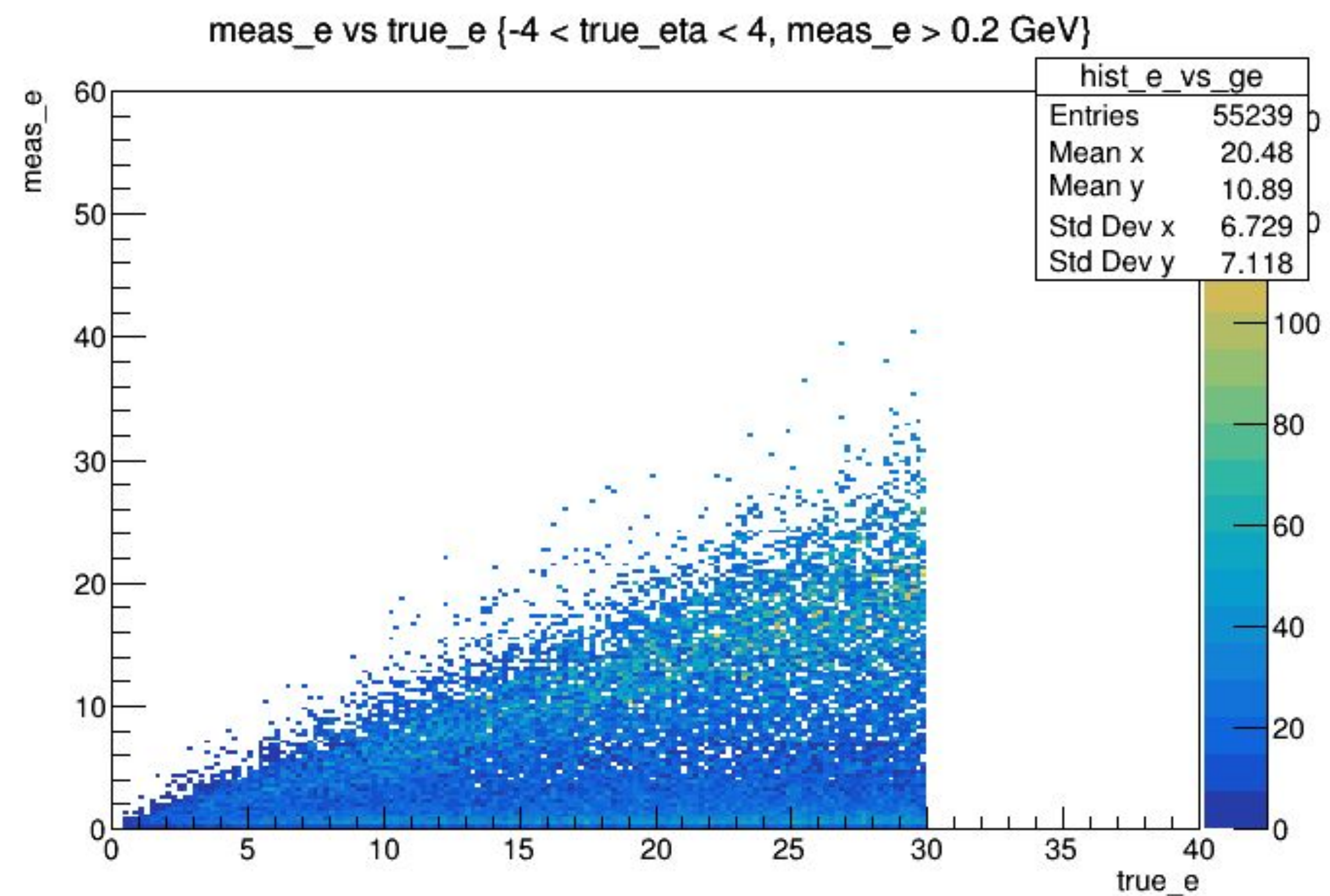
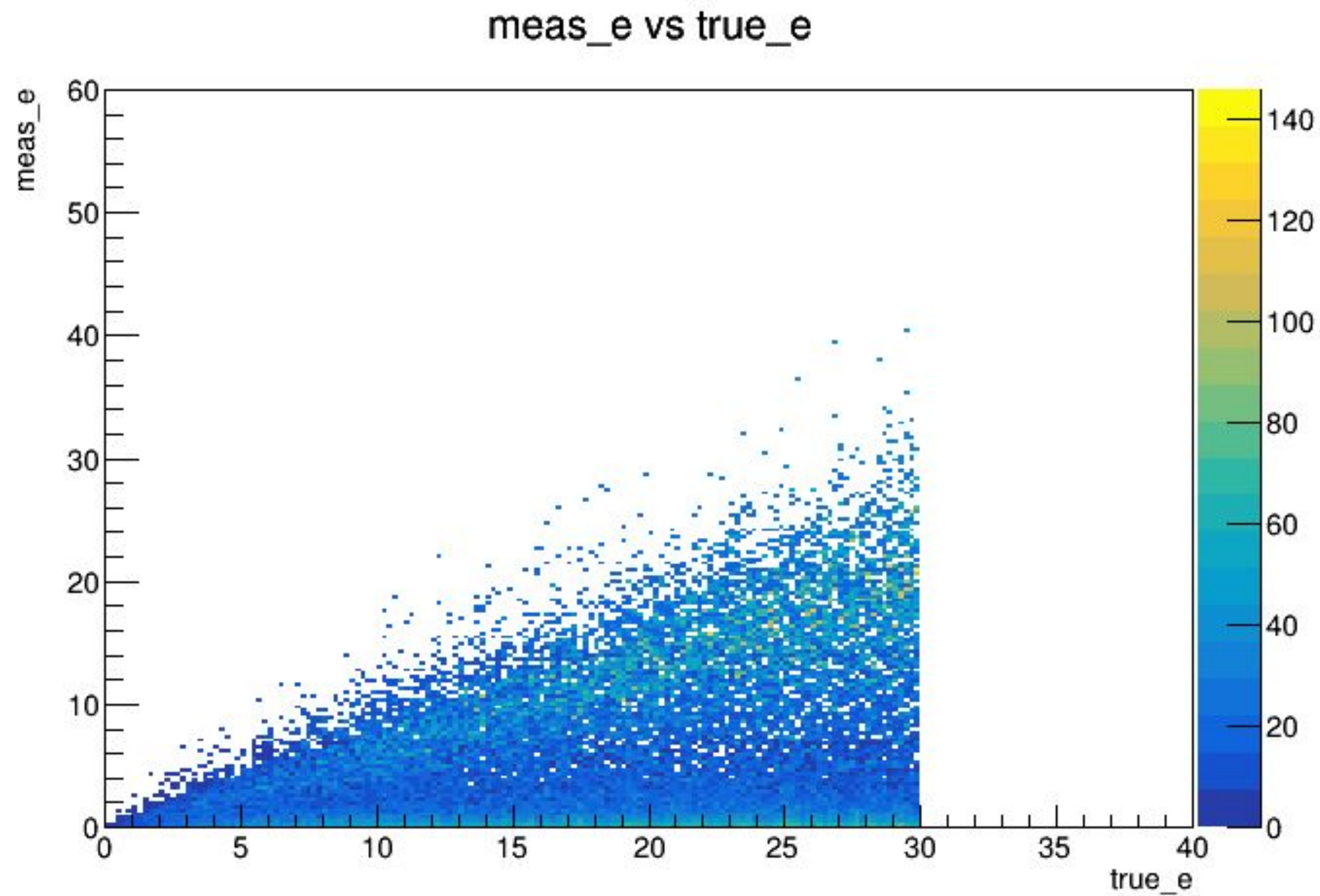
meas_e vs true_e $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$



Electron

HCALOUT

e vs ge

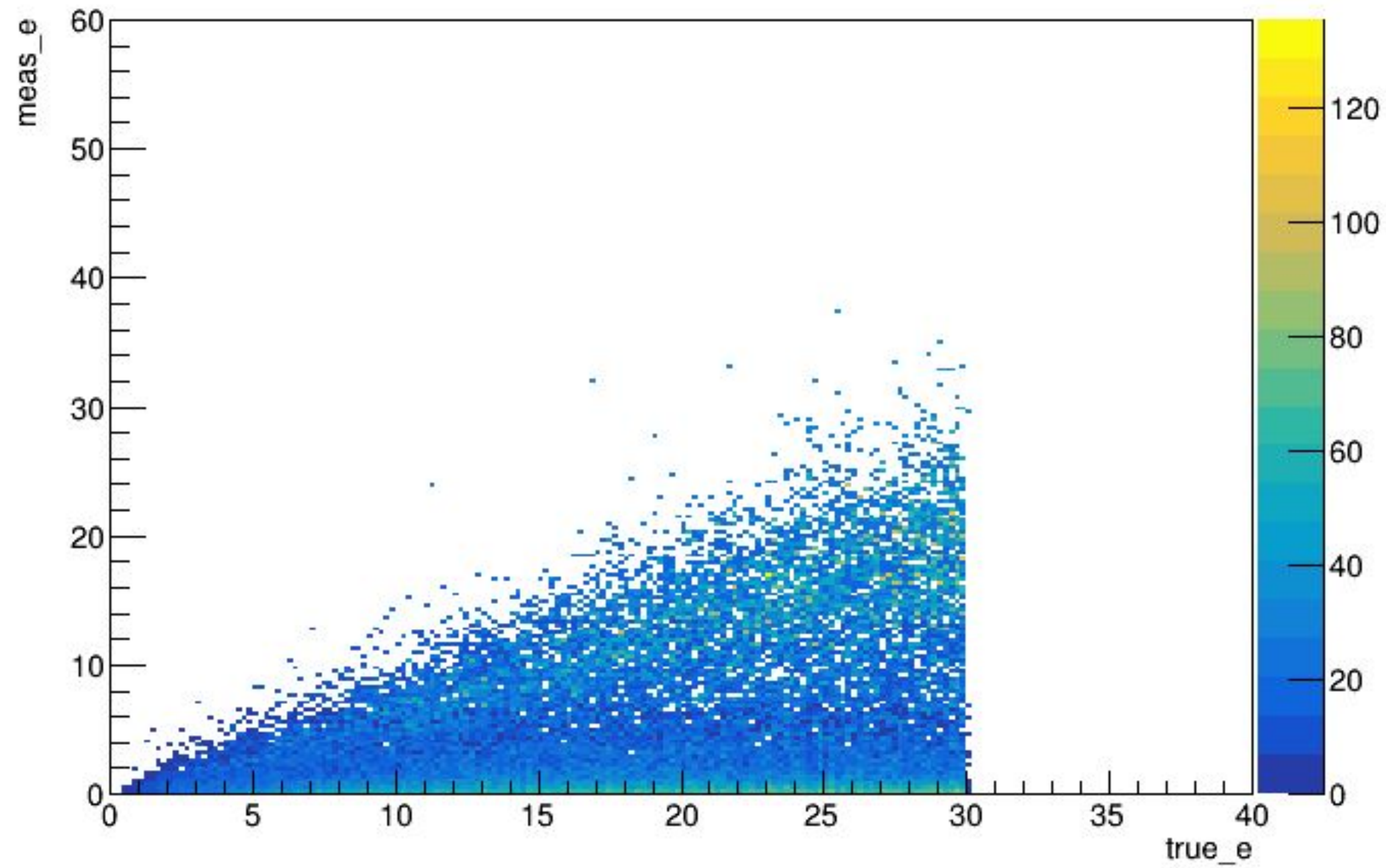


Pion

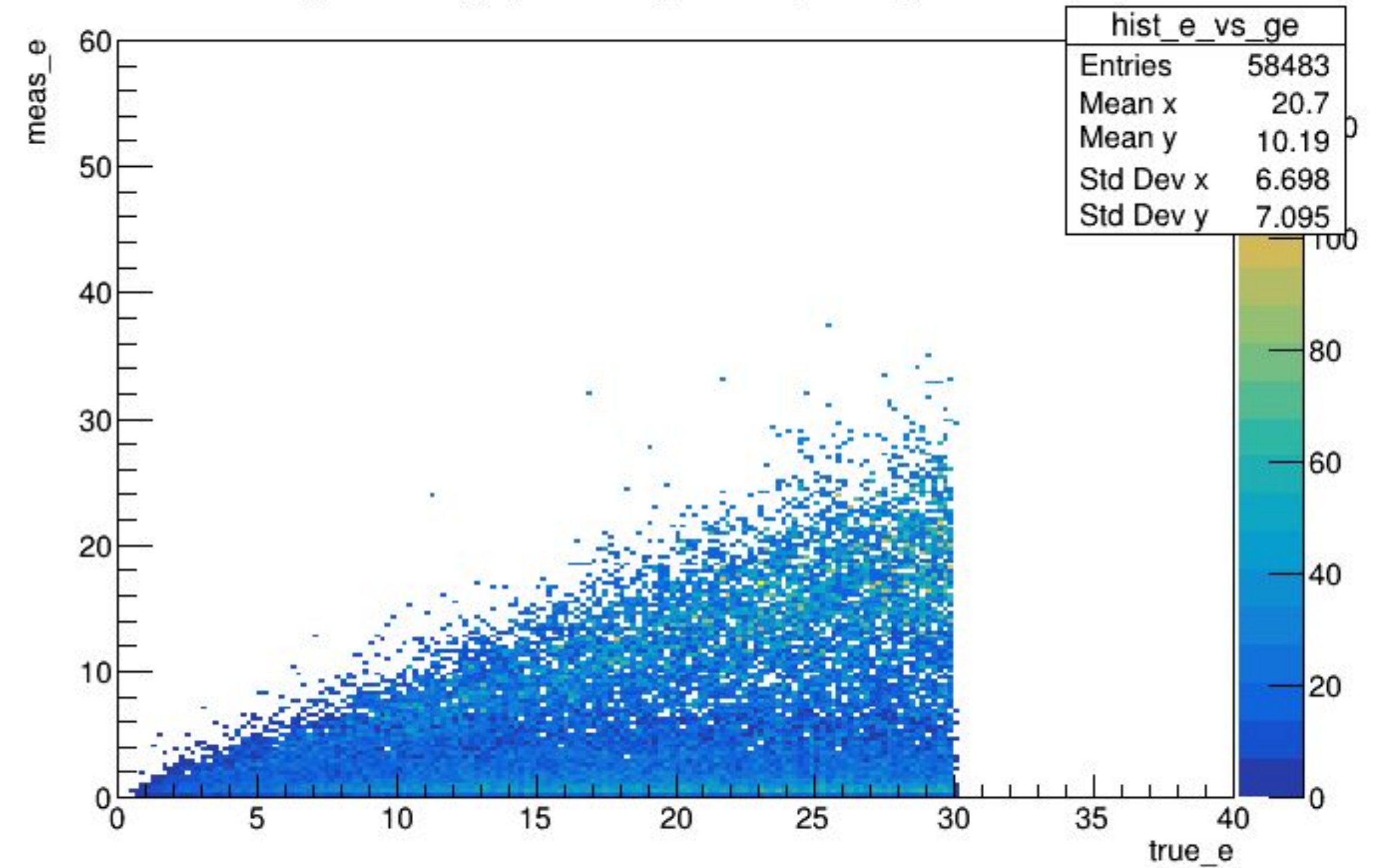
HCALOUT

e vs ge

meas_e vs true_e



meas_e vs true_e $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

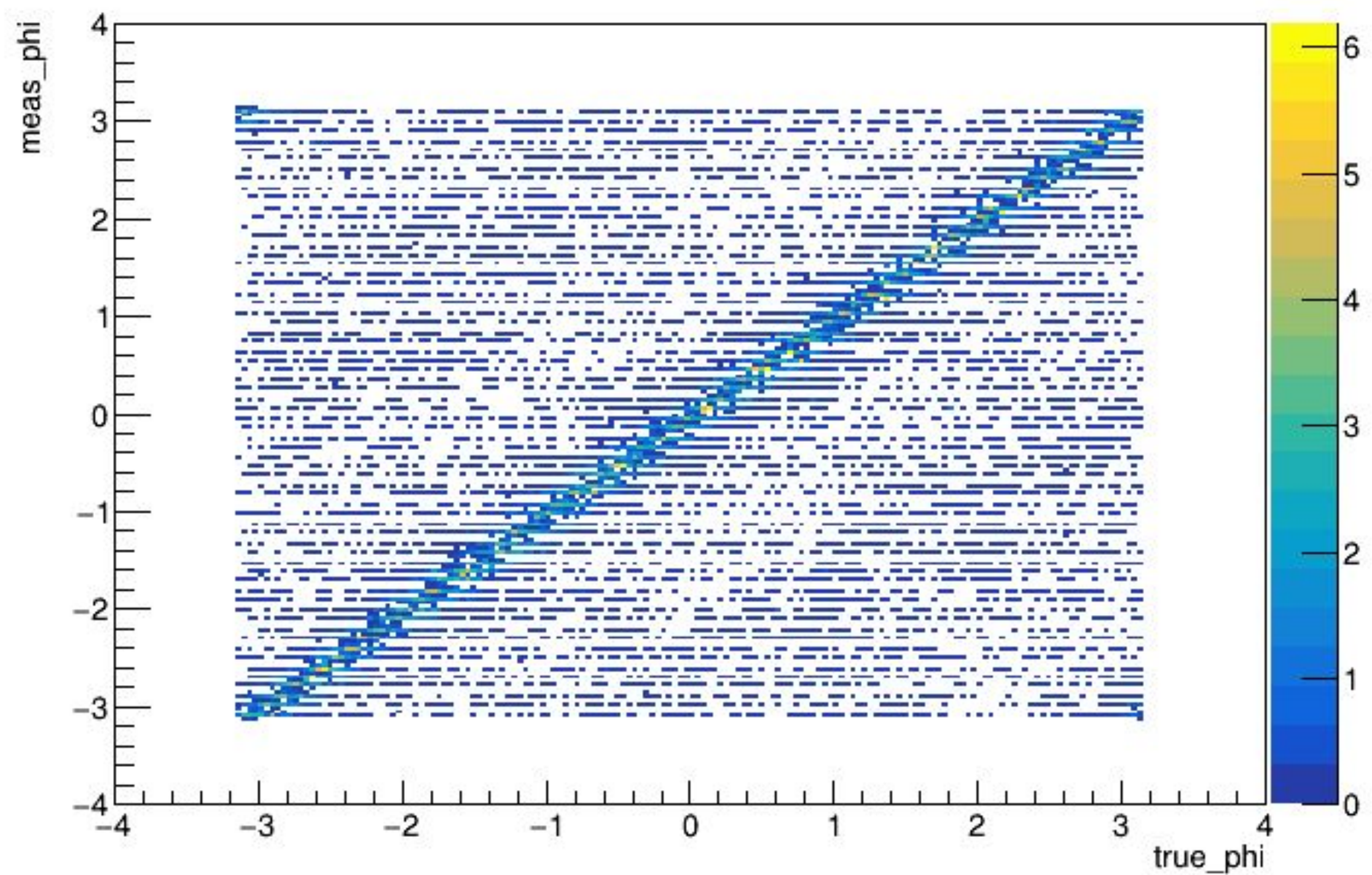


Kaon

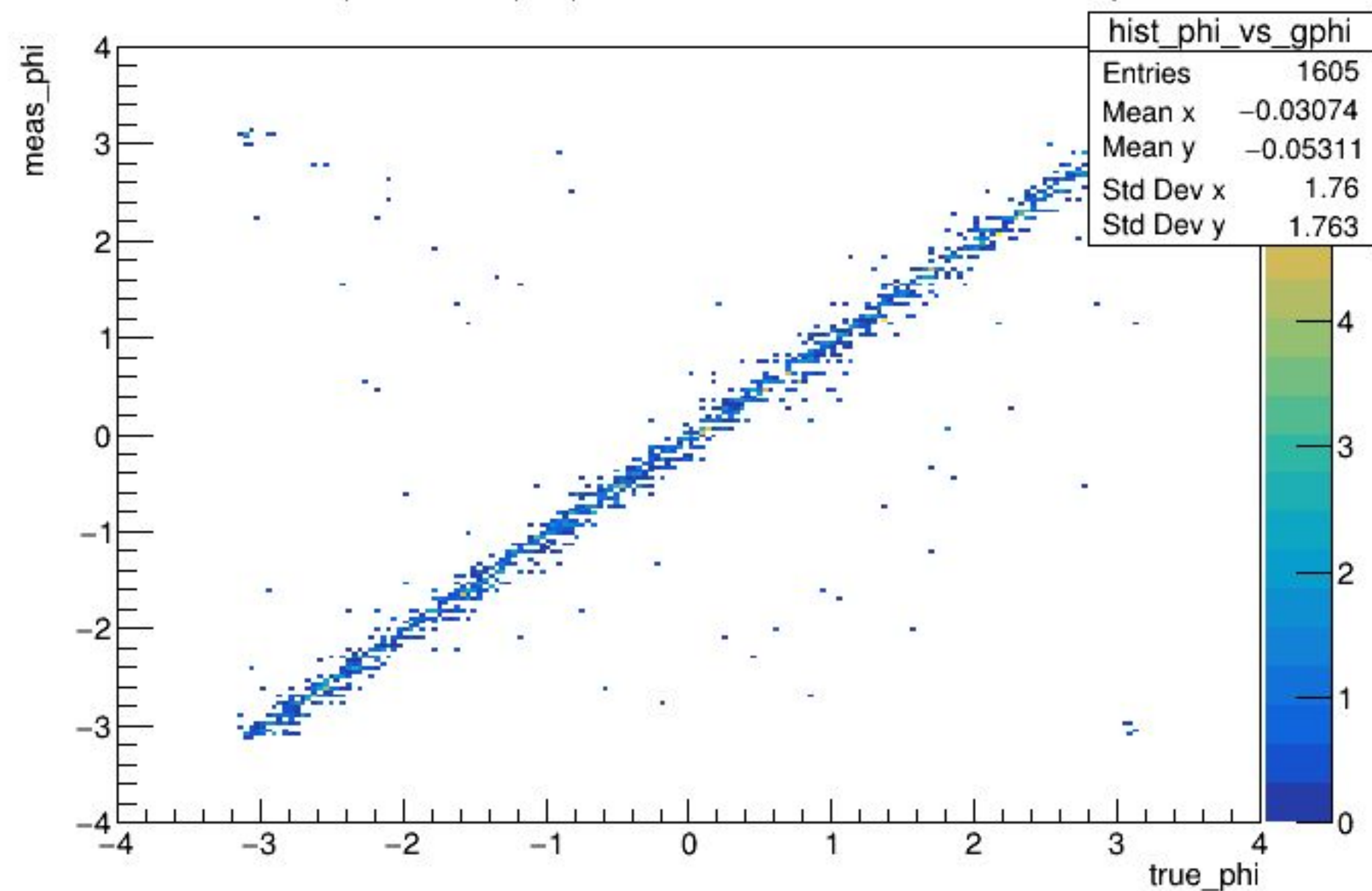
HCALOUT

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

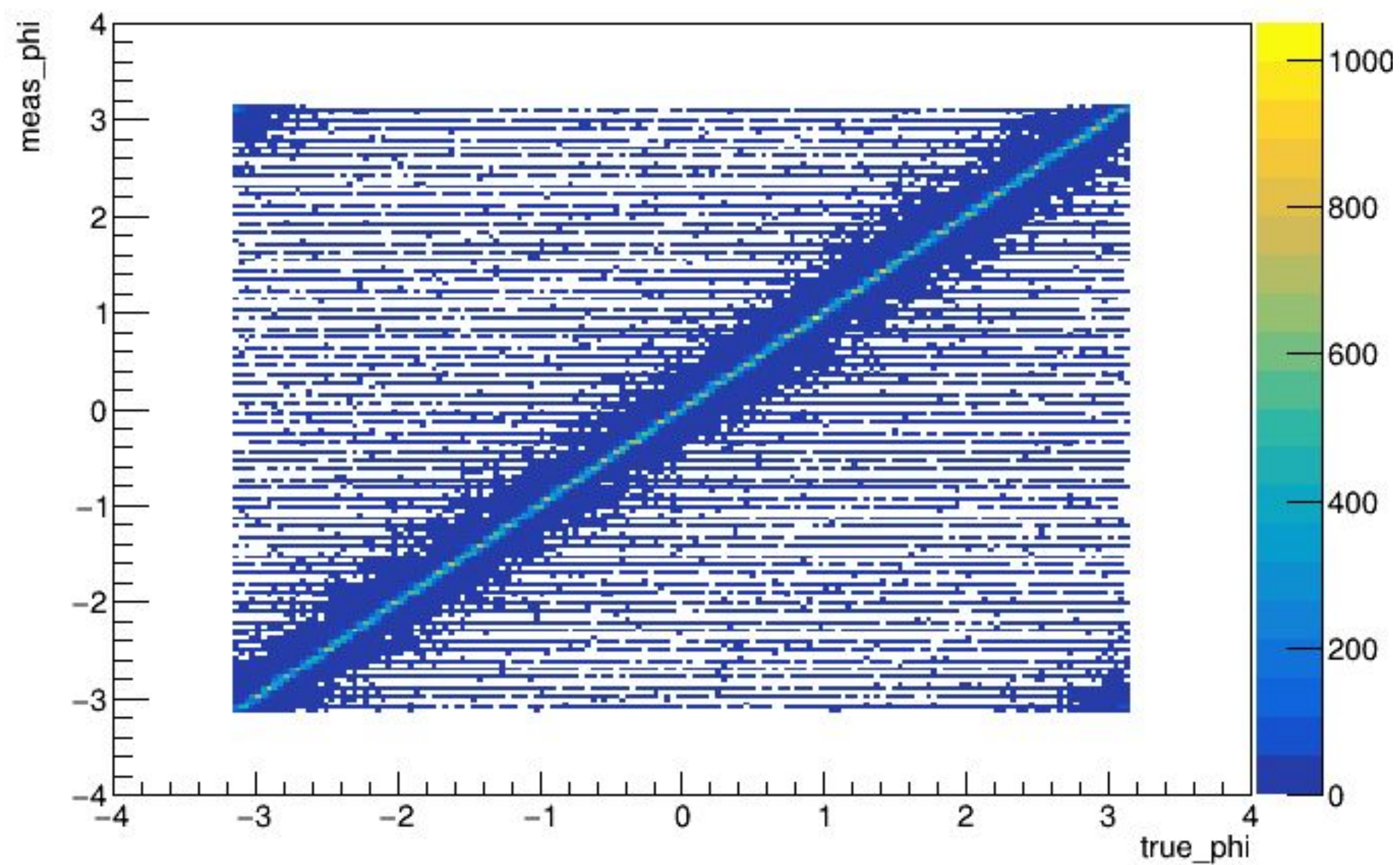


Electron

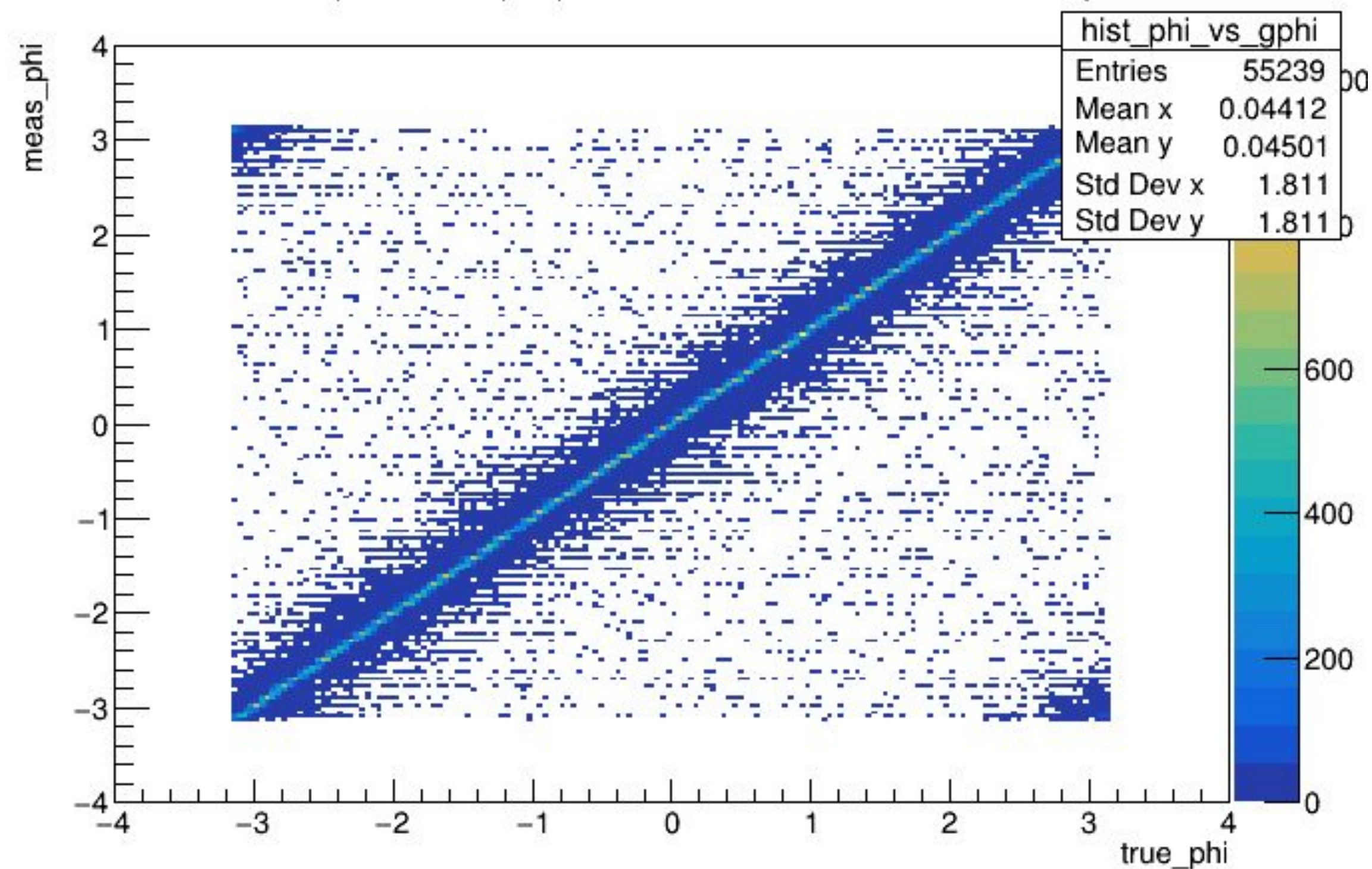
HCALOUT

phi vs gphi

meas_phi vs true_phi



meas_phi vs true_phi $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

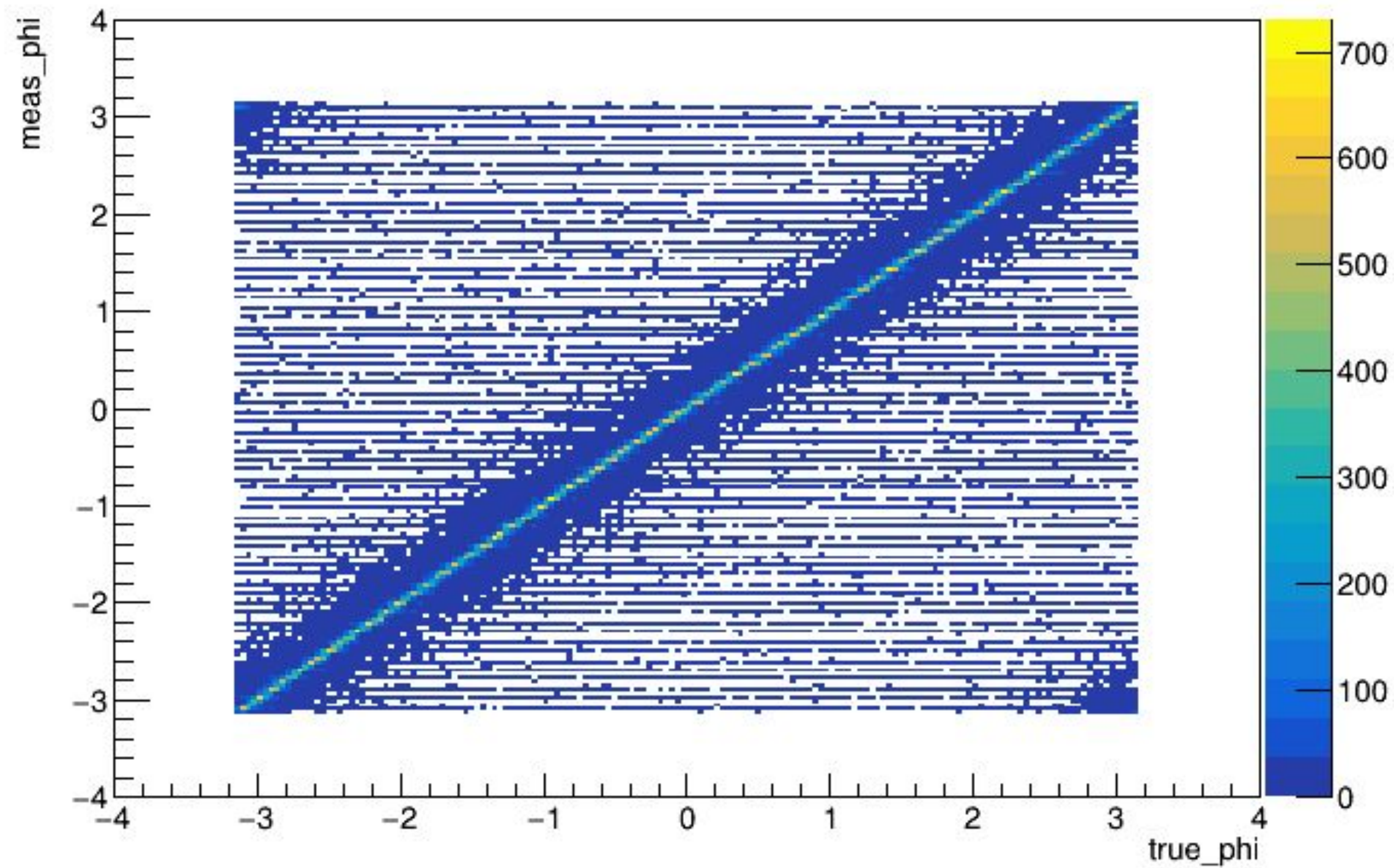


Pion

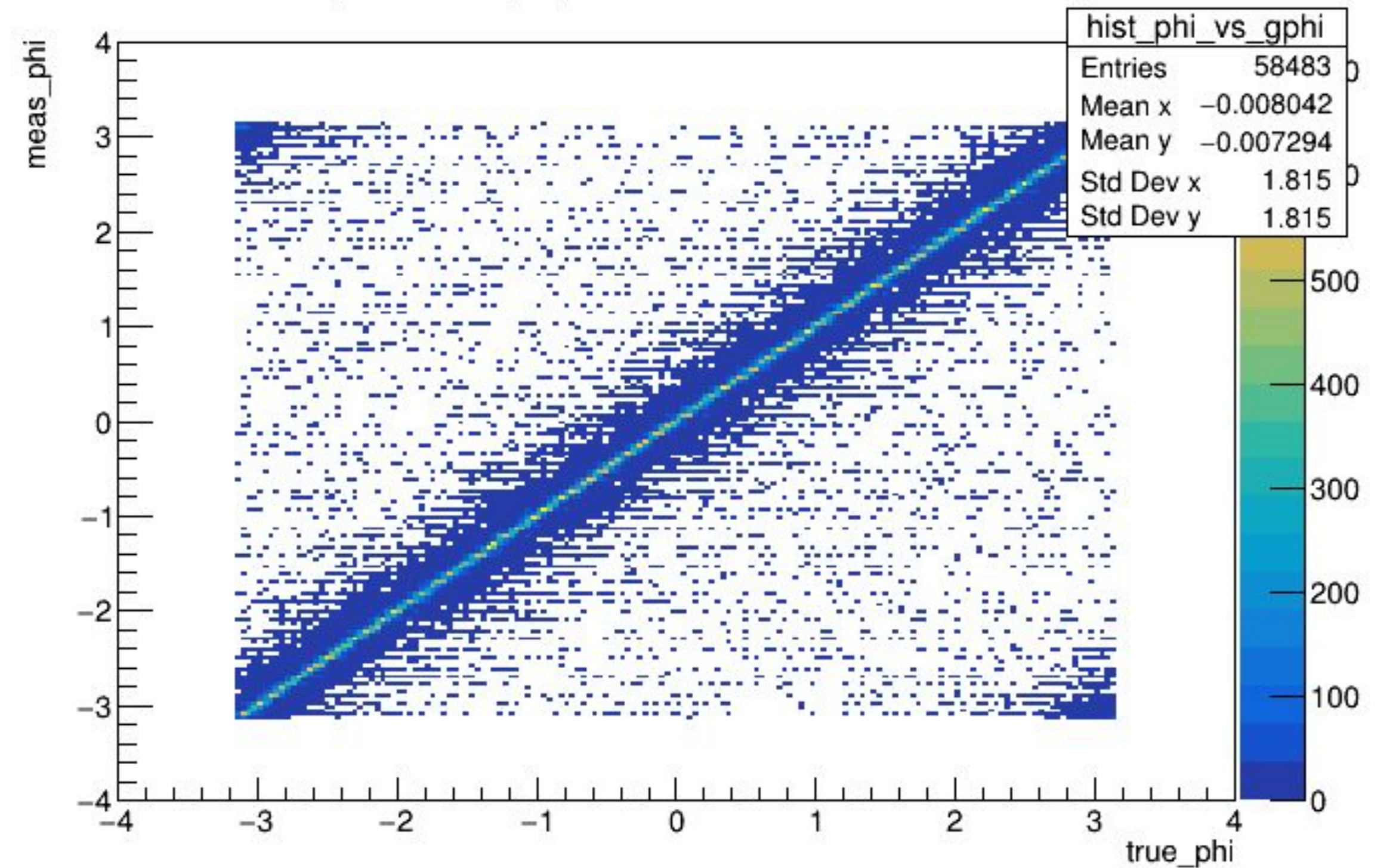
HCALOUT

phi vs gphi

meas_phi vs true_phi



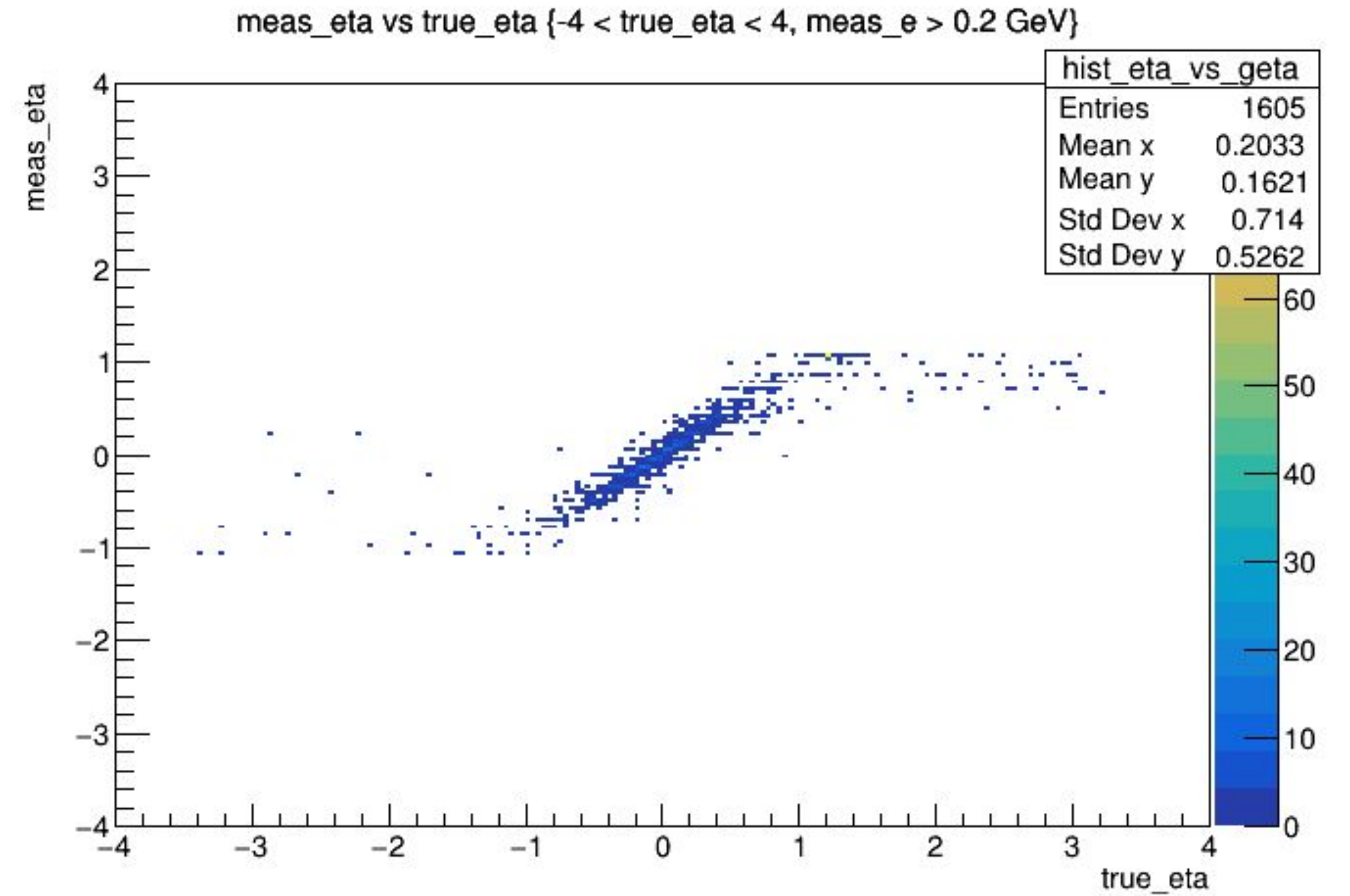
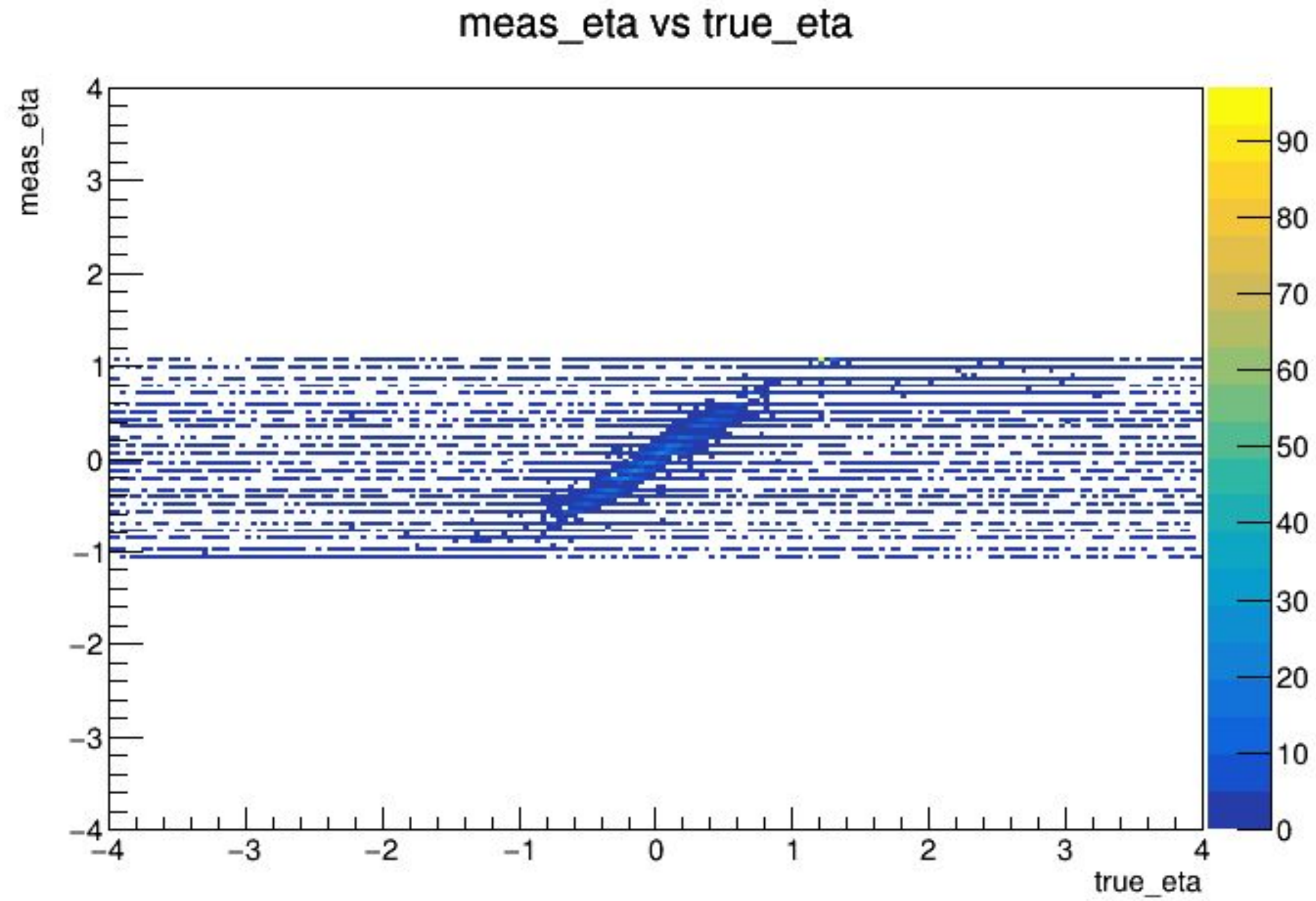
meas_phi vs true_phi $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$



Kaon

HCALOUT

eta vs geta

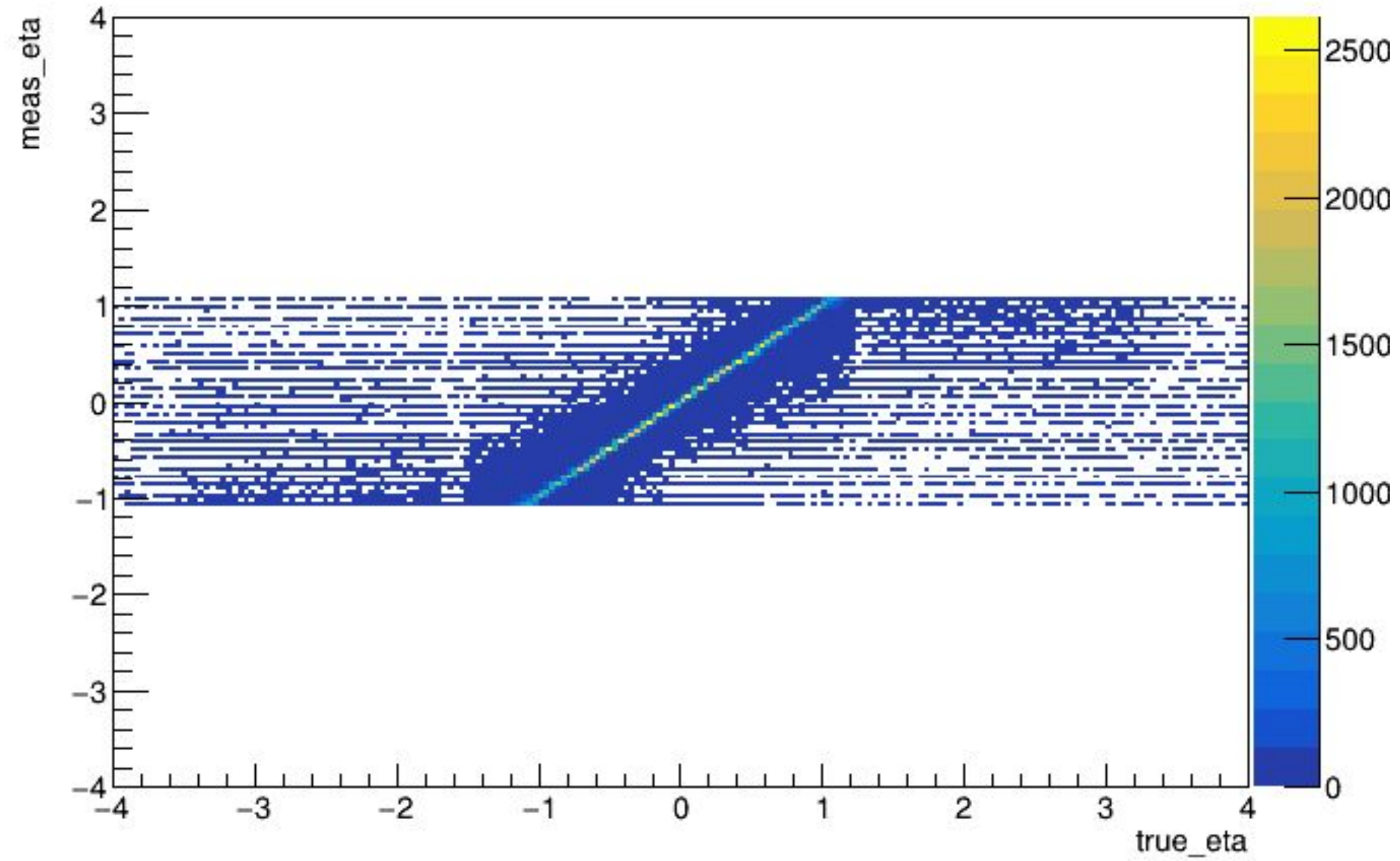


Electron

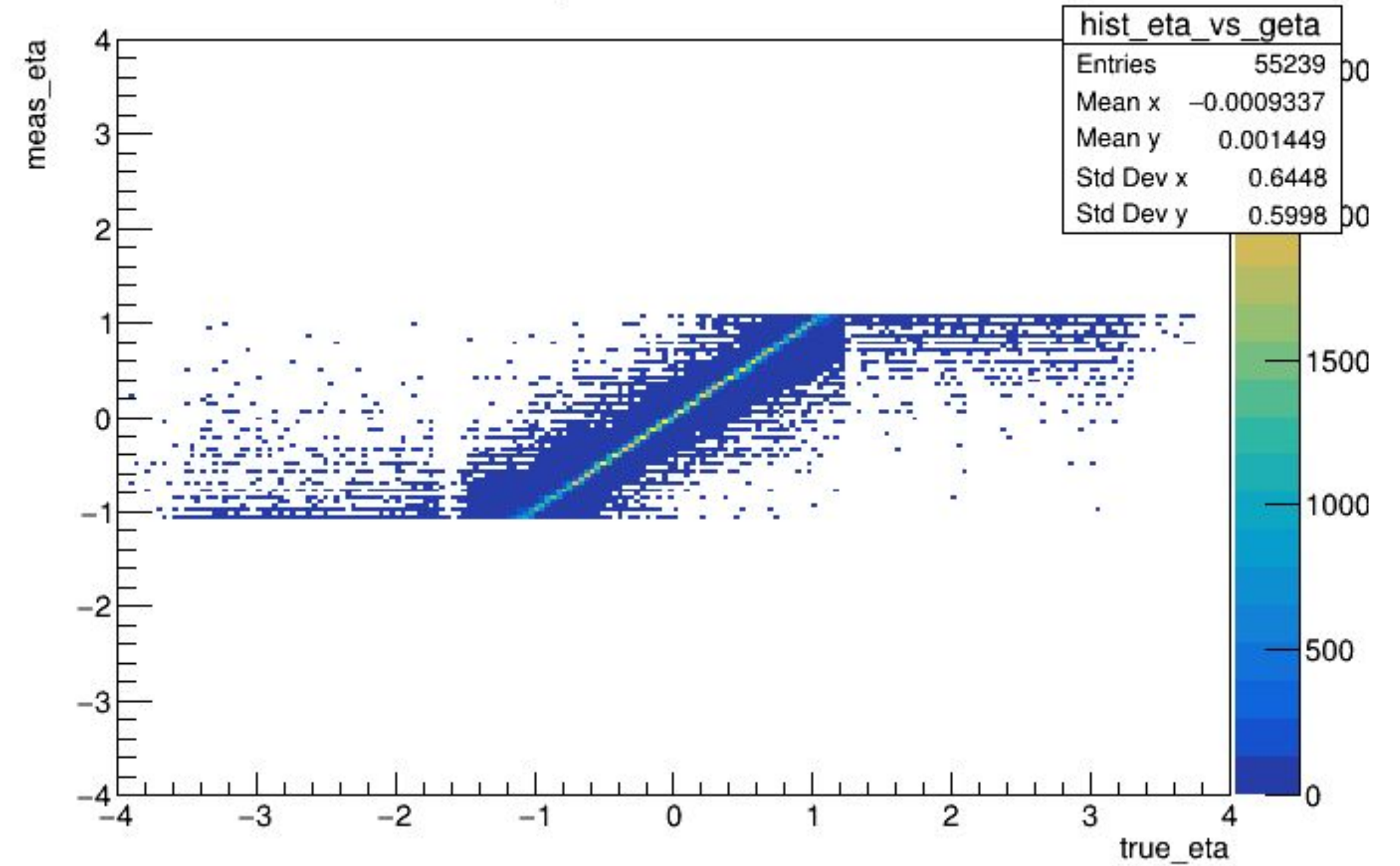
HCALOUT

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

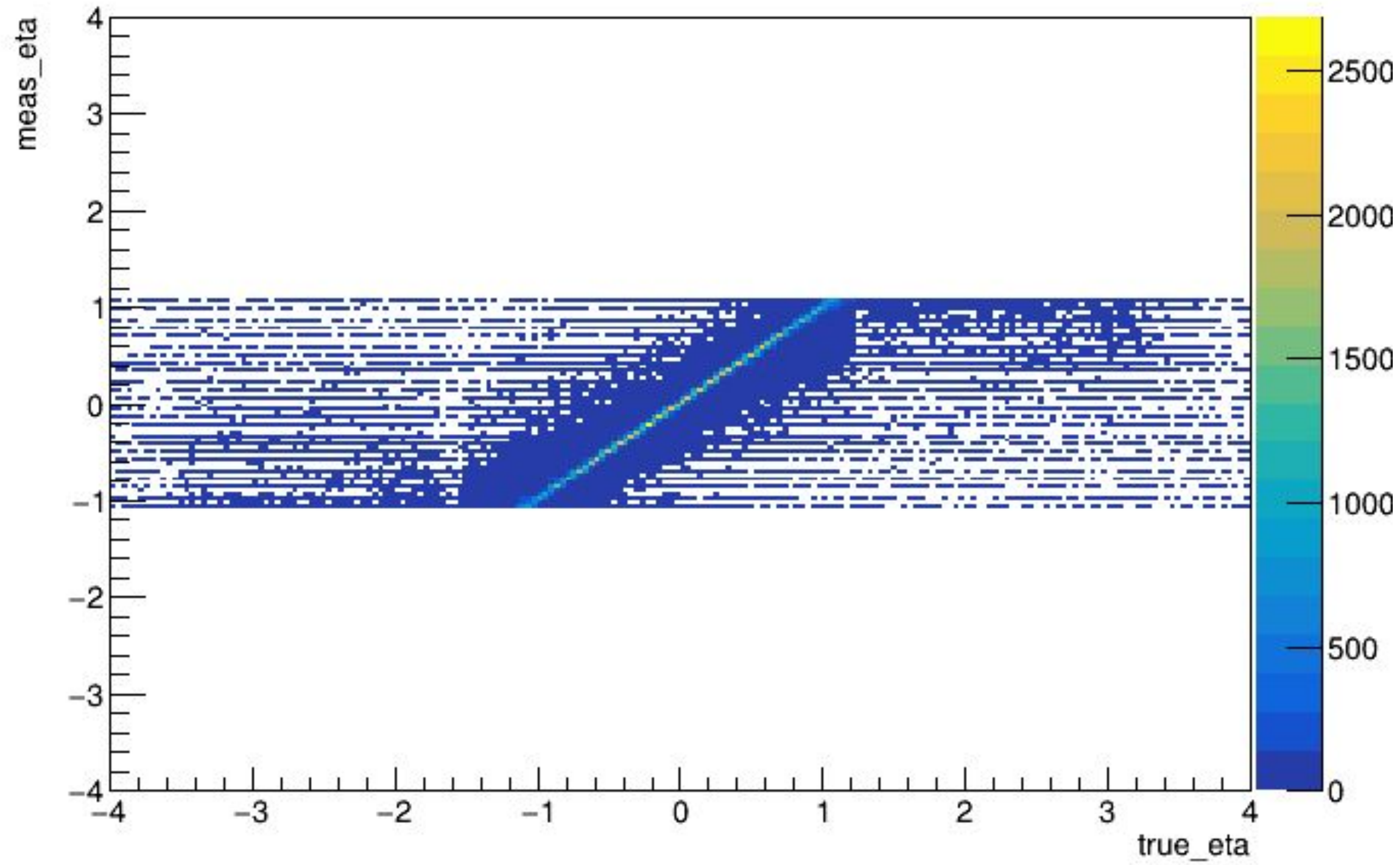


Pion

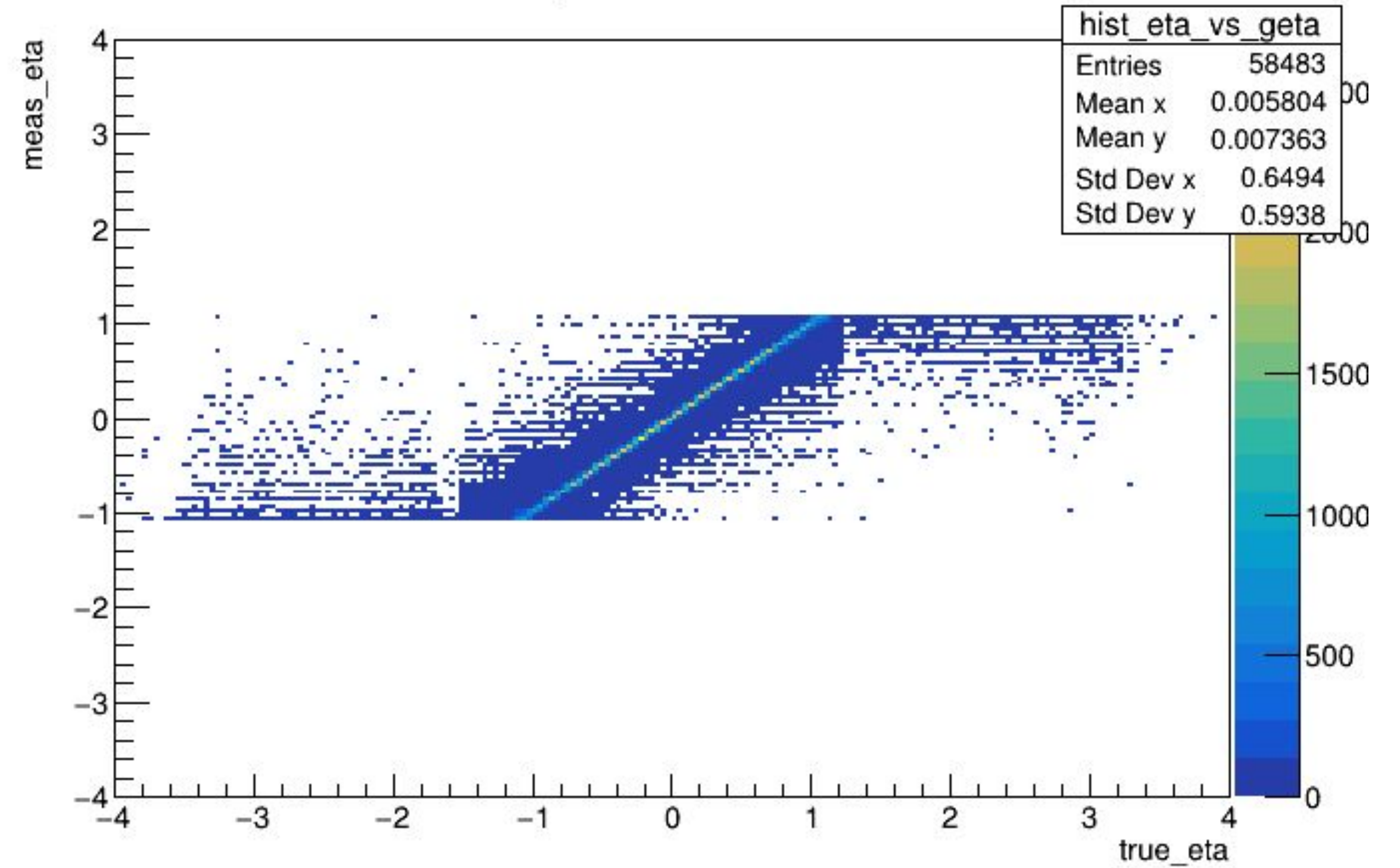
HCALOUT

eta vs geta

meas_eta vs true_eta



meas_eta vs true_eta $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

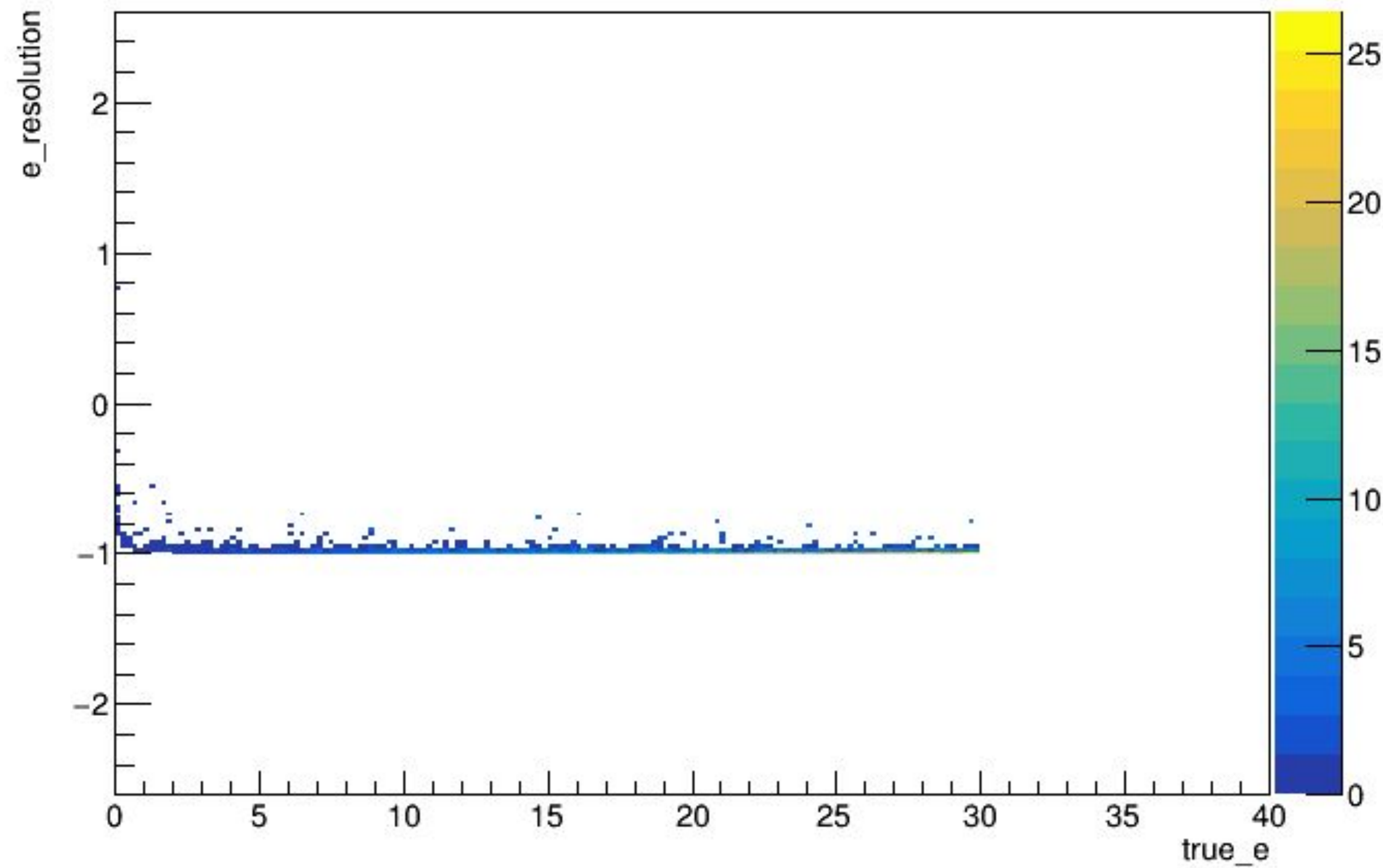


Kaon

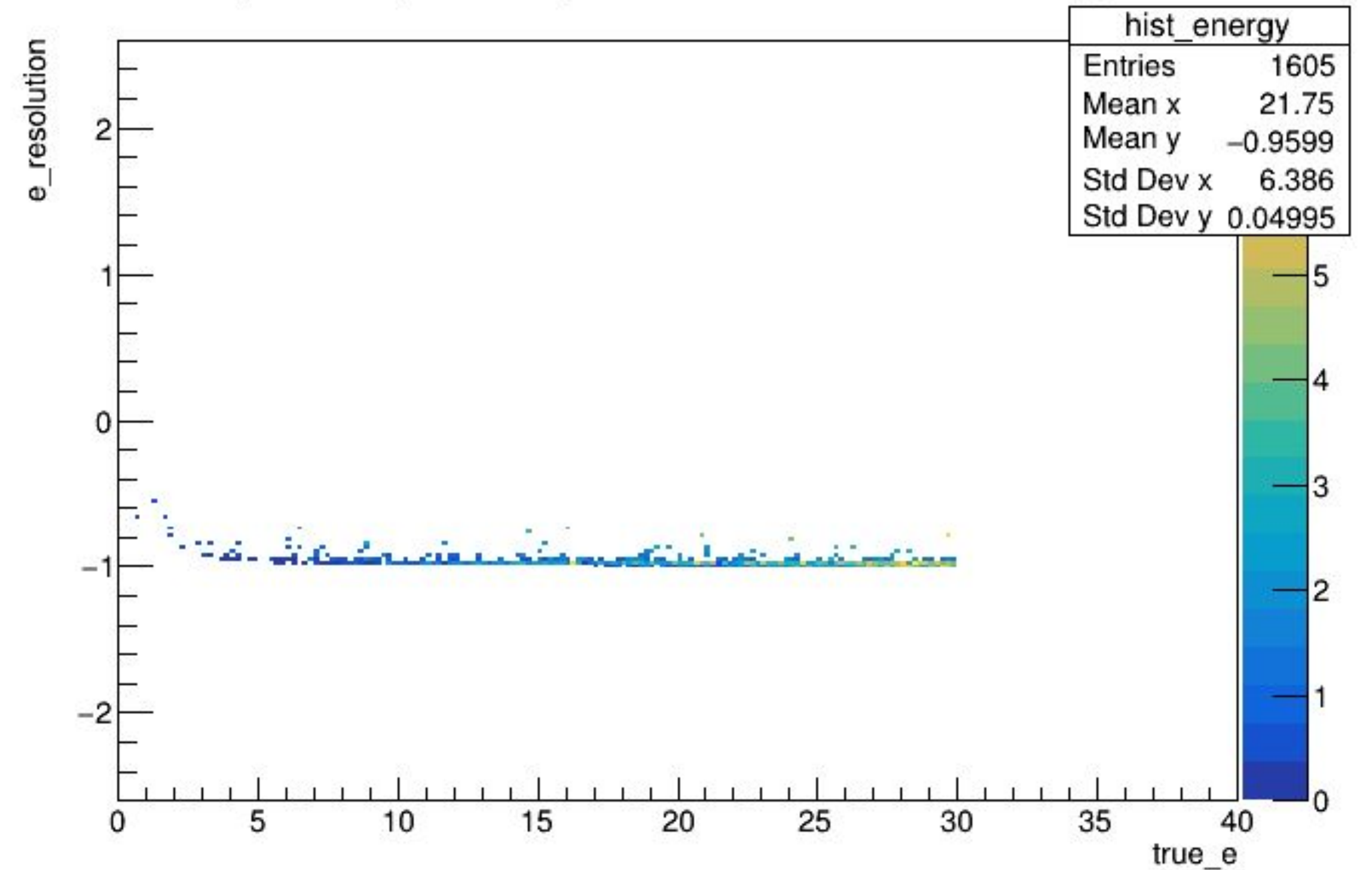
HCALOUT

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

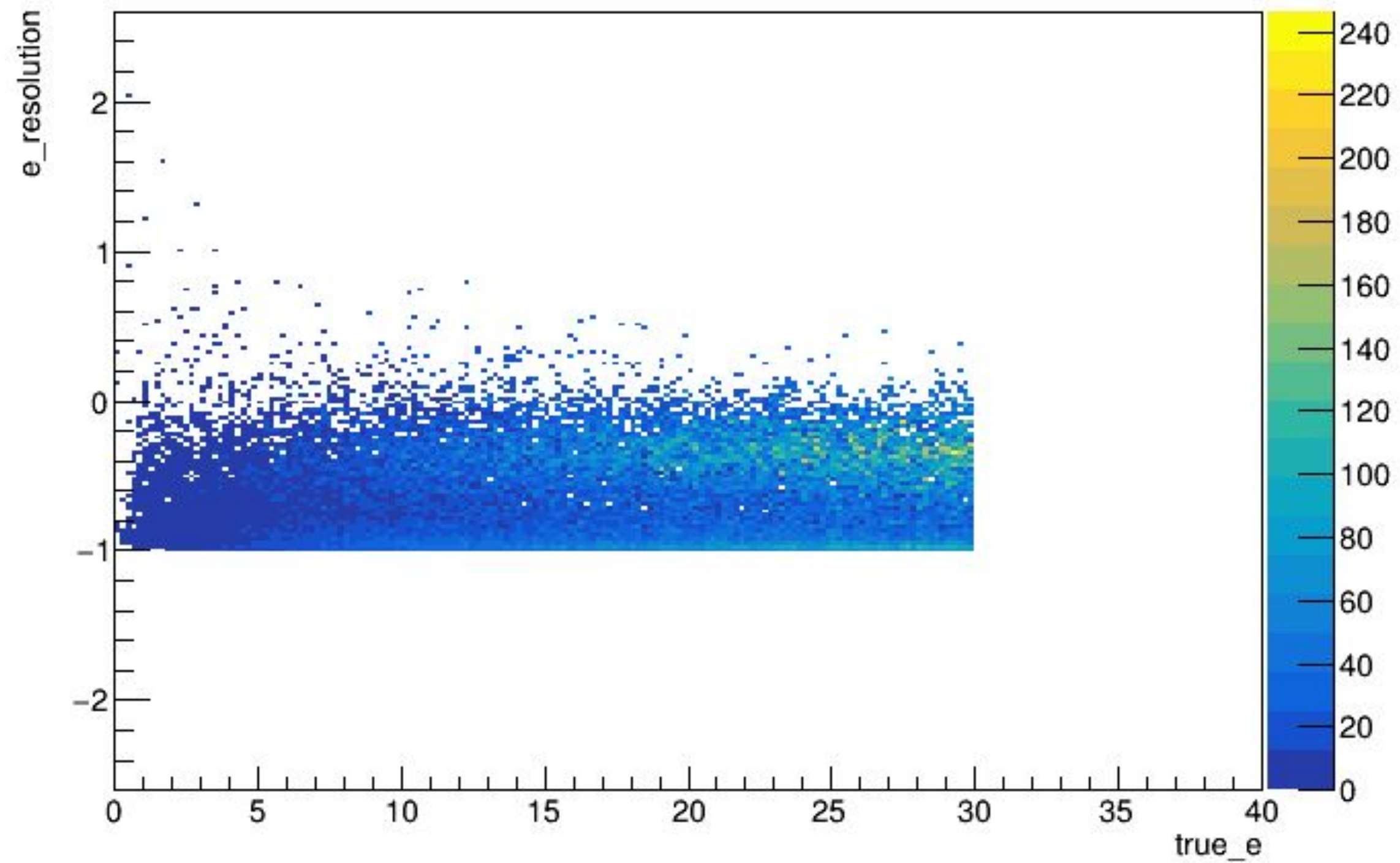


Electron

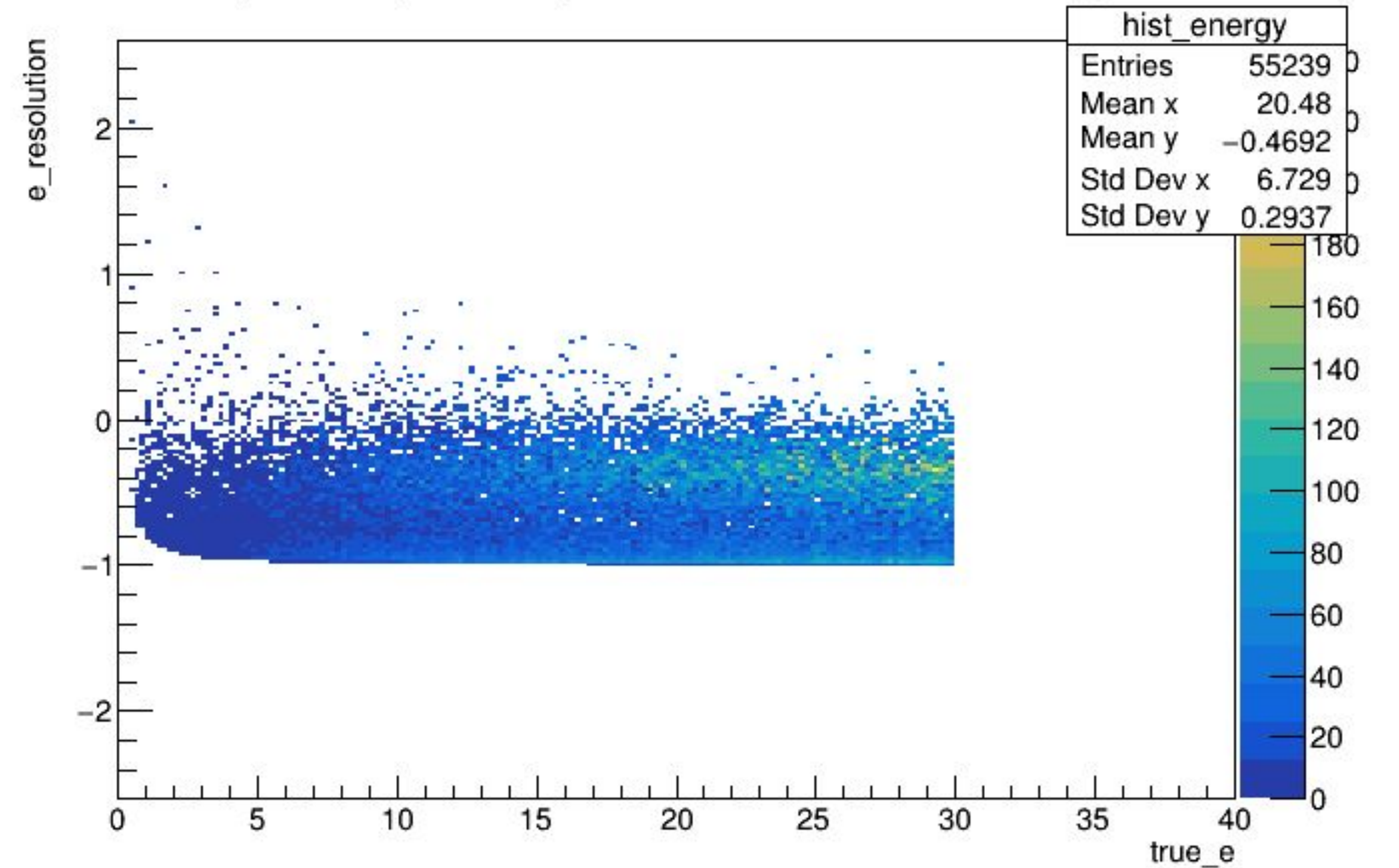
HCALOUT

$\Delta e/ge$ vs ge

($\Delta e/true_e$) vs $true_e$



($\Delta e/true_e$) vs $true_e$ $\{-4 < true_eta < 4, meas_e > 0.2 \text{ GeV}\}$

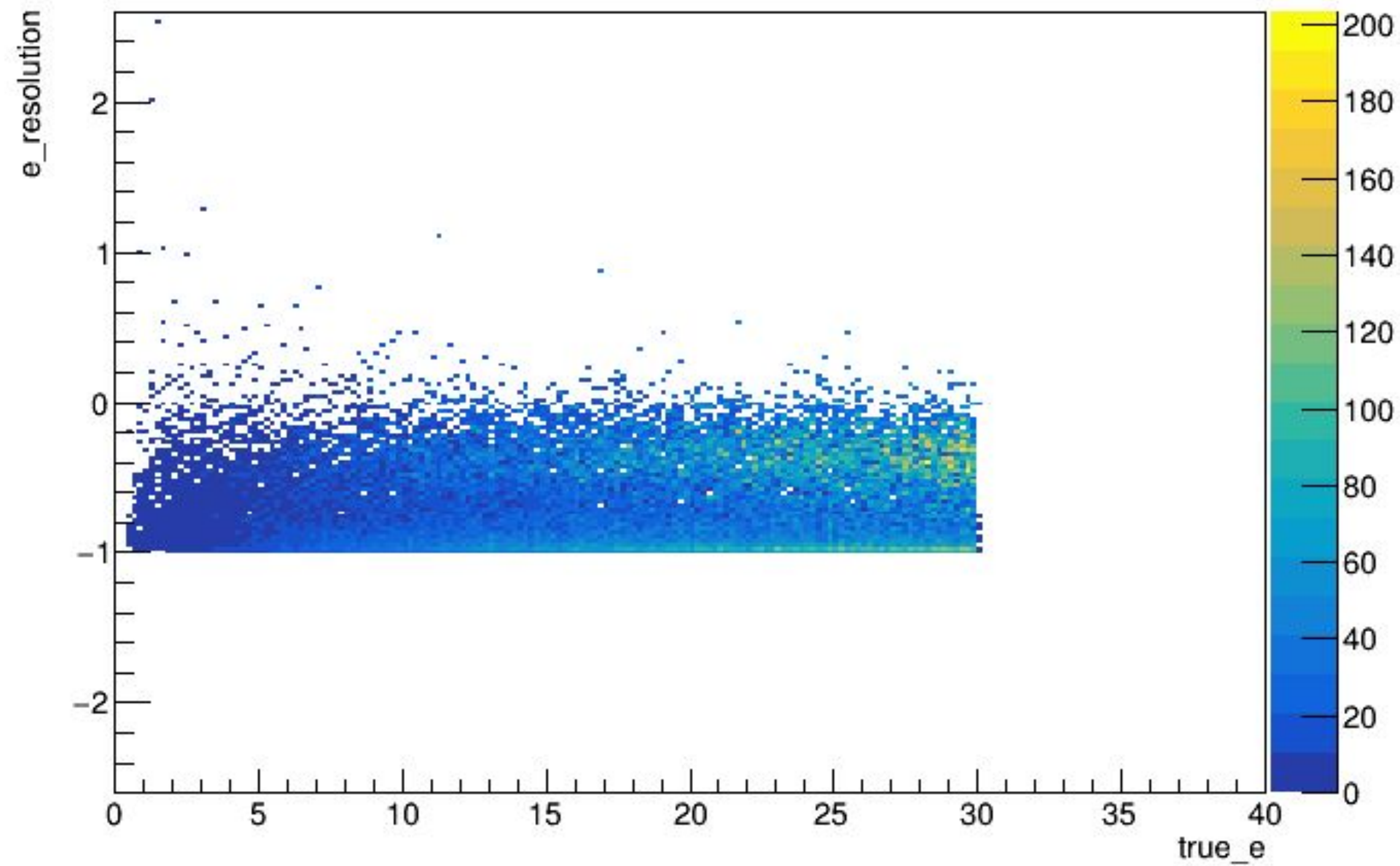


Pion

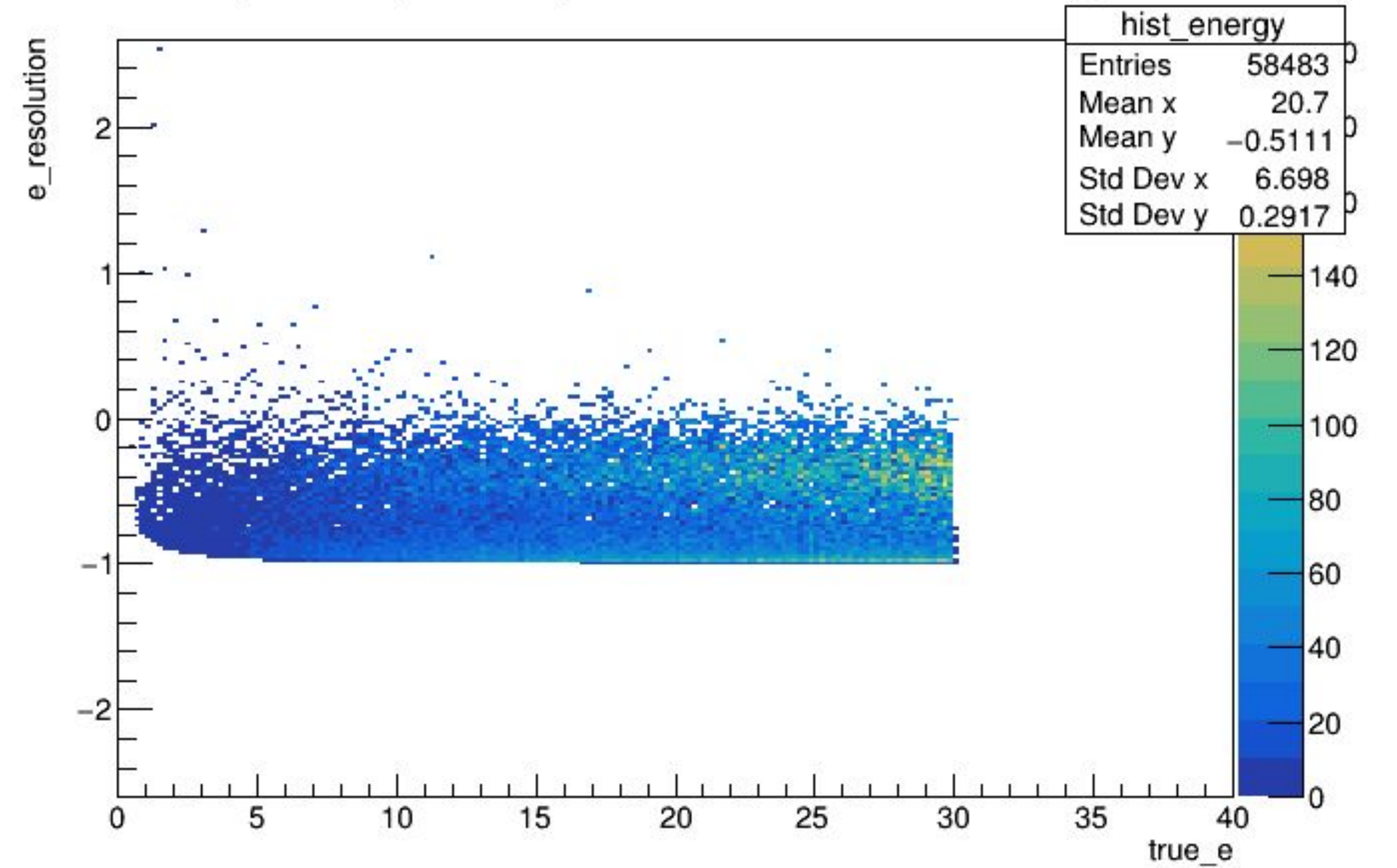
HCALOUT

$\Delta e/ge$ vs ge

$(\Delta e / \text{true}_e)$ vs true_e



$(\Delta e / \text{true}_e)$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

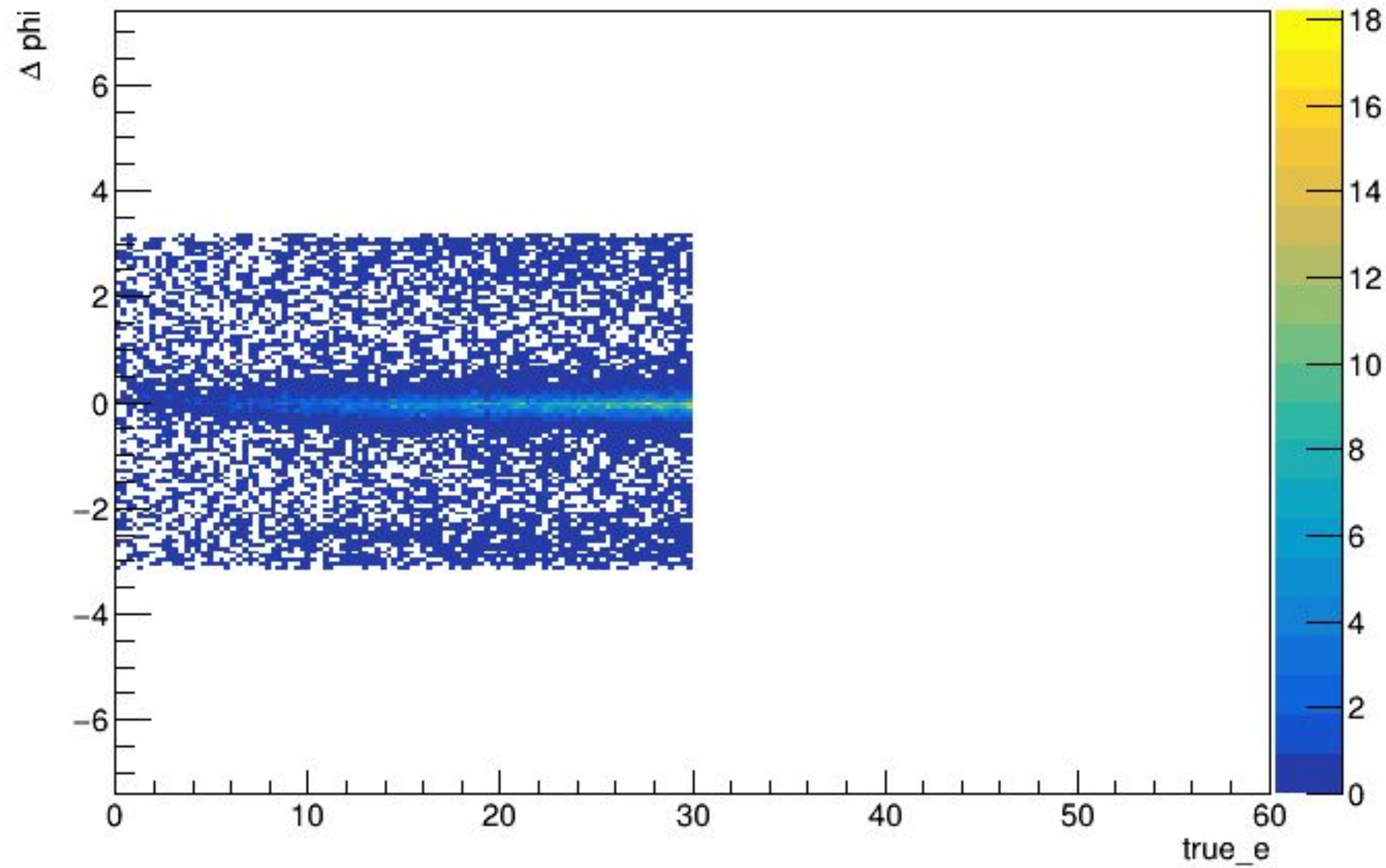


Kaon

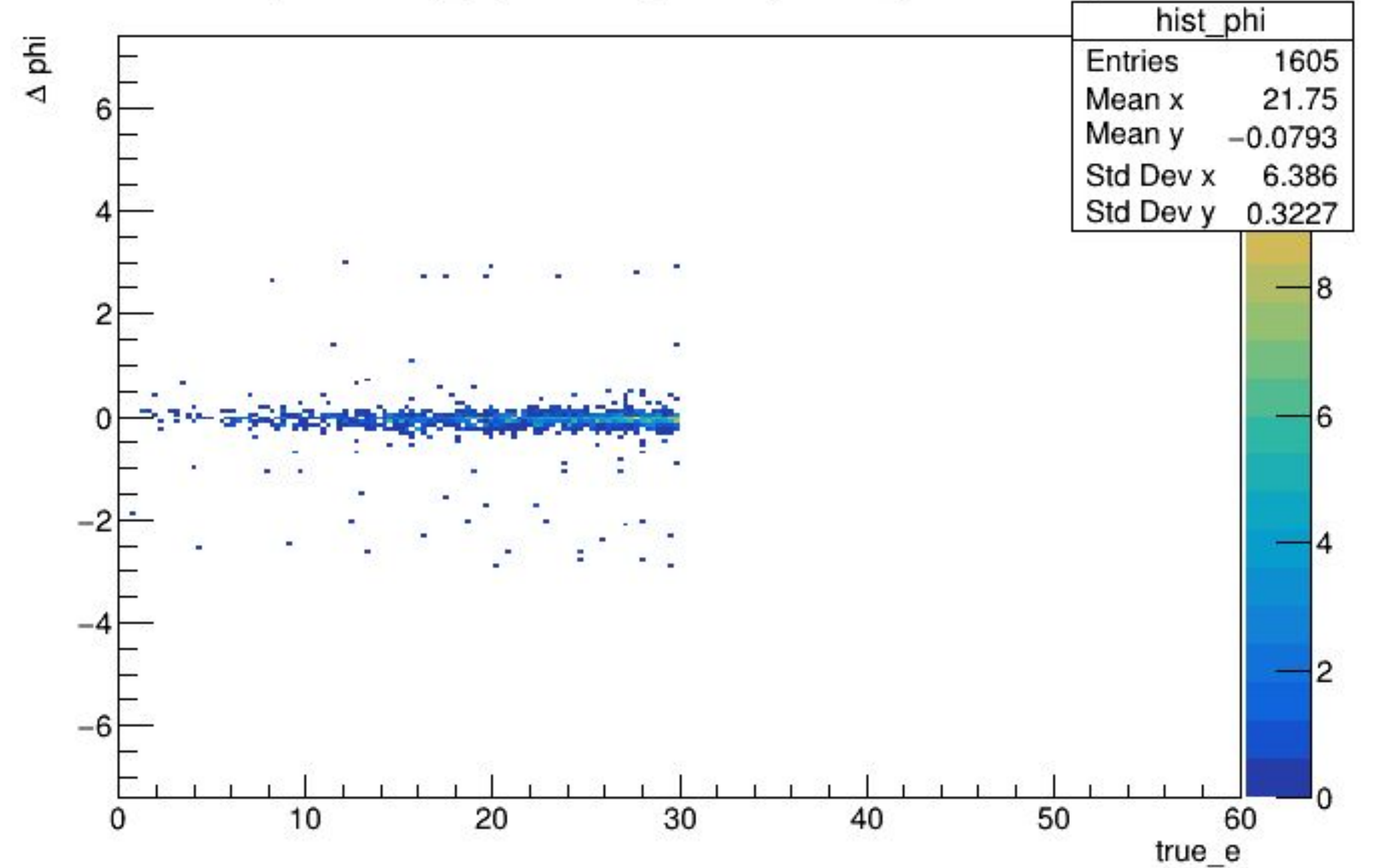
HCALOUT

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

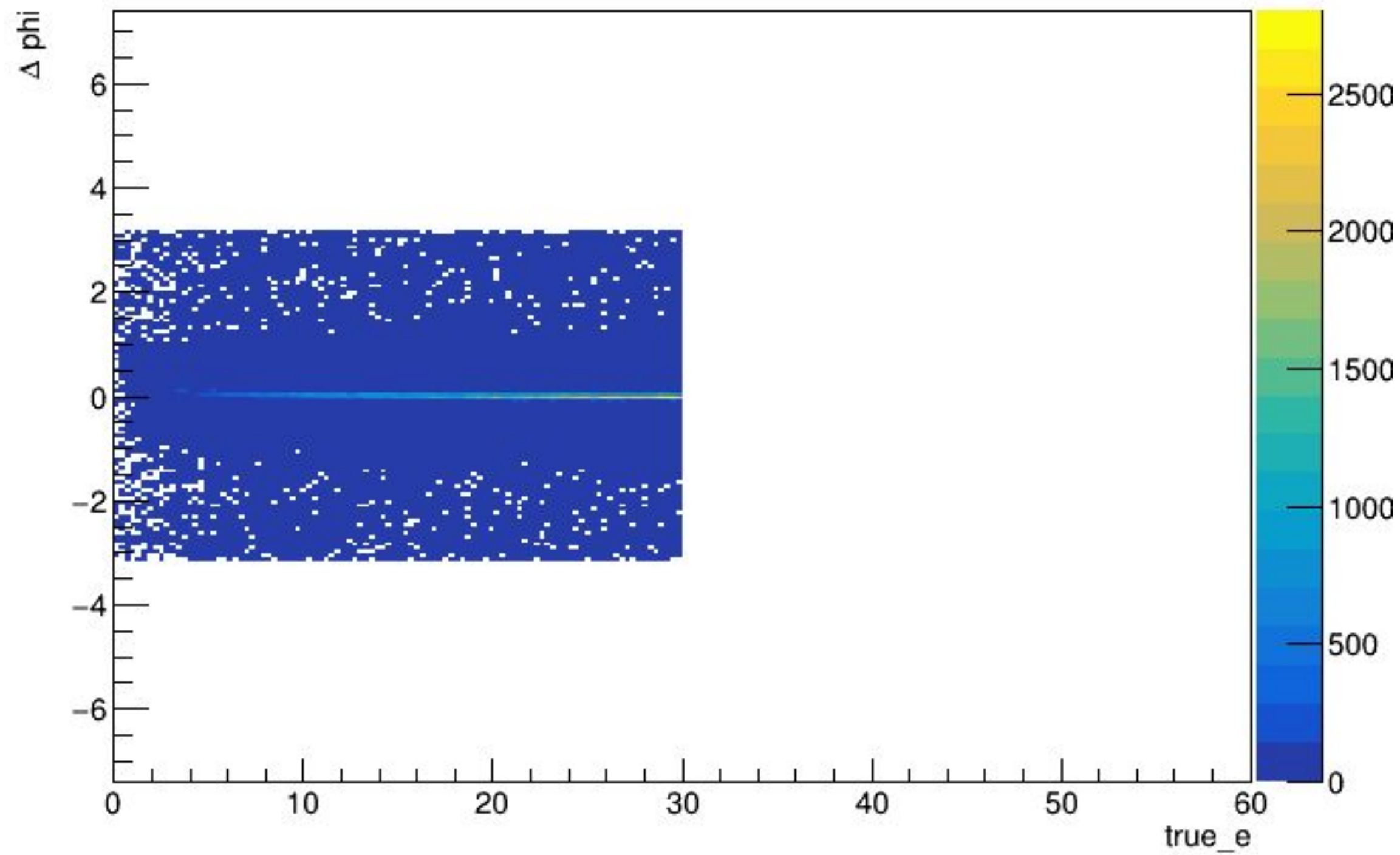


Electron

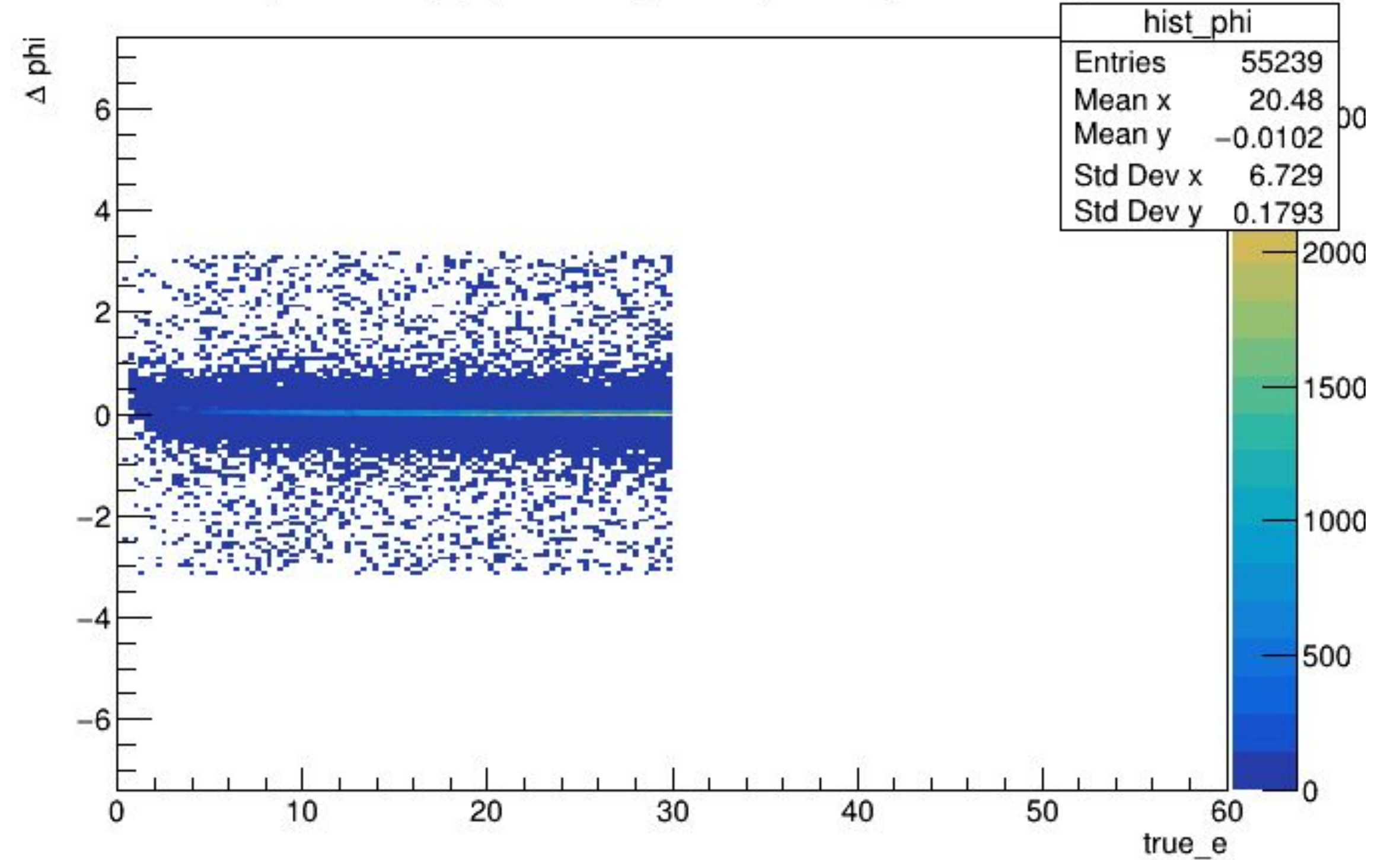
HCALOUT

$\Delta\phi$ vs g_e

$\Delta\phi$ vs true_e



$\Delta\phi$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

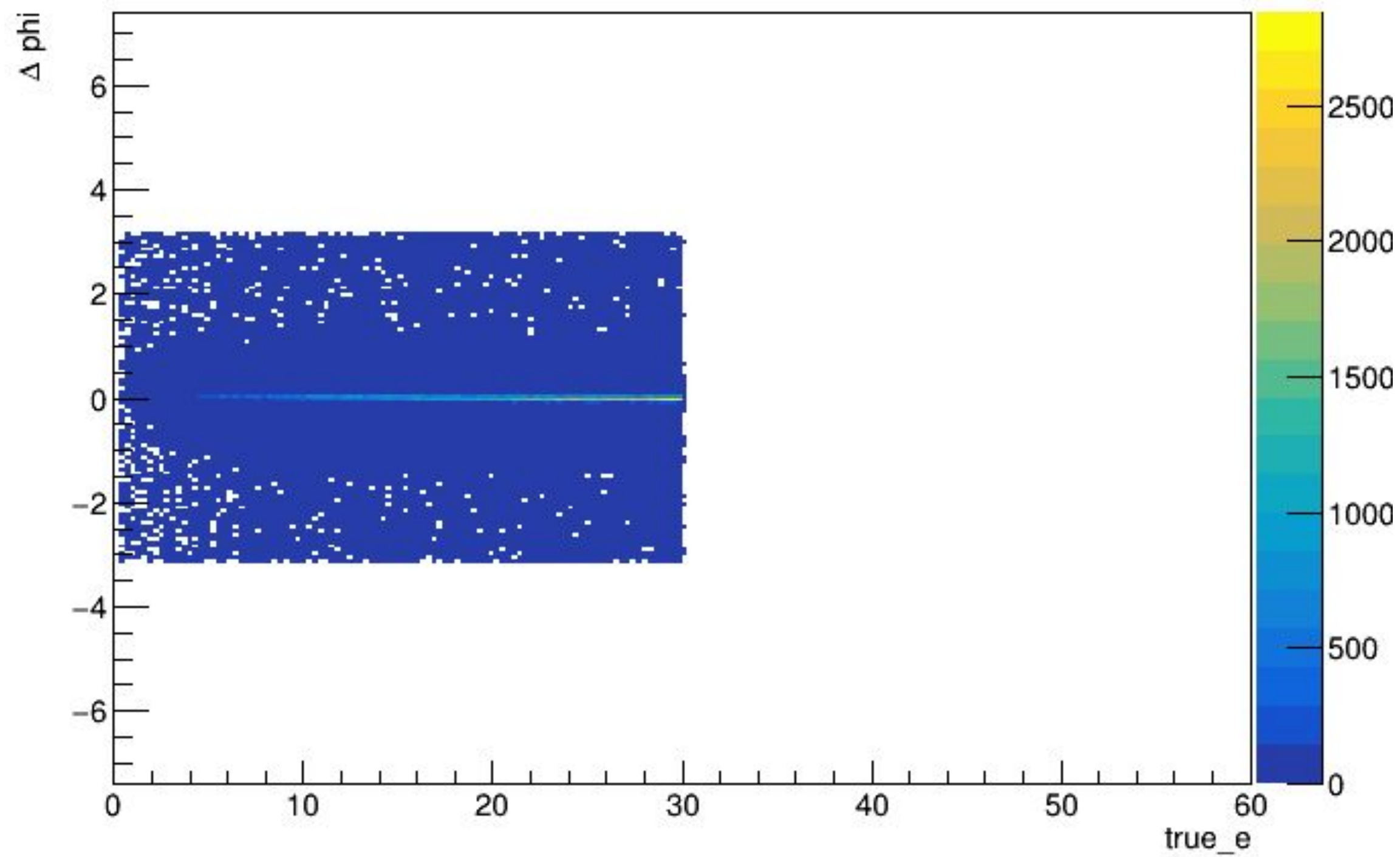


Pion

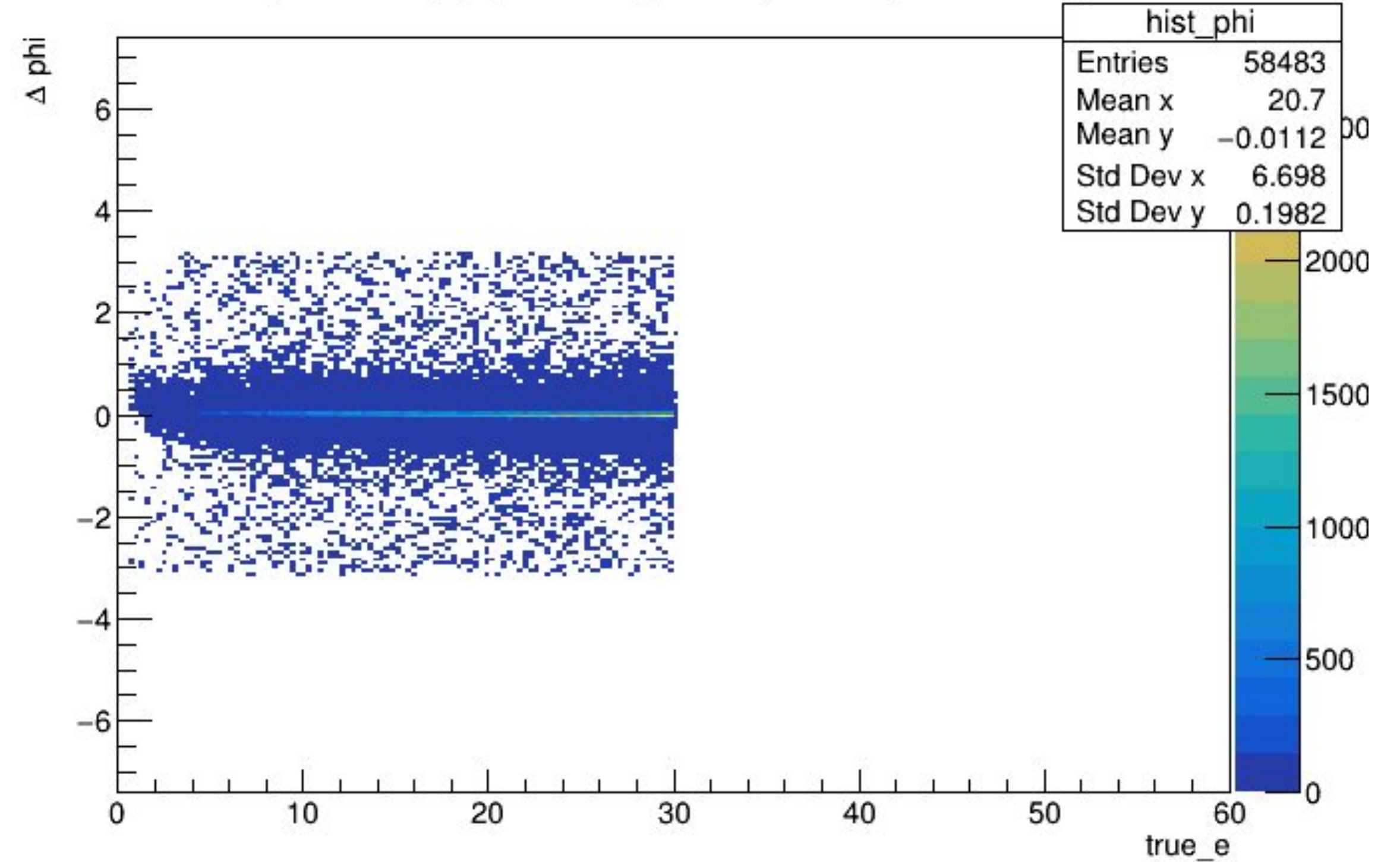
HCALOUT

Δphi vs g_e

Δphi vs true_e



Δphi vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

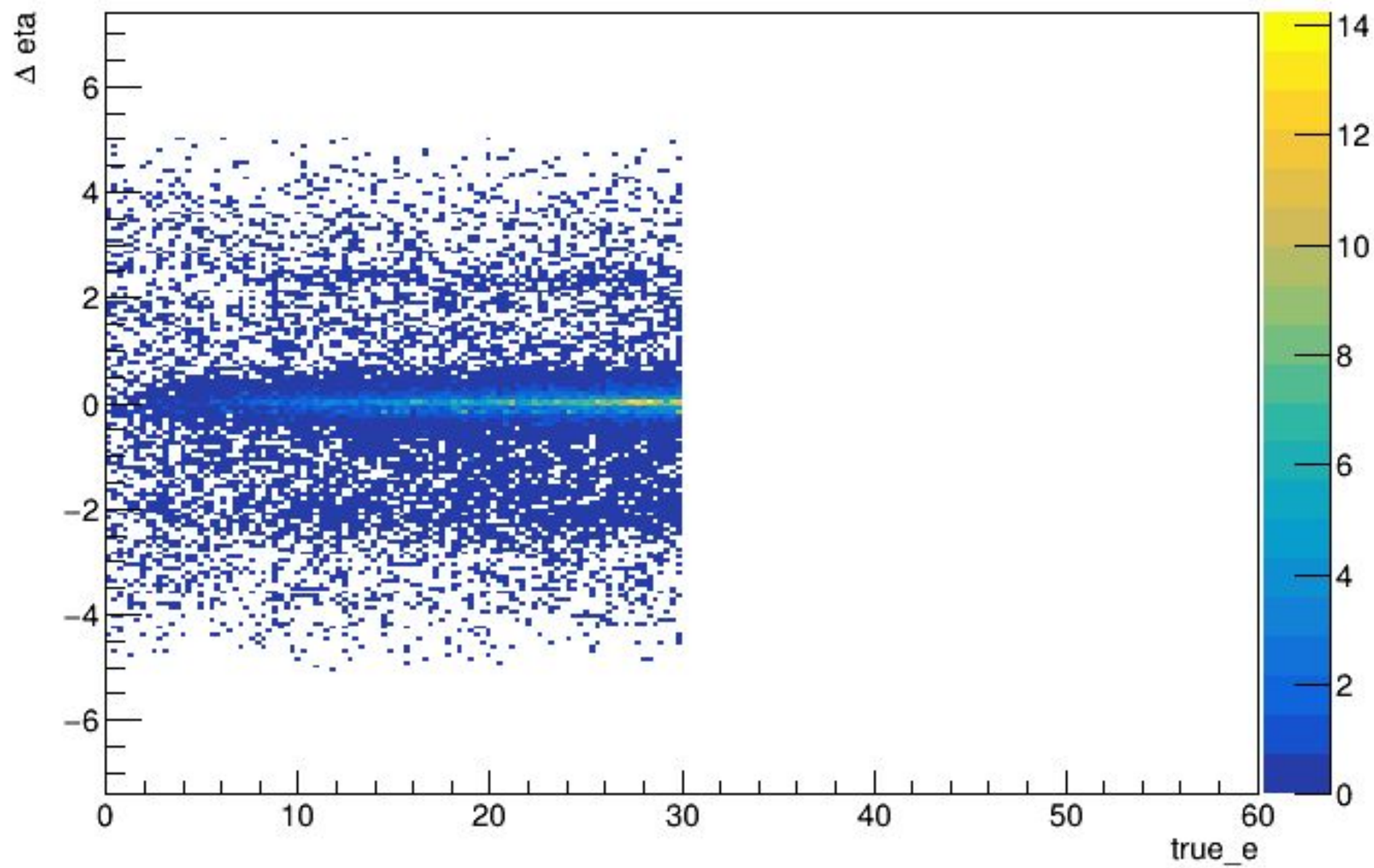


Kaon

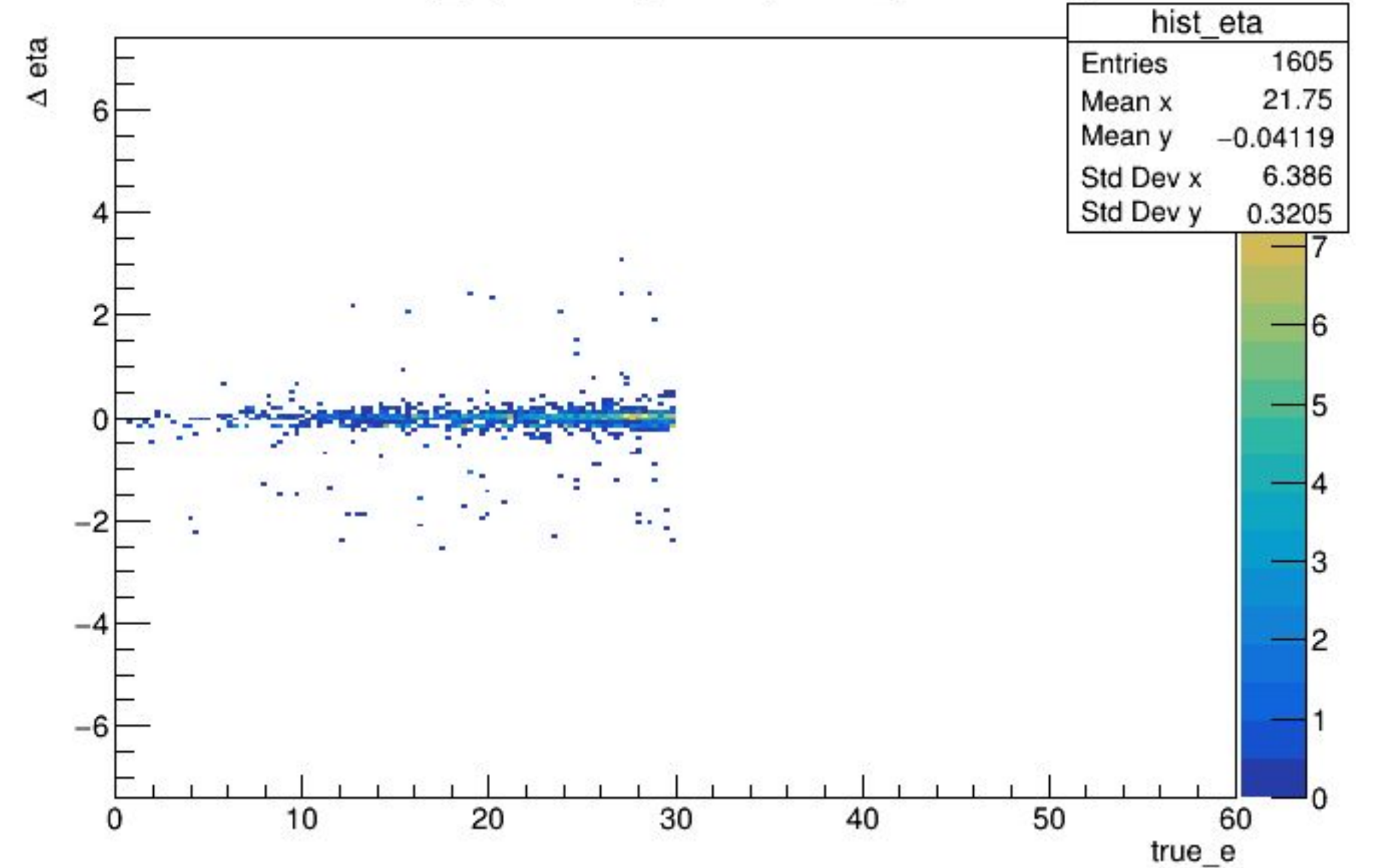
HCALOUT

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



$\Delta\eta$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

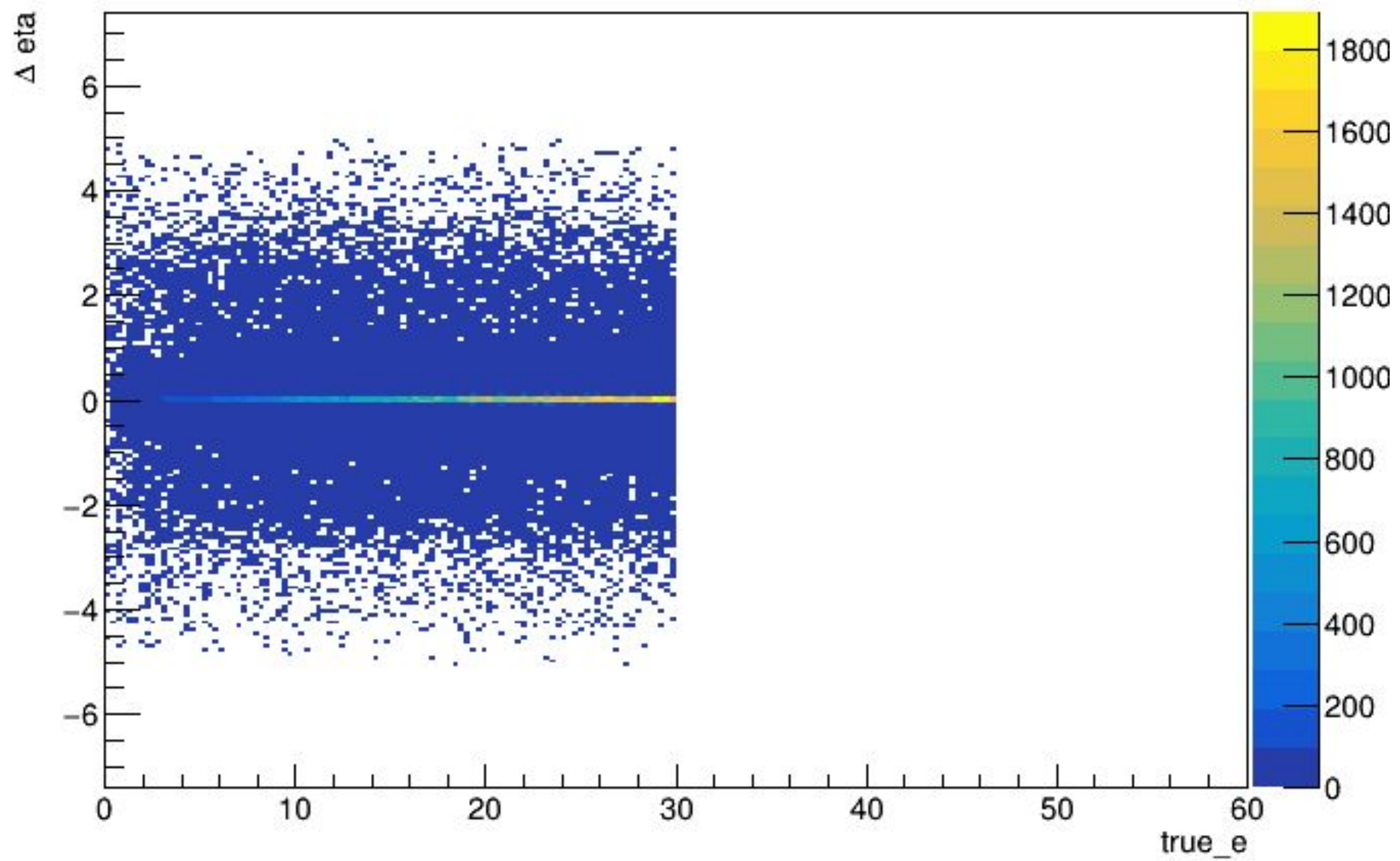


Electron

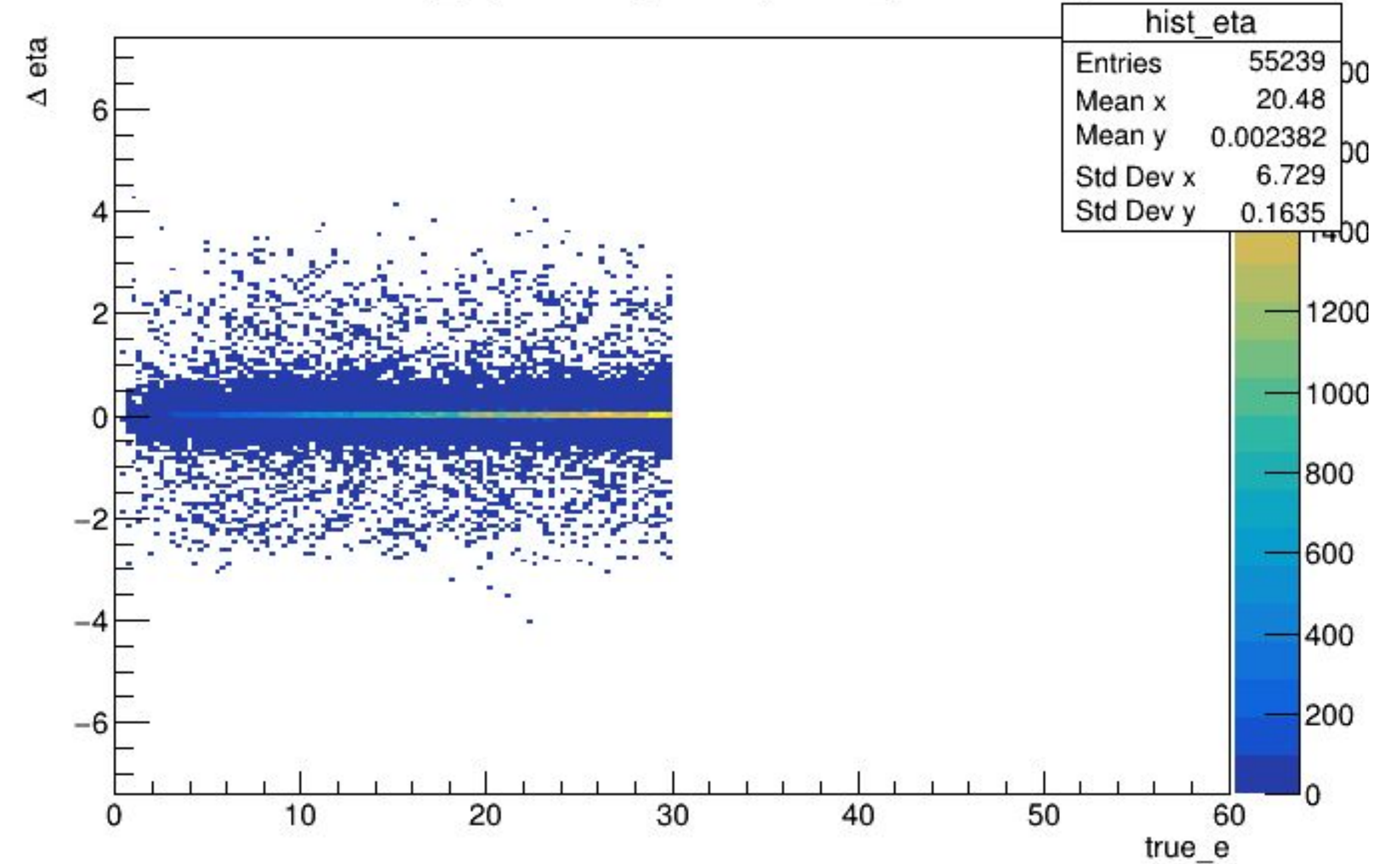
HCALOUT

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



$\Delta\eta$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$

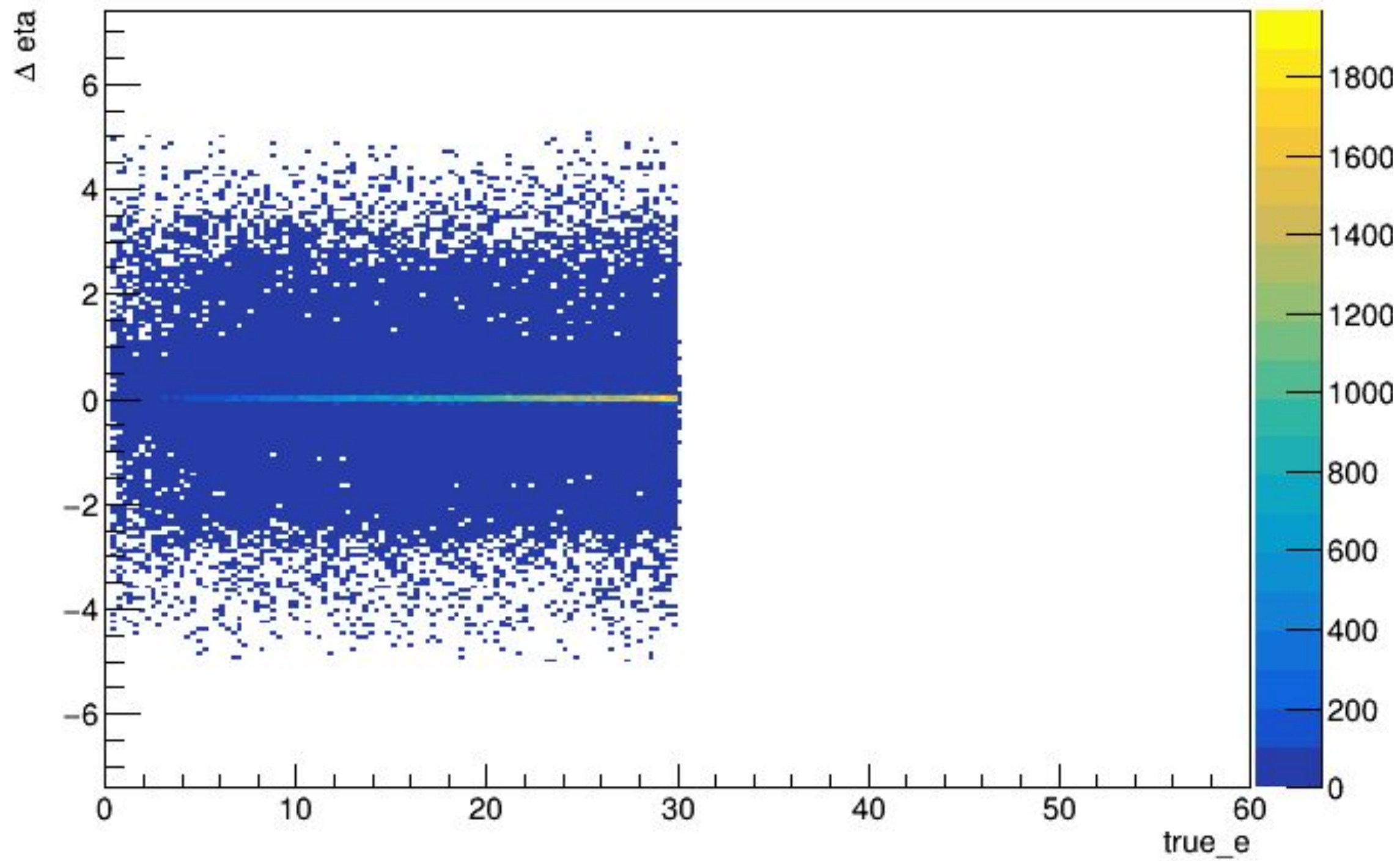


Pion

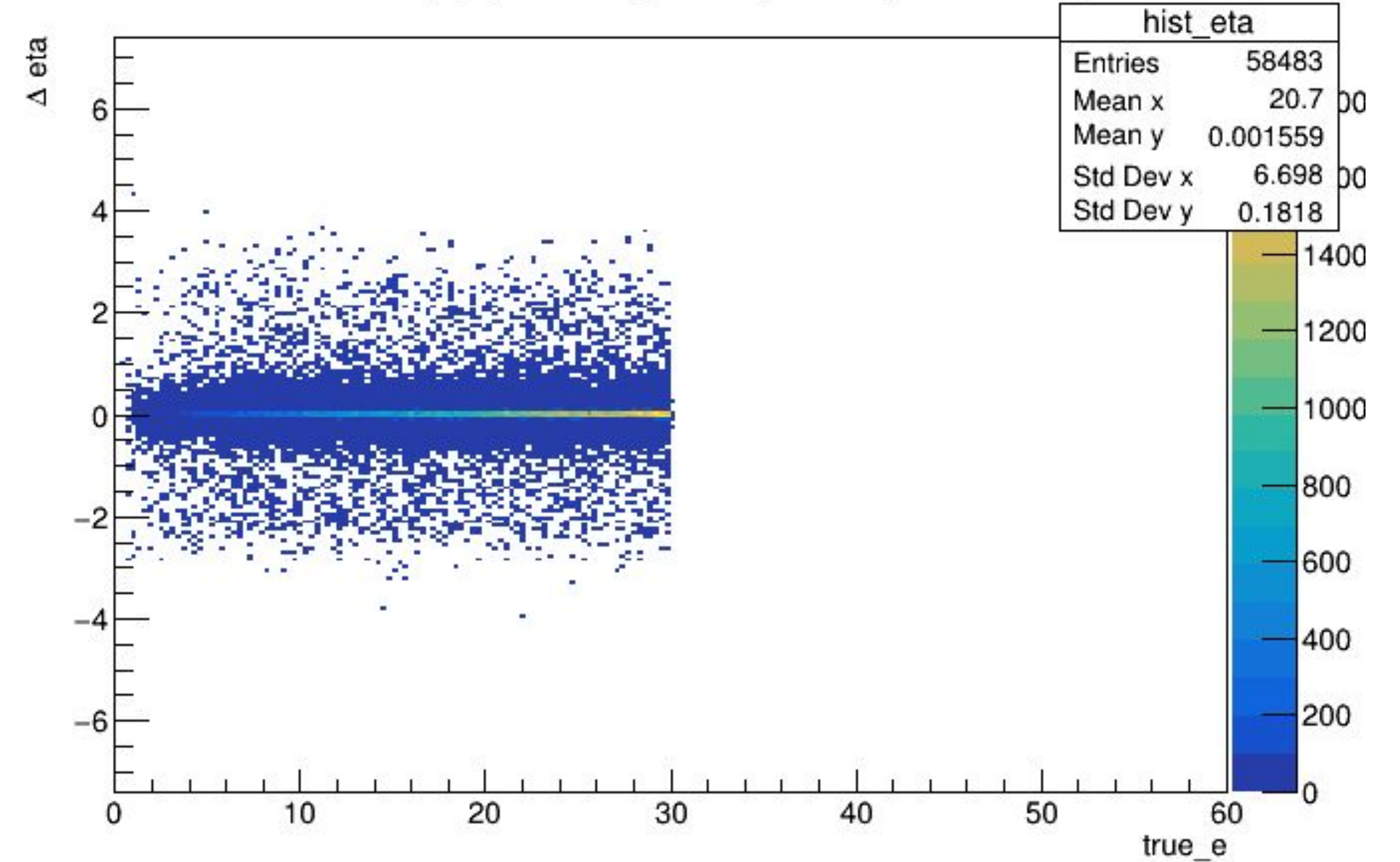
HCALOUT

$\Delta\eta$ vs g_e

$\Delta\eta$ vs true_e



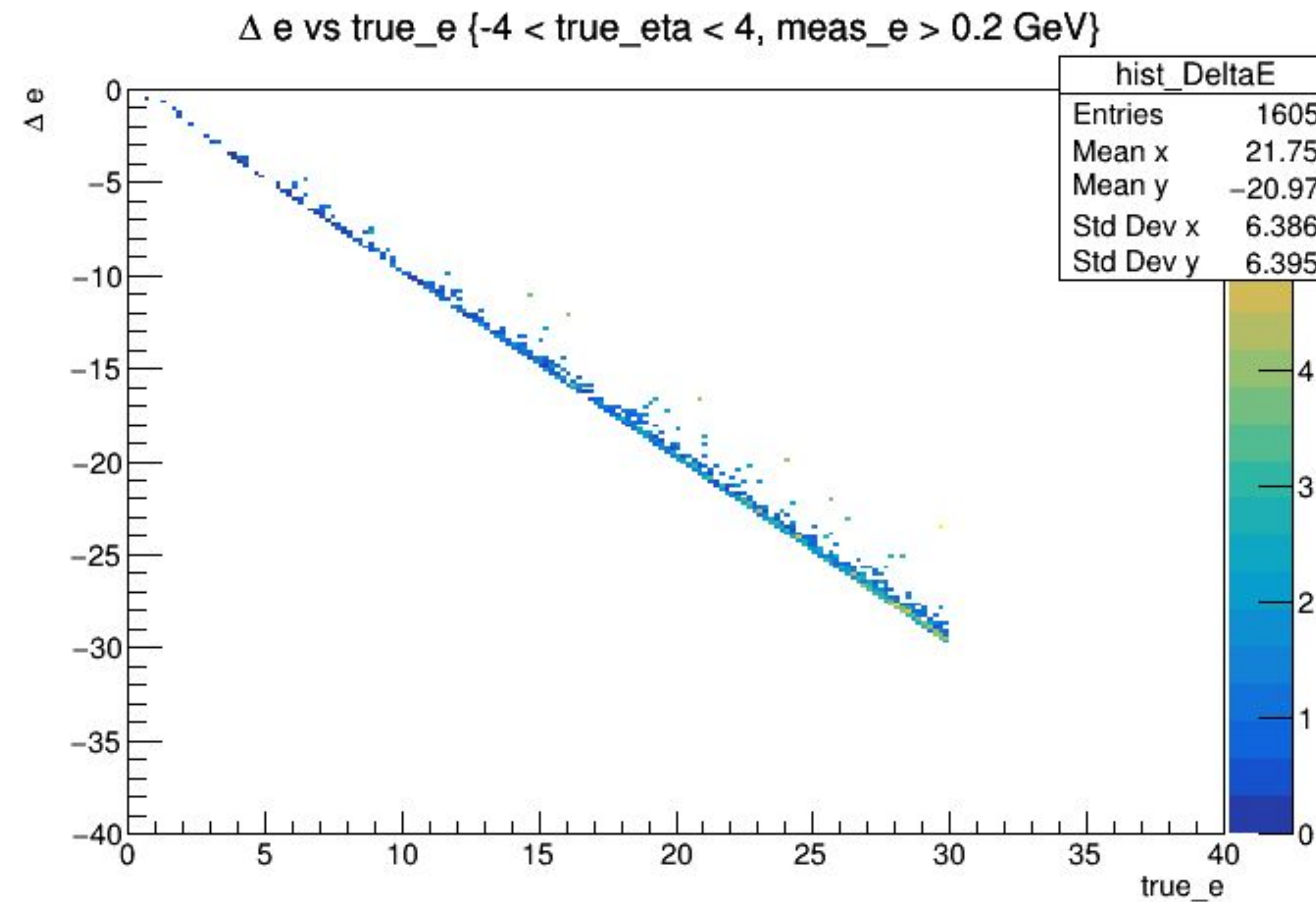
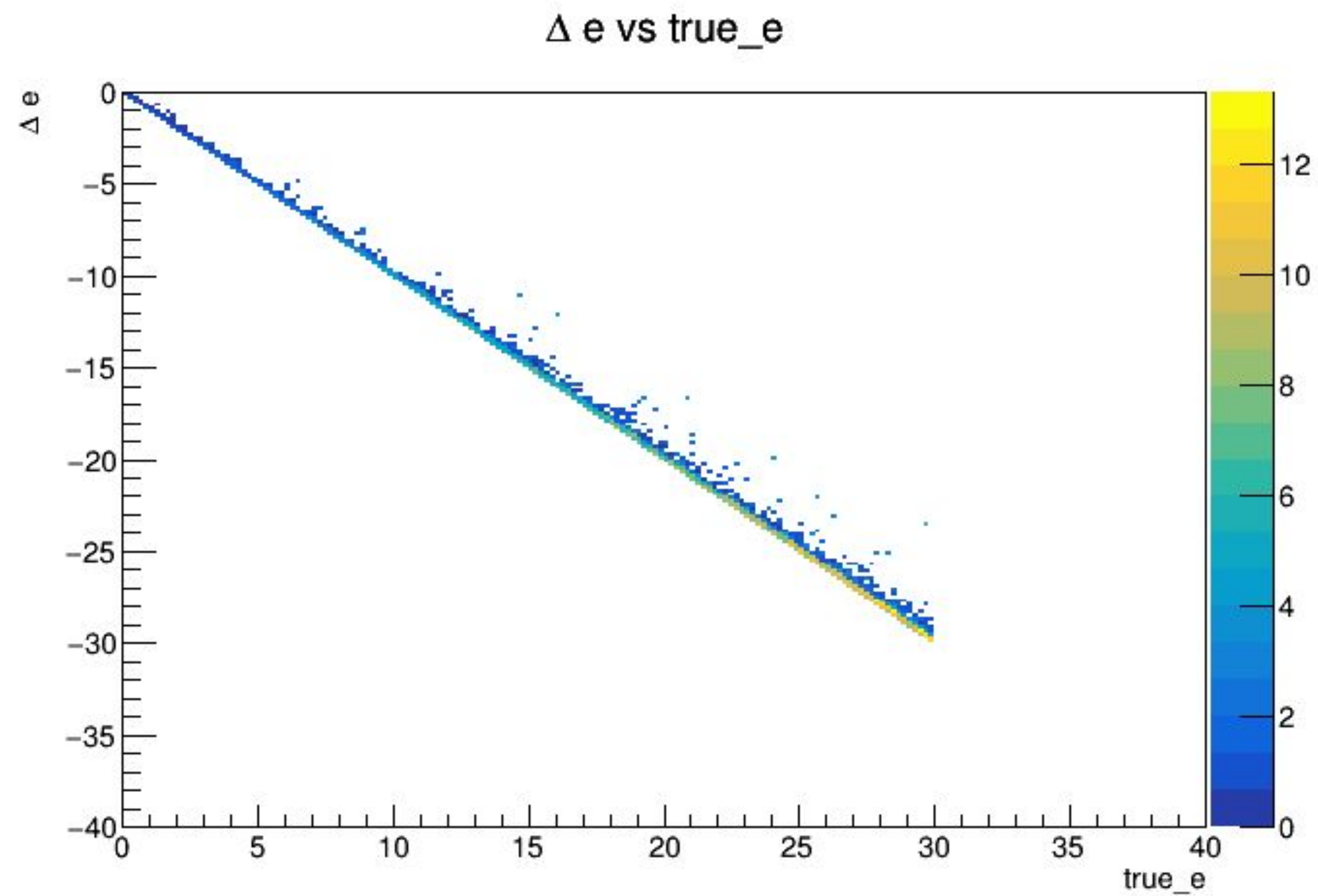
$\Delta\eta$ vs true_e $\{-4 < \text{true}_\eta < 4, \text{meas}_e > 0.2 \text{ GeV}\}$



Kaon

HCALOUT

Δe vs g_e

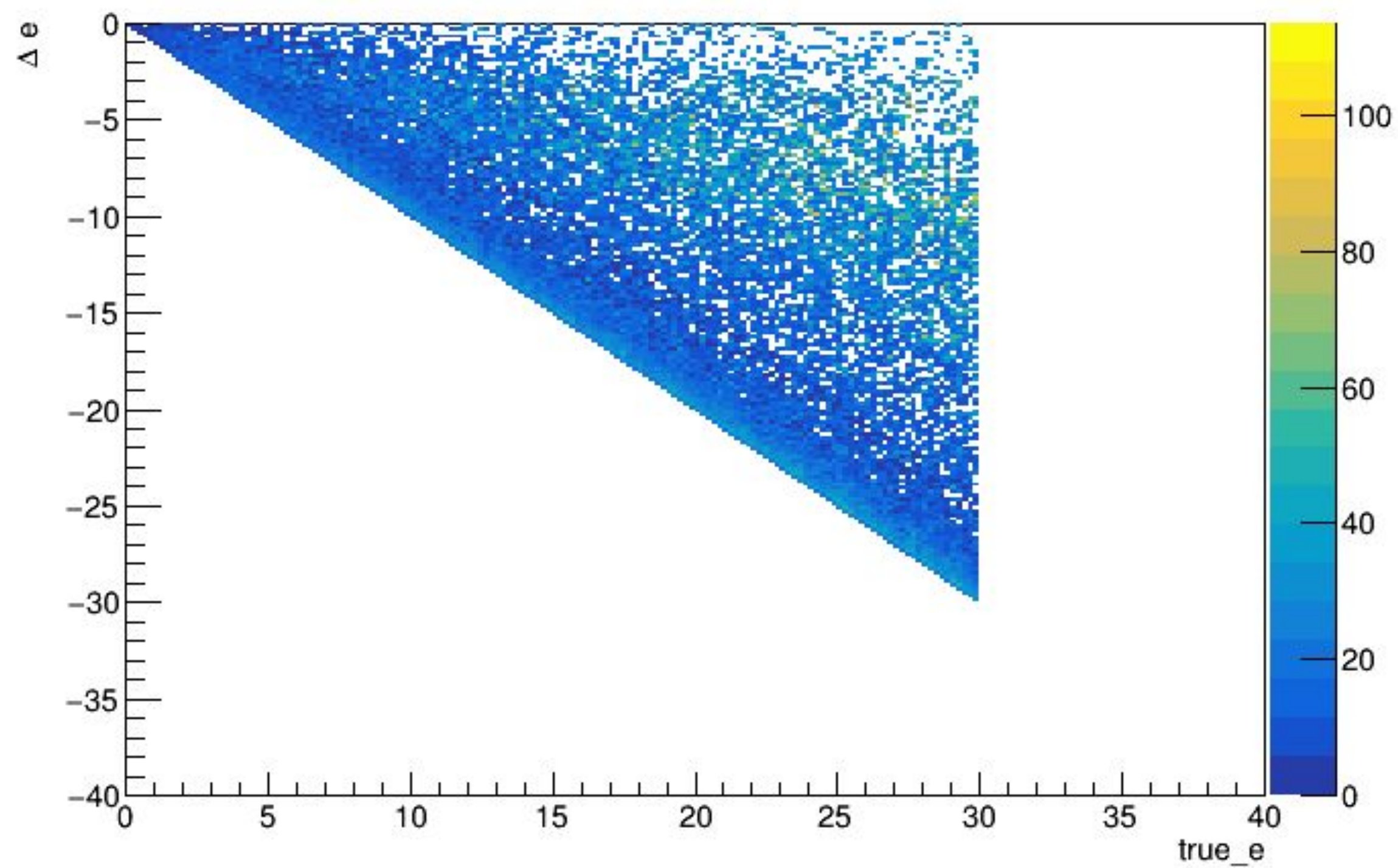


Electron

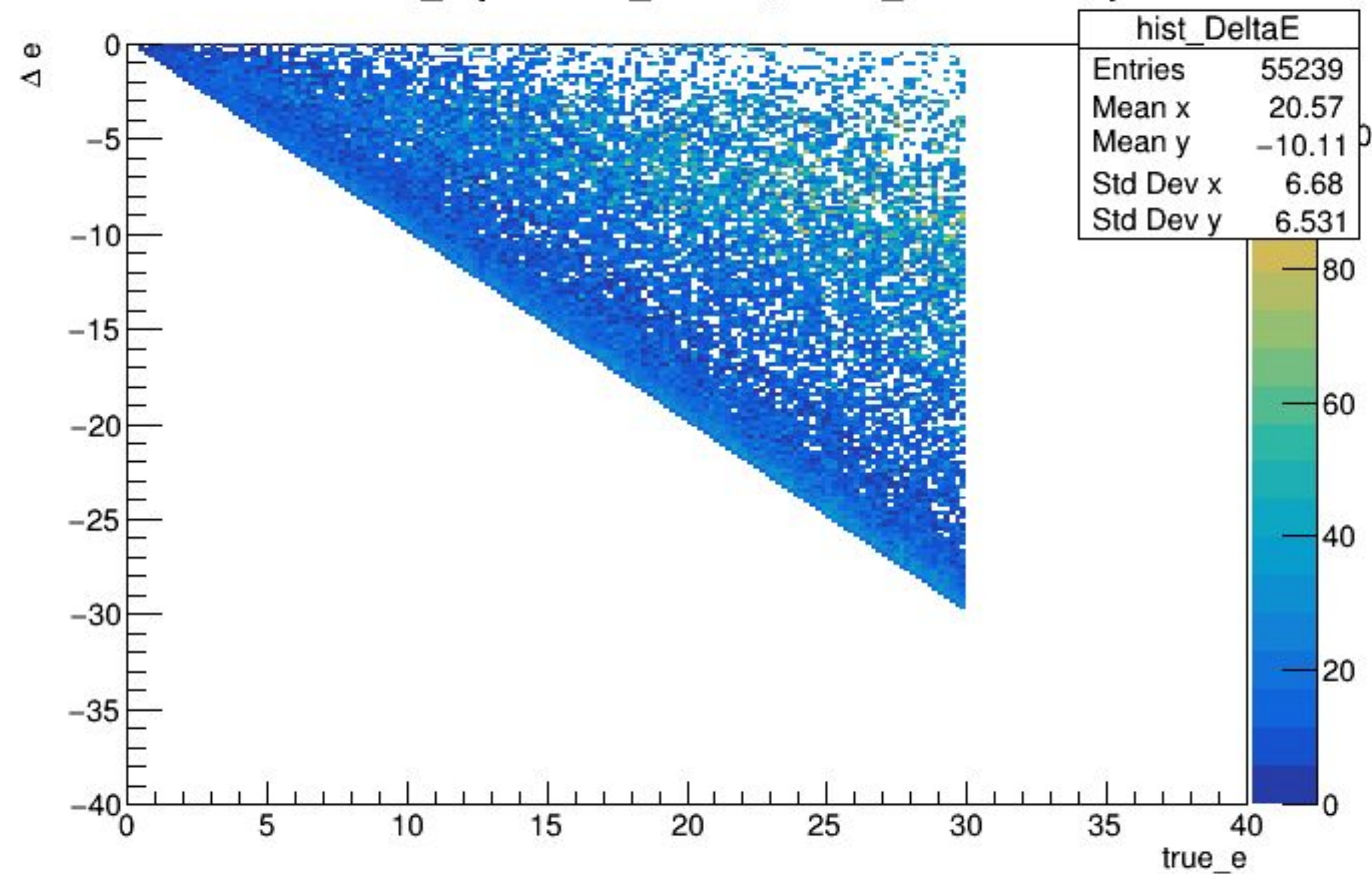
HCALOUT

Δe vs g_e

Δe vs true_e



Δe vs true_e $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$

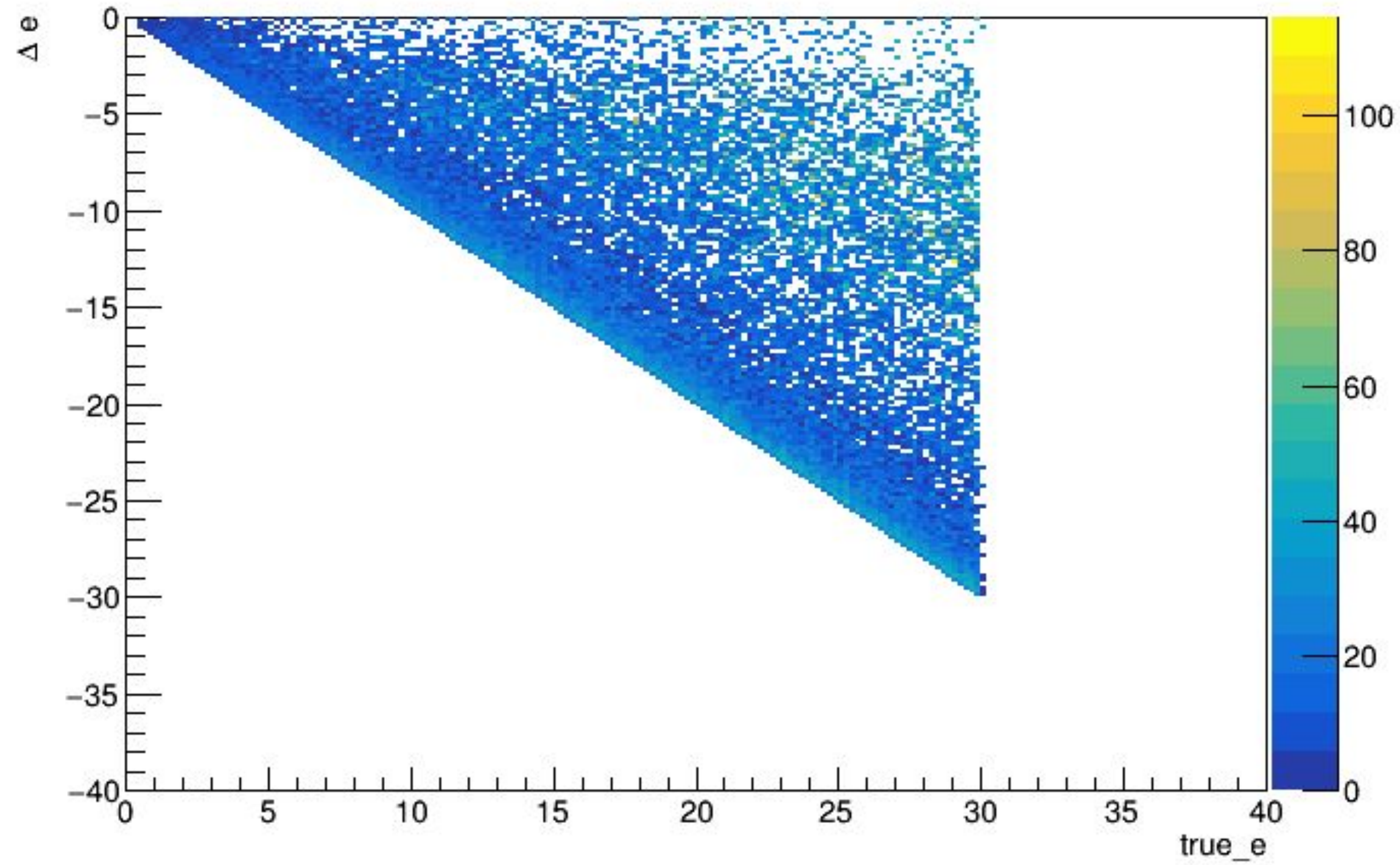


Pion

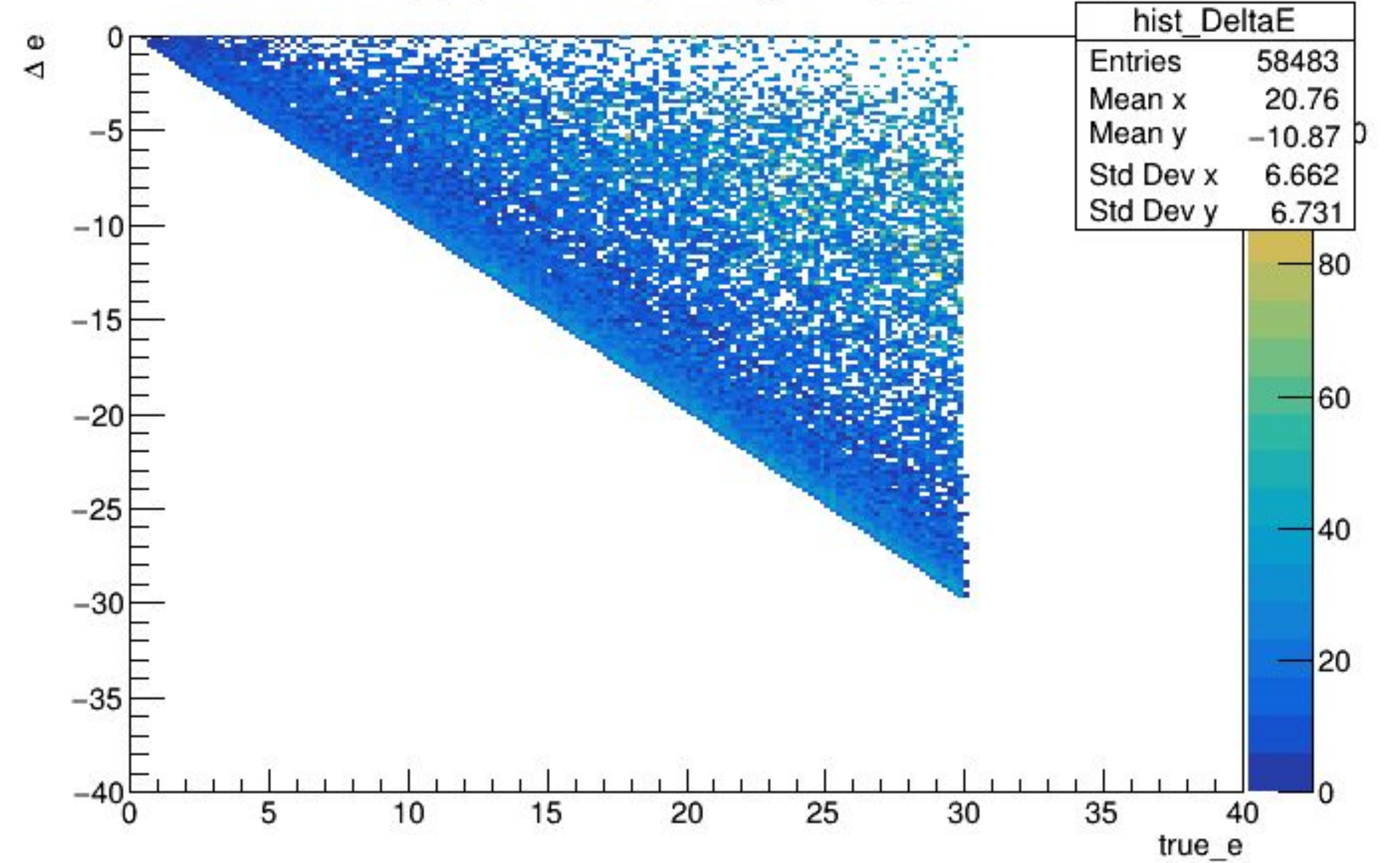
HCALOUT

Δe vs g_e

Δe vs true_e



Δe vs true_e $\{-4 < \text{true_eta} < 4, \text{meas_e} > 0.2 \text{ GeV}\}$



Kaon



LOONEY TUNES



"That's all Folks!"