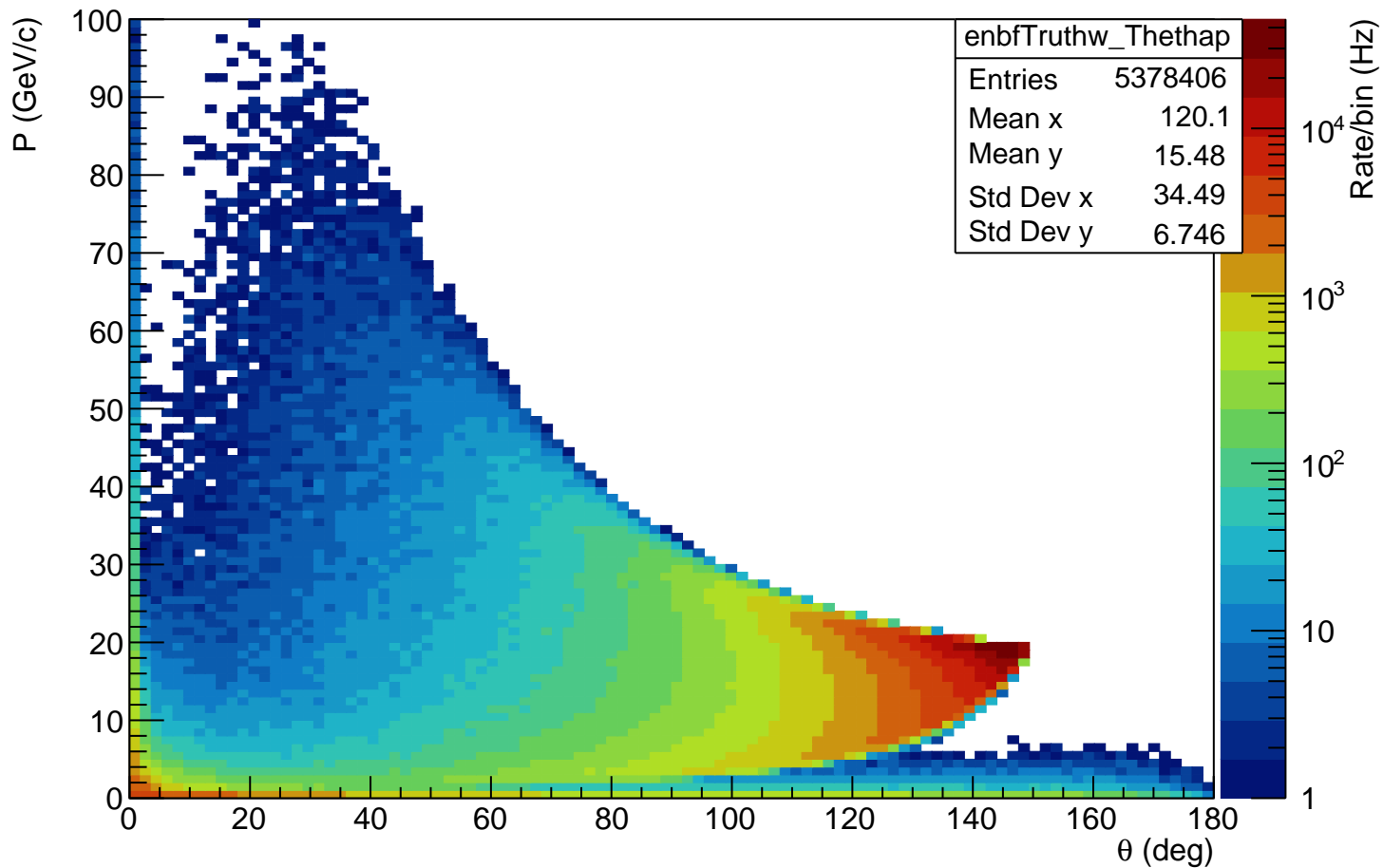
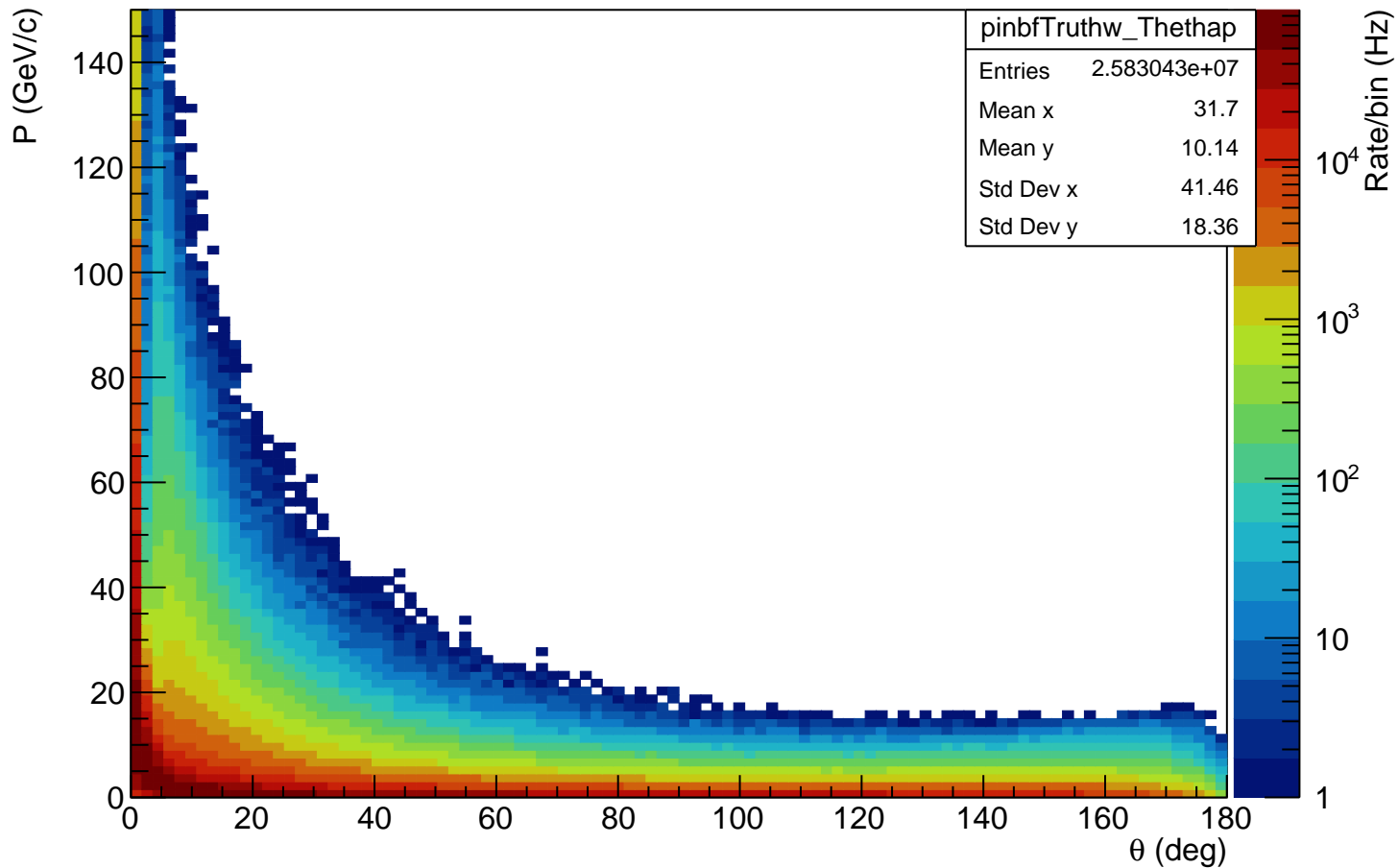


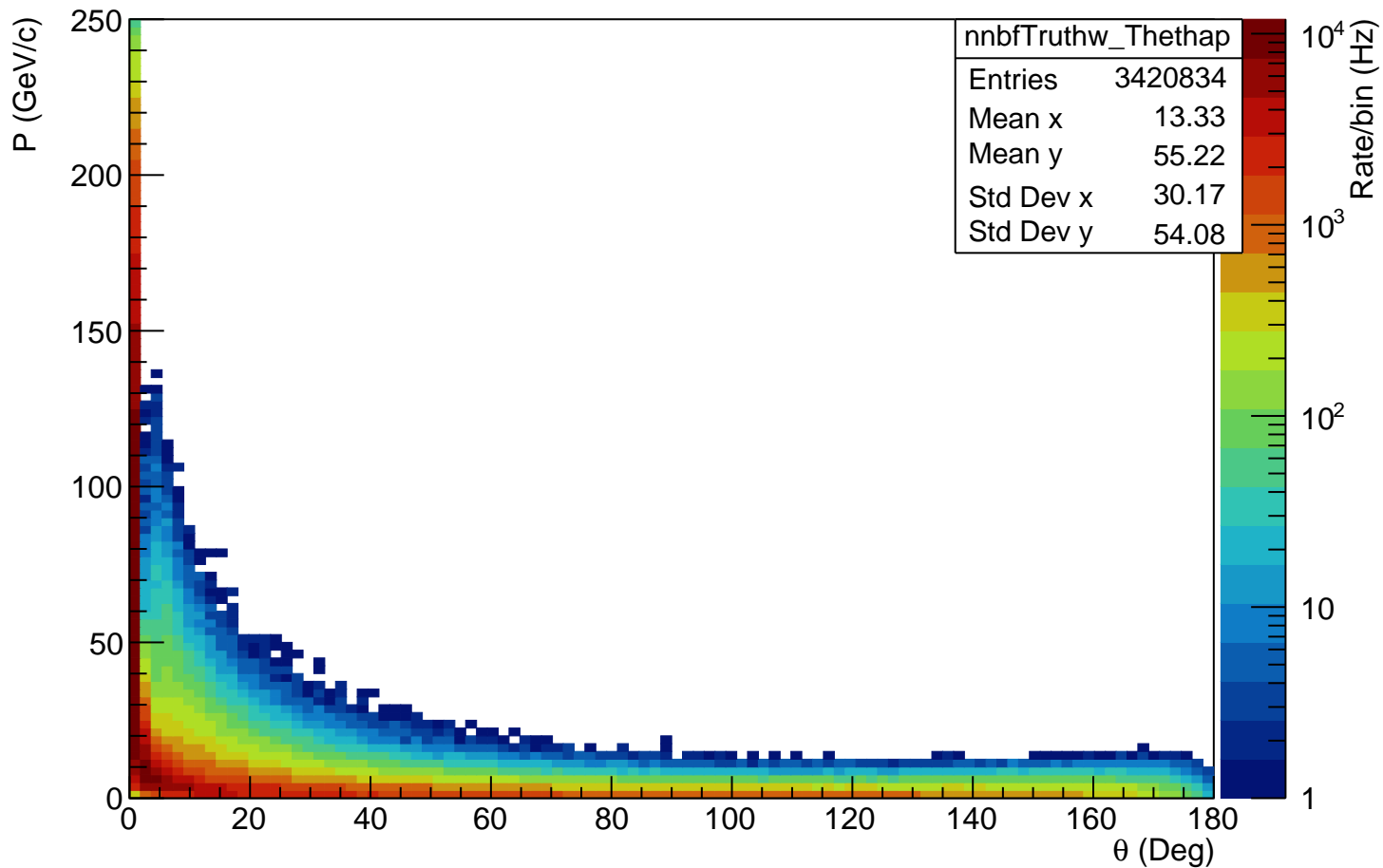
e' truth no beam effects θ vs P

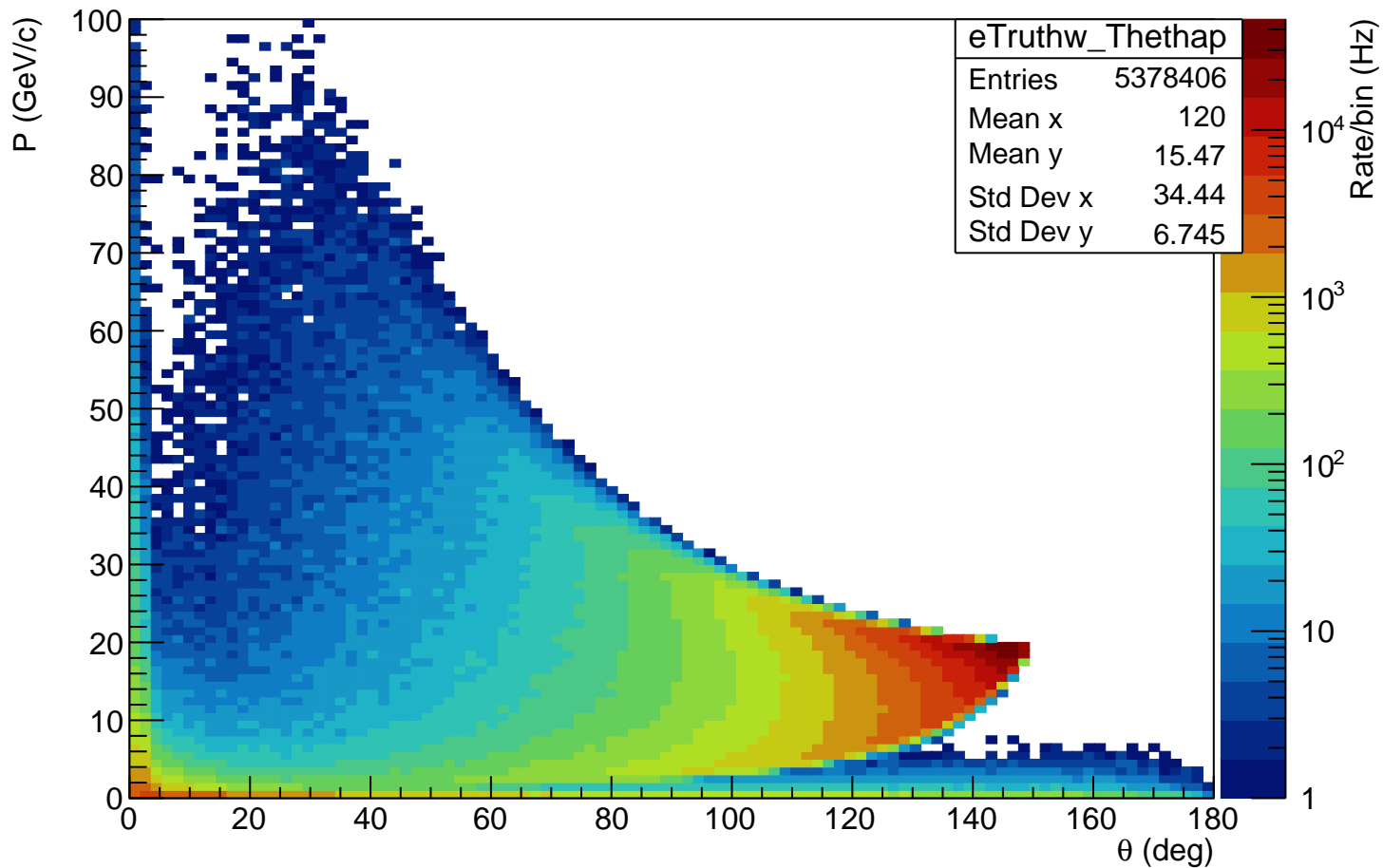


π^+ truth no beam effects θ vs P

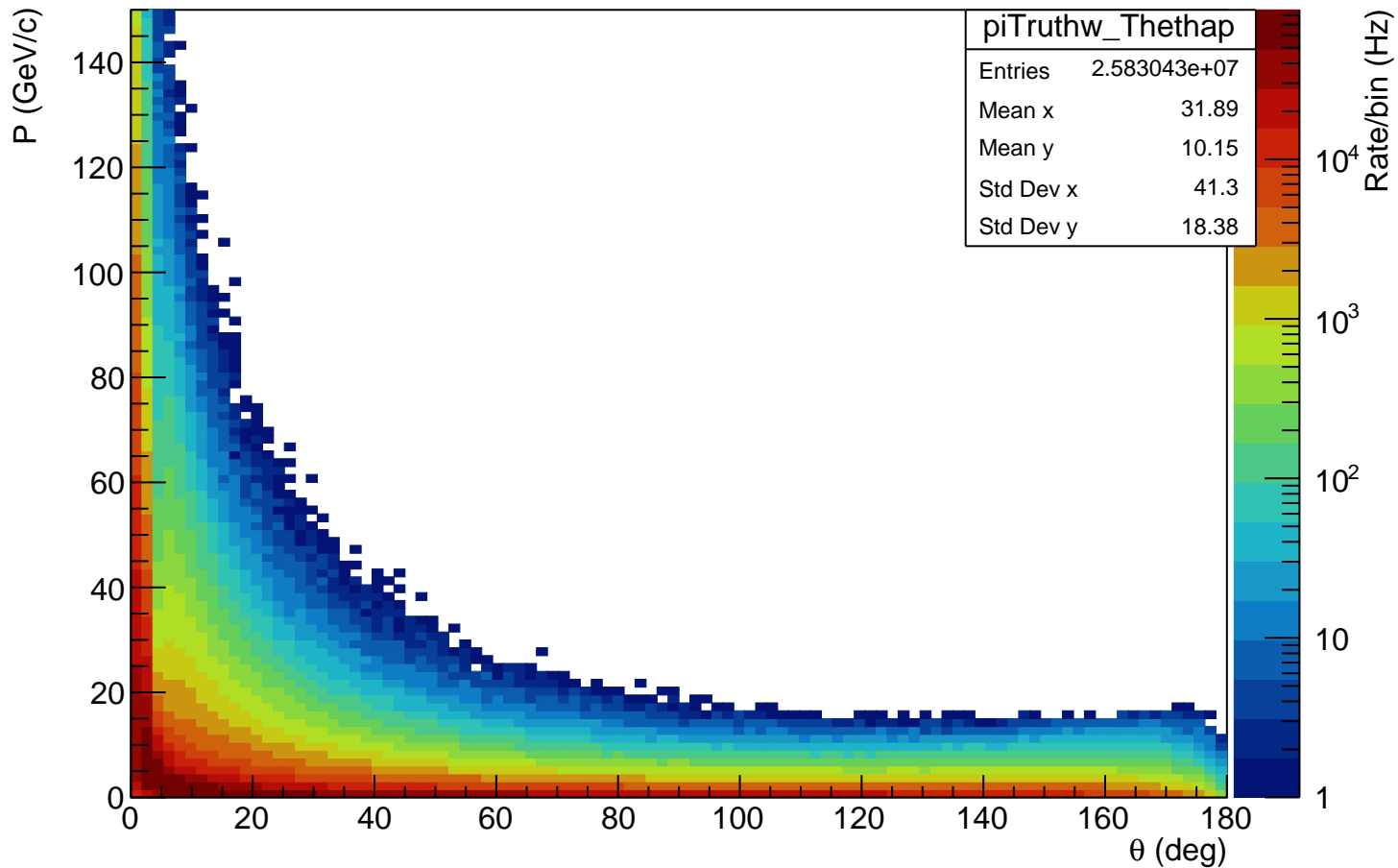


n truth no beam effects θ vs P

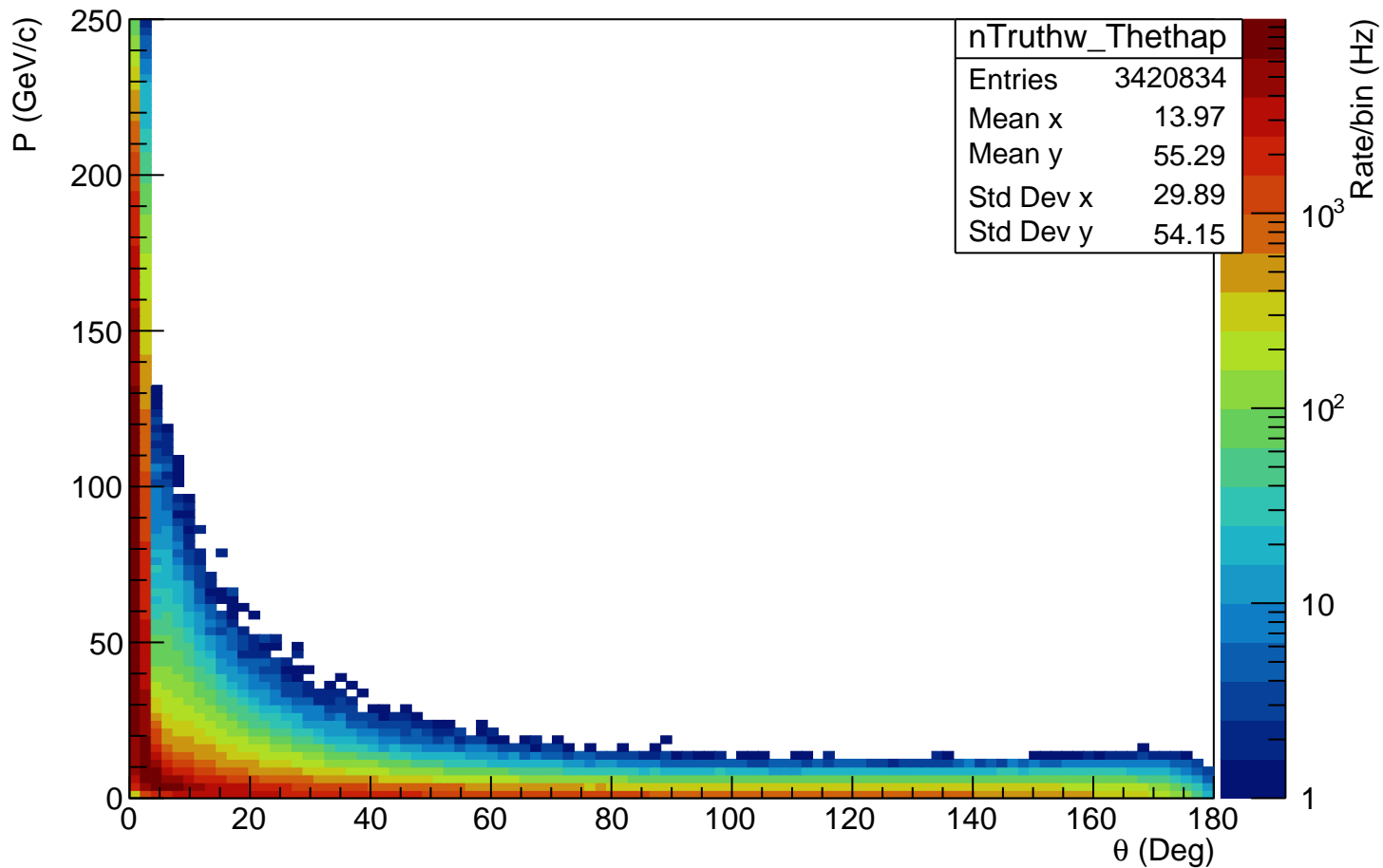


e' truth θ vs P

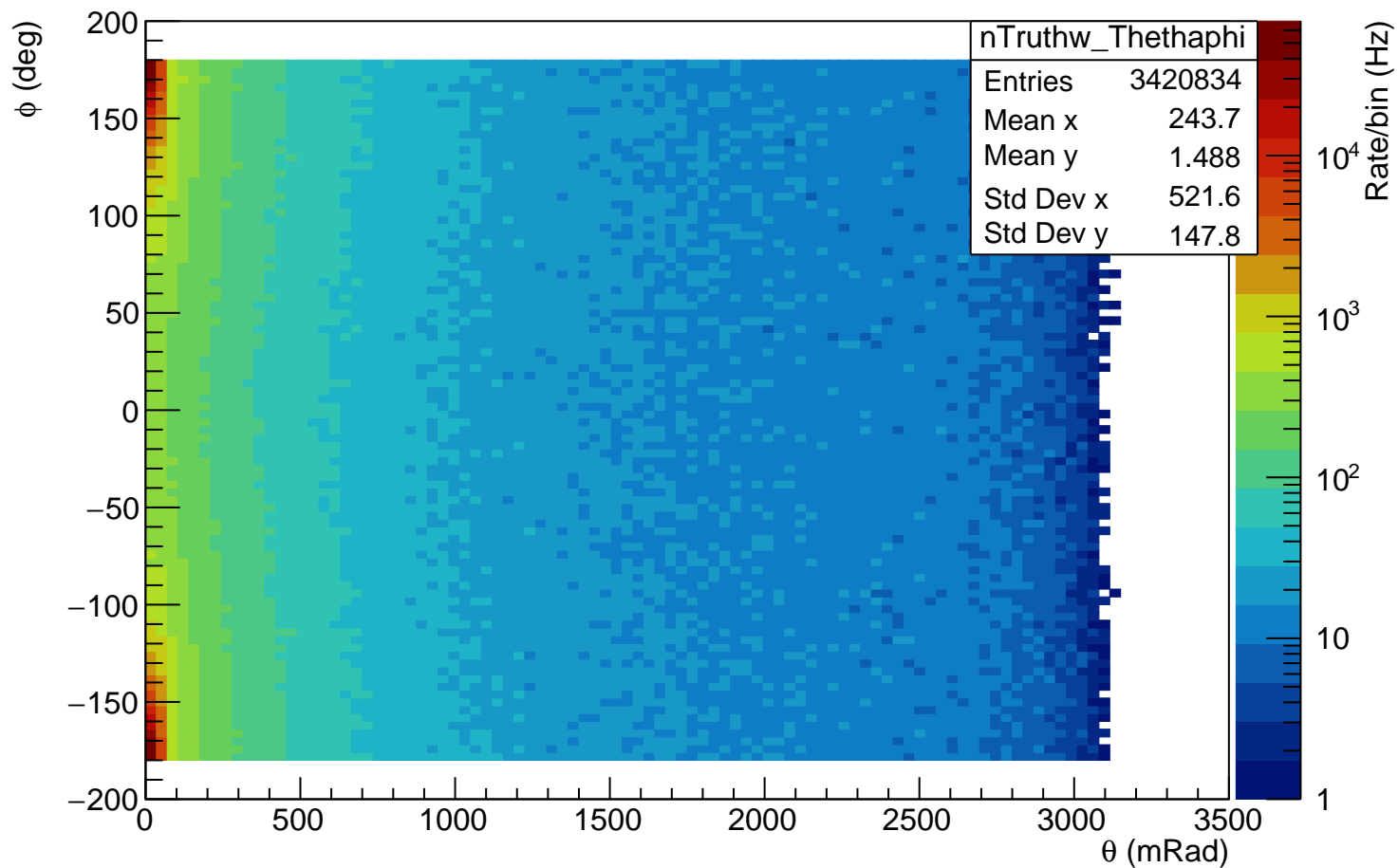
π^+ truth θ vs P



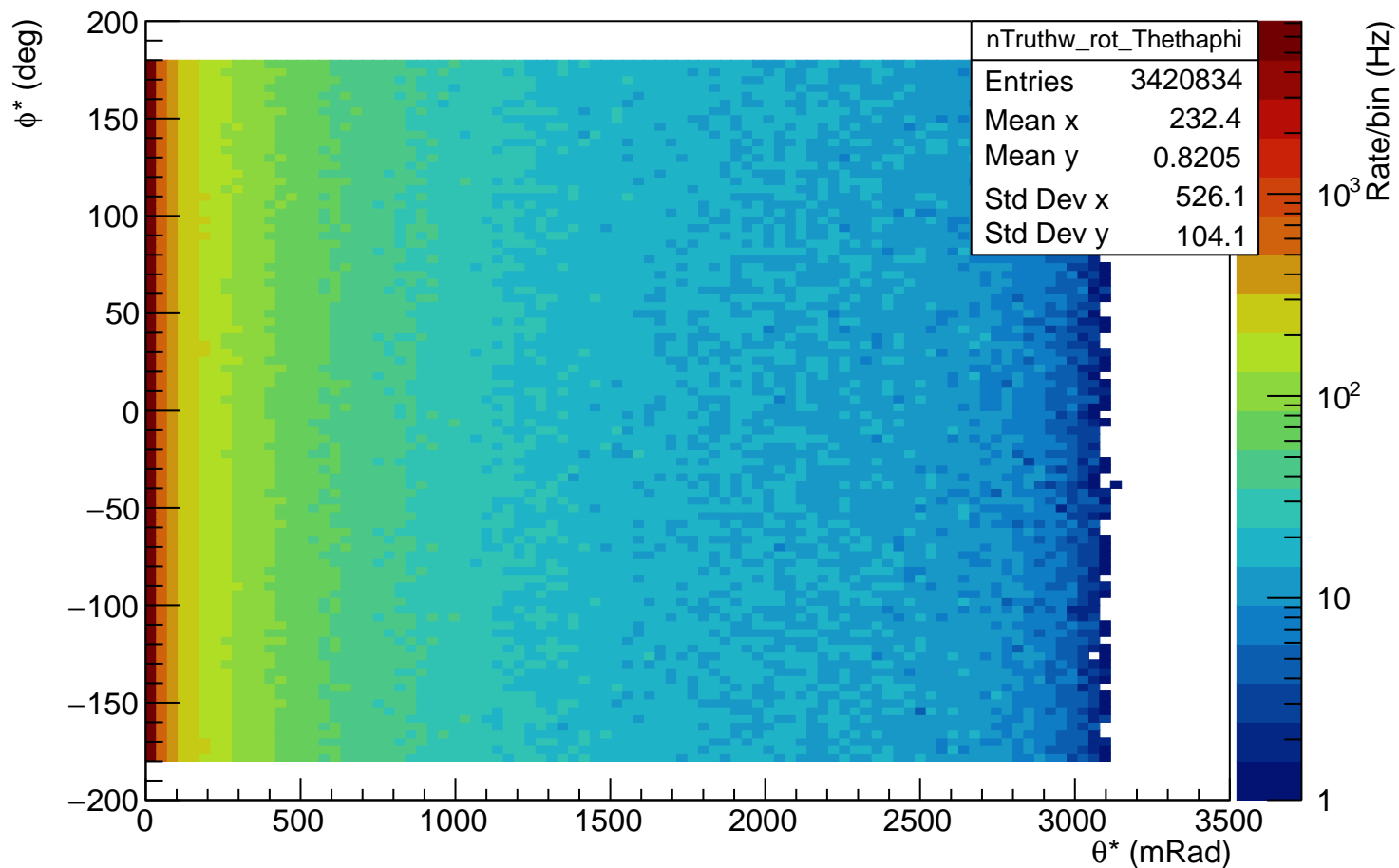
n truth θ vs P



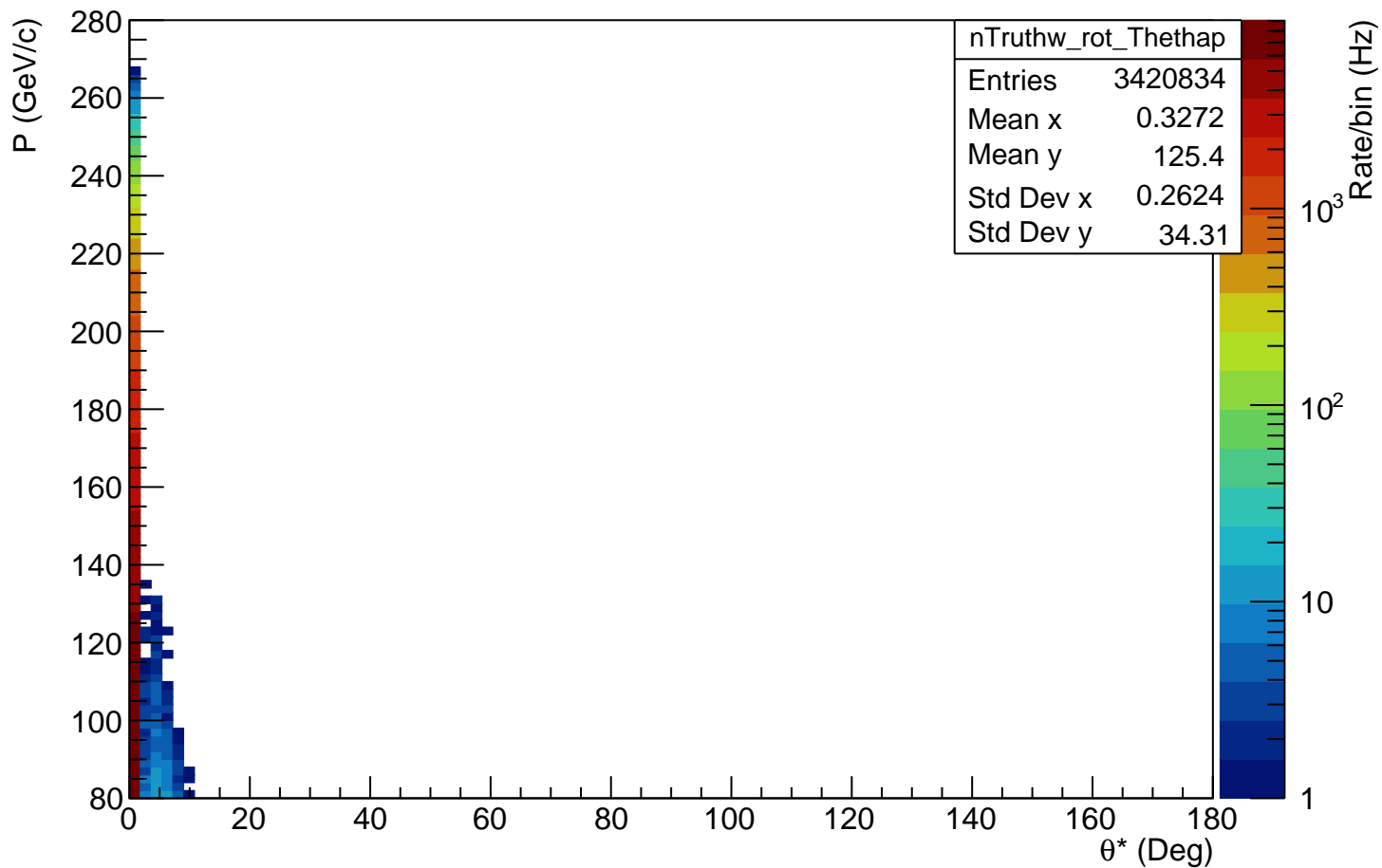
n truth θ vs ϕ

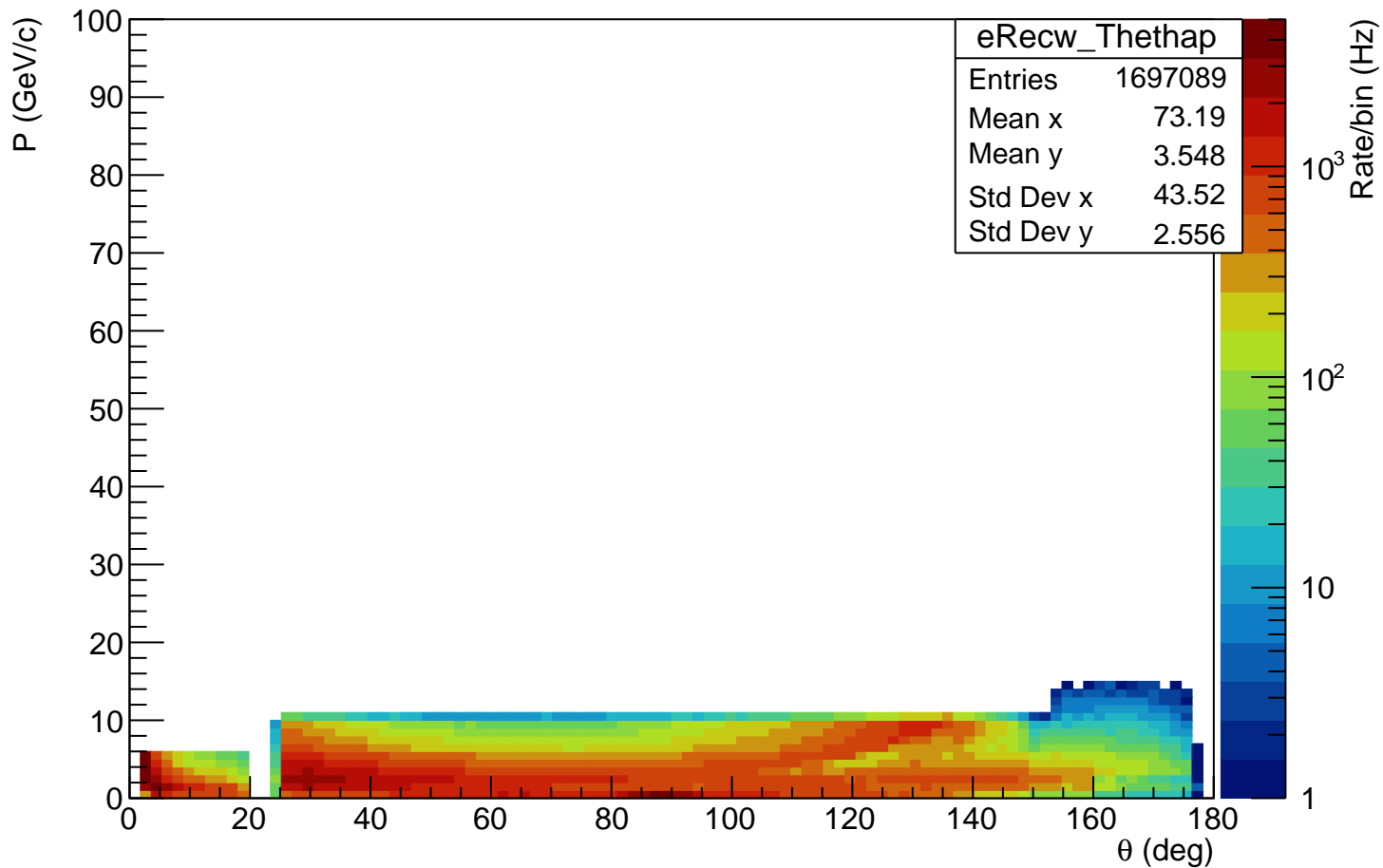


n truth θ^* vs ϕ^* around p axis

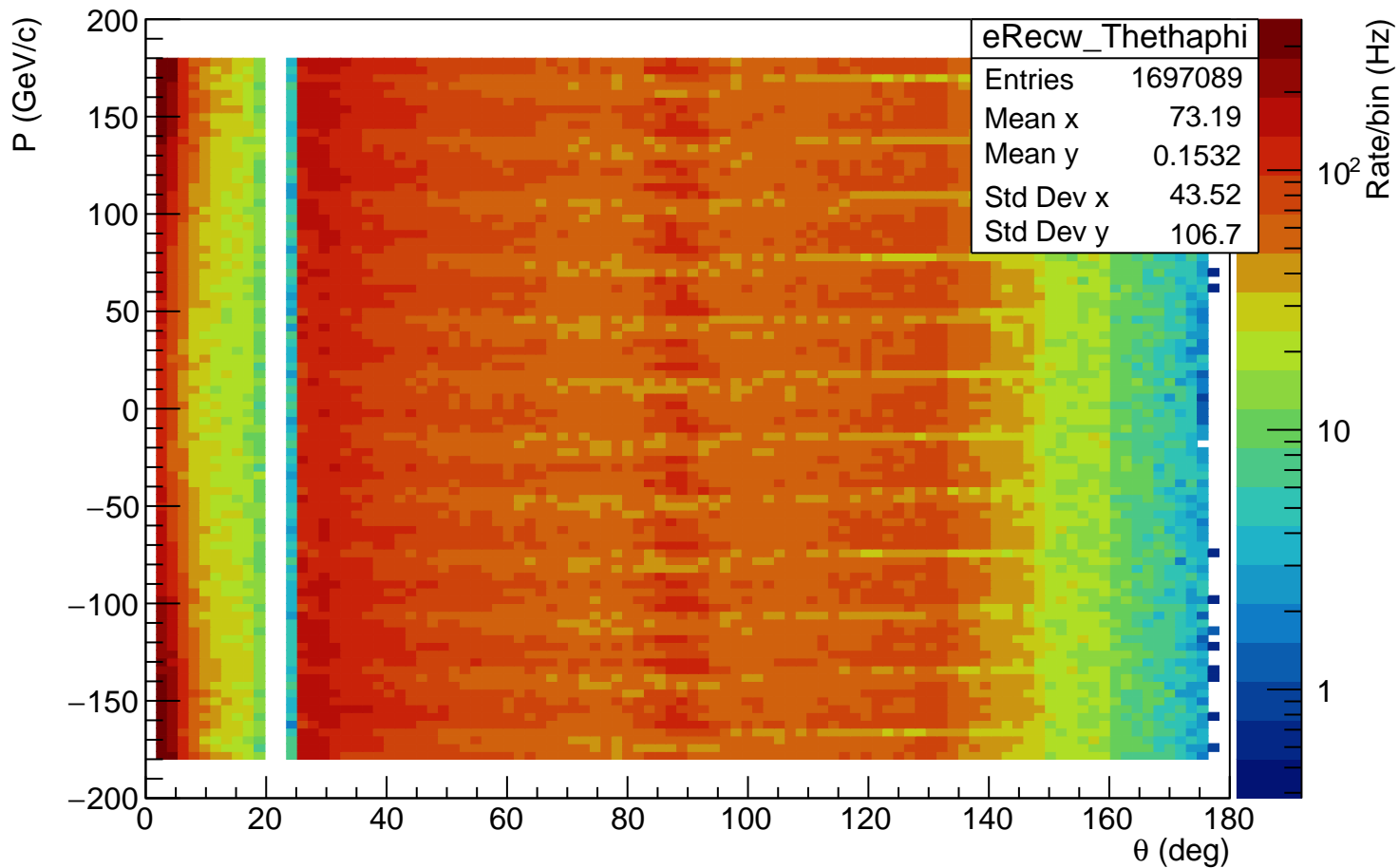


n truth θ^* vs P around p axis

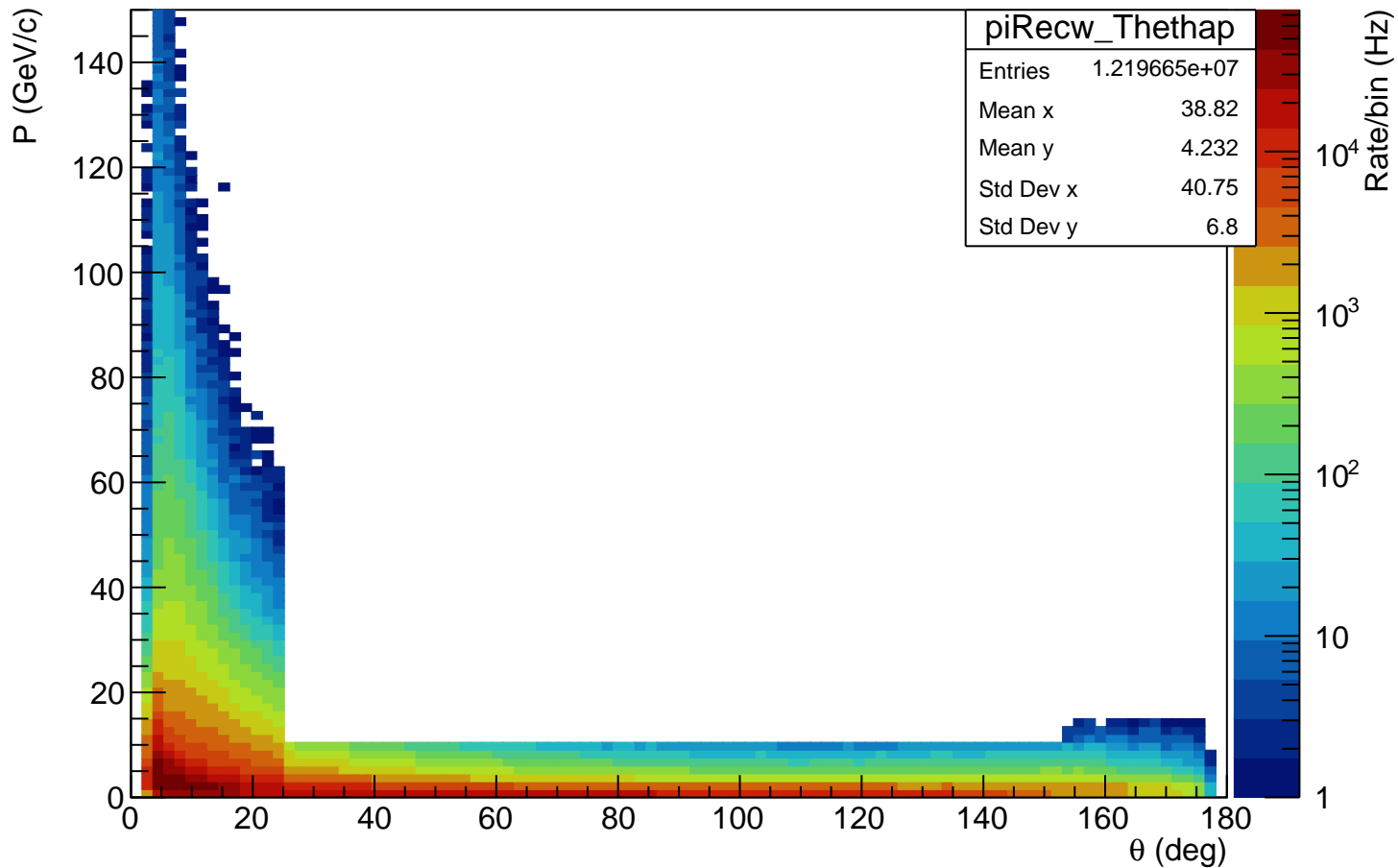


e' rec θ vs P

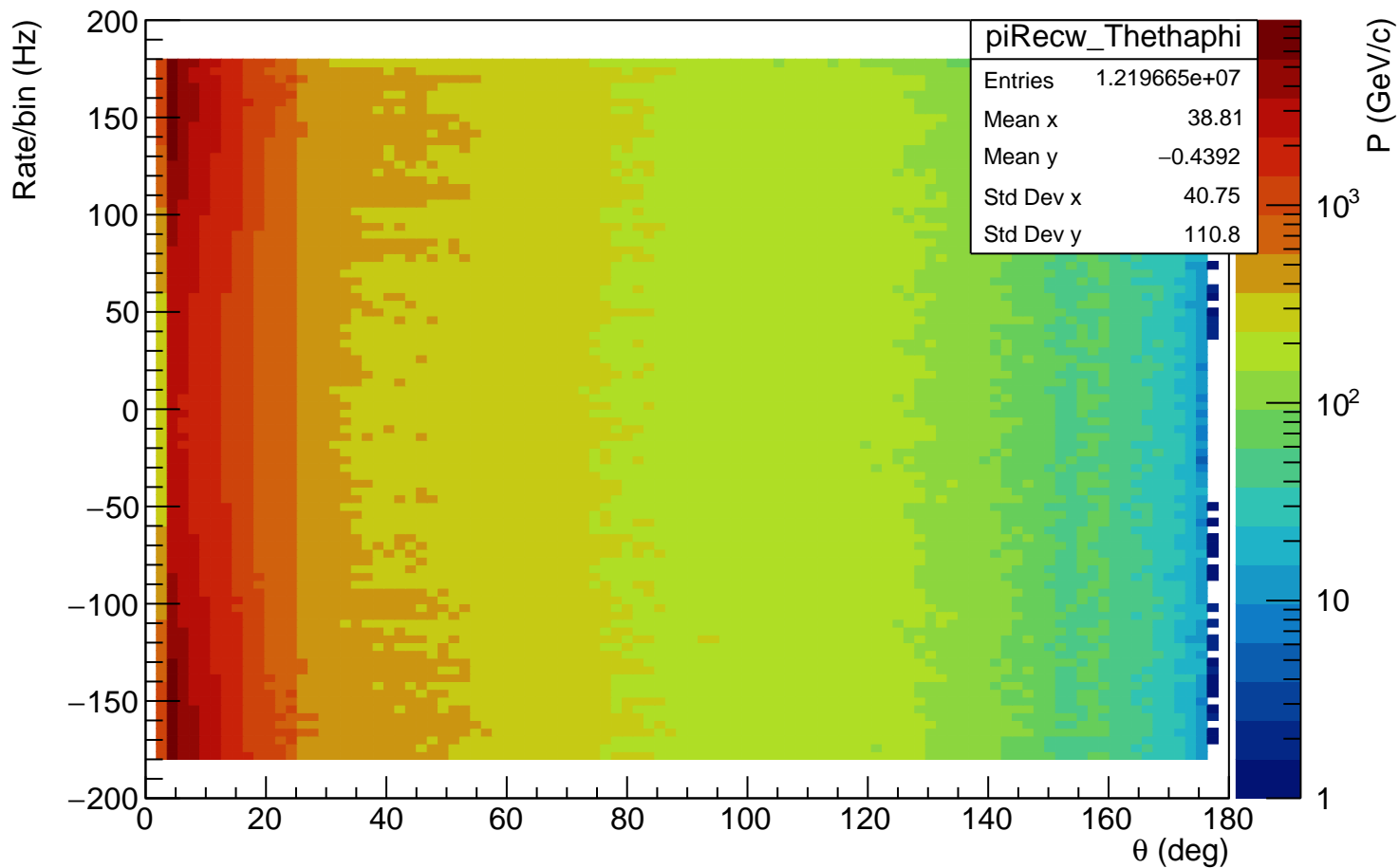
e' rec θ vs ϕ



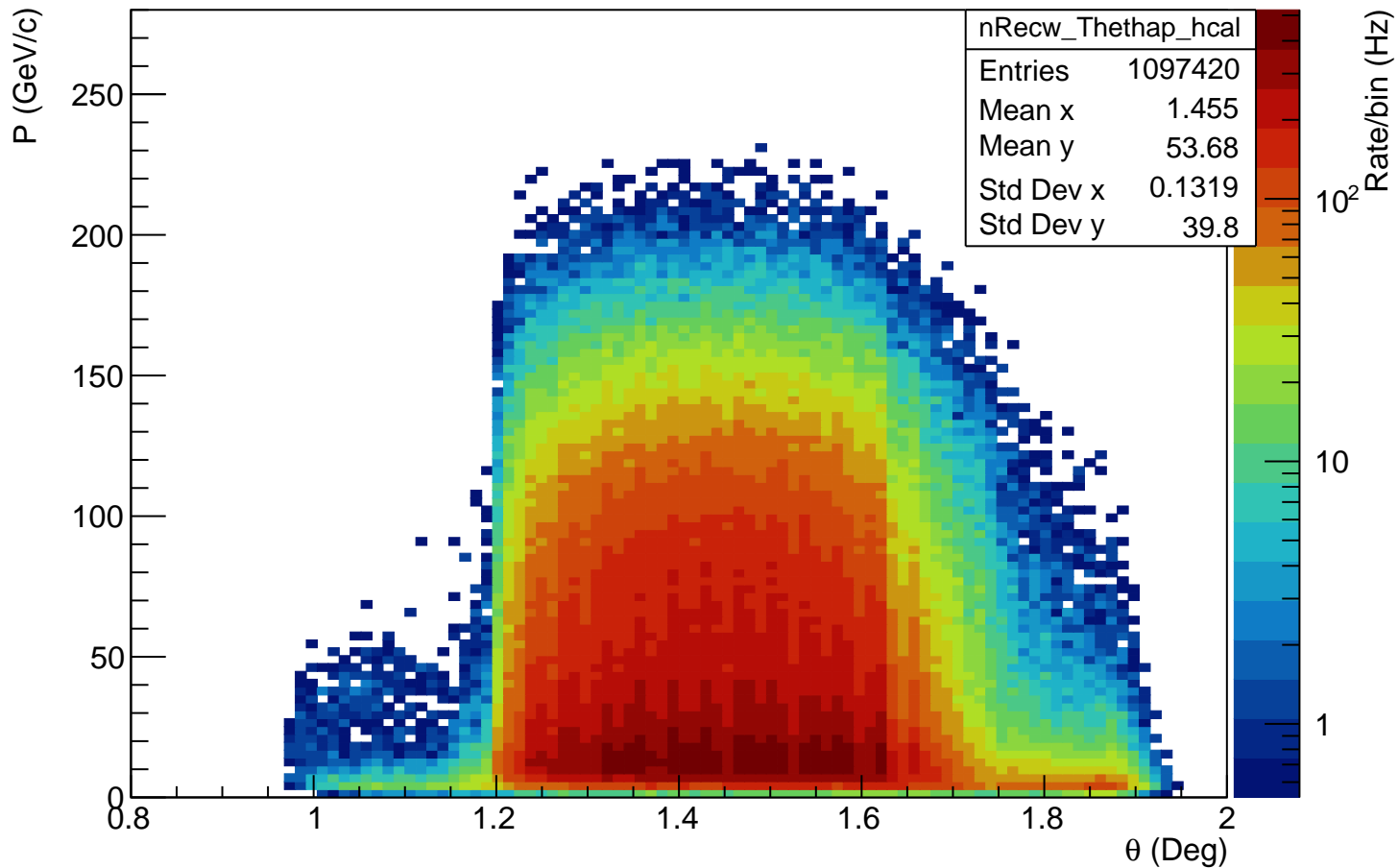
π^+ rec θ vs P



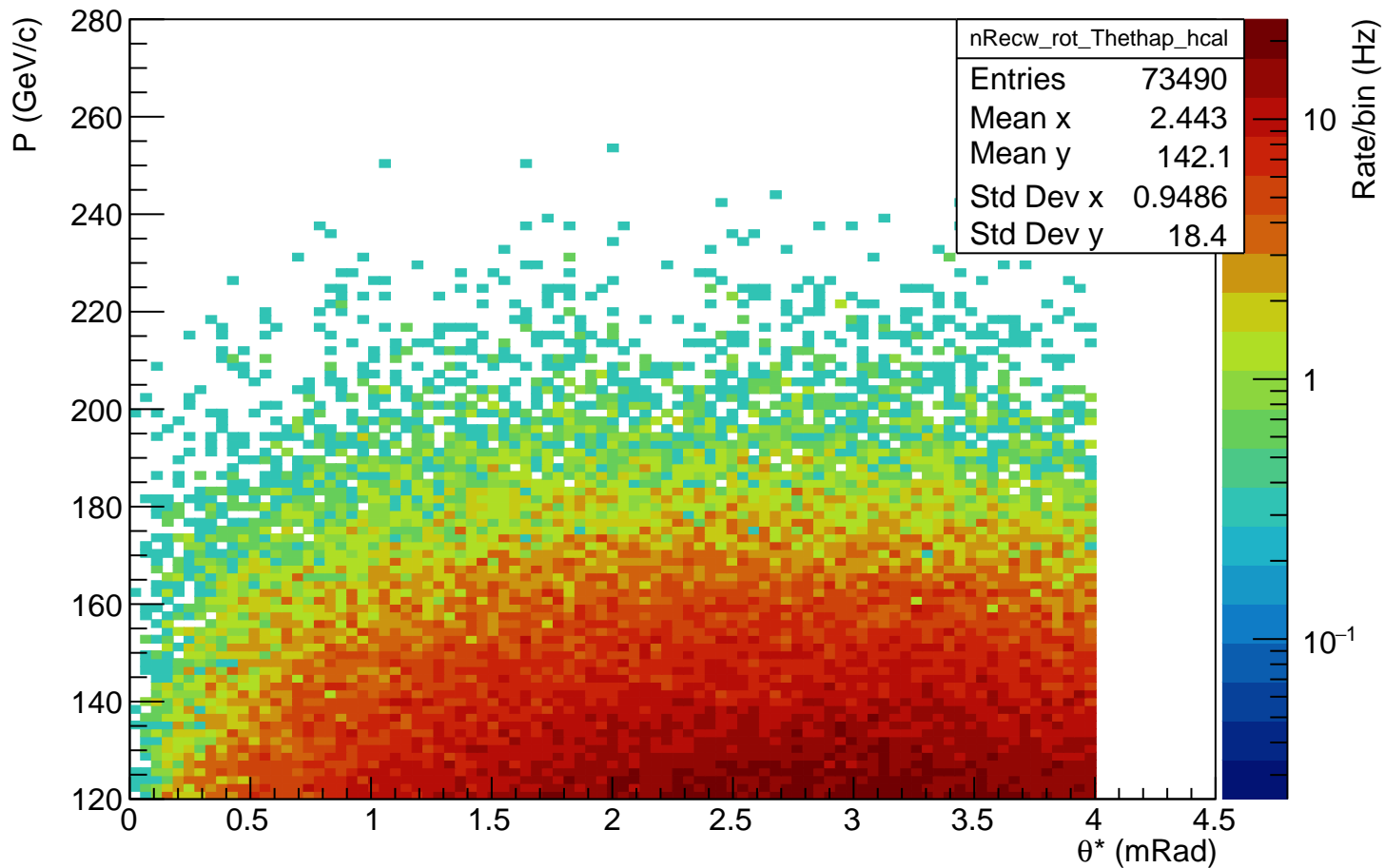
π^+ rec θ vs ϕ



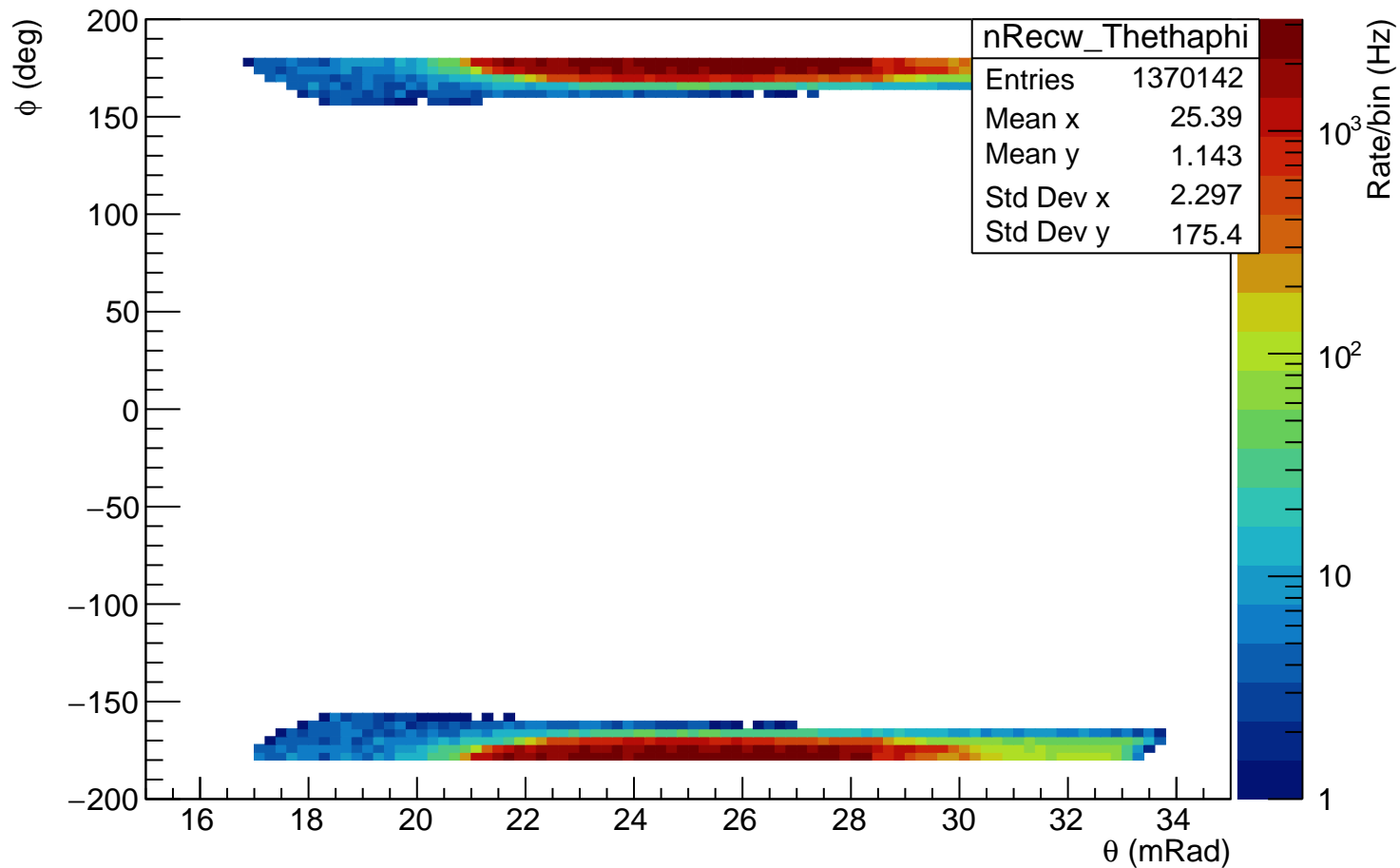
n rec θ vs P for 1 cluster events



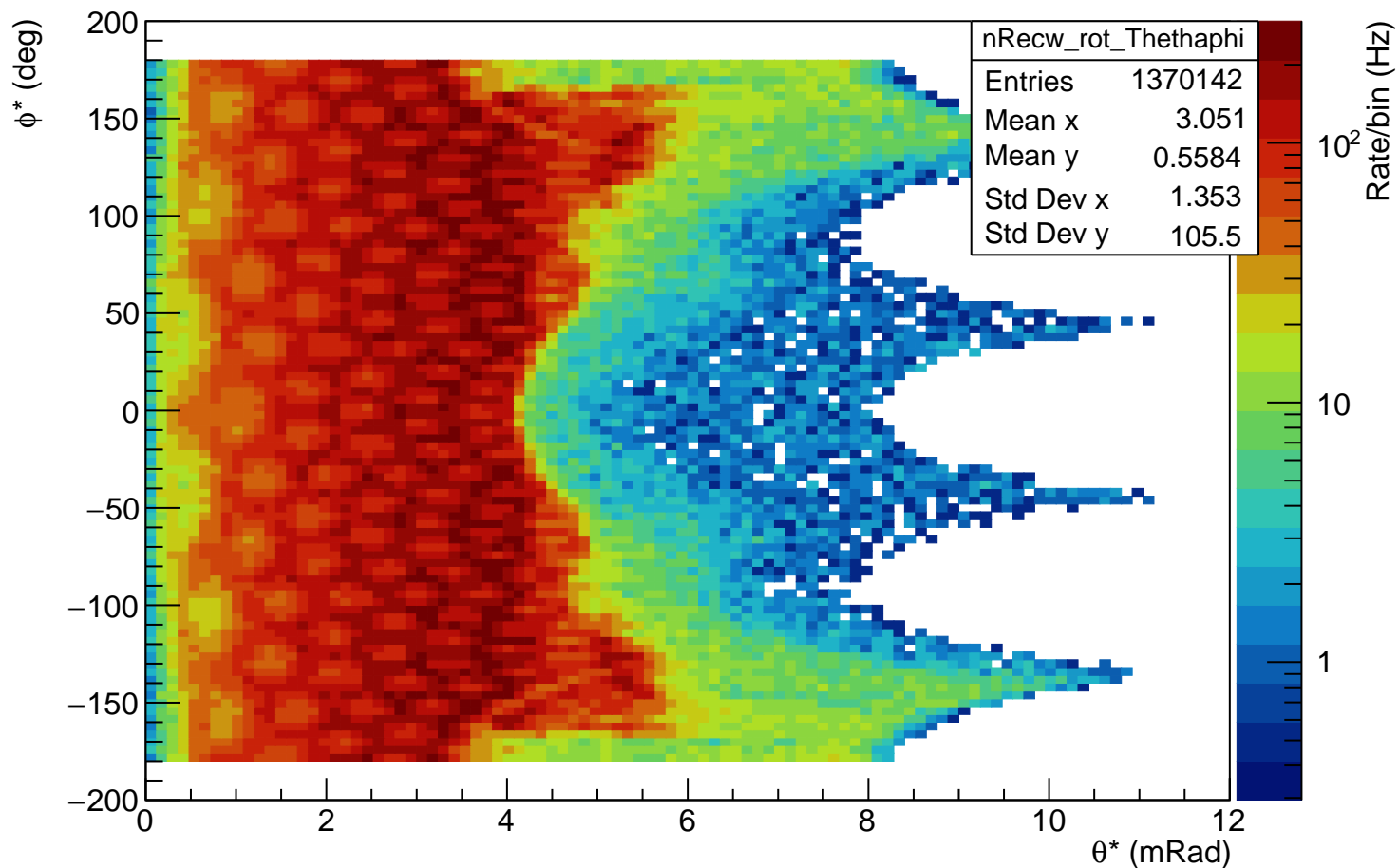
n rec θ^* vs P around p axis for 1 cluster events (rec $\theta^* < 4.0$ mRad, E > 120 GeV)



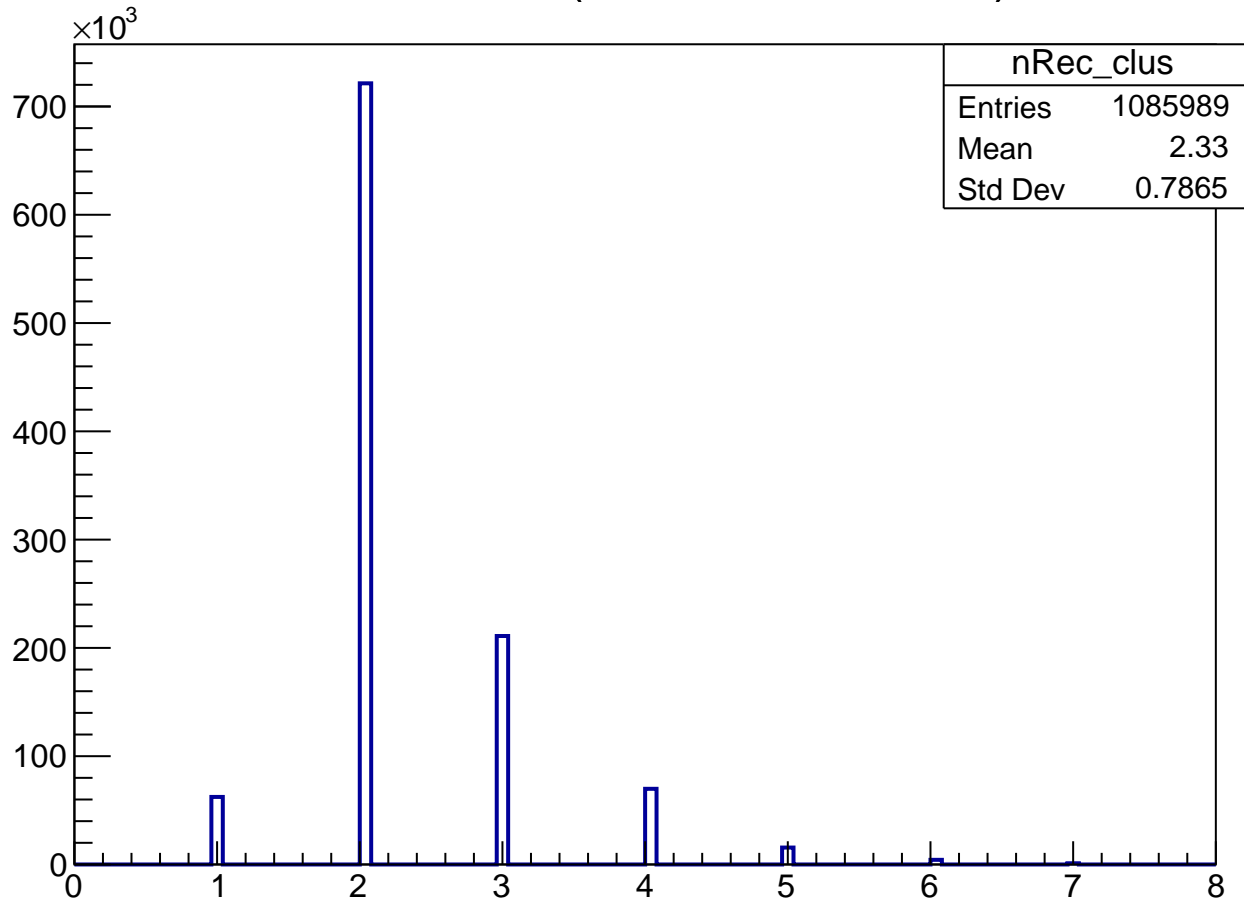
n rec θ vs ϕ for all clusters



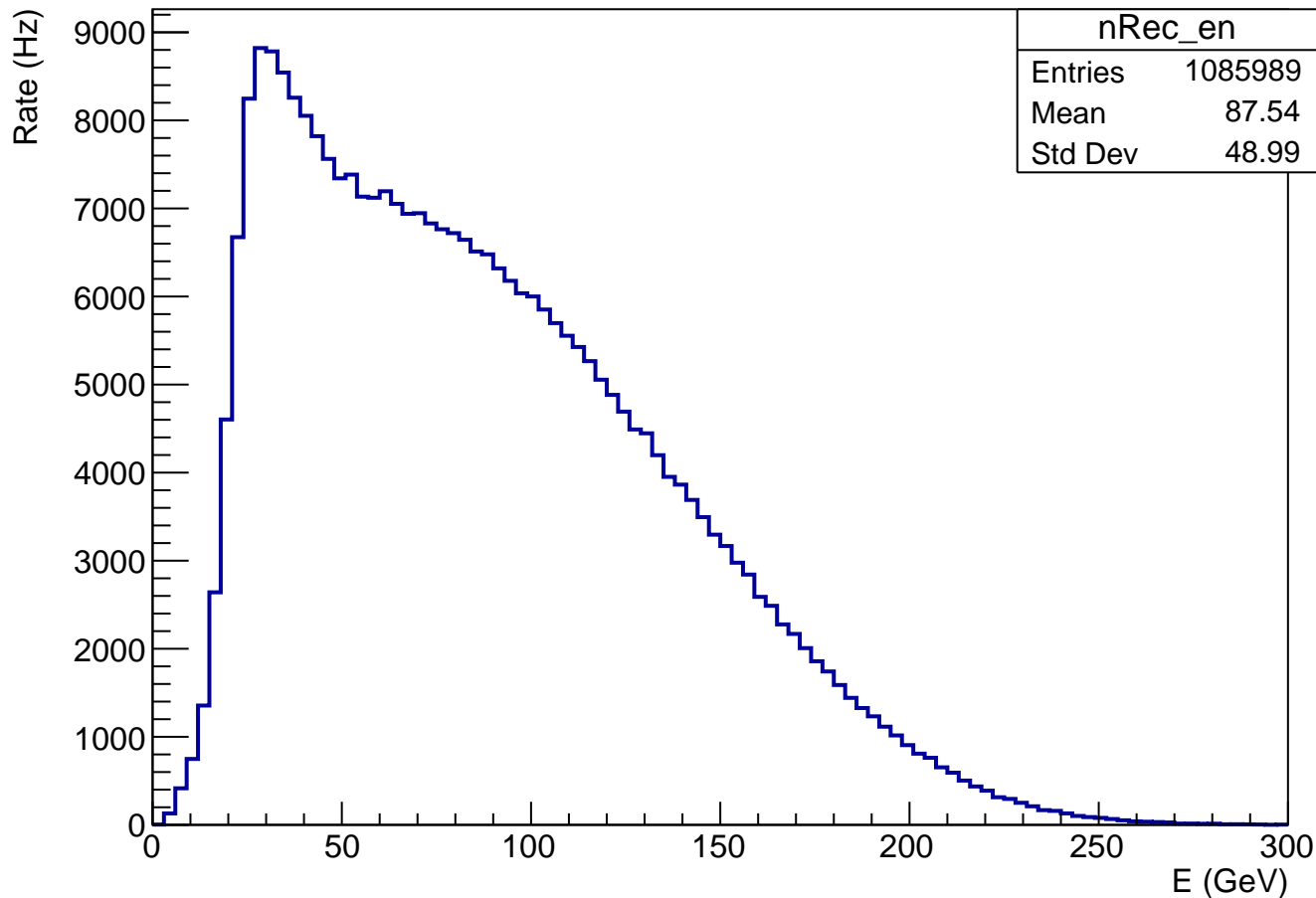
n rec θ^* vs ϕ^* around p axis for all clusters



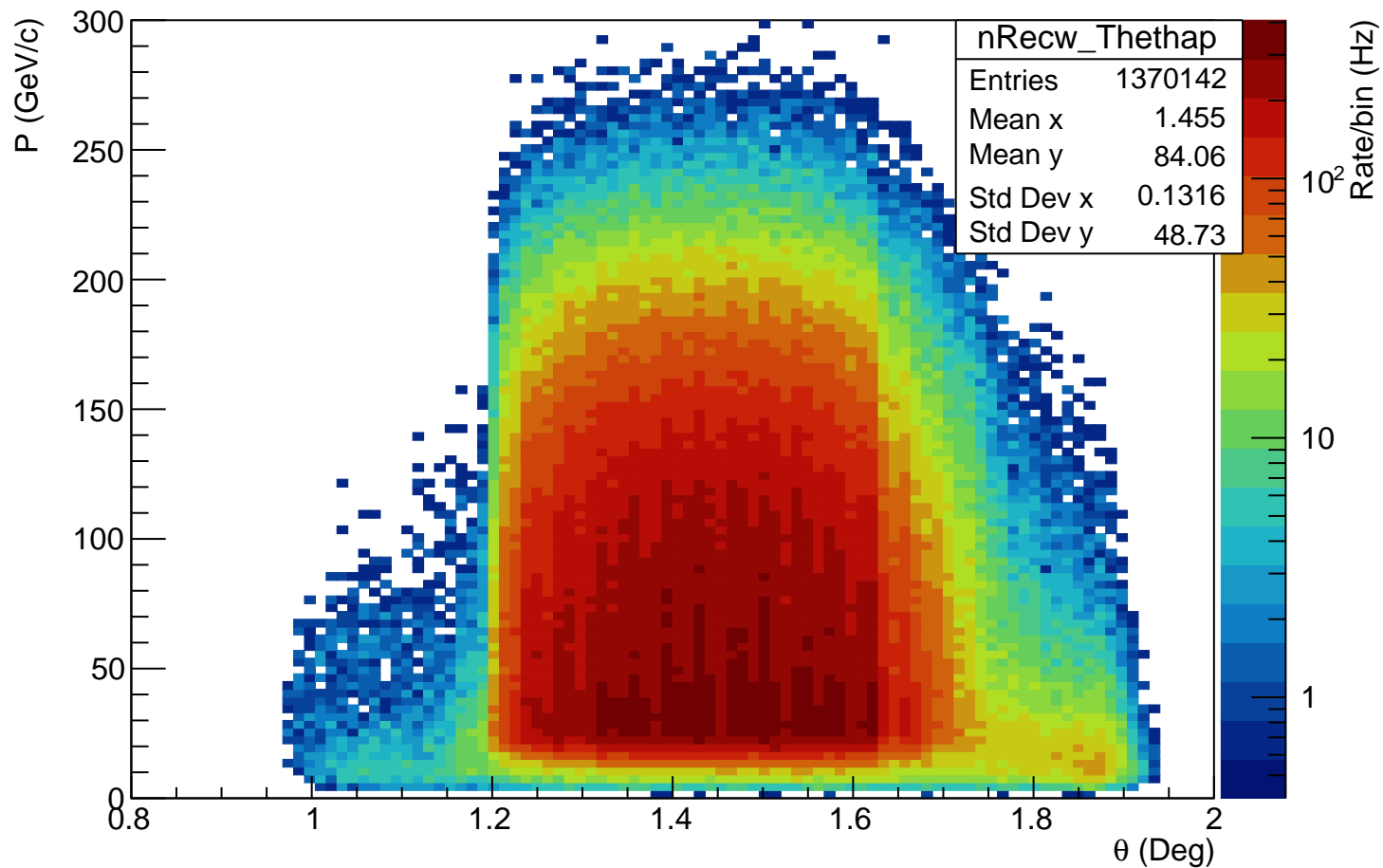
n all clusters (rec $\theta^* < 4.0$ mRad)



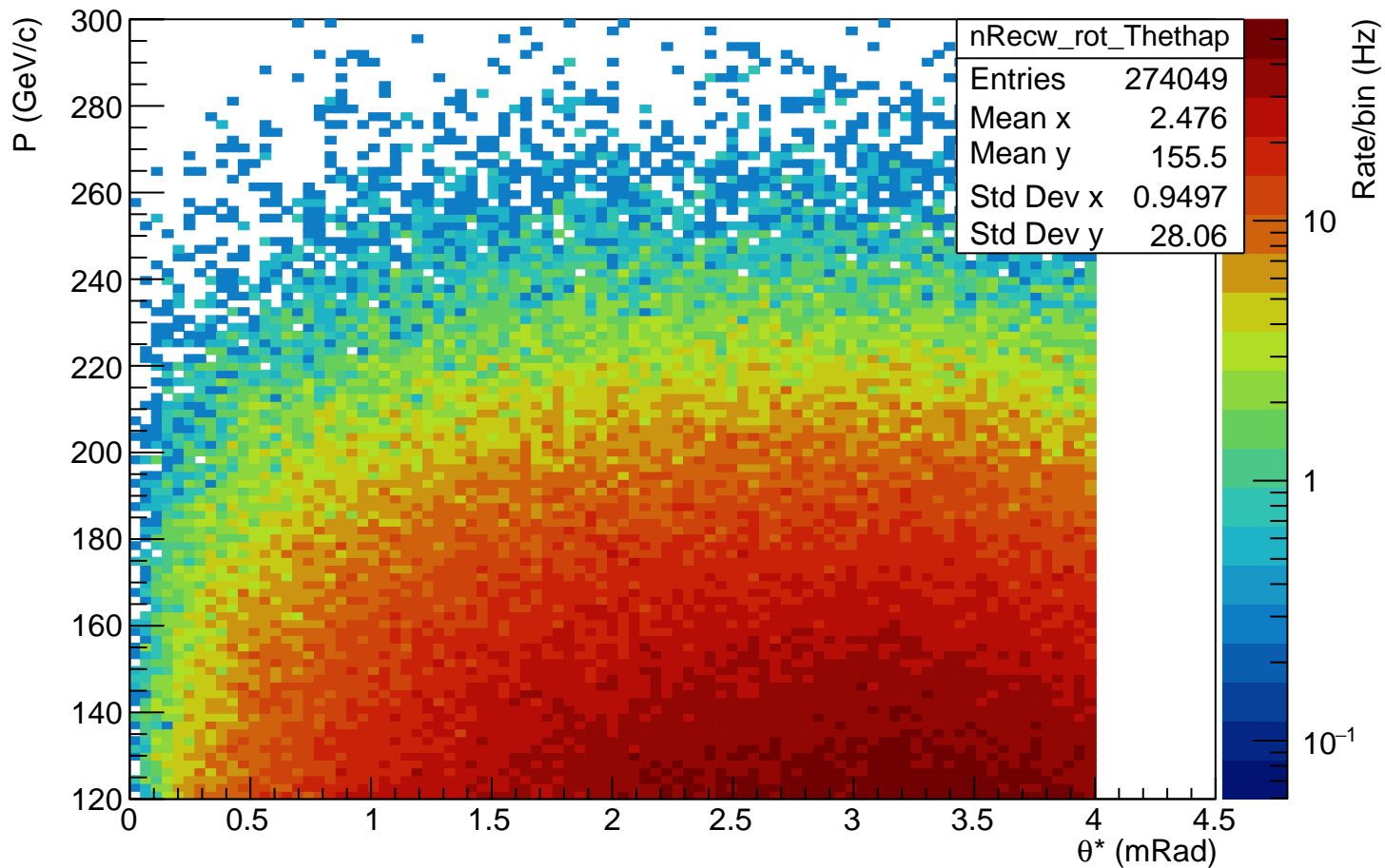
n rec E for all clusters (rec $\theta^* < 4.0$ mRad)



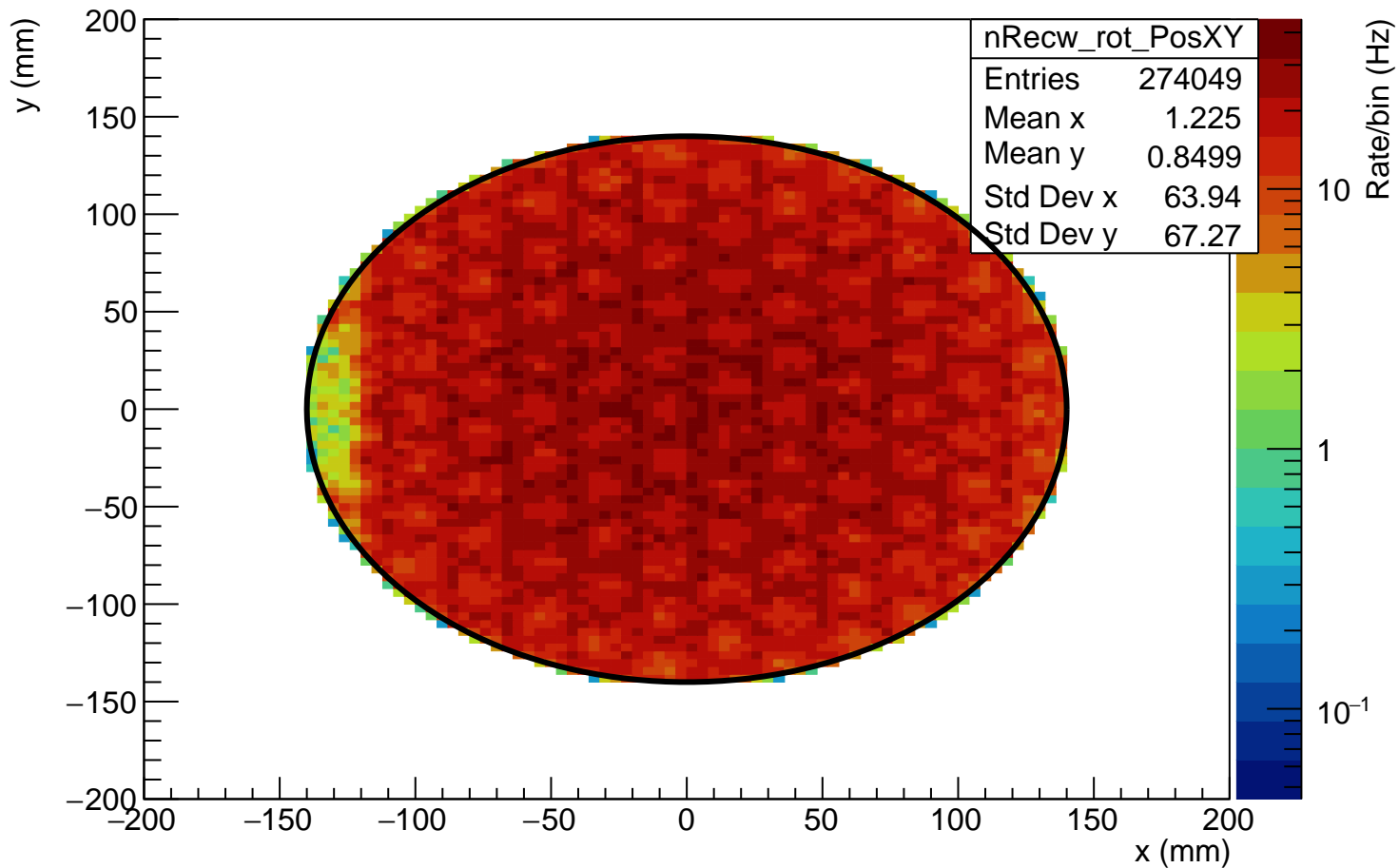
n rec θ vs P for all clusters



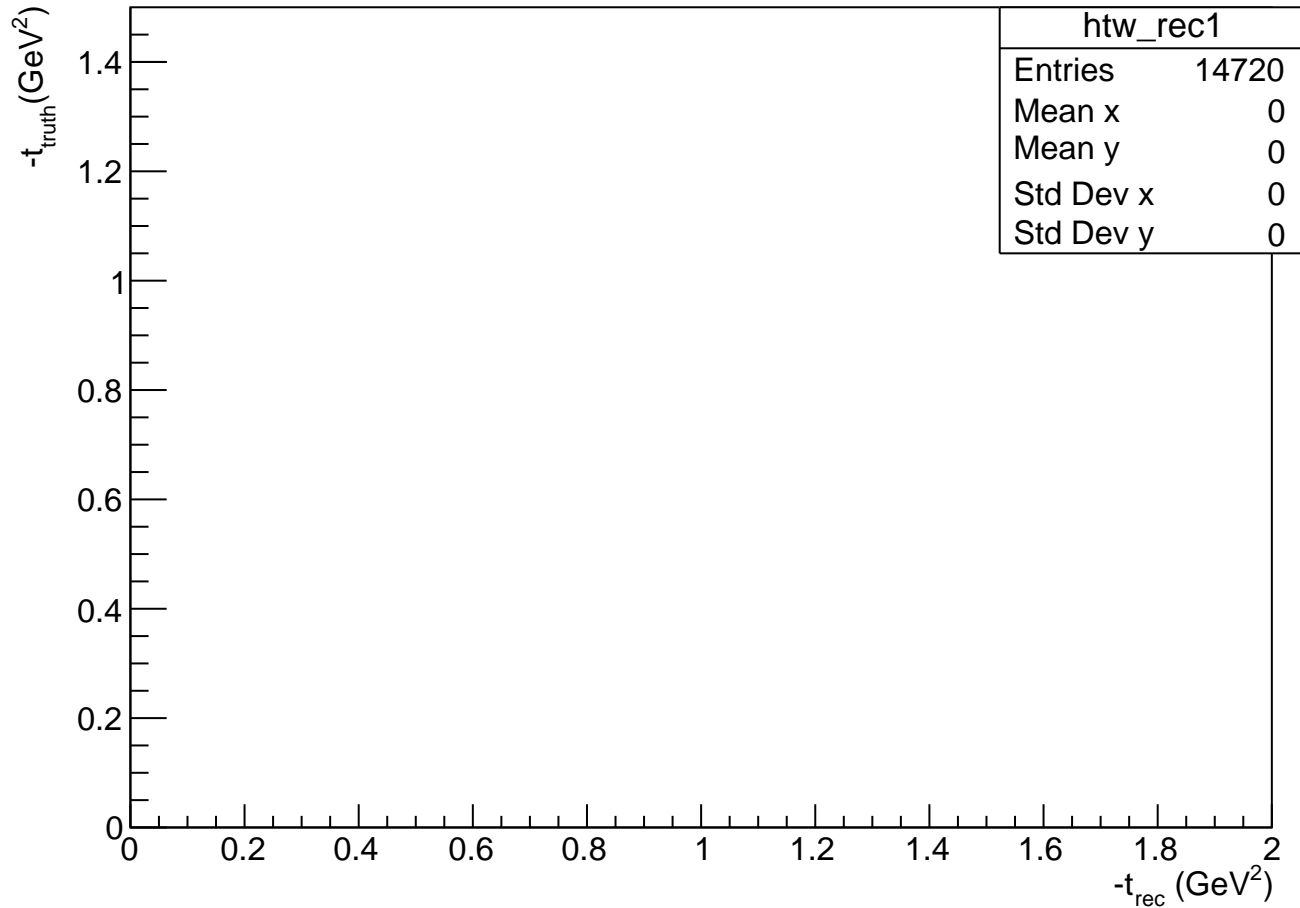
n rec θ^* vs P around p axis for all clusters (rec $\theta^* < 4.0$ mRad, $E > 120$ GeV)



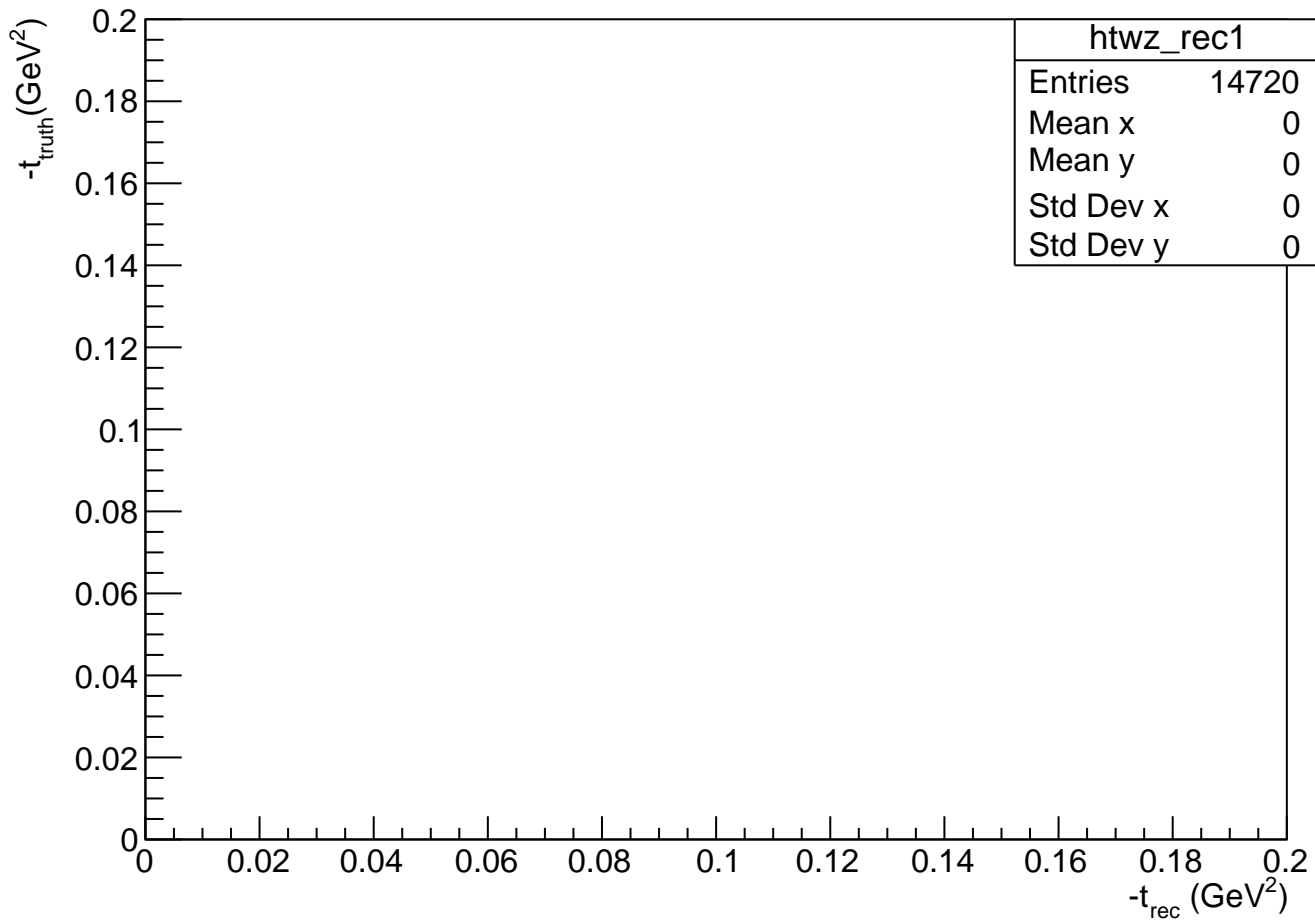
n X vs Y around proton axis at Z = 35 m for all clusters (rec $\theta^* < 4.0$ mRad, E > 120 GeV)



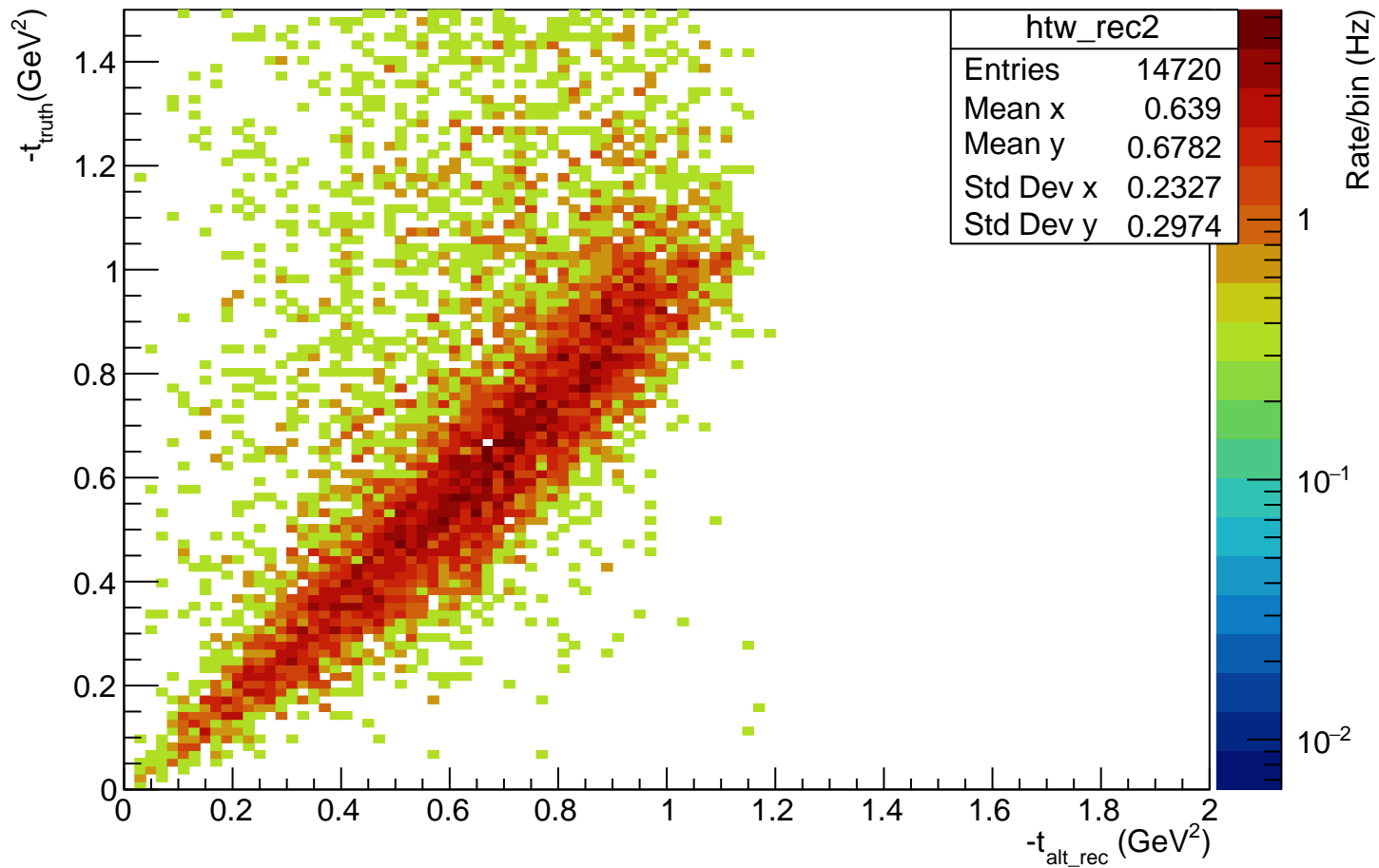
-t rec vs -t truth Distribution



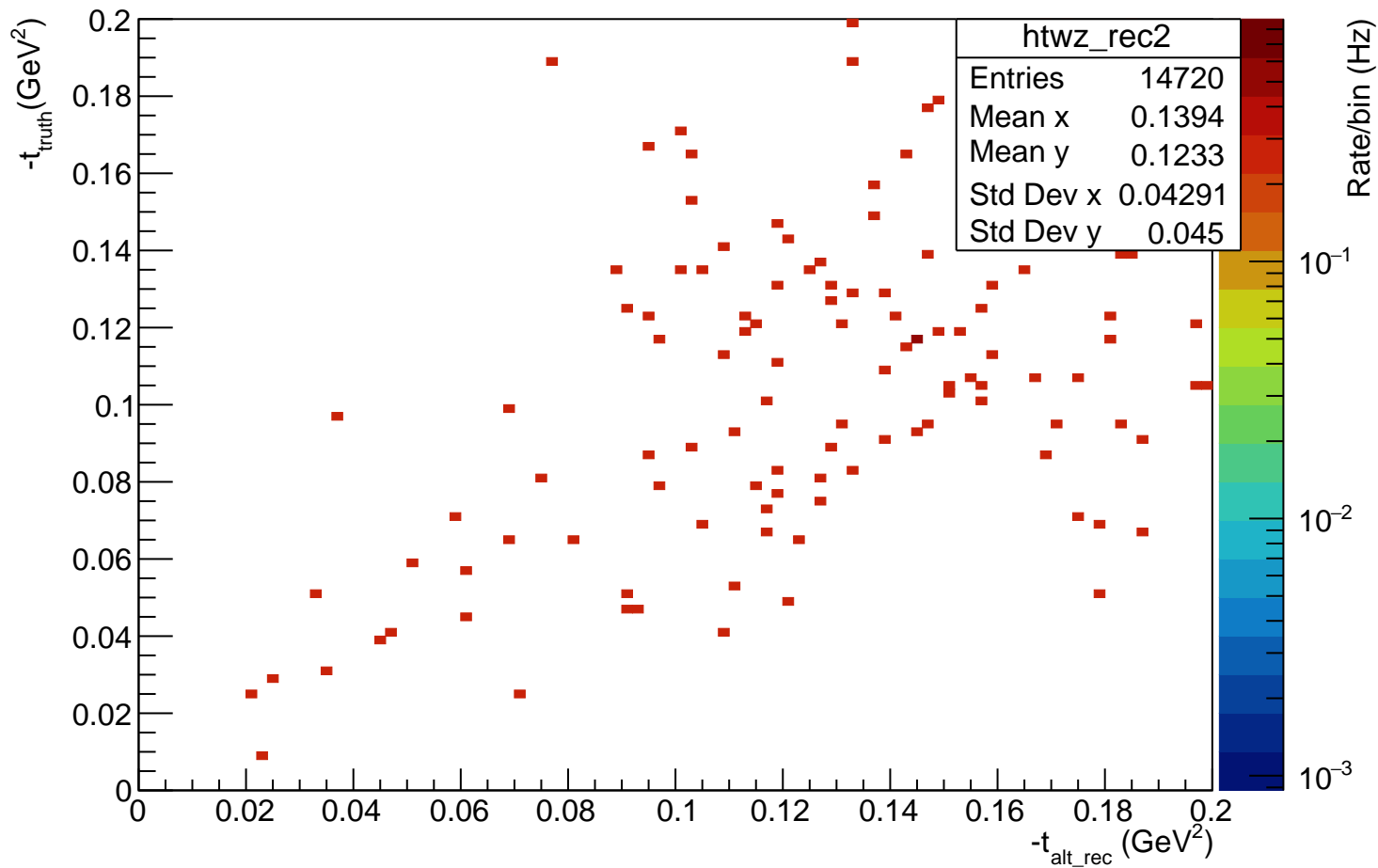
-t rec vs -t truth Distribution



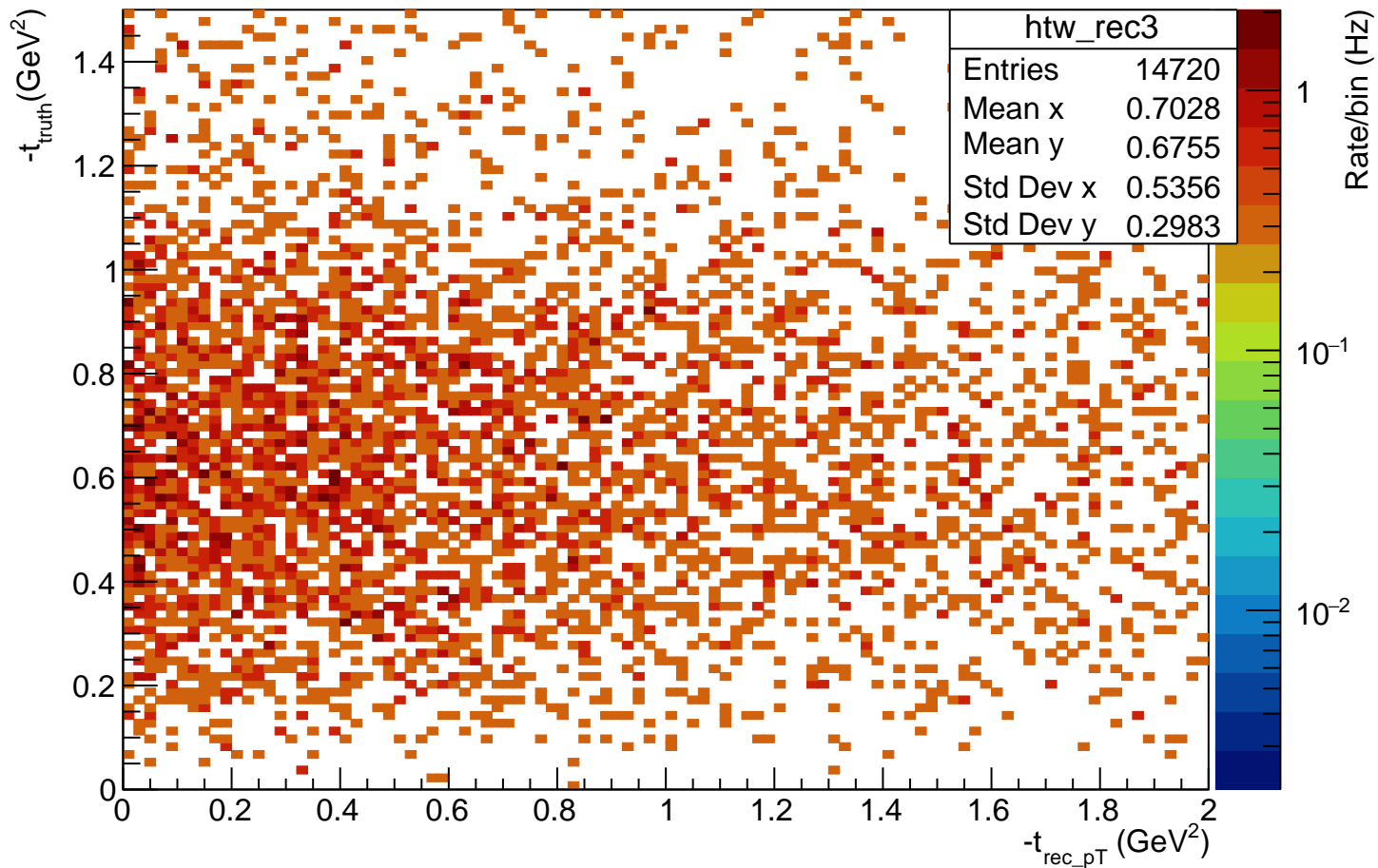
-t alt_rec vs -t truth Distribution



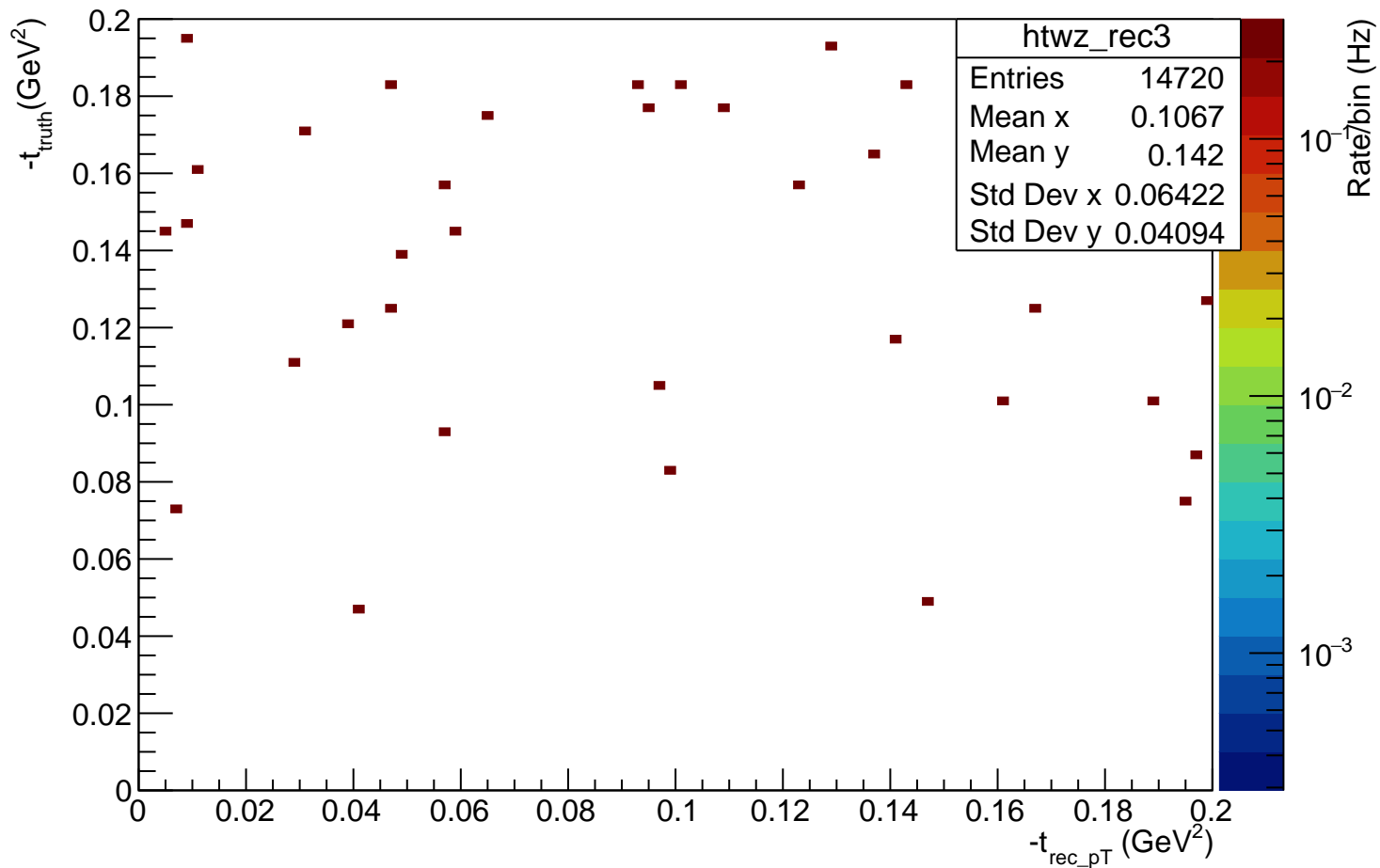
-t alt_rec vs -t truth Distribution



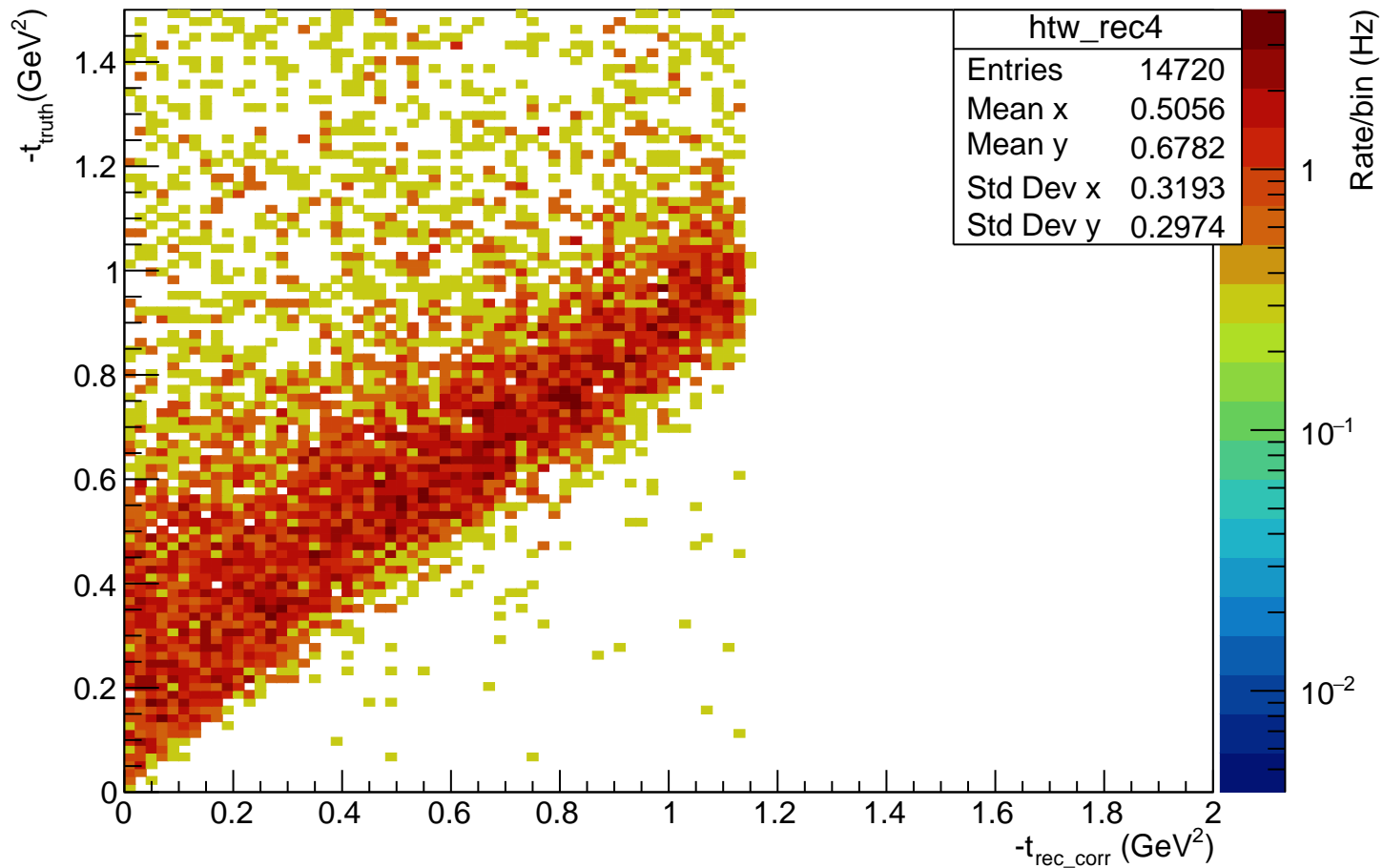
-t rec_pT vs -t truth Distribution



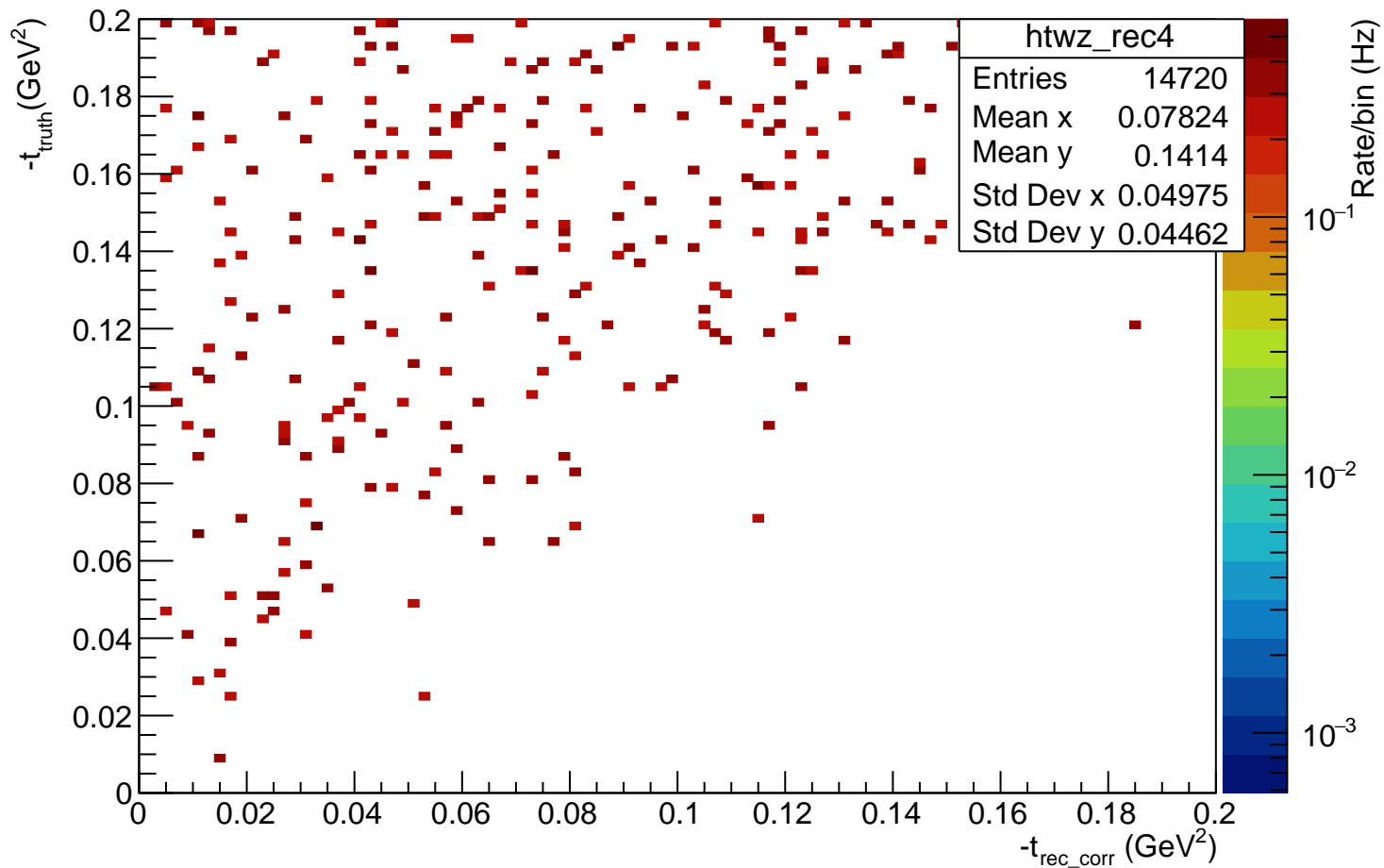
-t rec_pT vs -t truth Distribution



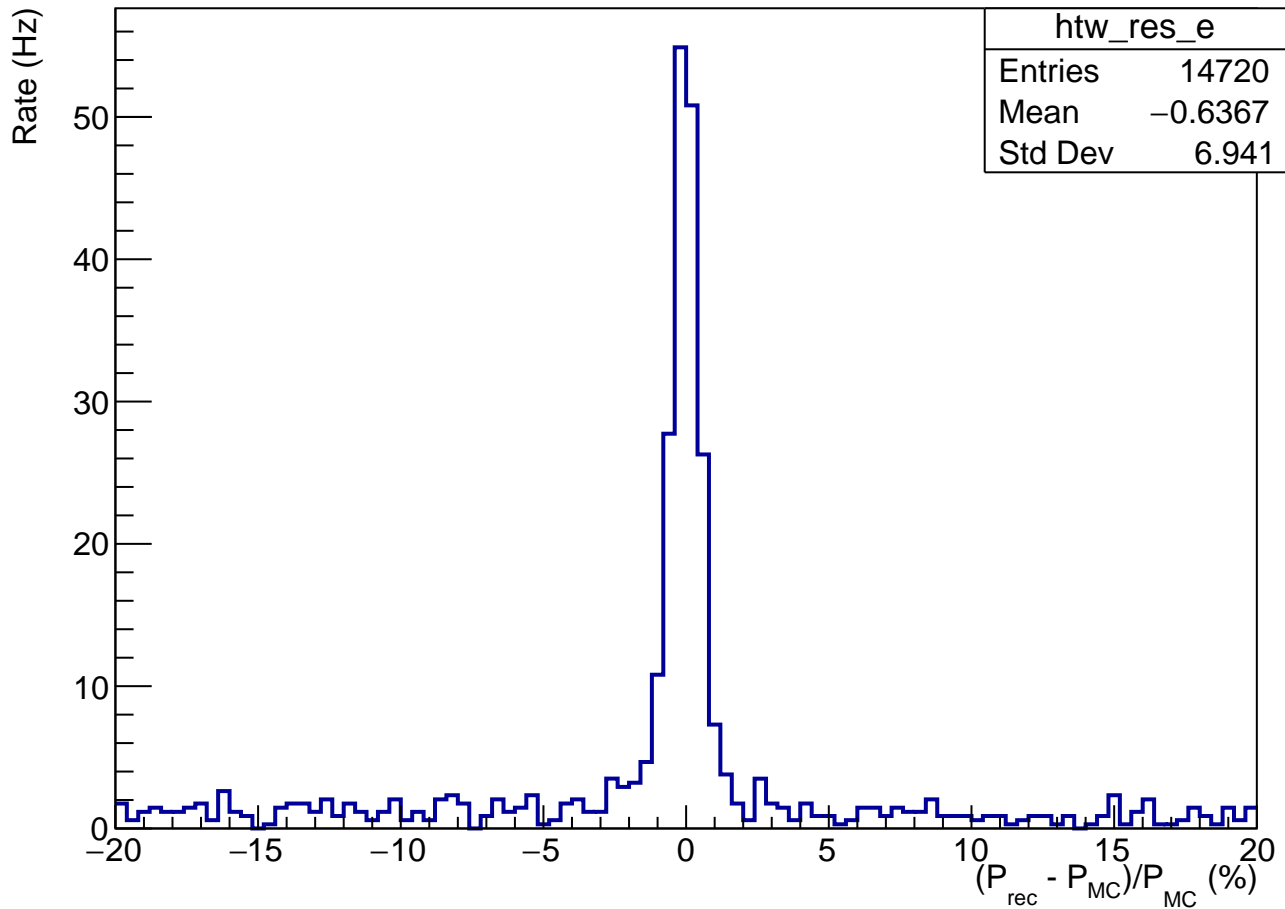
-t rec_corr vs -t truth Distribution



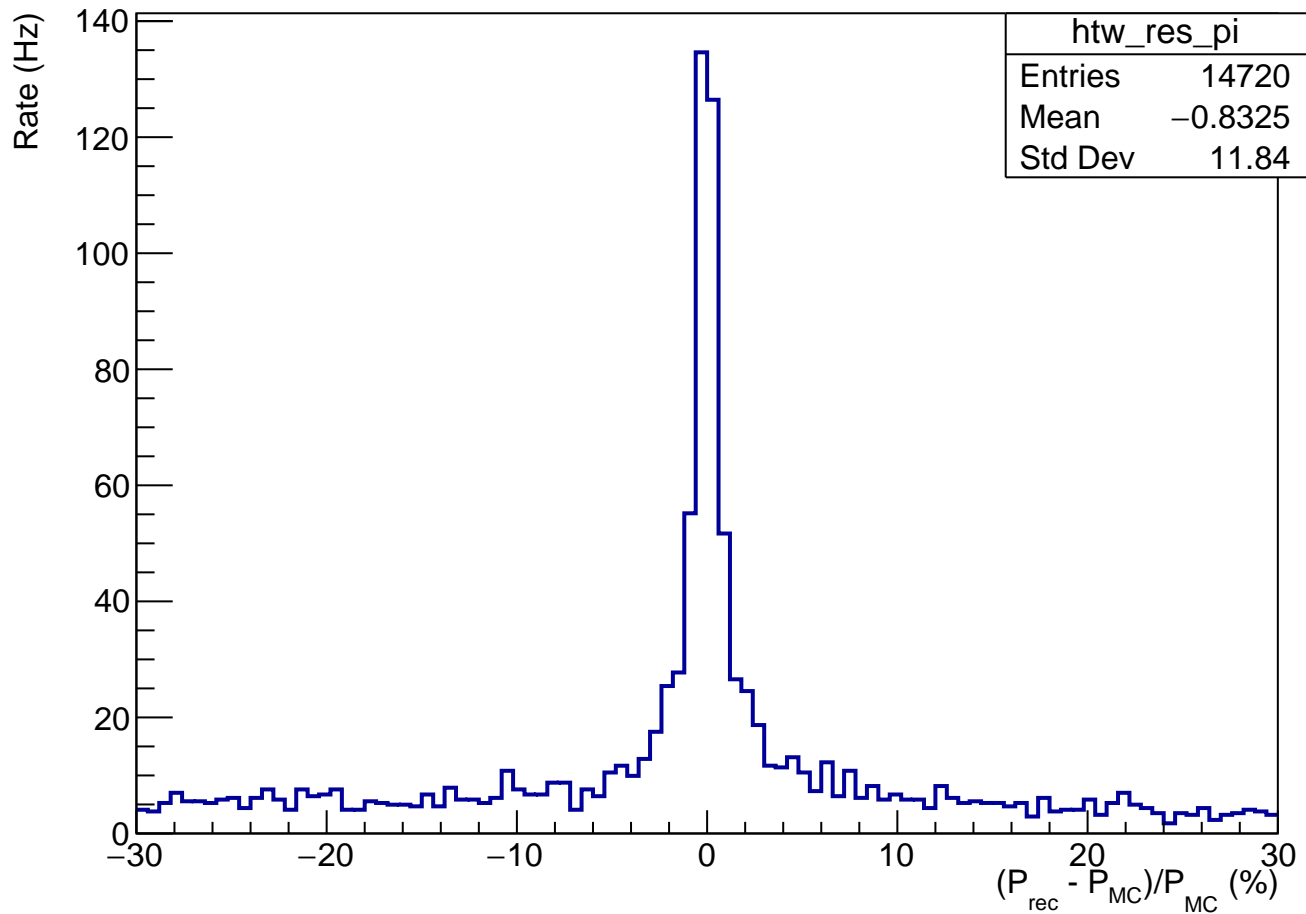
-t rec_corr vs -t truth Distribution



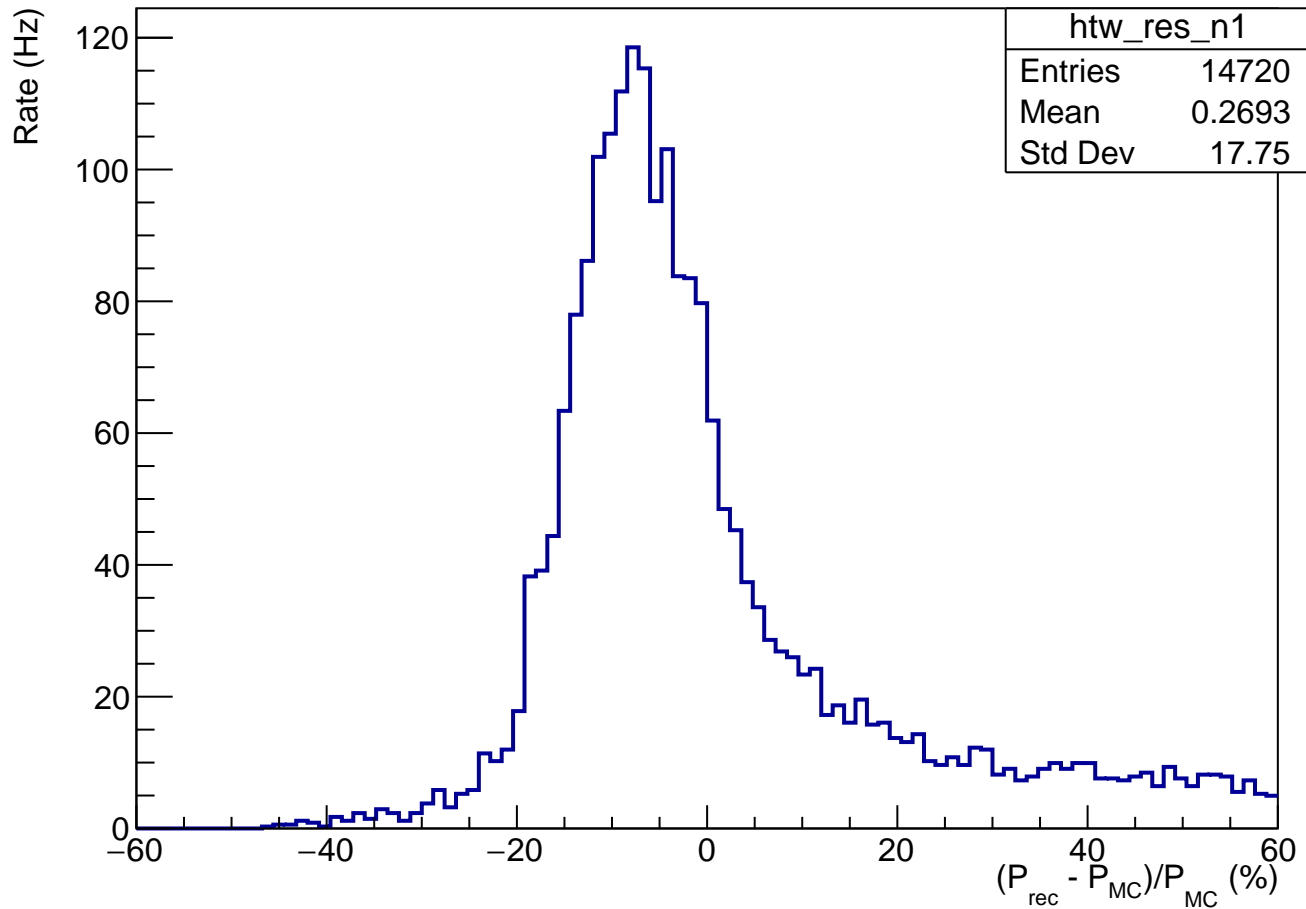
e' Track Momentum Resolution Distribution (%)



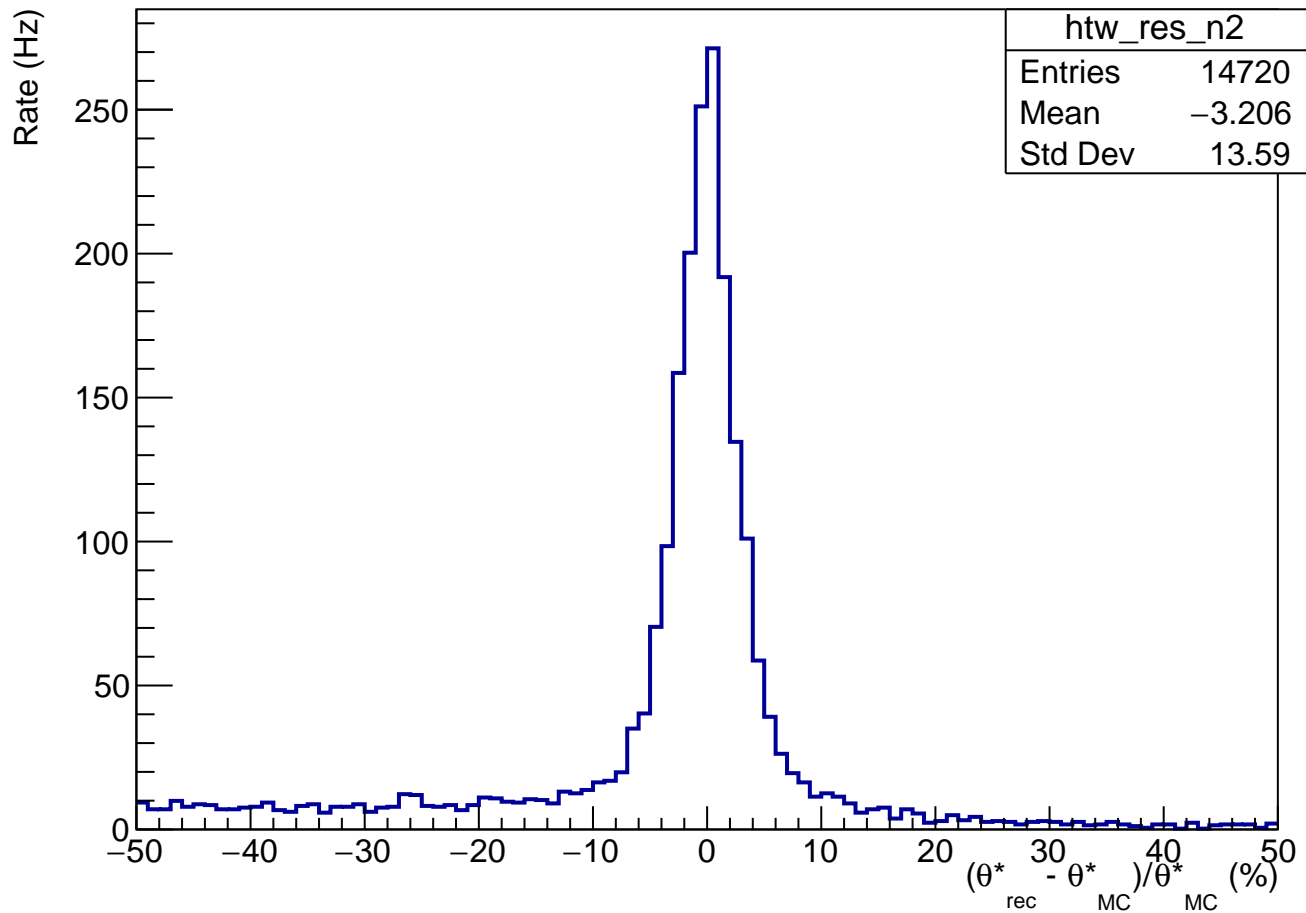
π^+ Track Momentum Resolution Distribution (%)



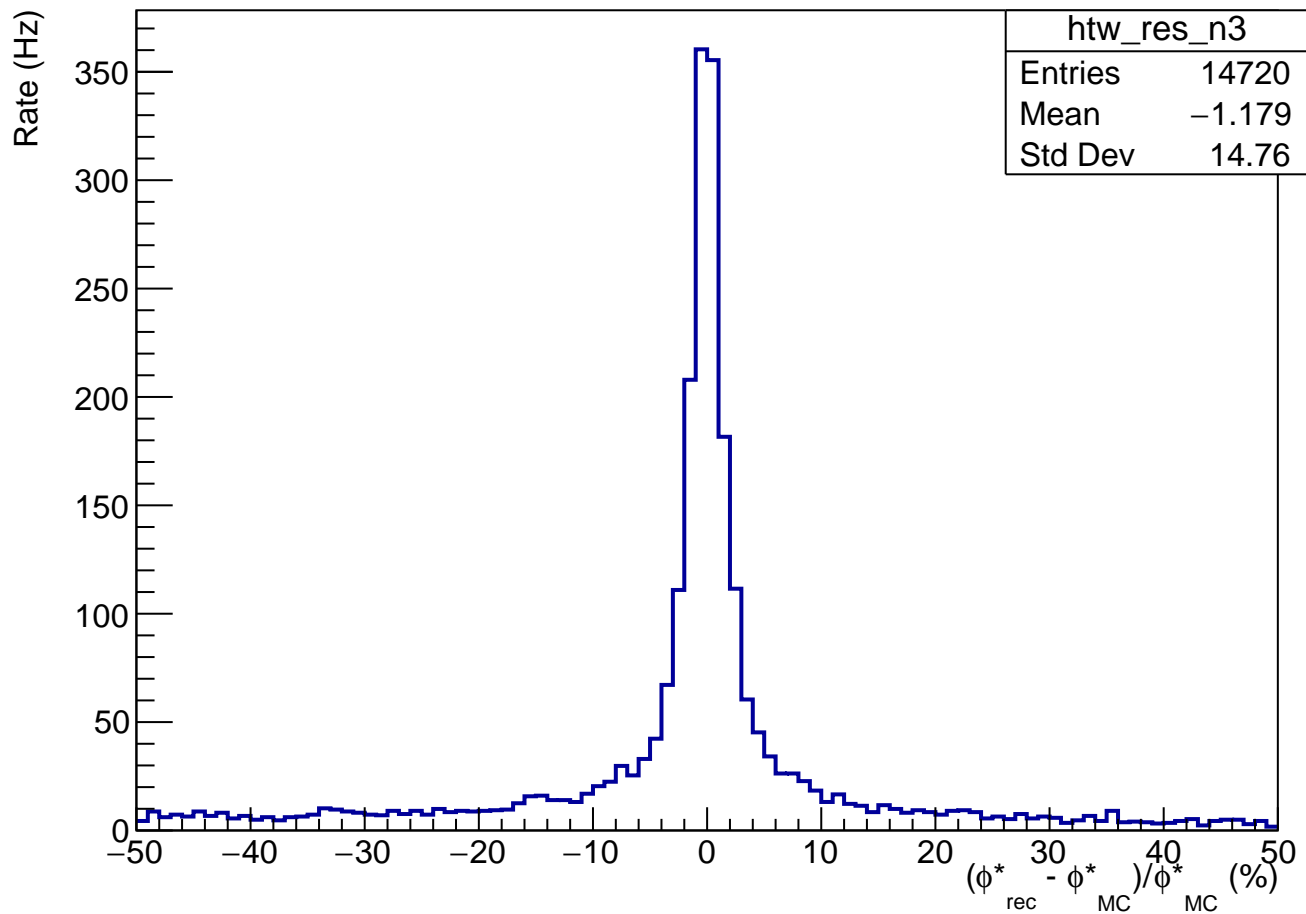
n Track Momentum Resolution Distribution (%)



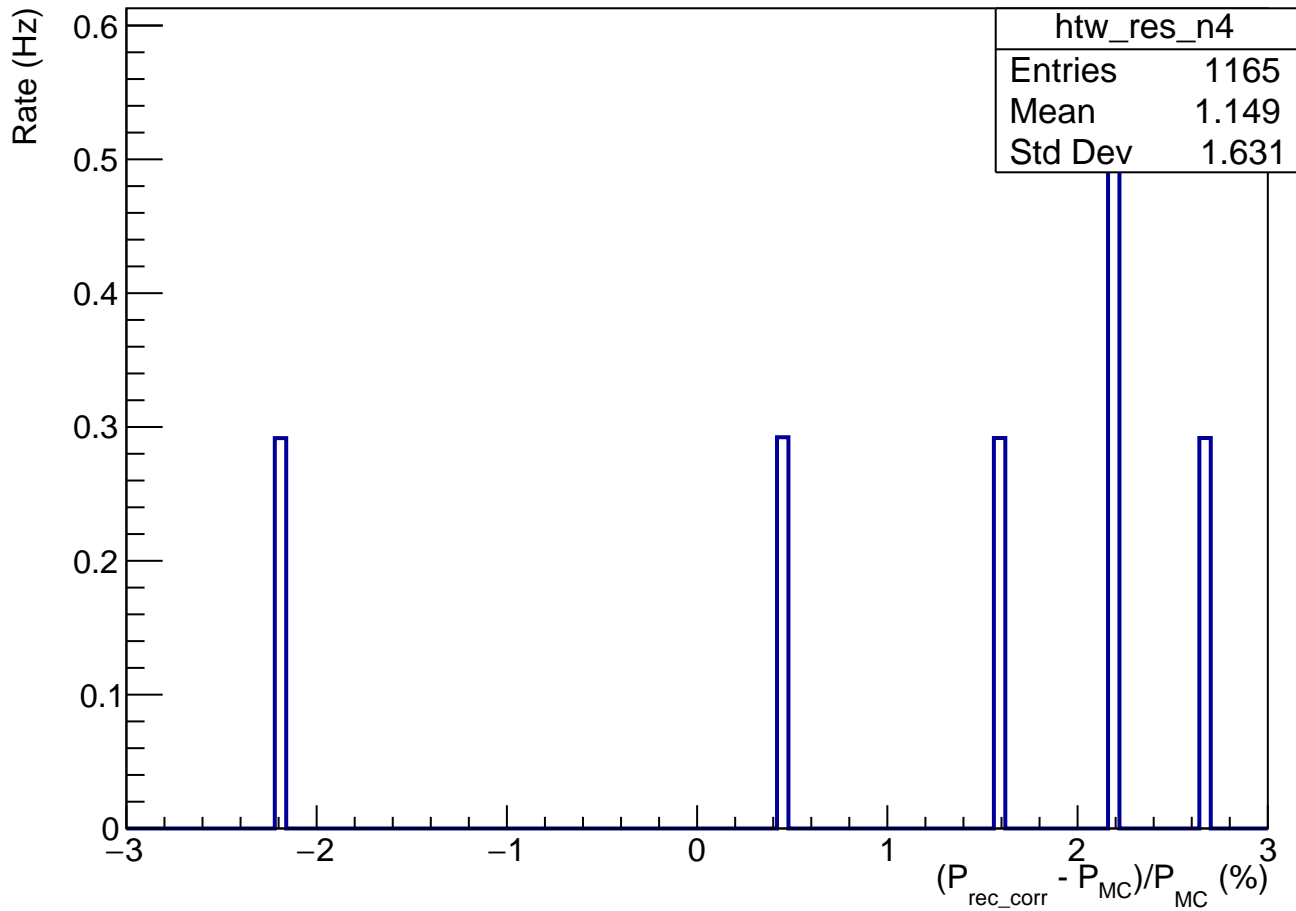
n Track θ^* Resolution Distribution (%)



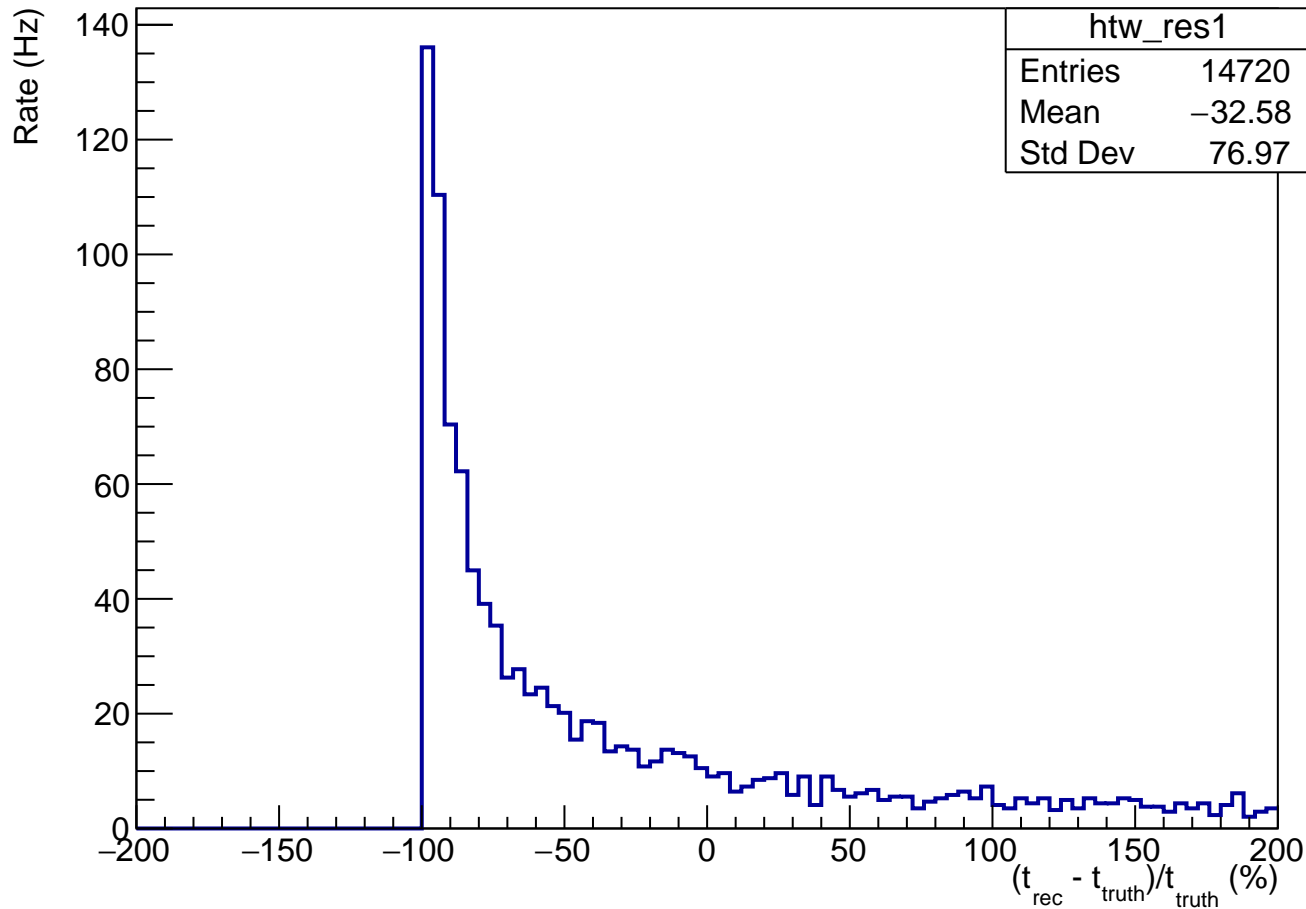
n Track ϕ^* Resolution Distribution (%)



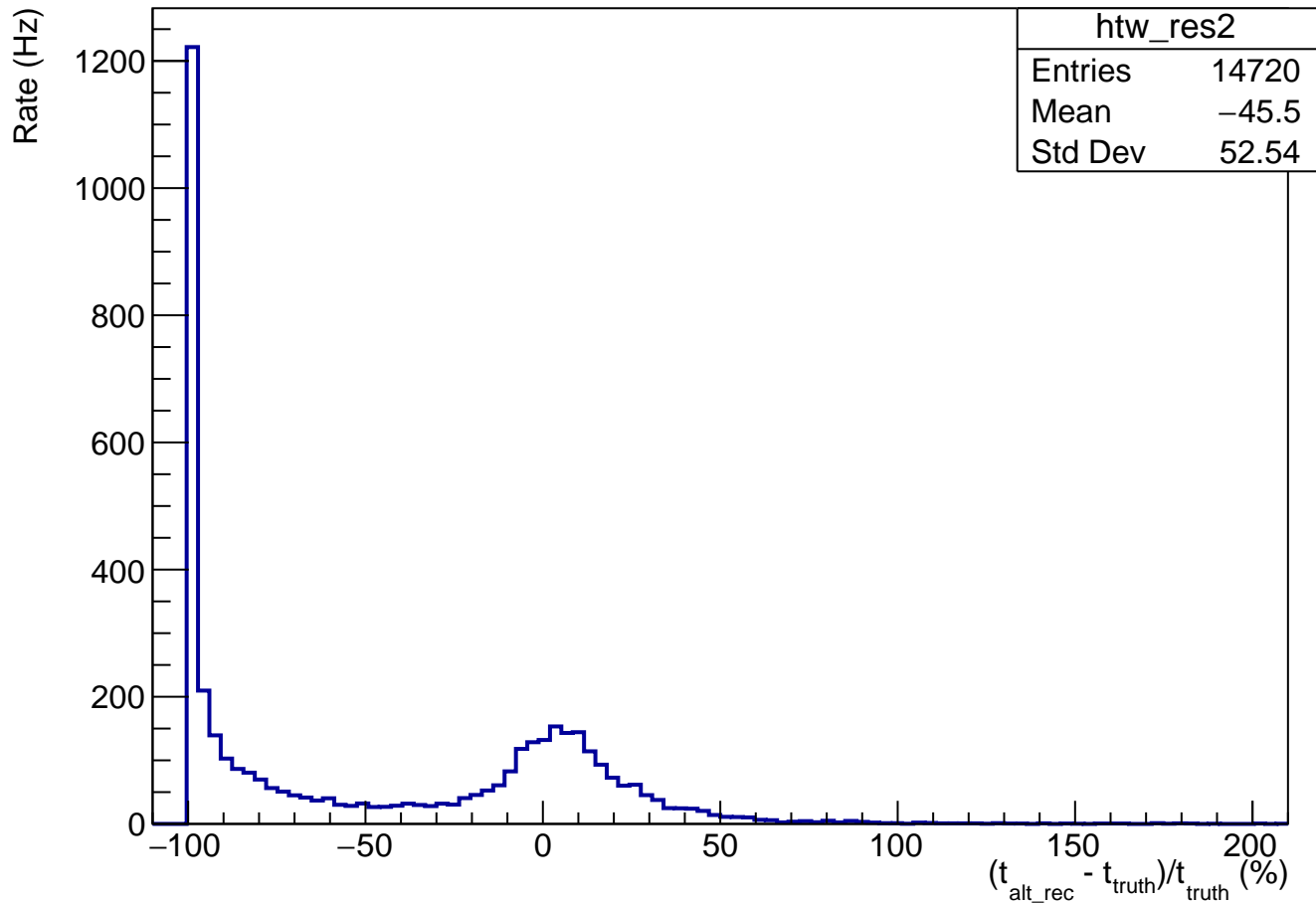
n Track Momentum Resolution Distribution (%)



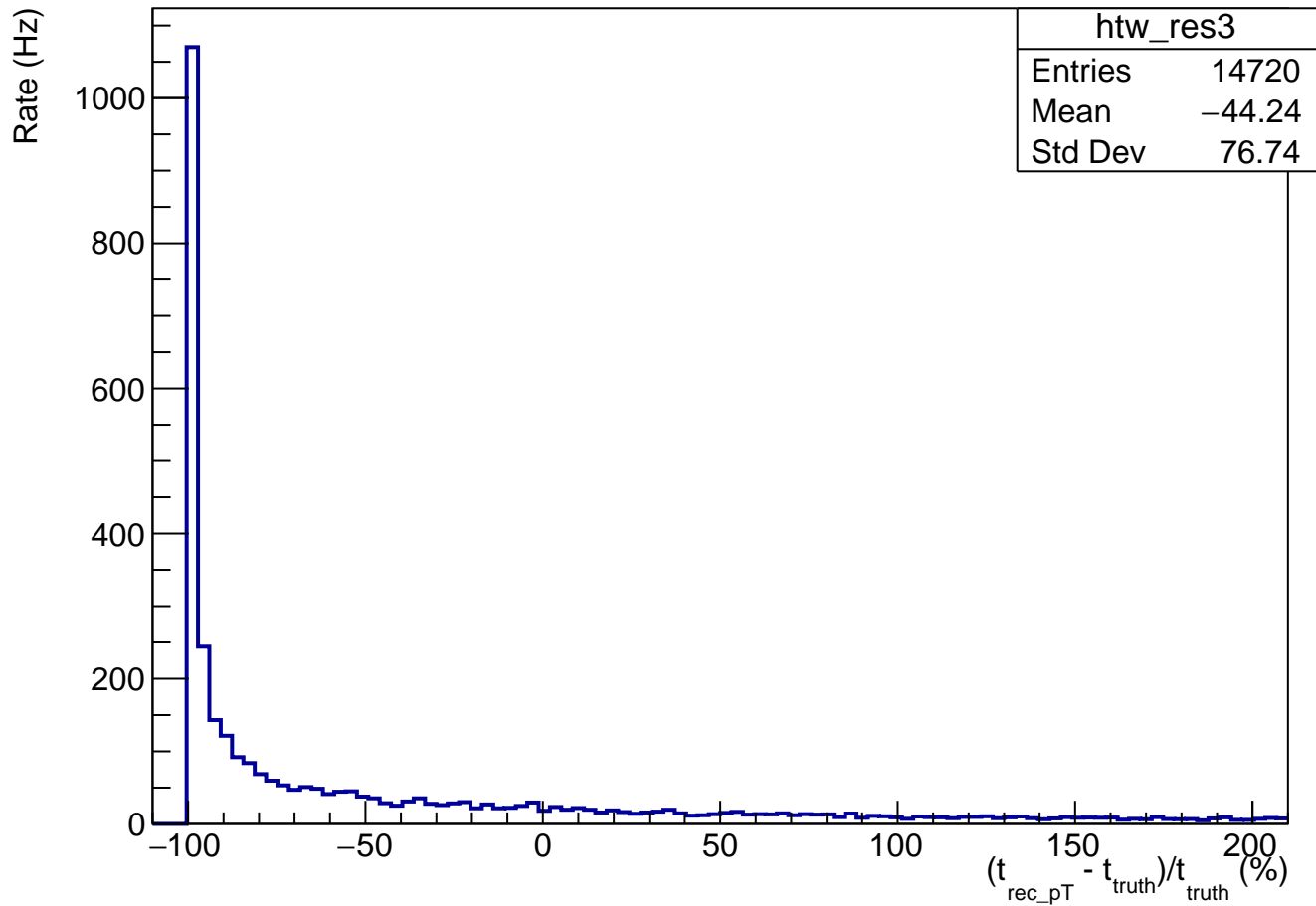
-t Resolution Distribution (%)



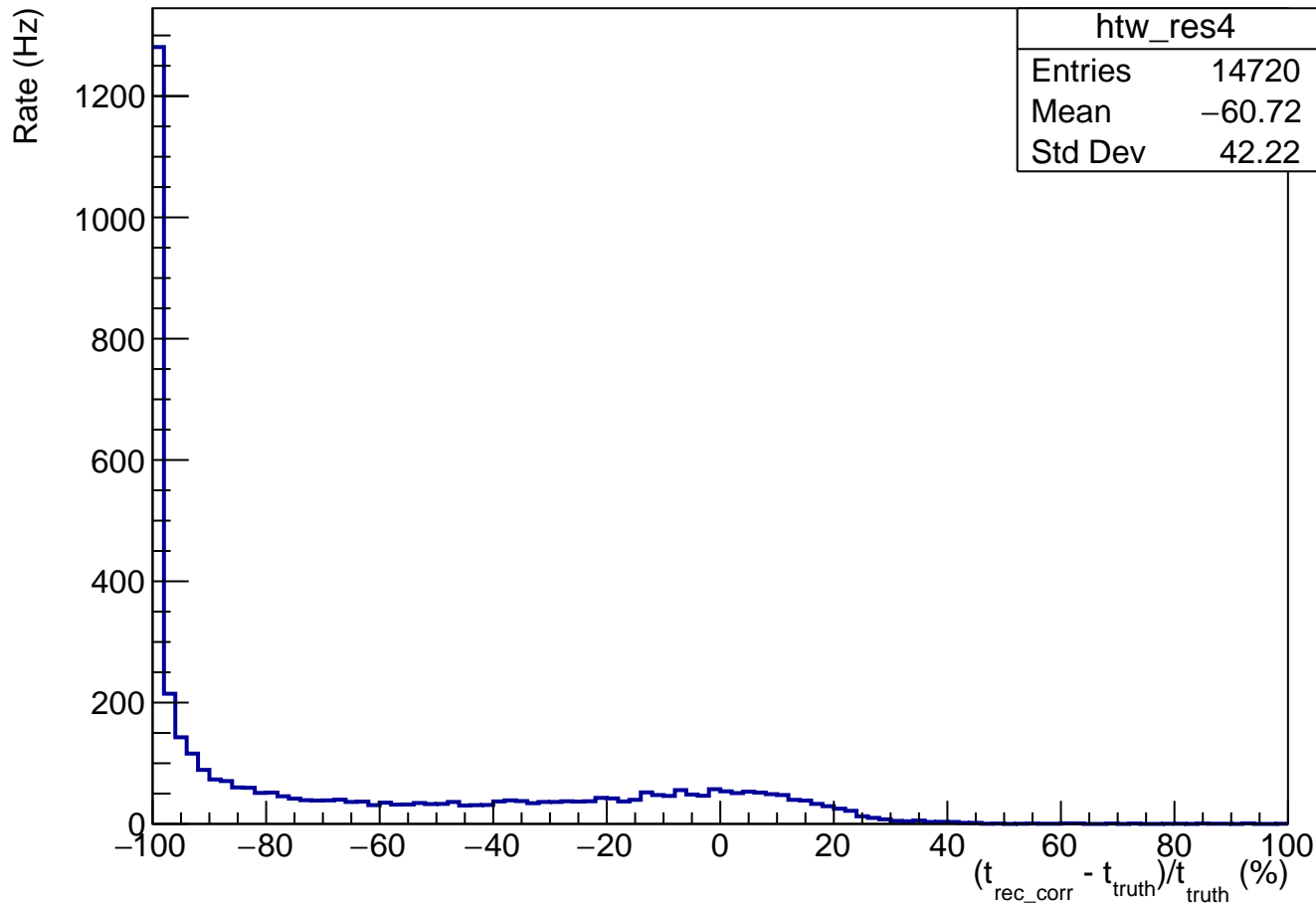
-t Resolution Distribution (%)



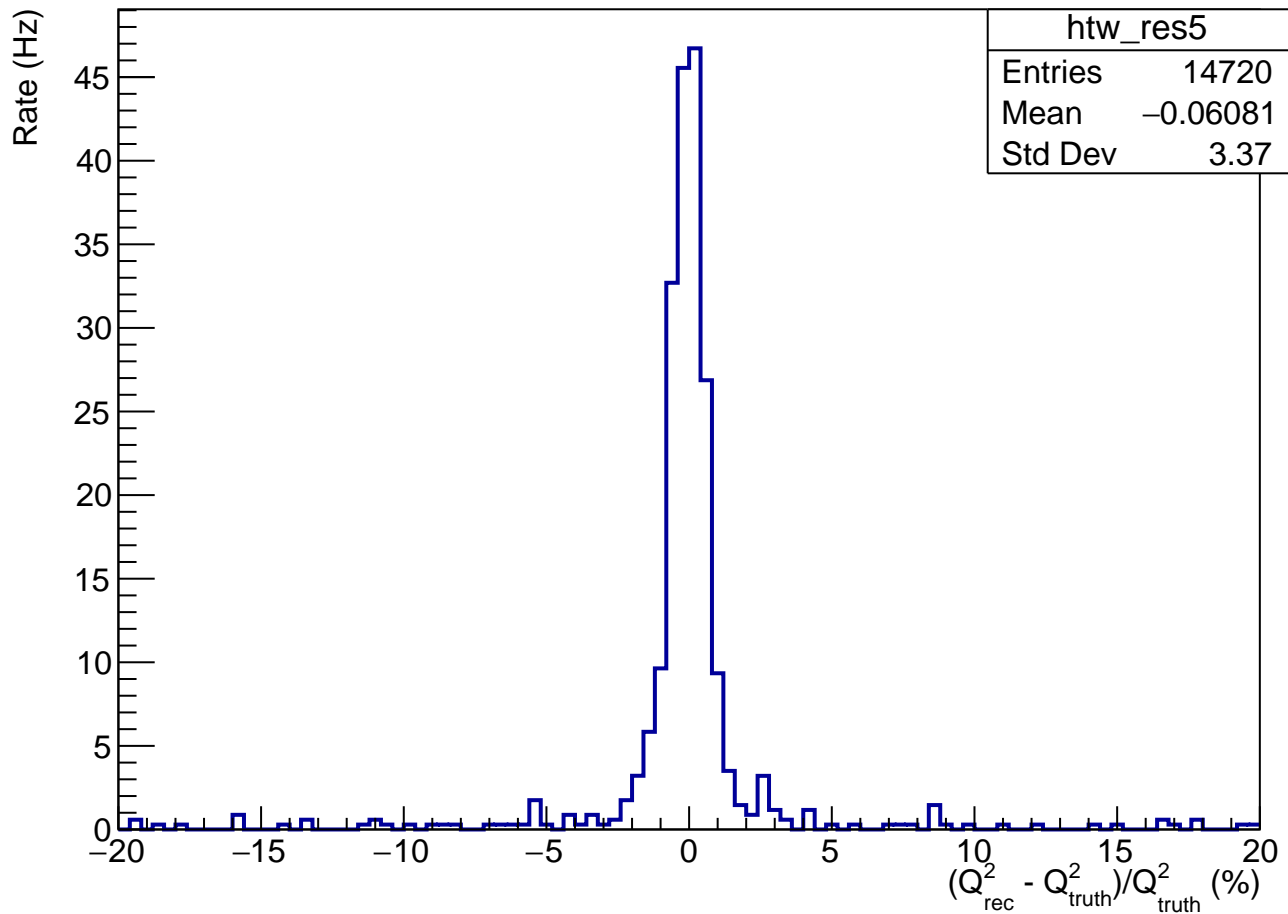
-t Resolution Distribution (%)



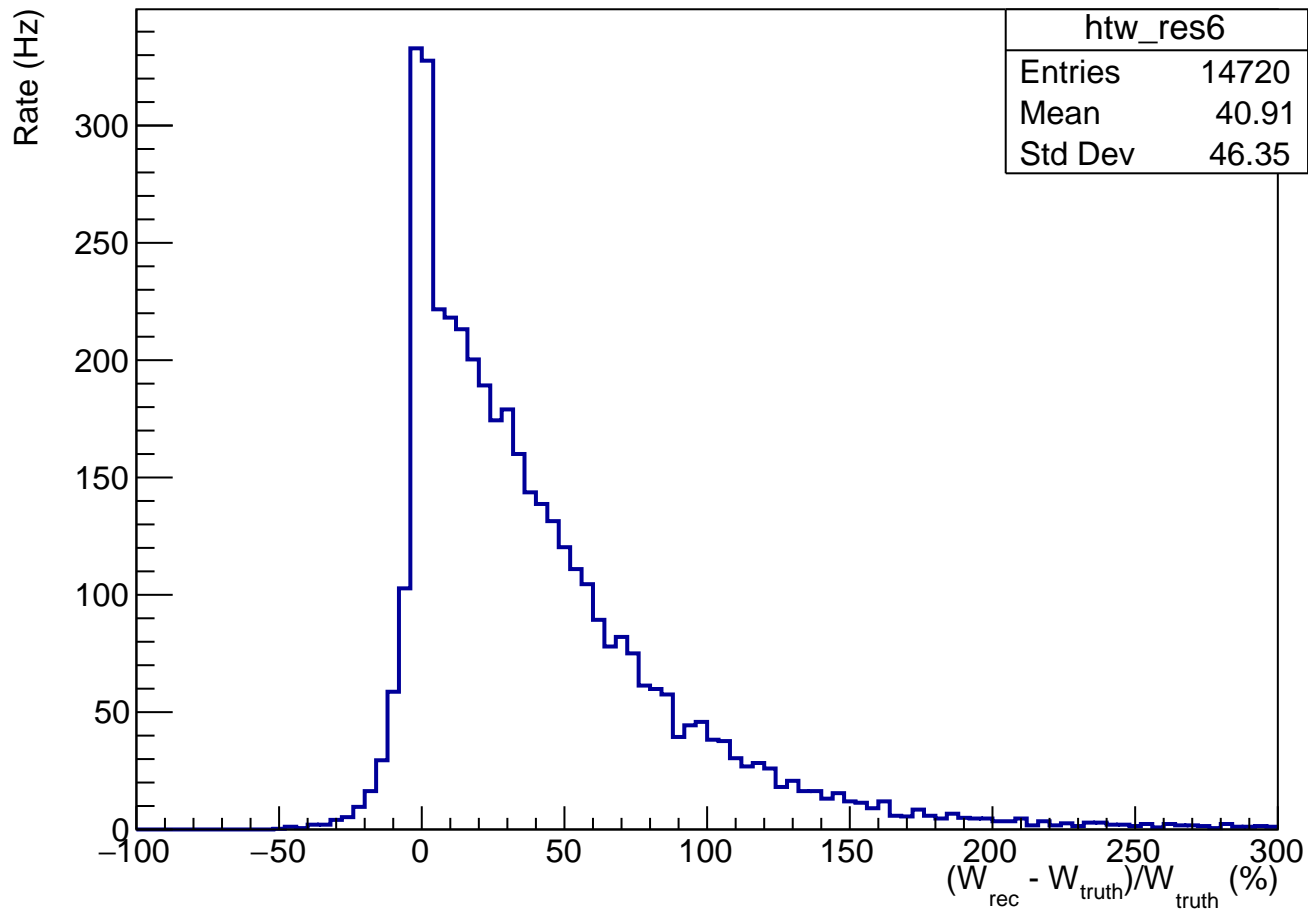
-t Resolution Distribution (%)

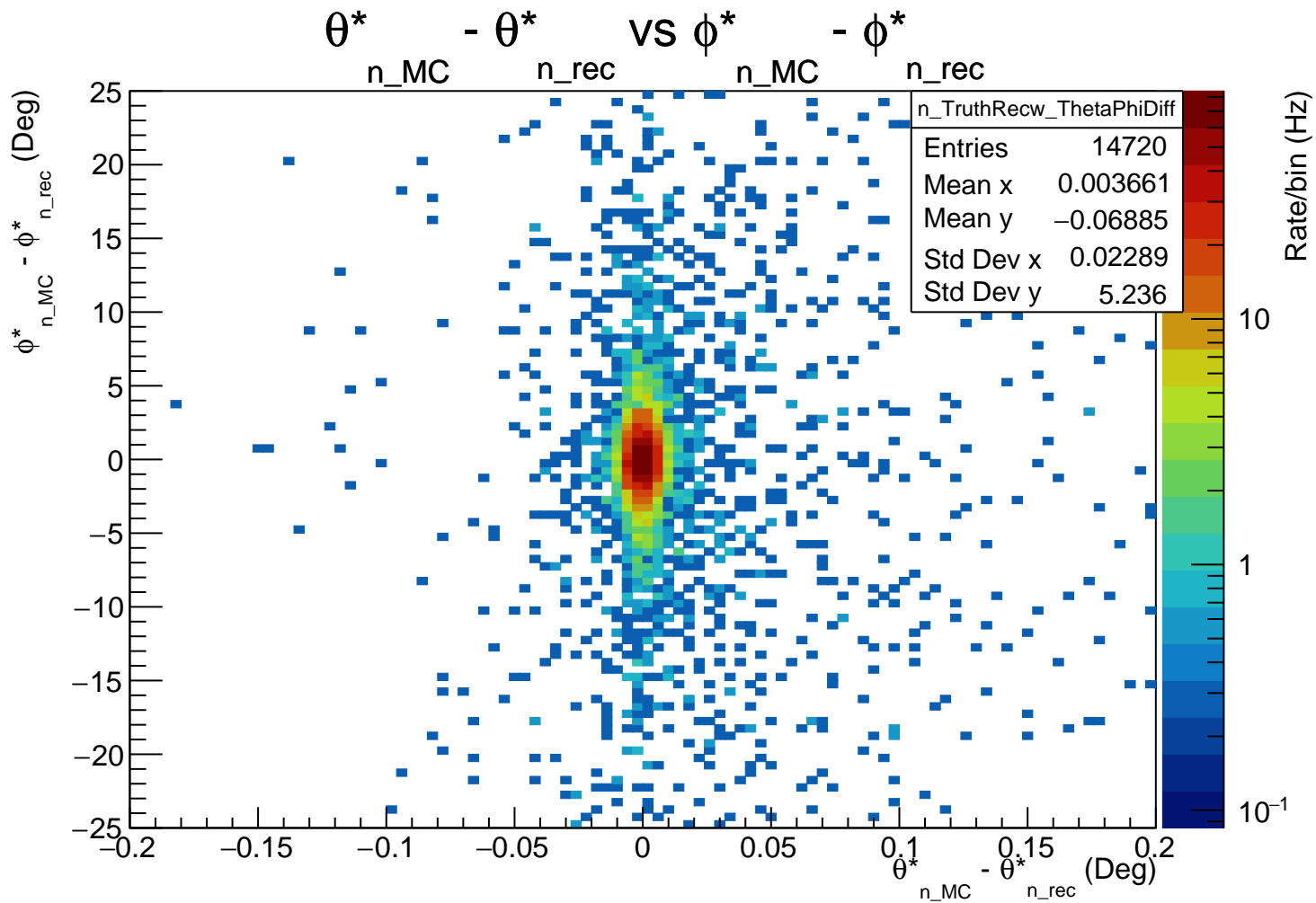


Q^2 Resolution Distribution (%)

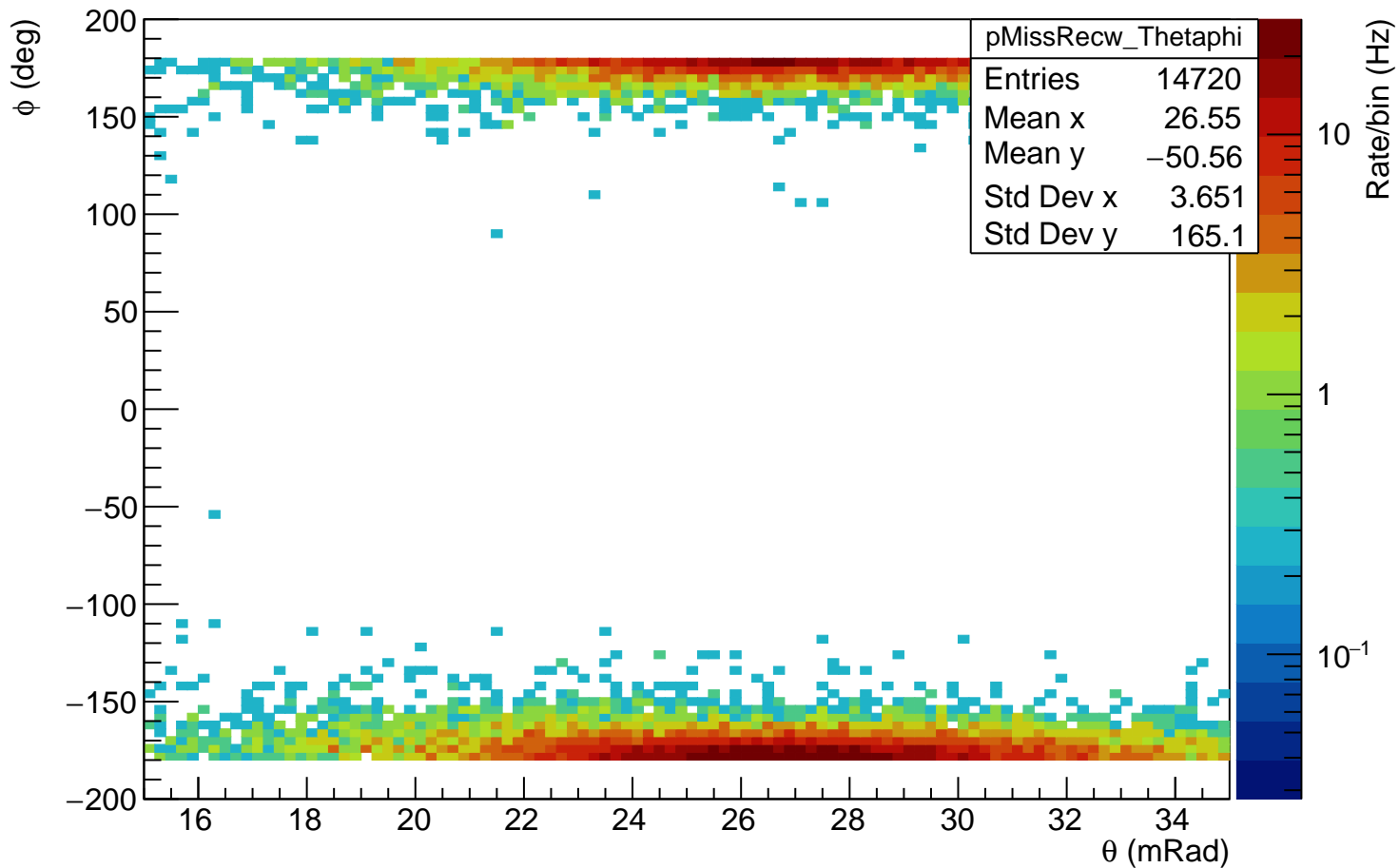


W Resolution Distribution (%)

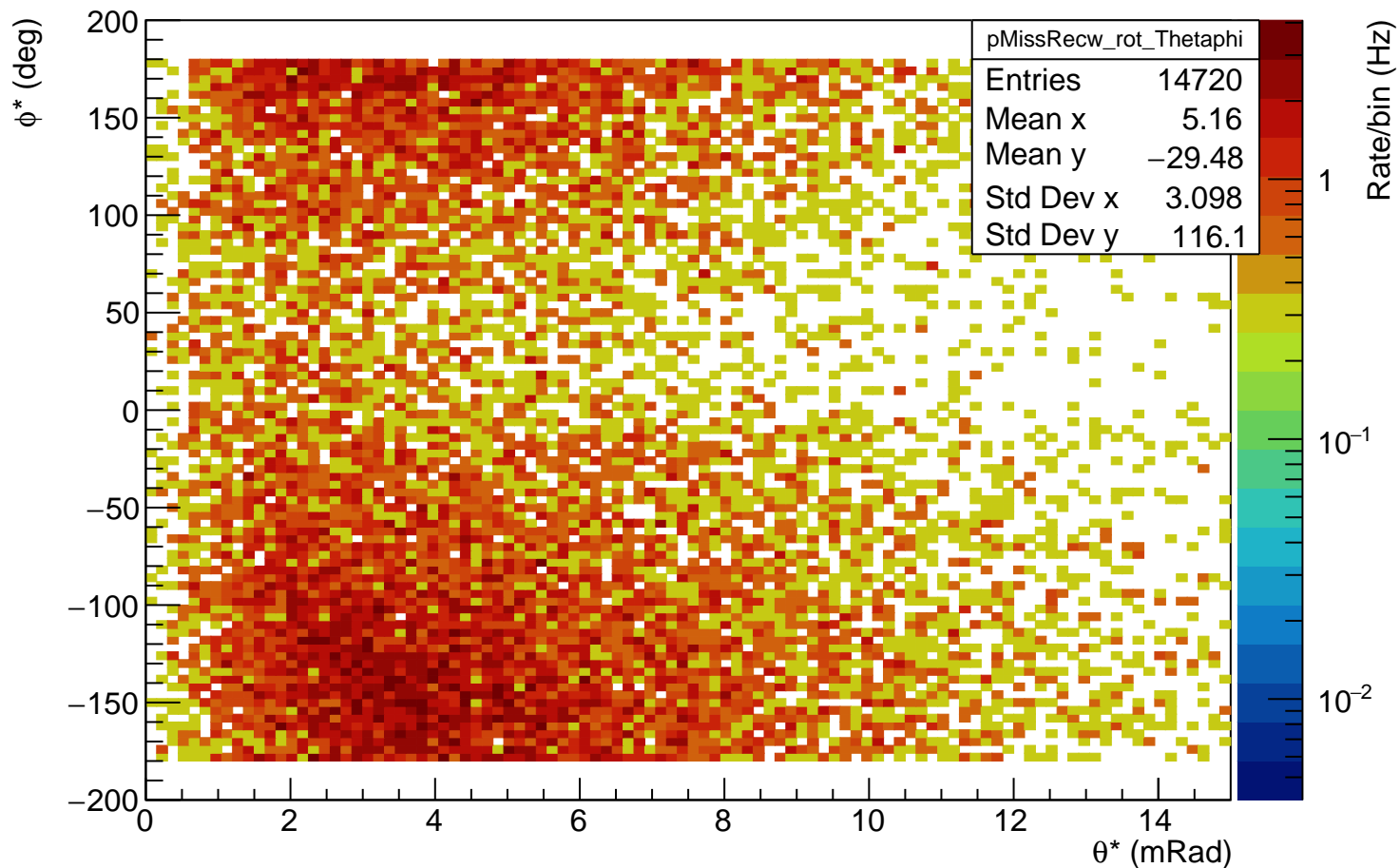




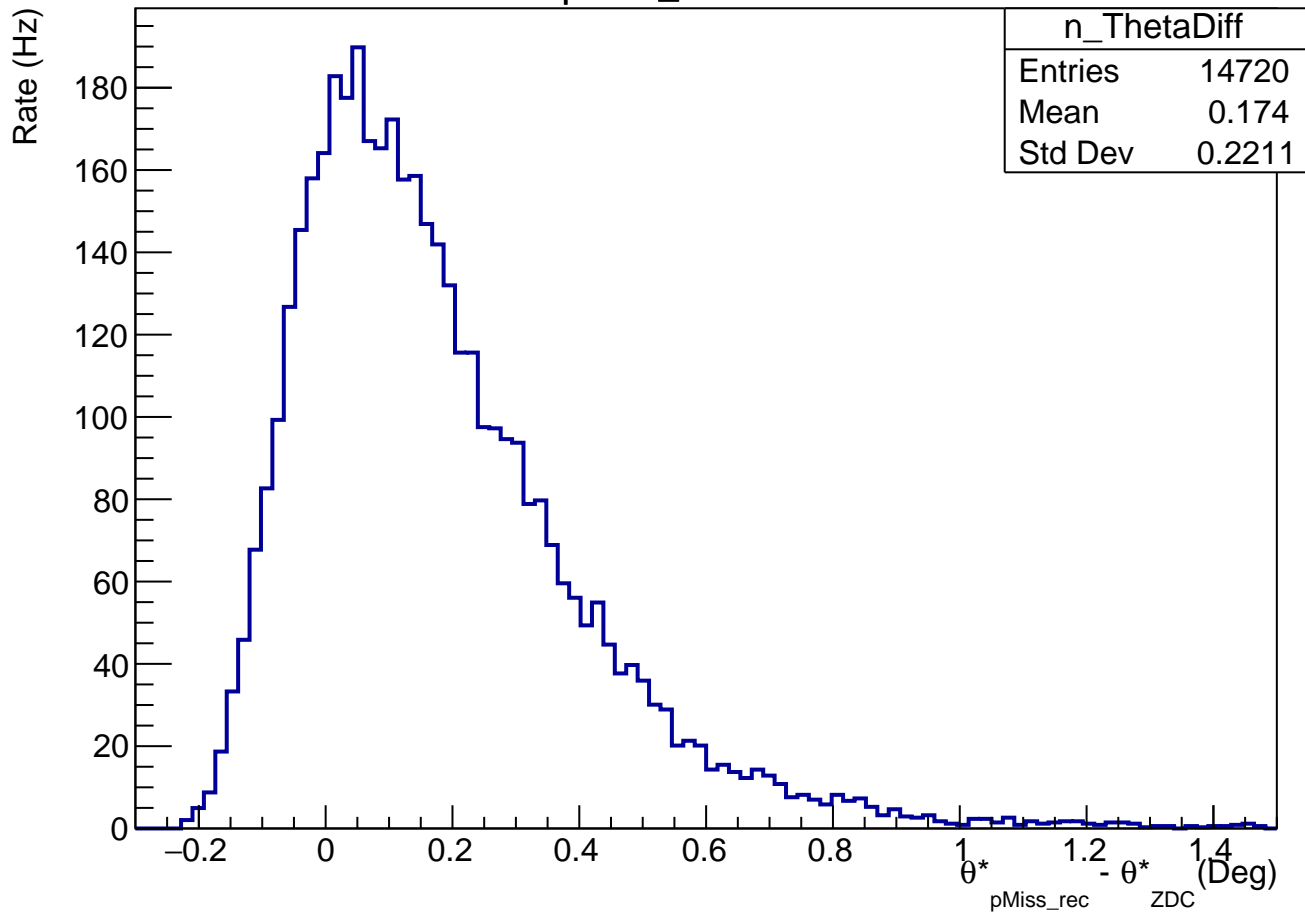
pMiss rec θ vs ϕ

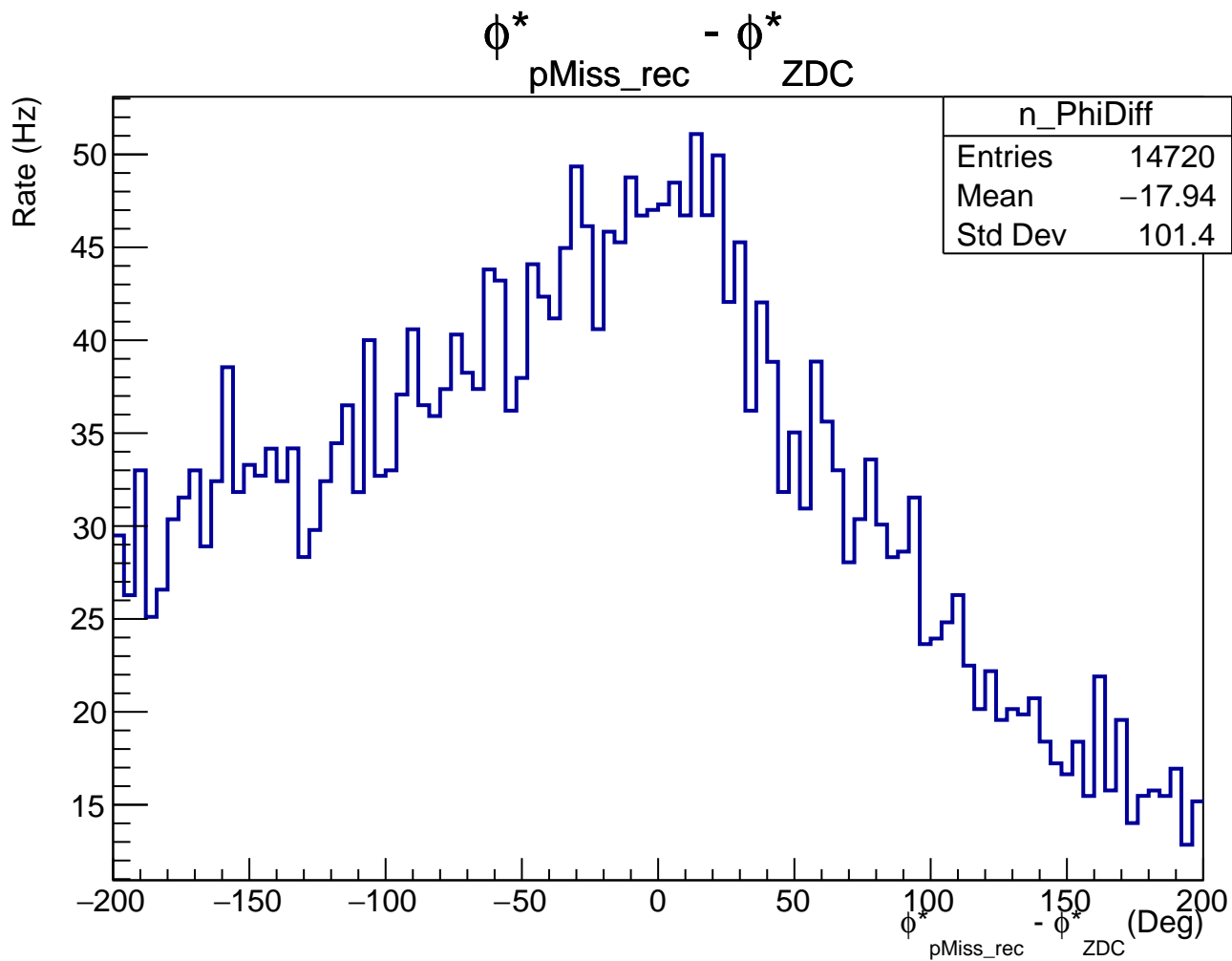


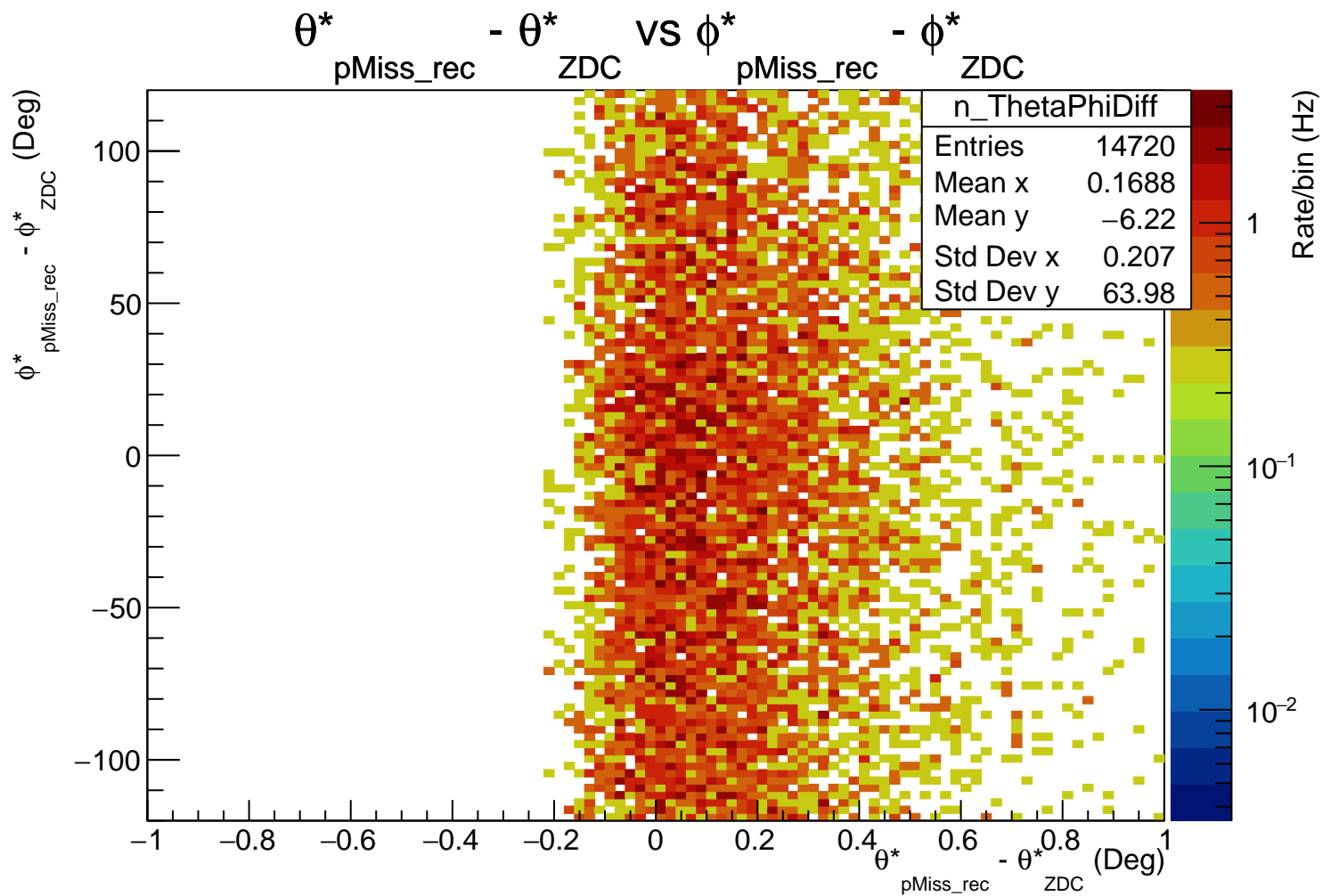
pMiss rec θ^* vs ϕ^* around p axis



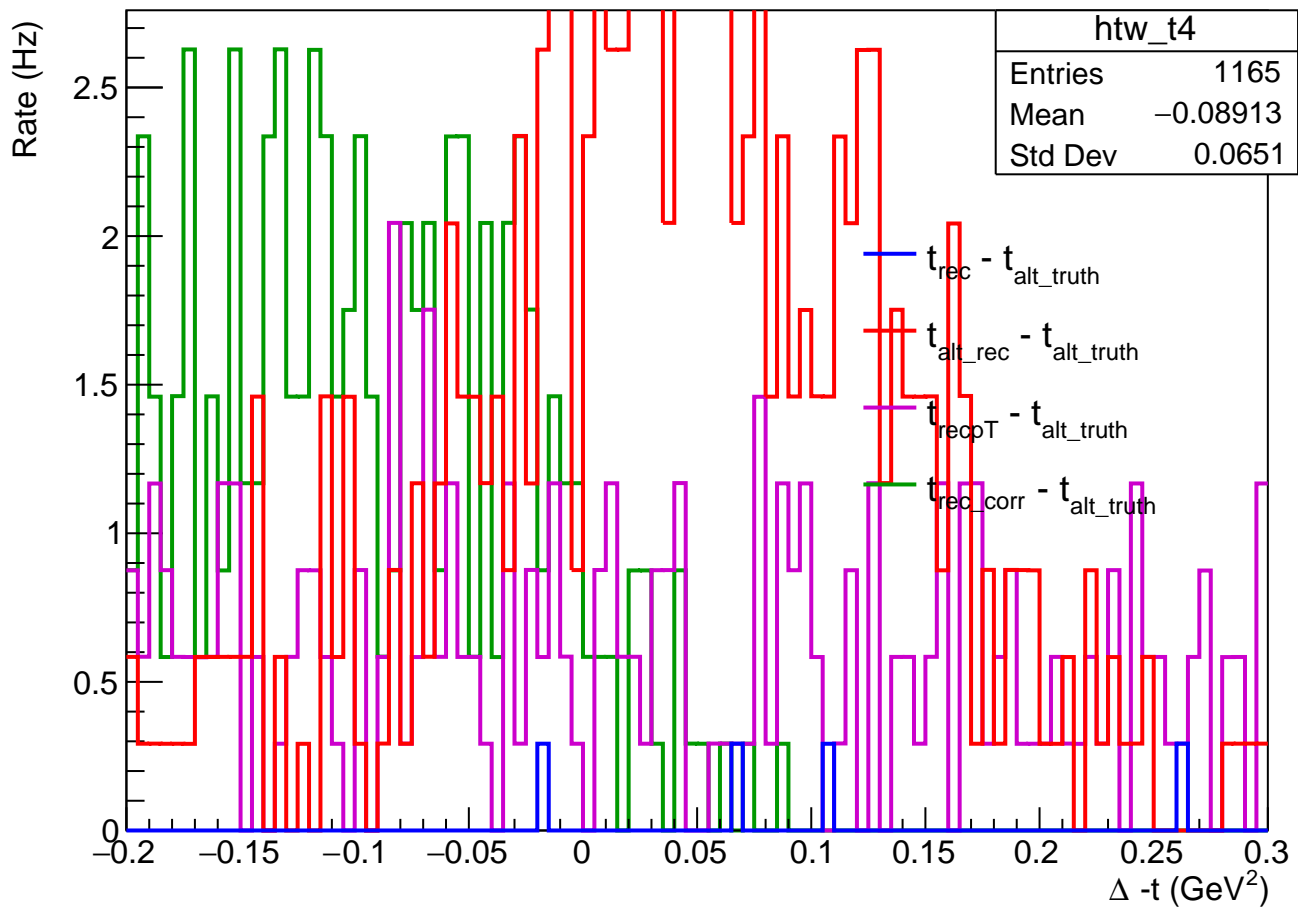
$$\theta^*_{\text{pMiss_rec}} - \theta^*_{\text{ZDC}}$$



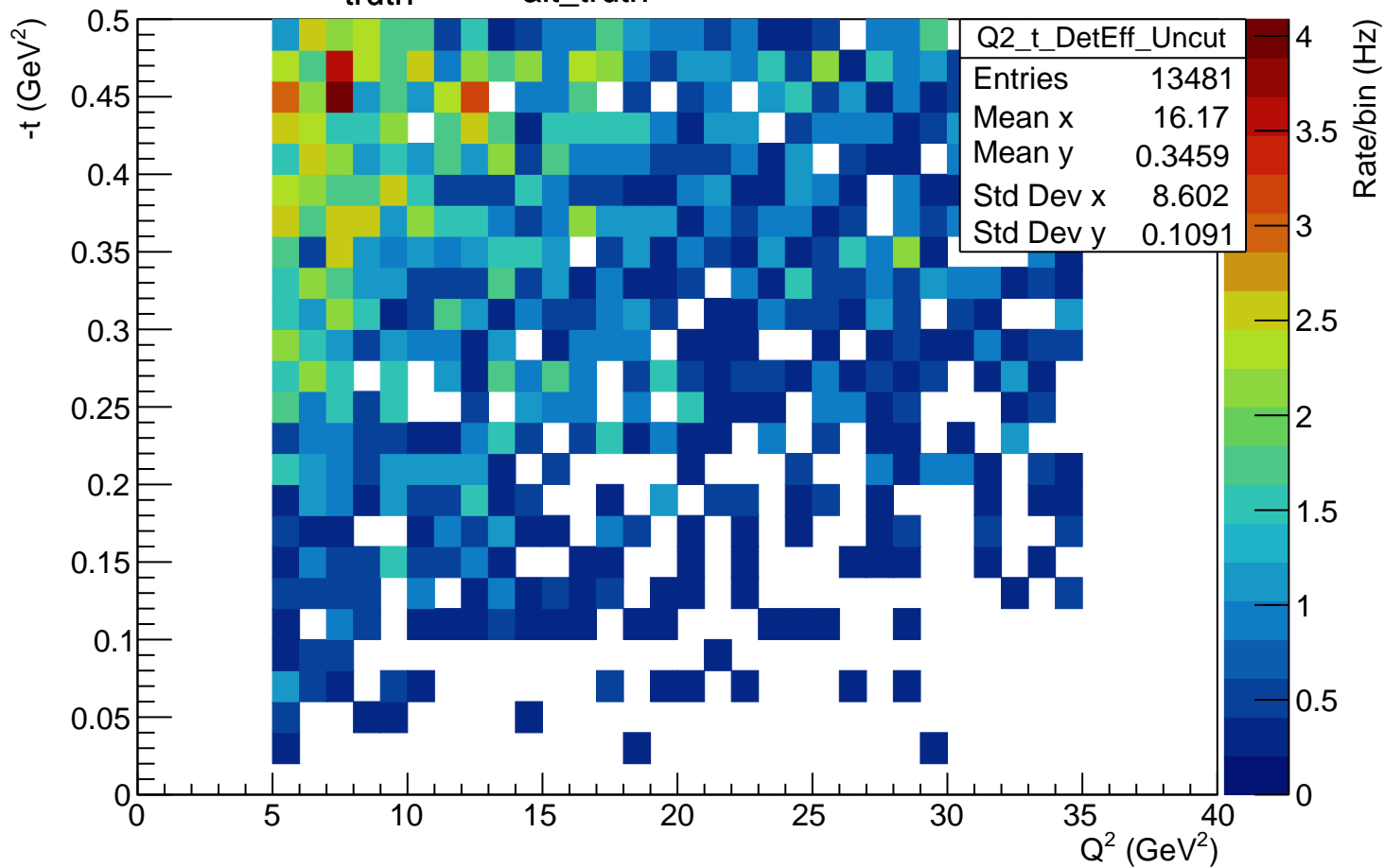




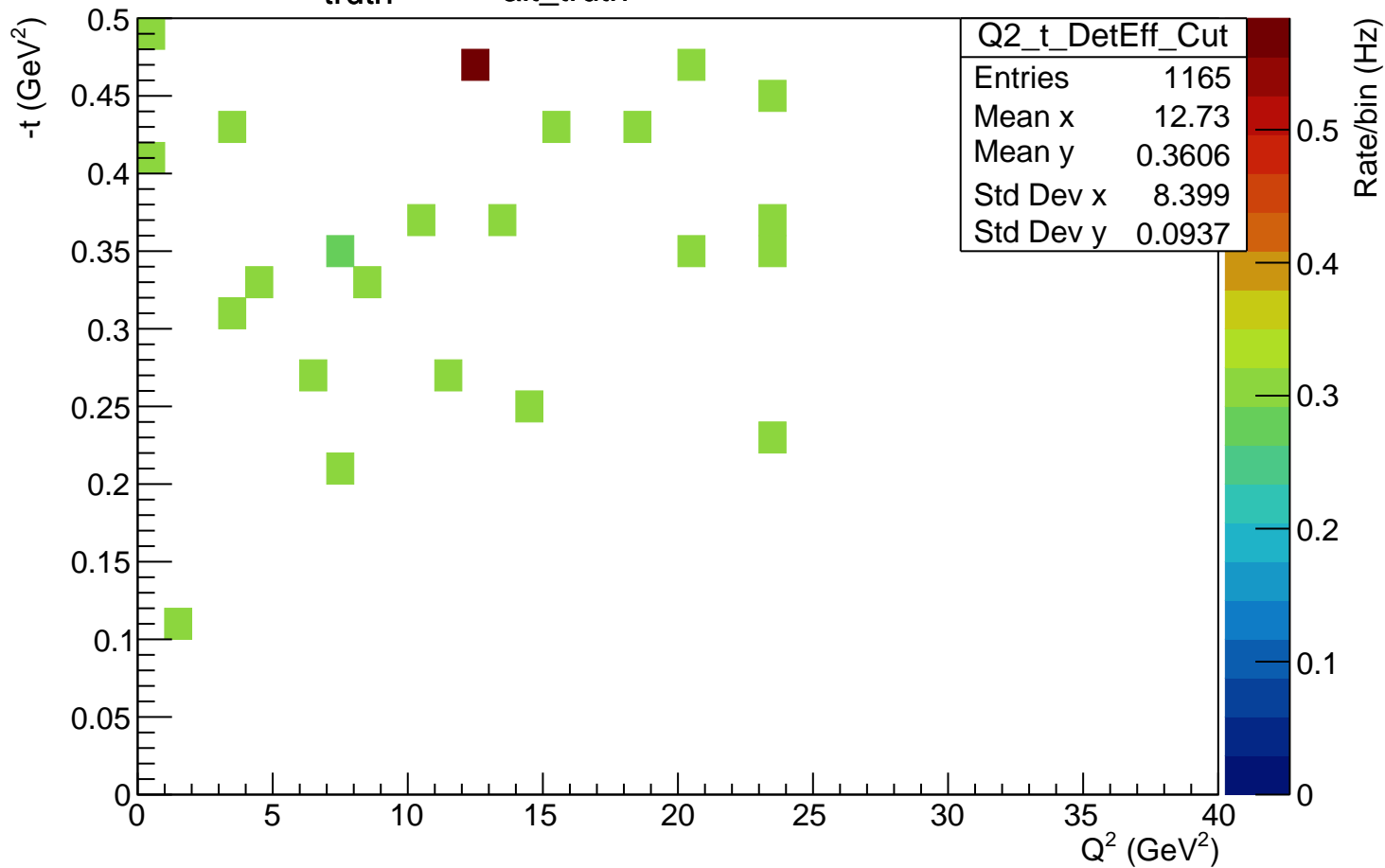
$-t_{\text{rec}}, \text{alt_rec}, \text{rec_pT}, \text{rec_corr} - t_{\text{alt_truth}}$ Distribution



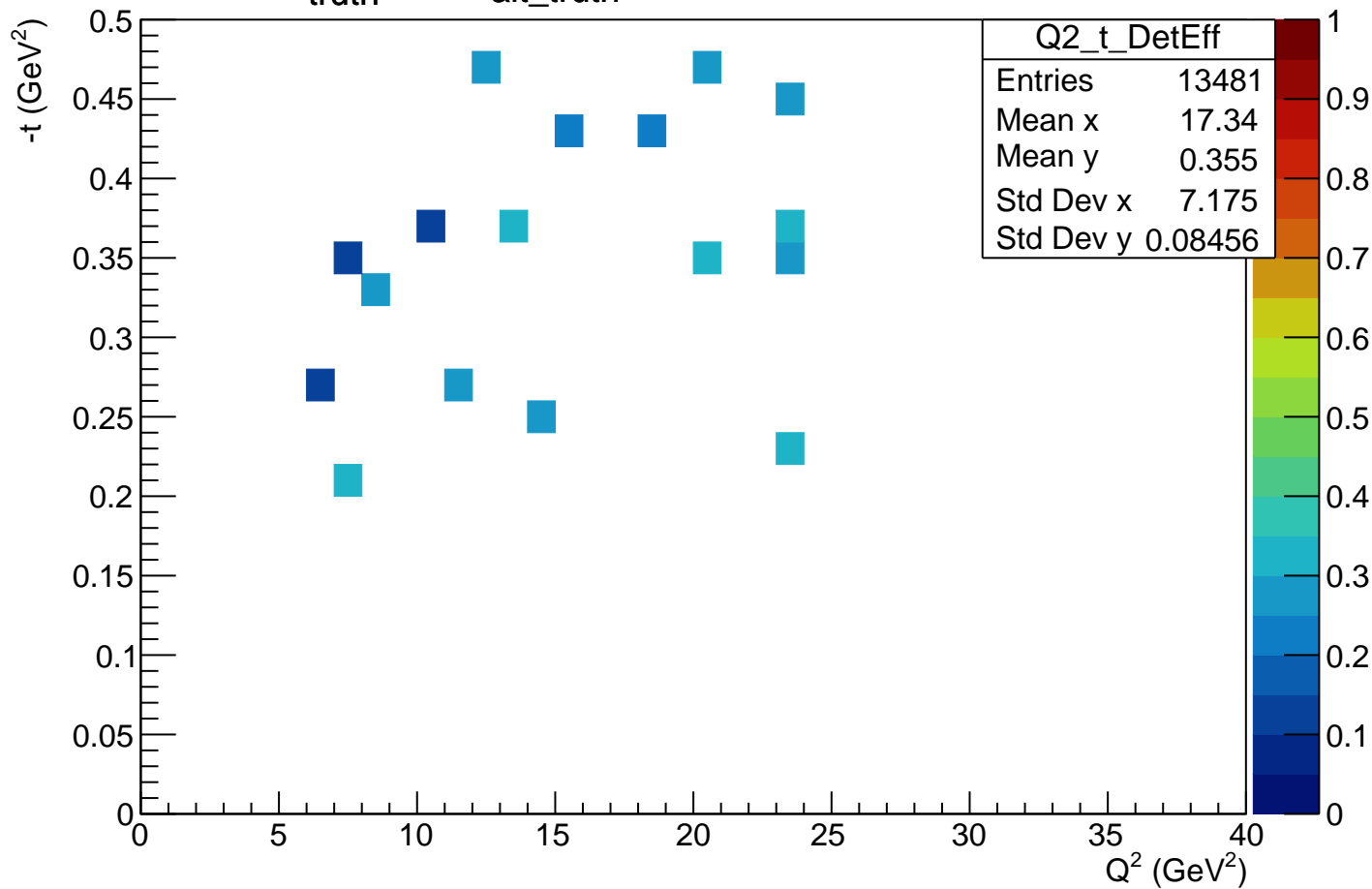
Q^2_{truth} vs $-t_{\text{alt_truth}}$ for thrown events



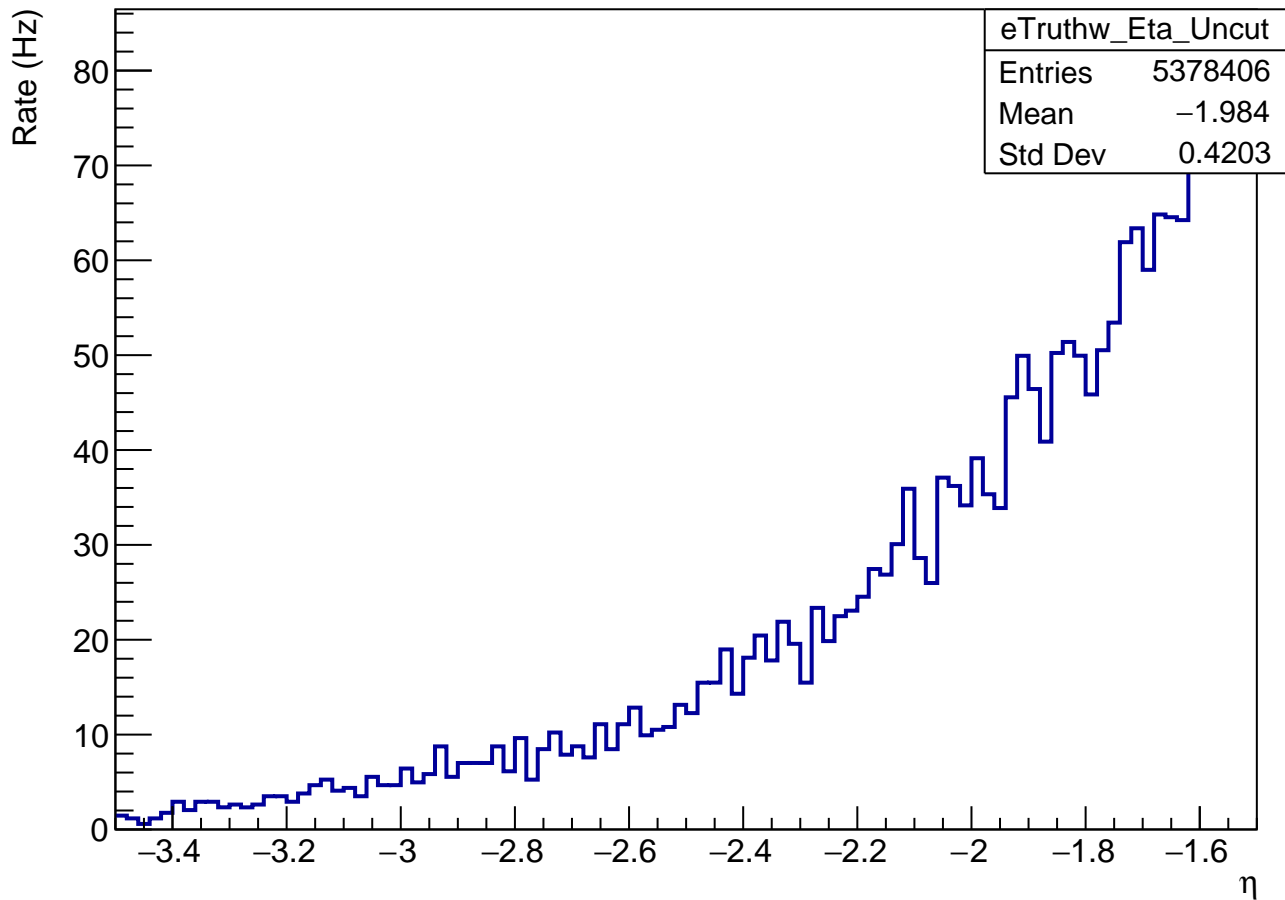
Q^2_{truth} vs $-t_{\text{alt_truth}}$ for detected events



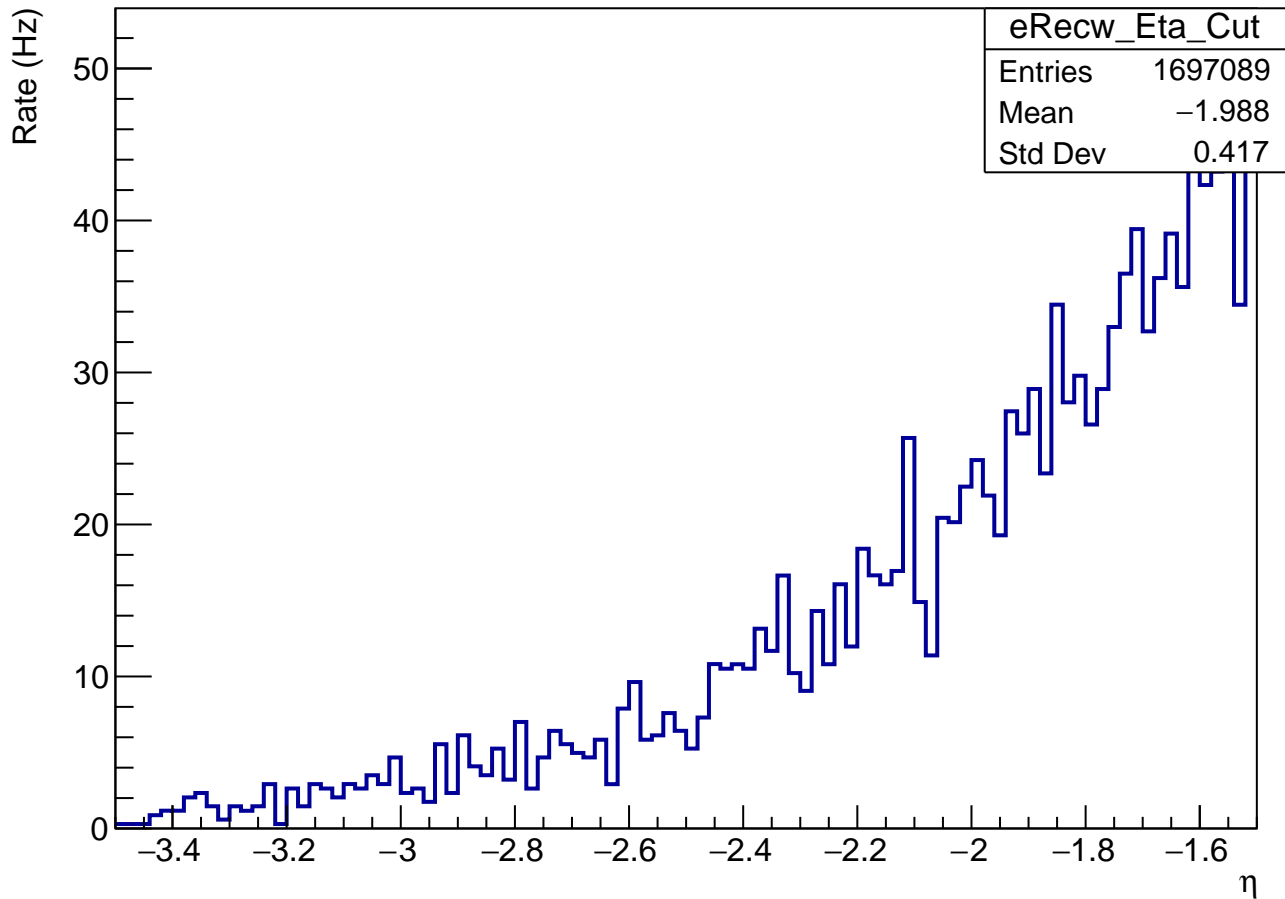
Q^2_{truth} vs $-t_{\text{alt_truth}}$ detected/thrown ratio



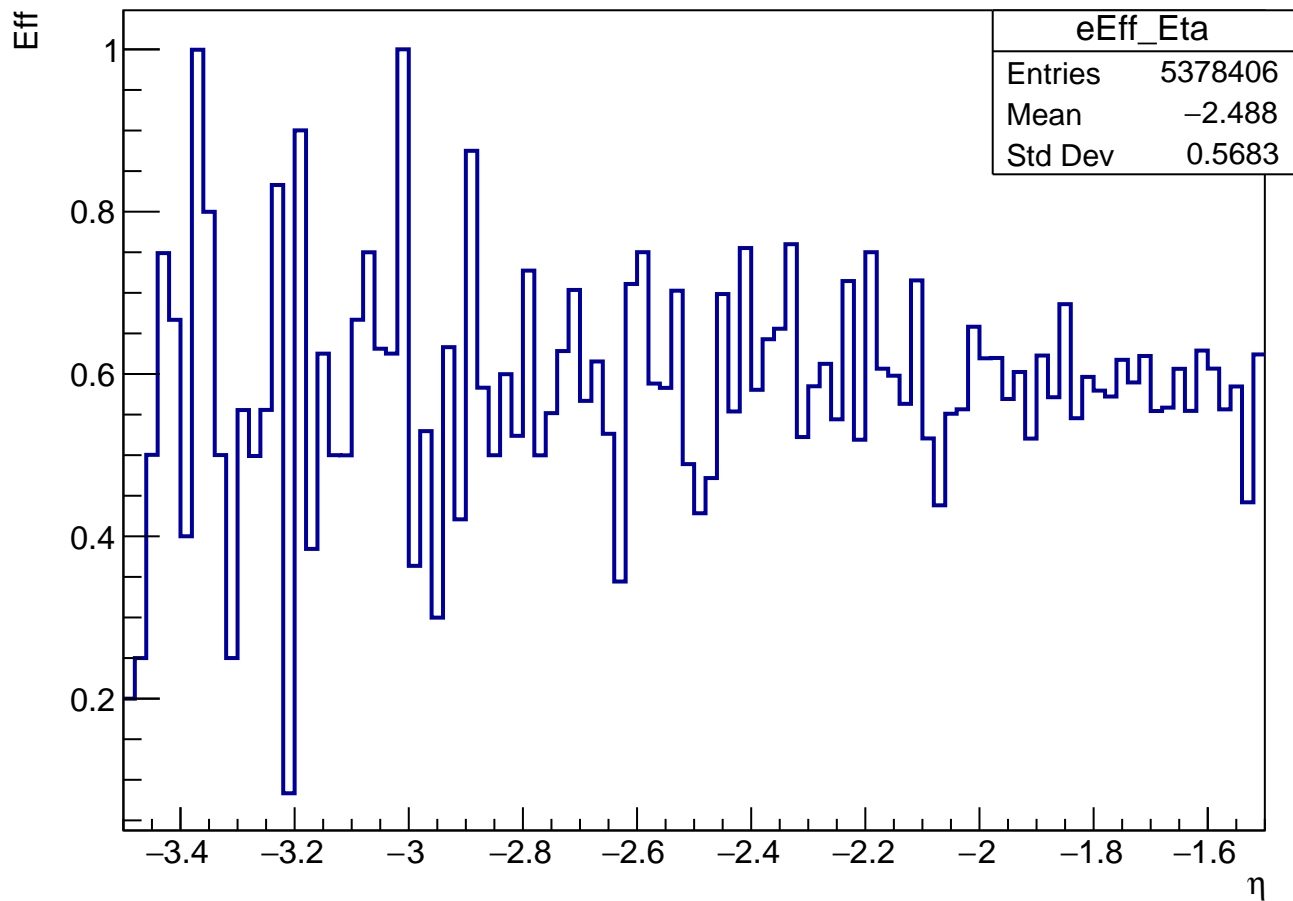
e' η for thrown events



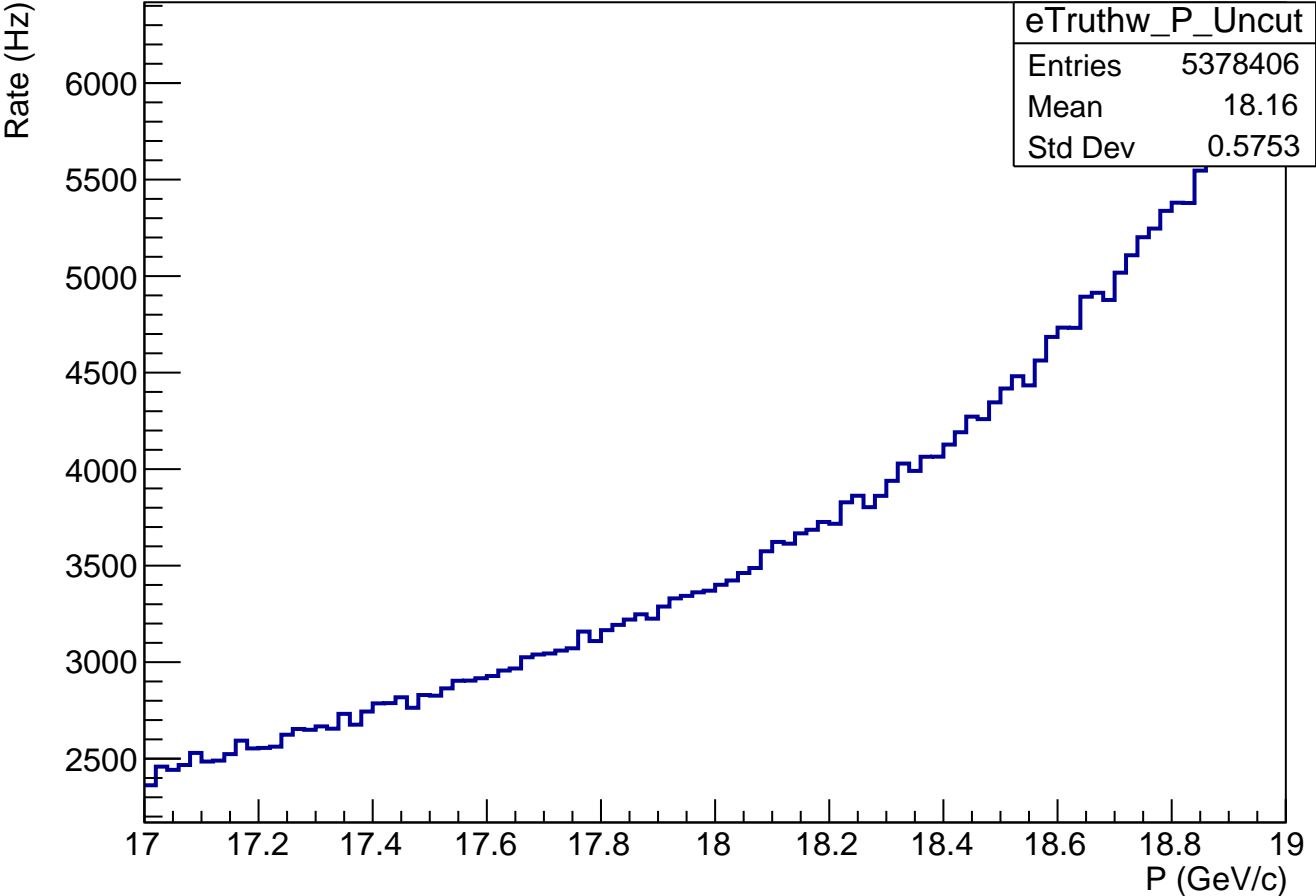
e' η for detected events



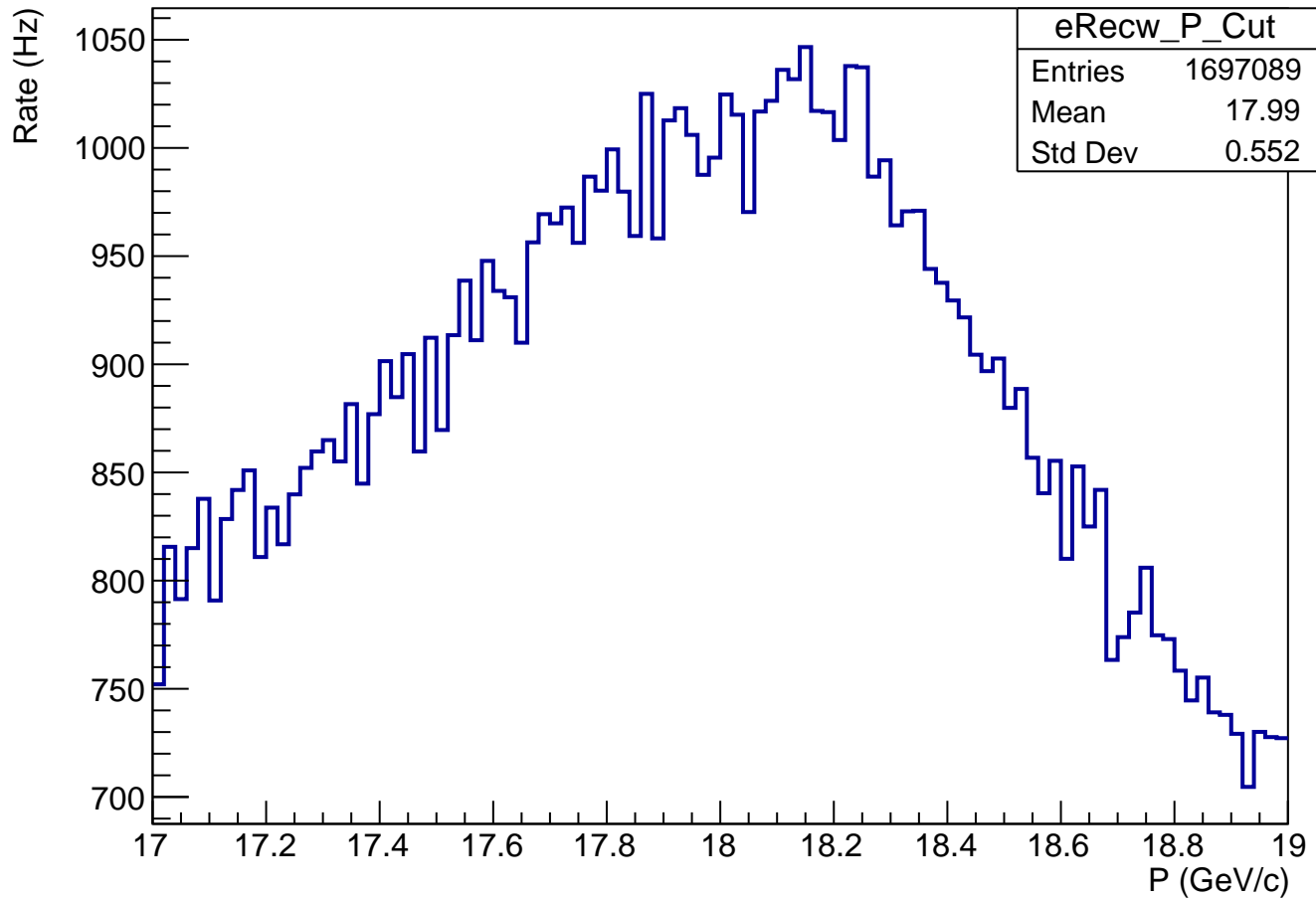
e' Tracking efficiency as fn of η



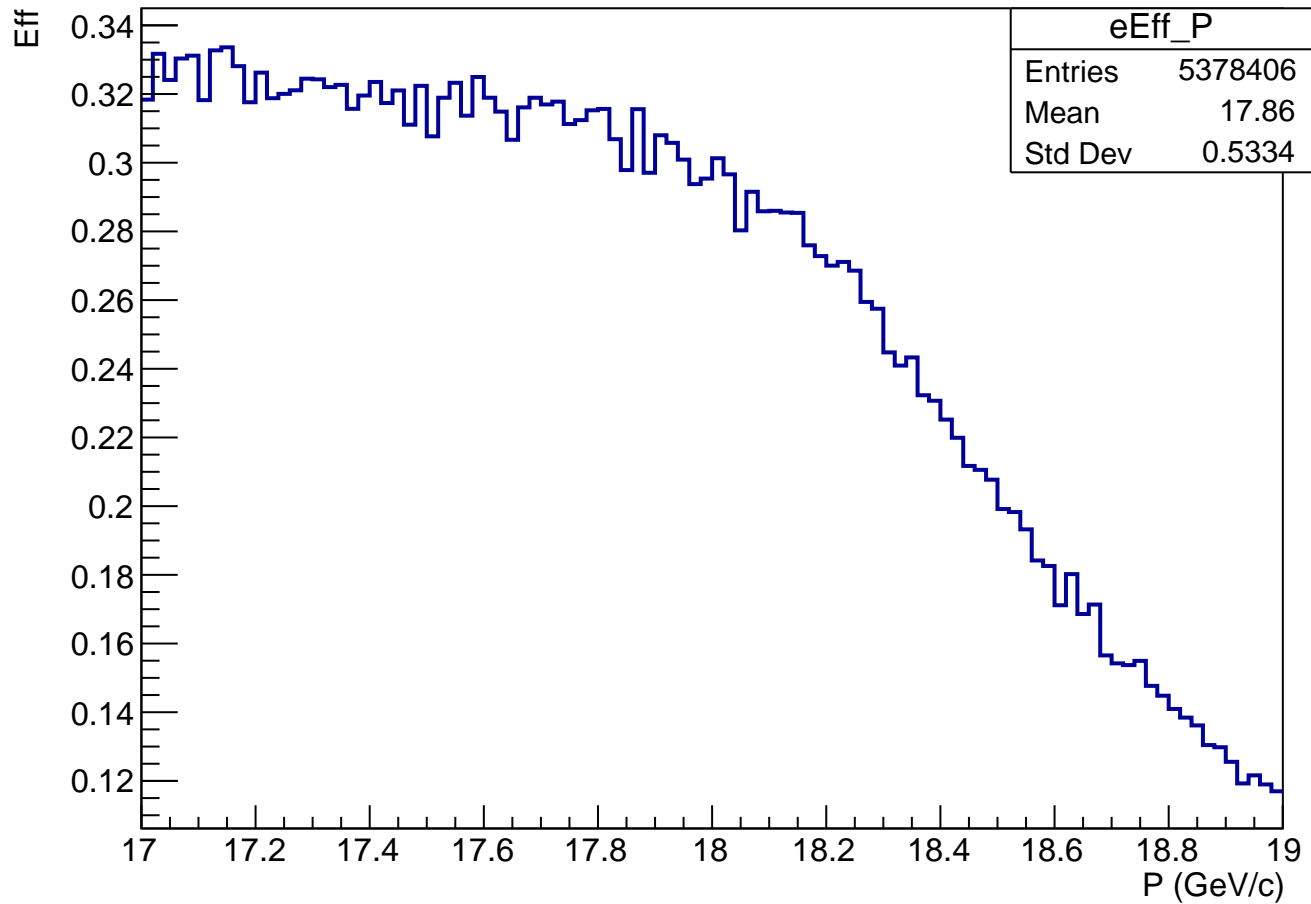
e' P for thrown events



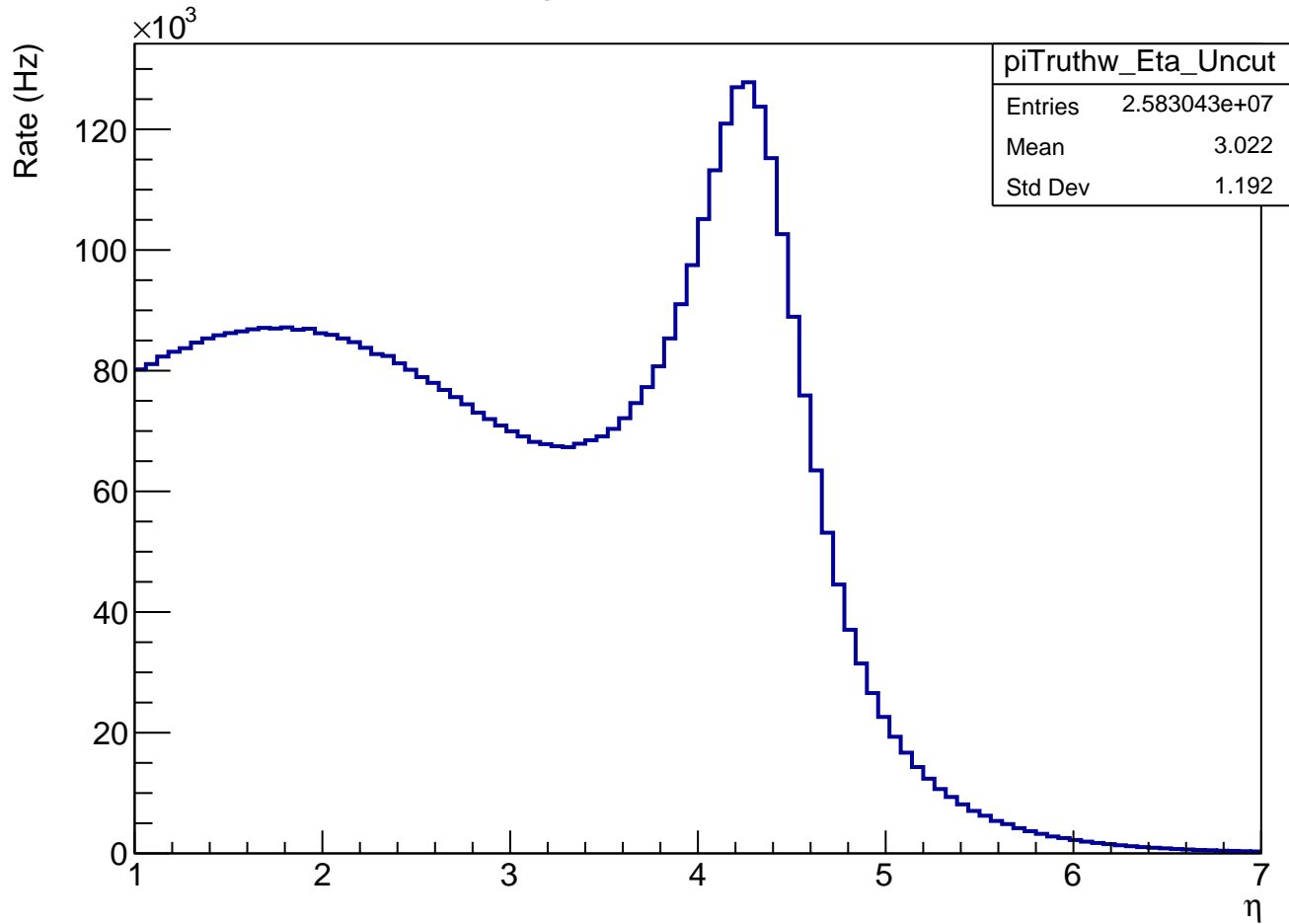
e' P for detected events



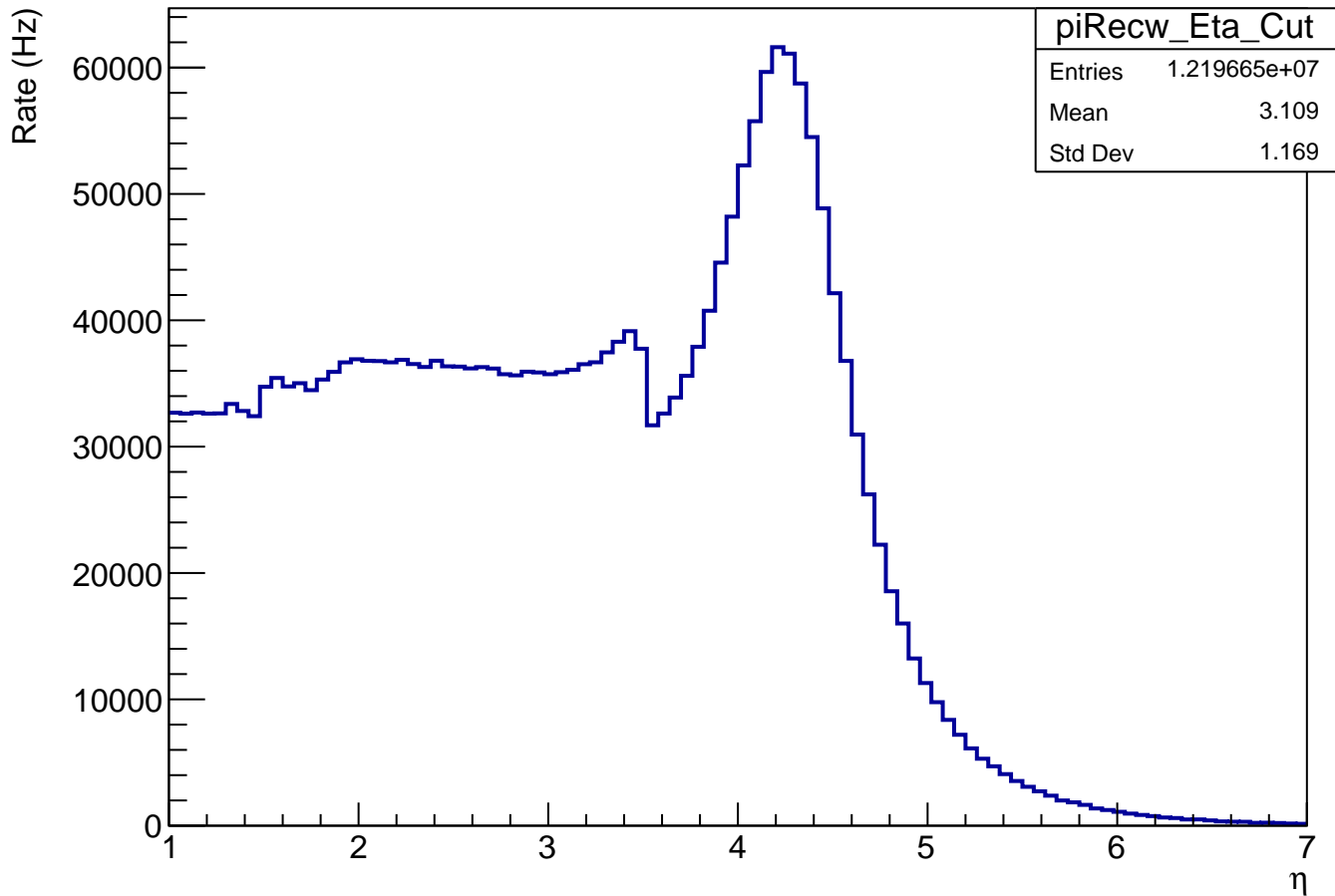
e' Tracking efficiency as fn of P



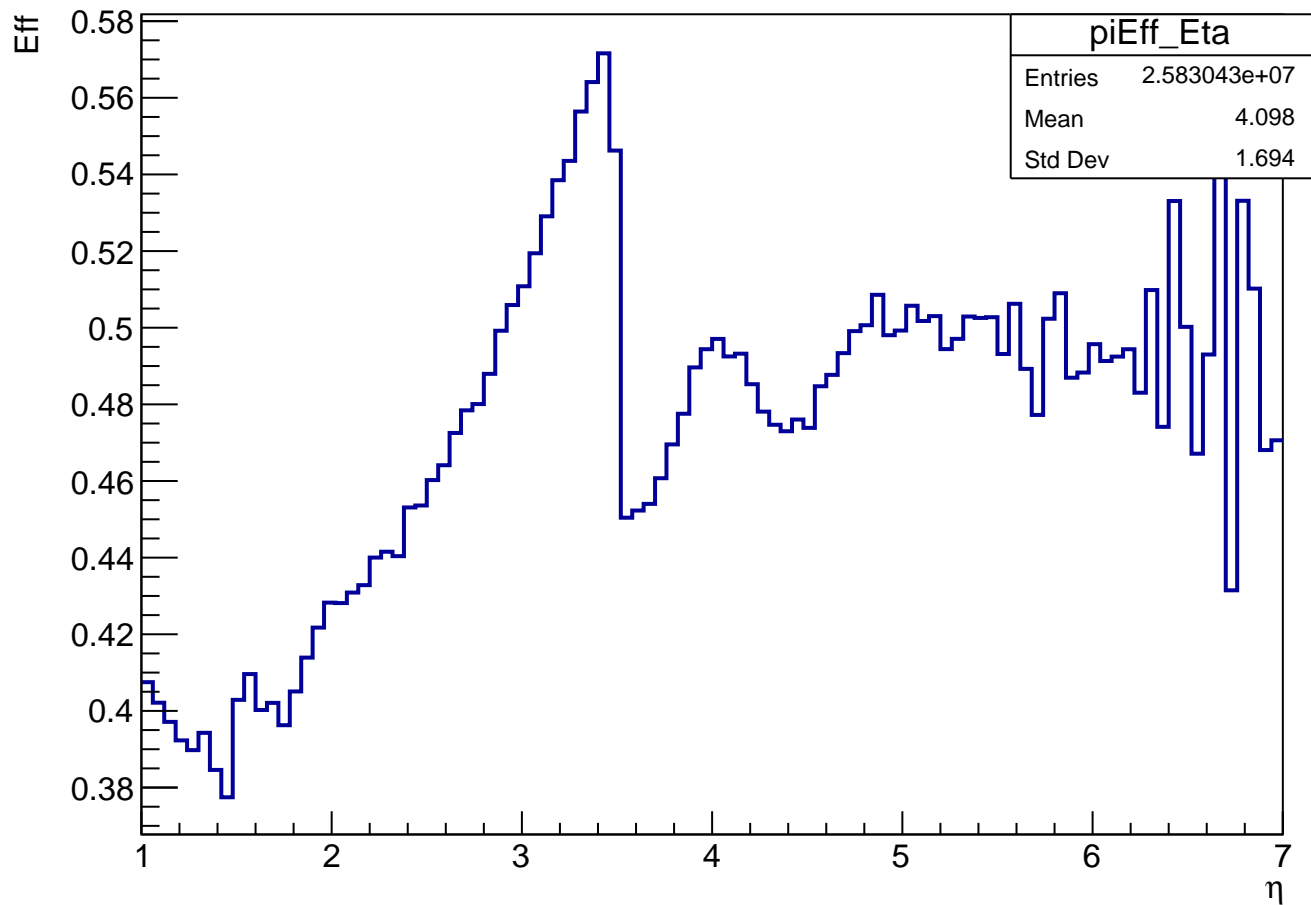
$\pi^+ \eta$ for thrown events



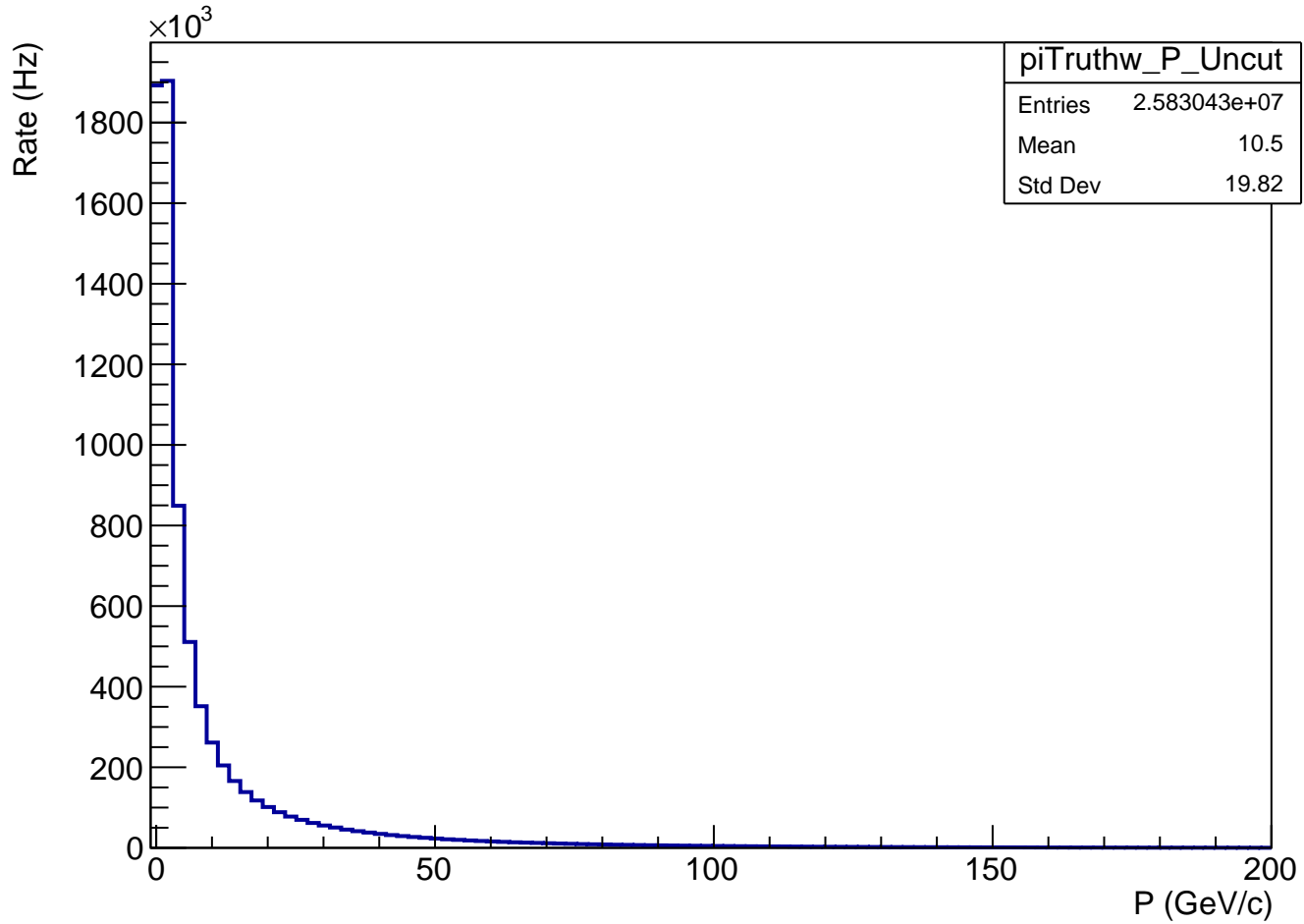
$\pi^+ \eta$ for detected events



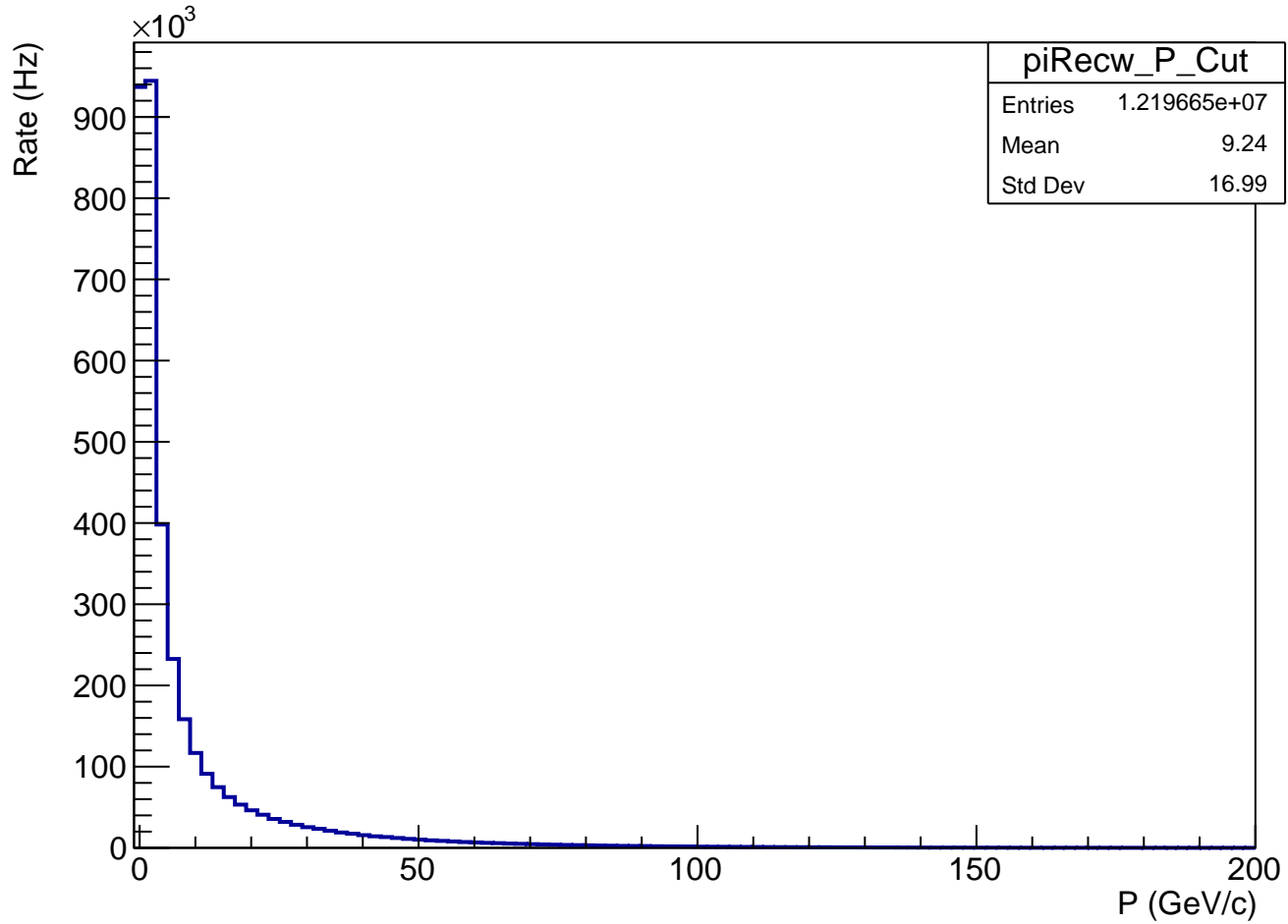
π^+ Tracking efficiency as fn of η



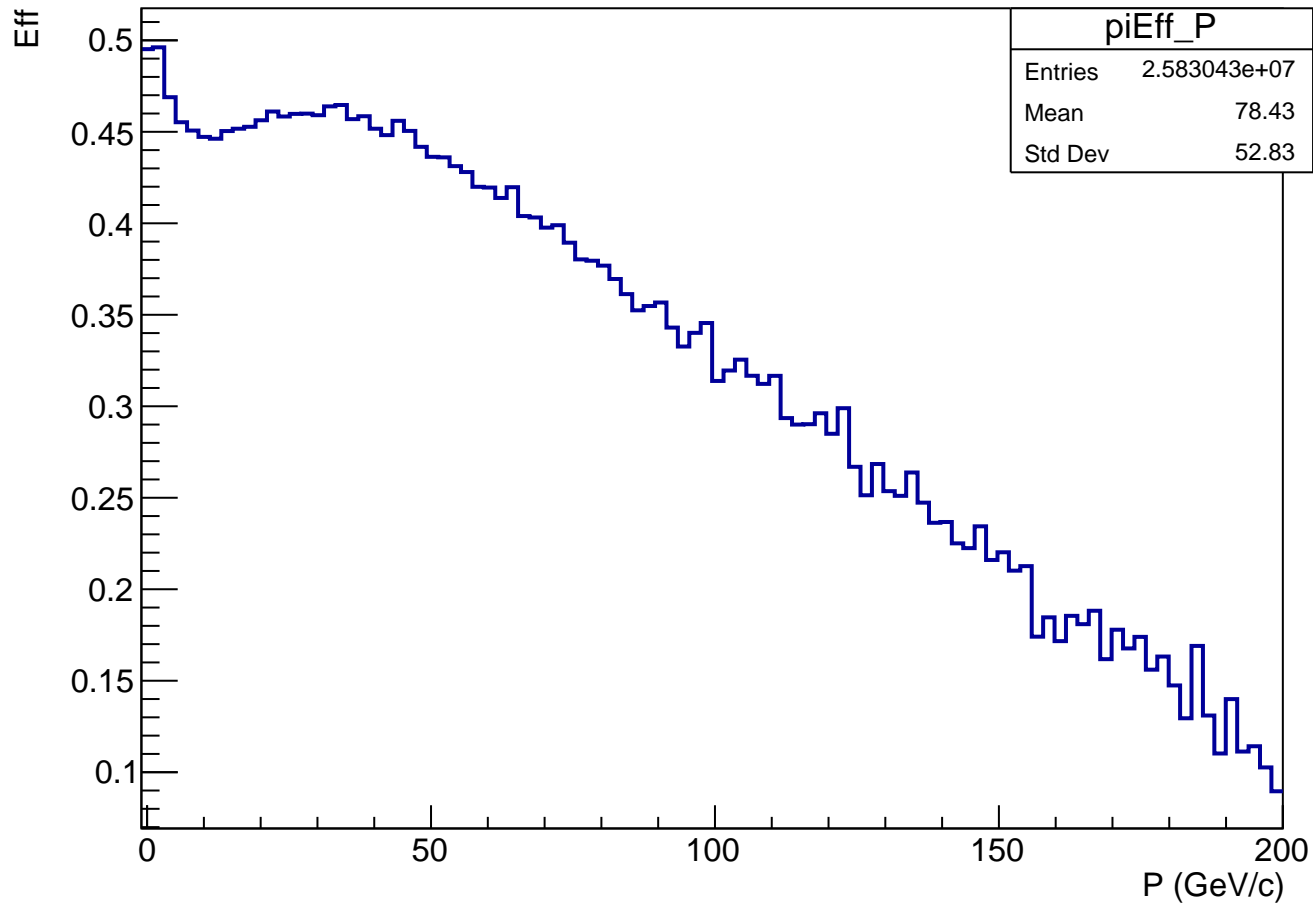
π^+ P for thrown events



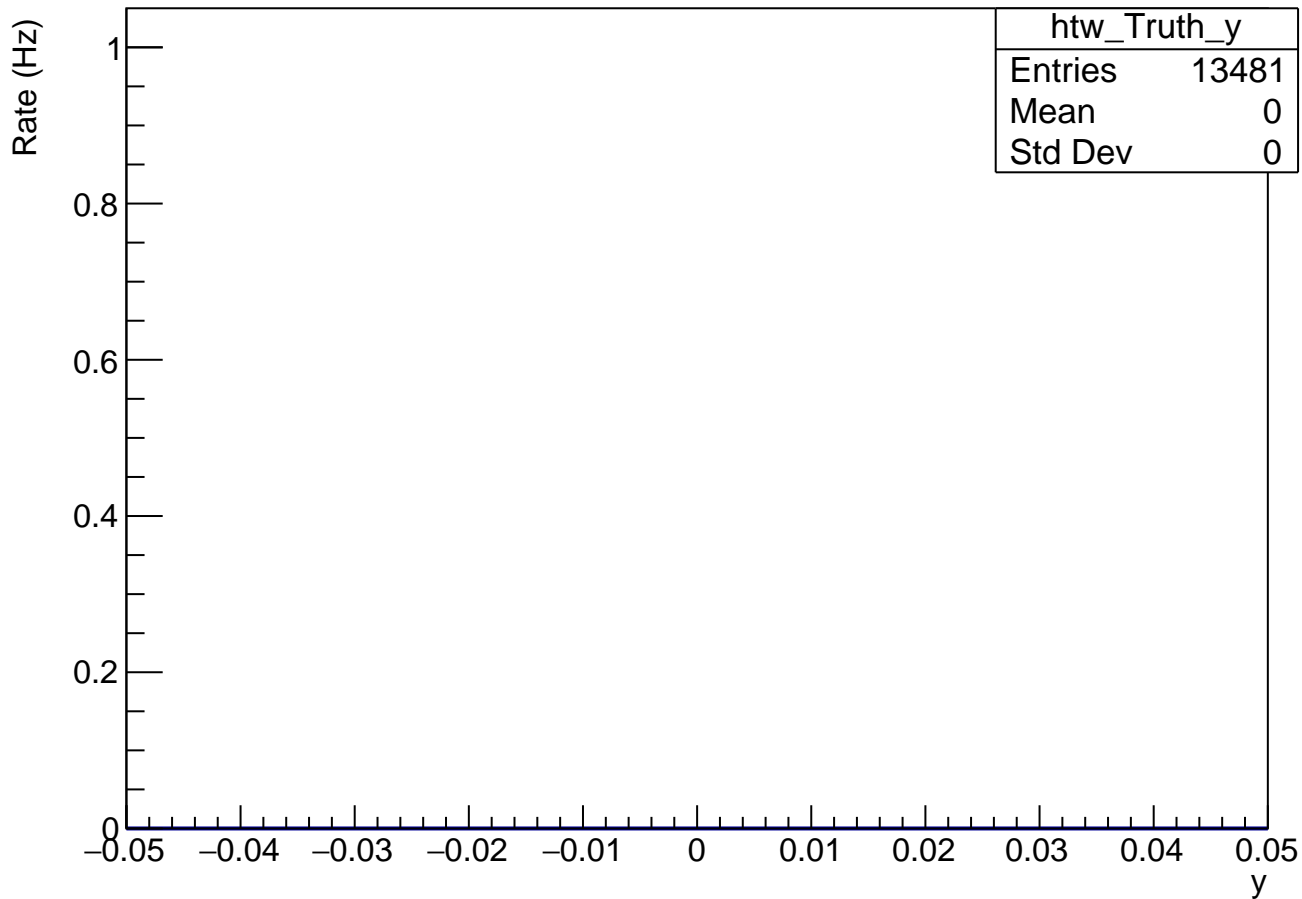
π^+ P for detected events



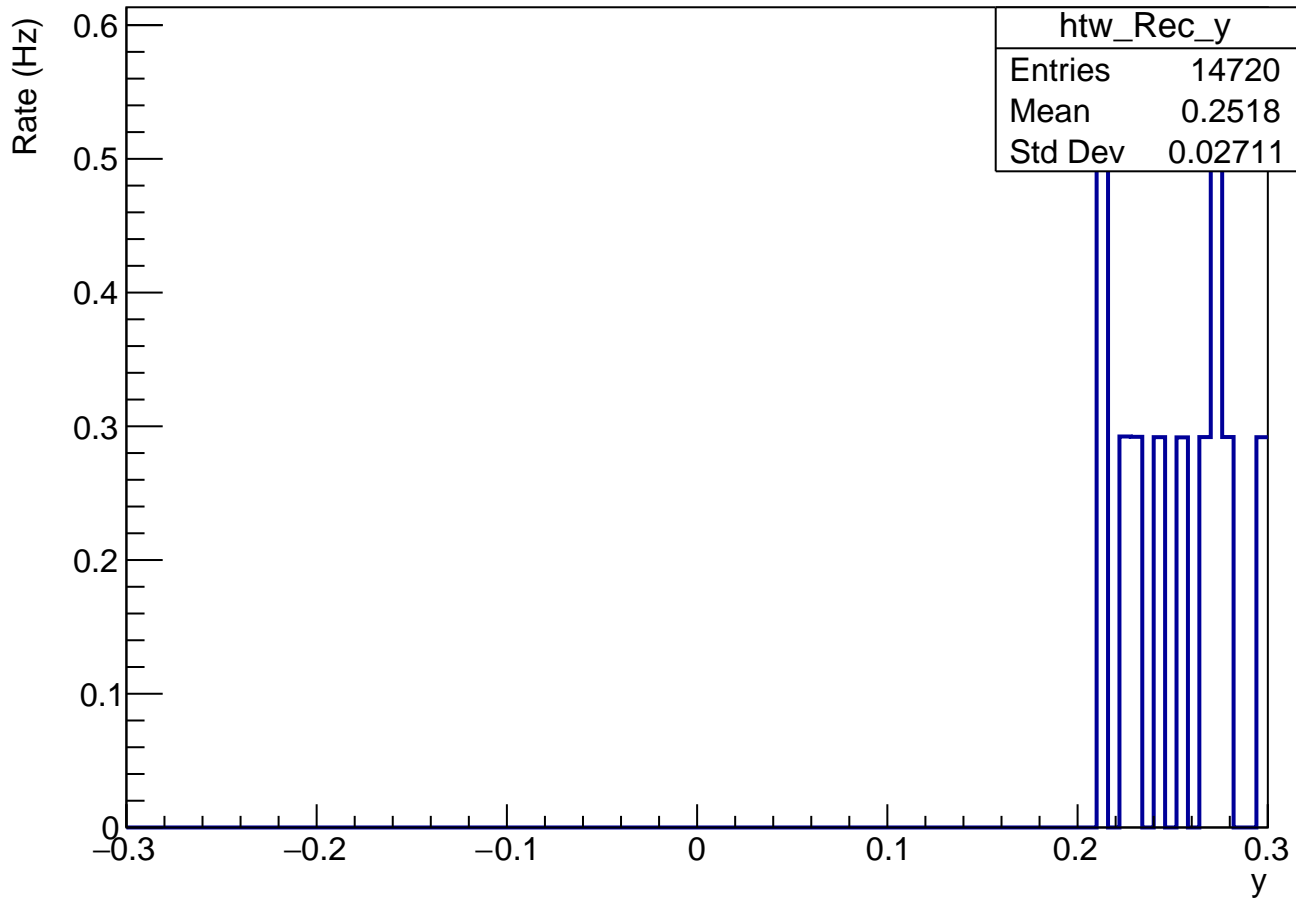
π^+ Tracking efficiency as fn of P



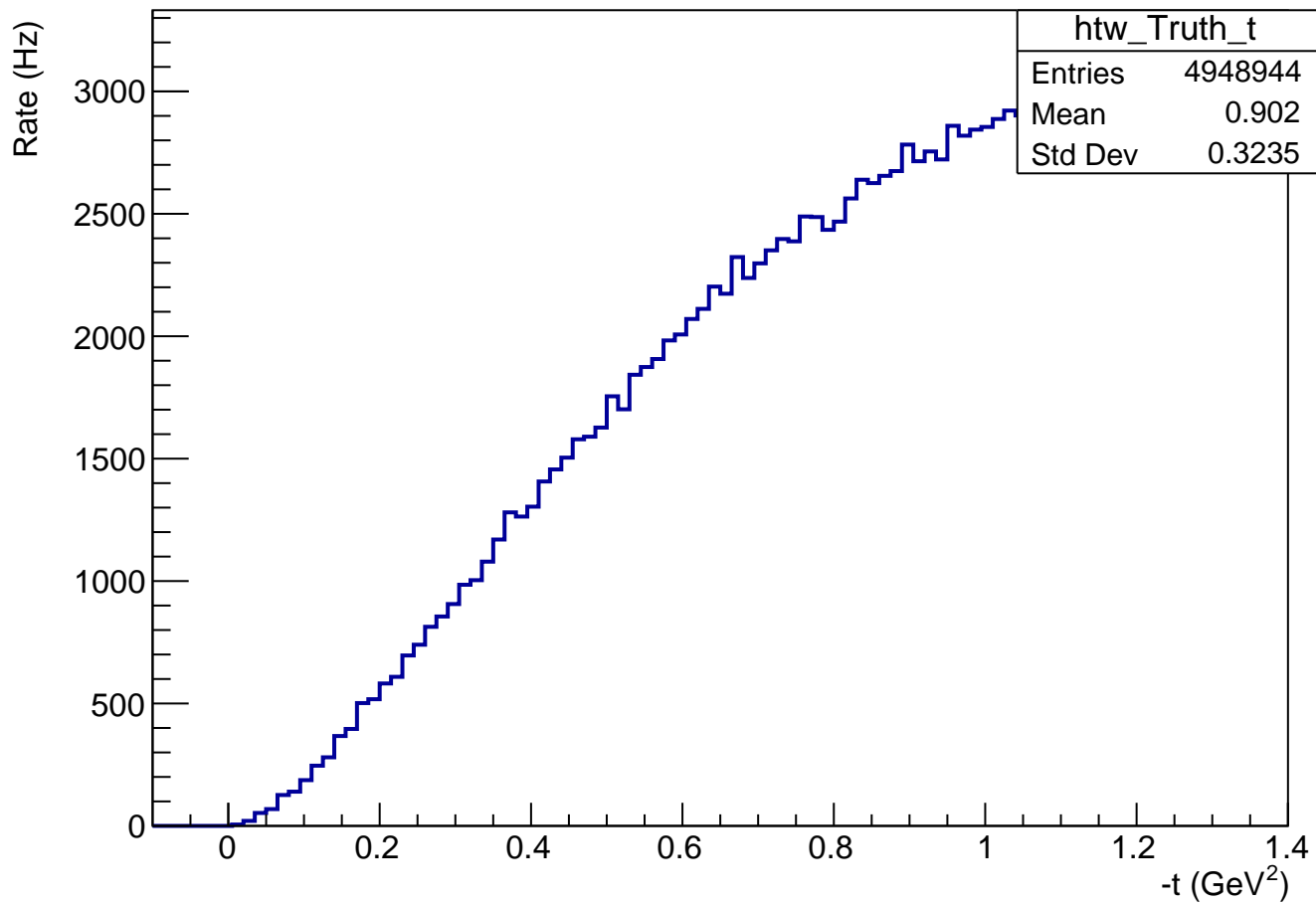
y truth Distribution



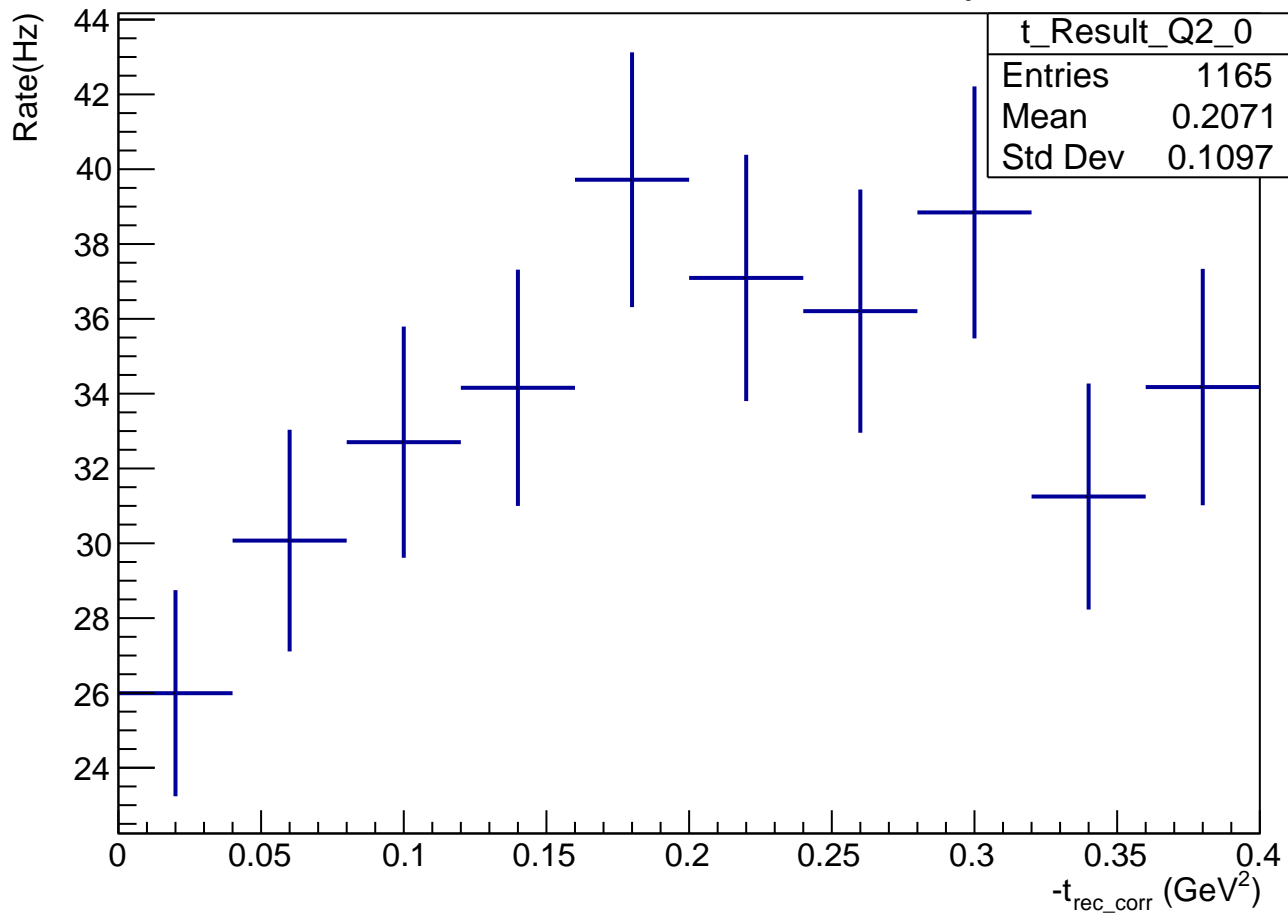
y rec Distribution



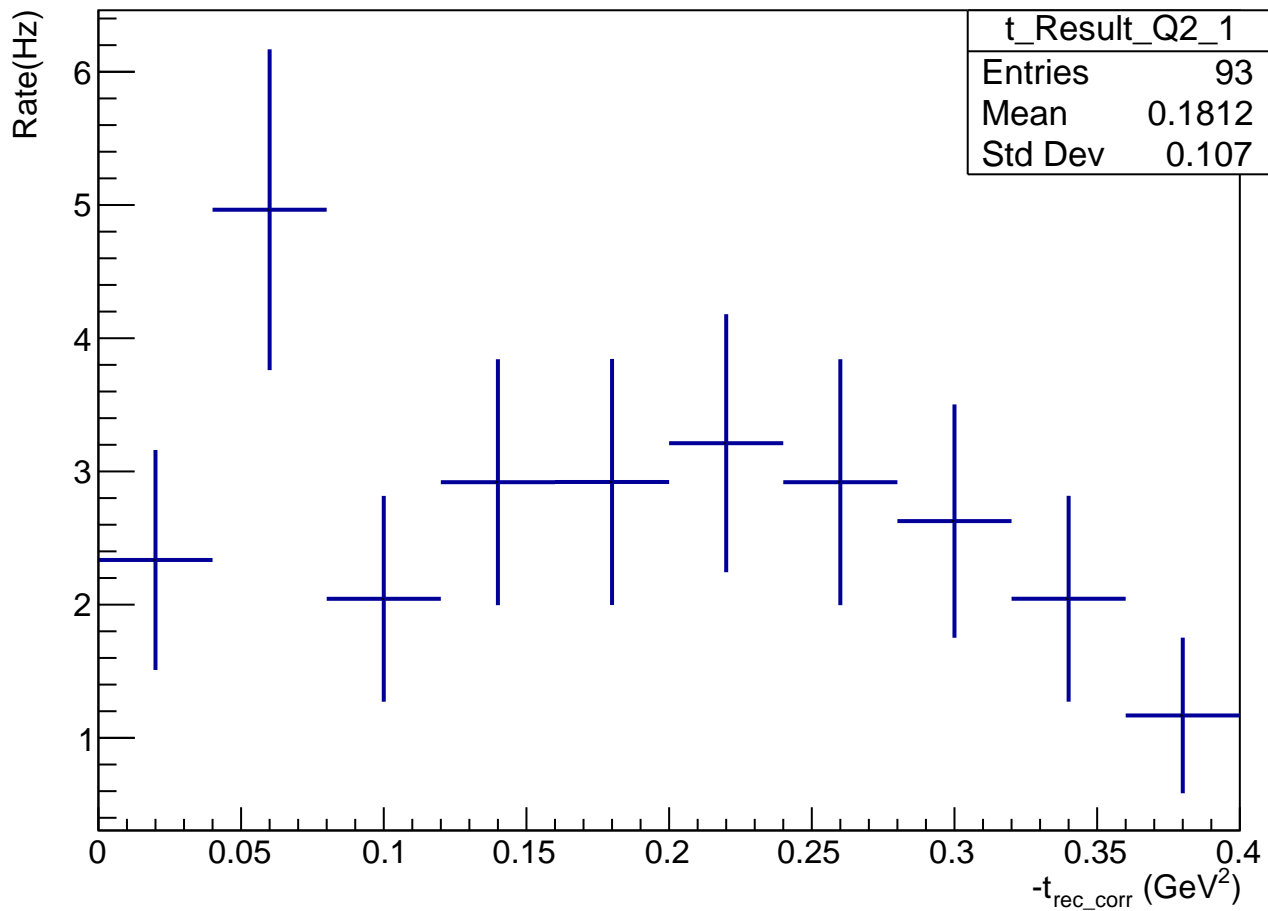
-t truth Distribution



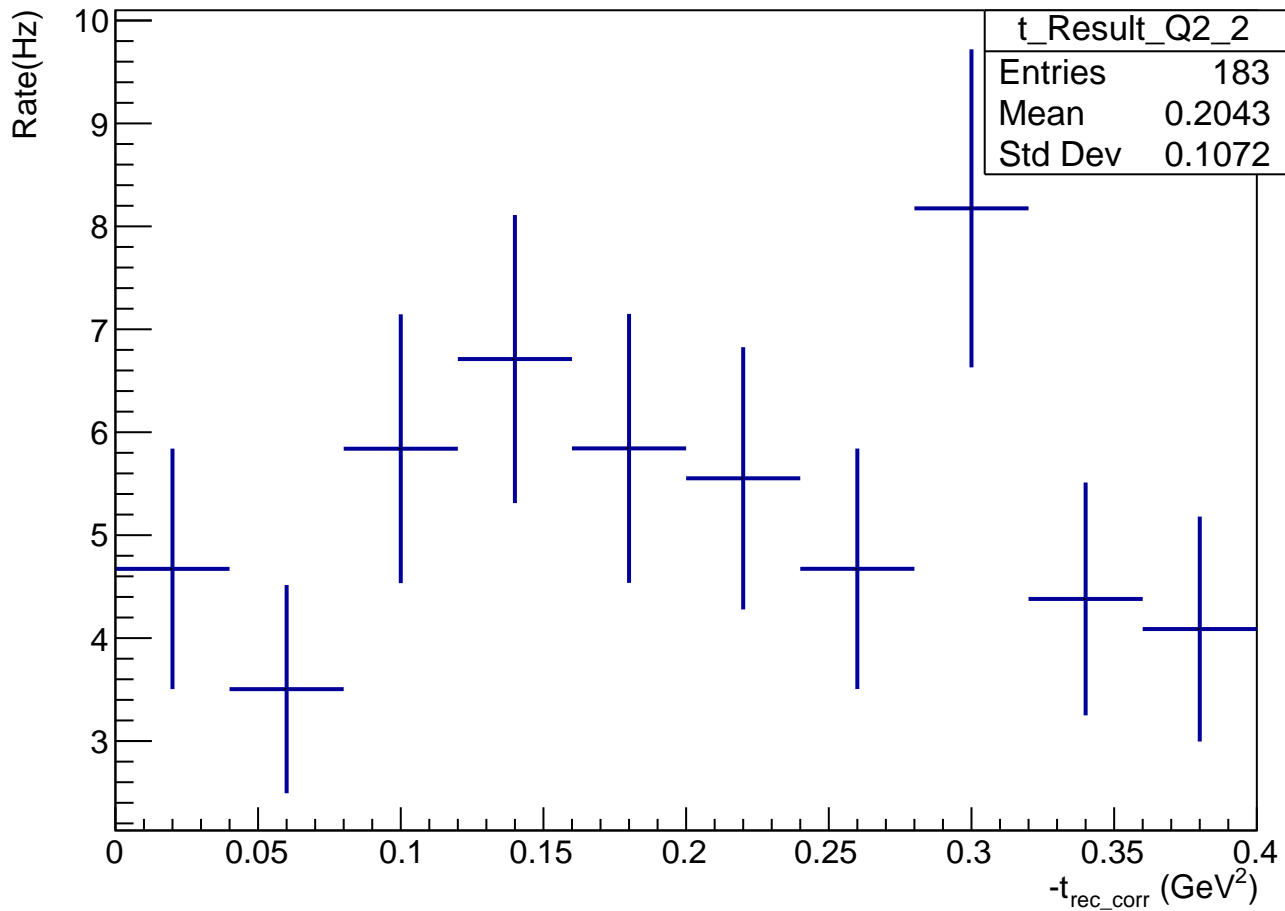
-t dist w/ $5.0 < Q^2 < 35.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



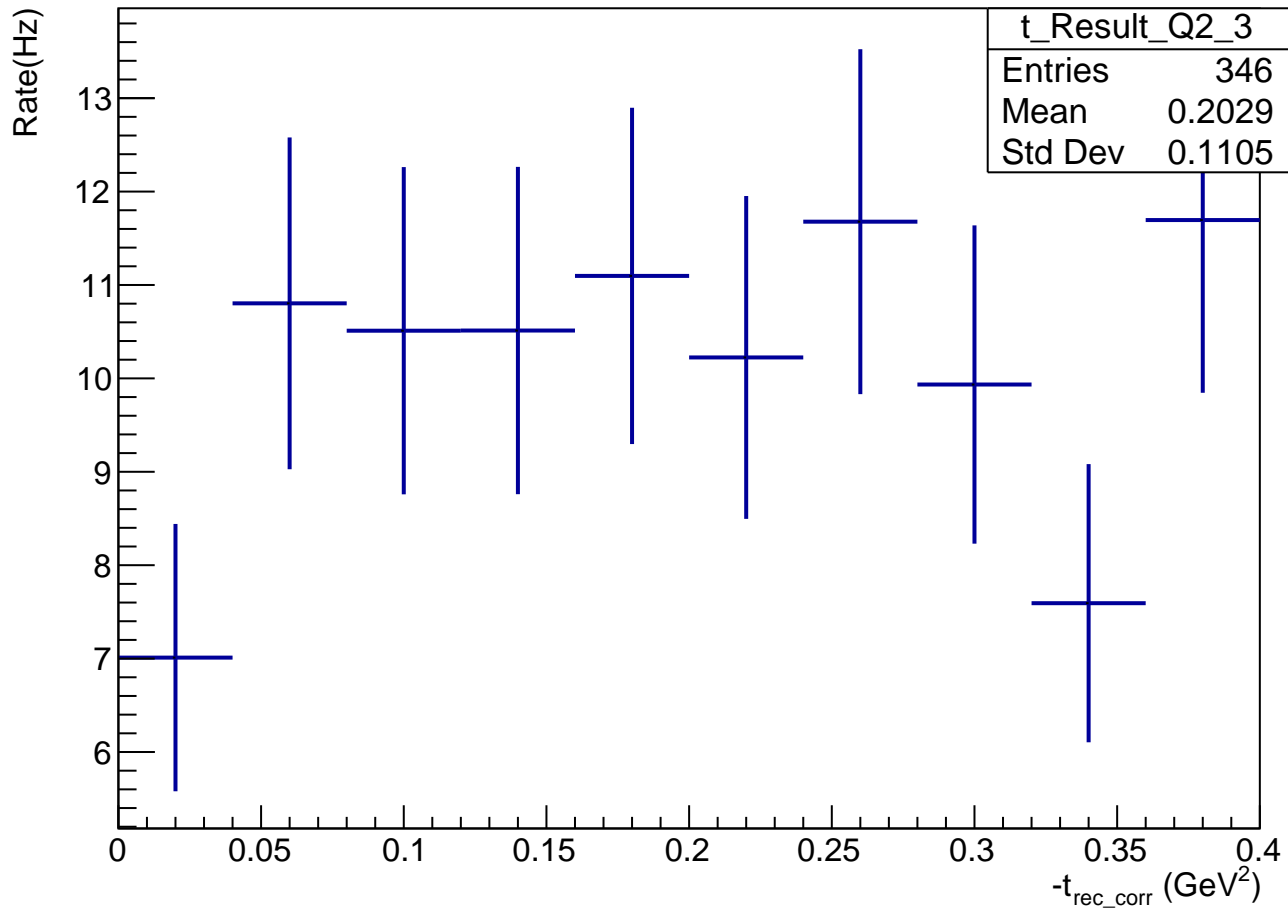
-t dist w/ $5.0 < Q^2 < 7.5$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



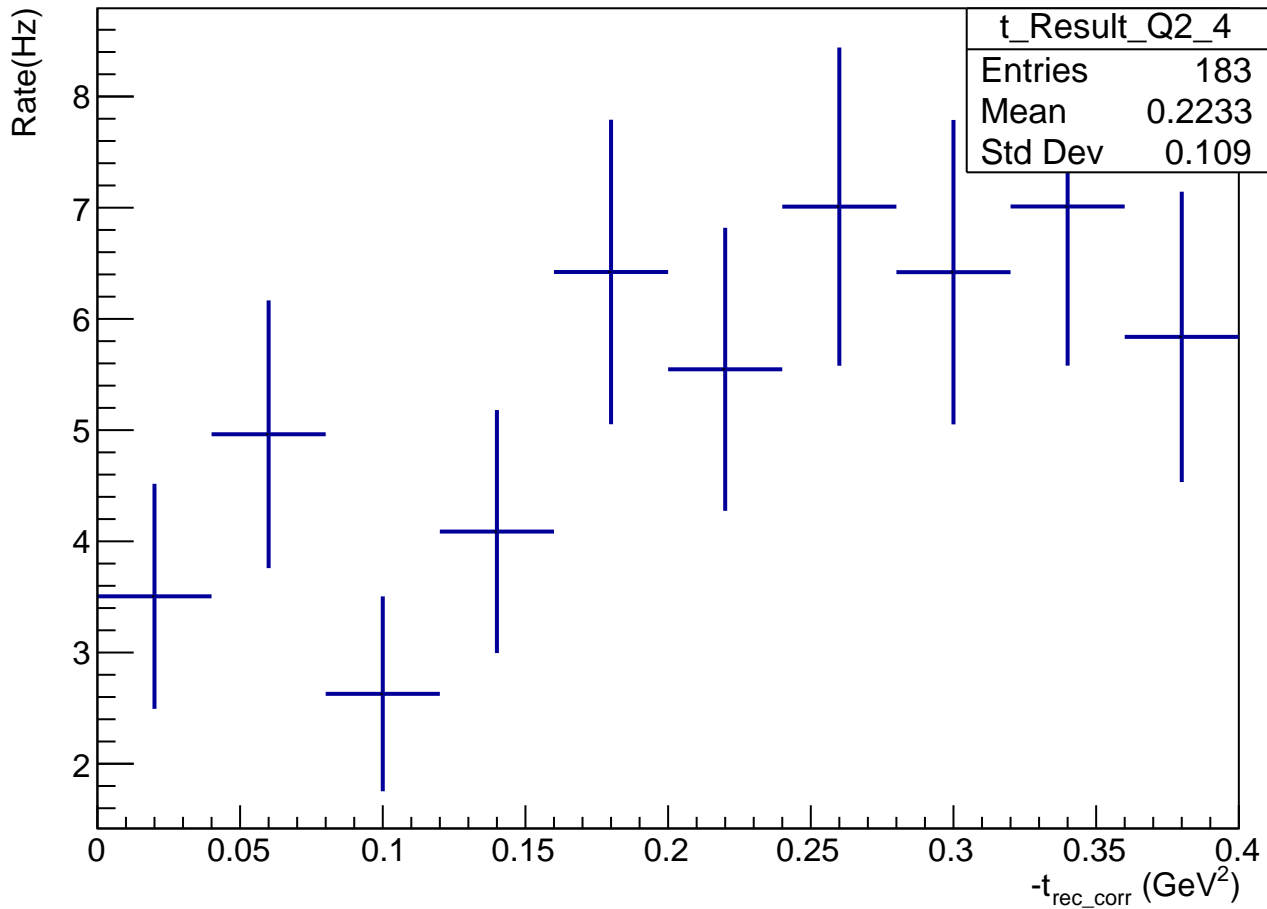
-t dist w/ $7.5 < Q^2 < 10.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



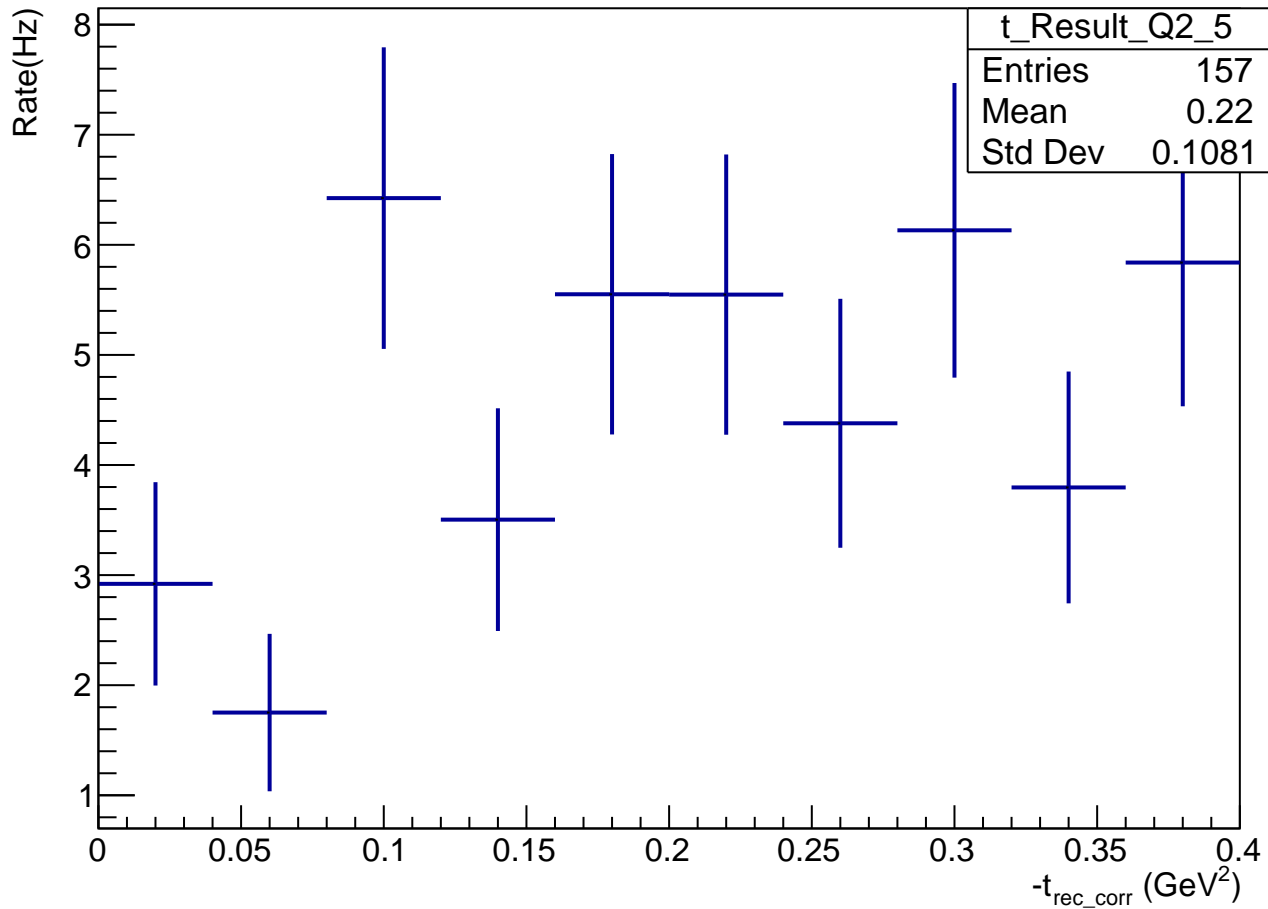
-t dist w/ $10.0 < Q^2 < 15.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



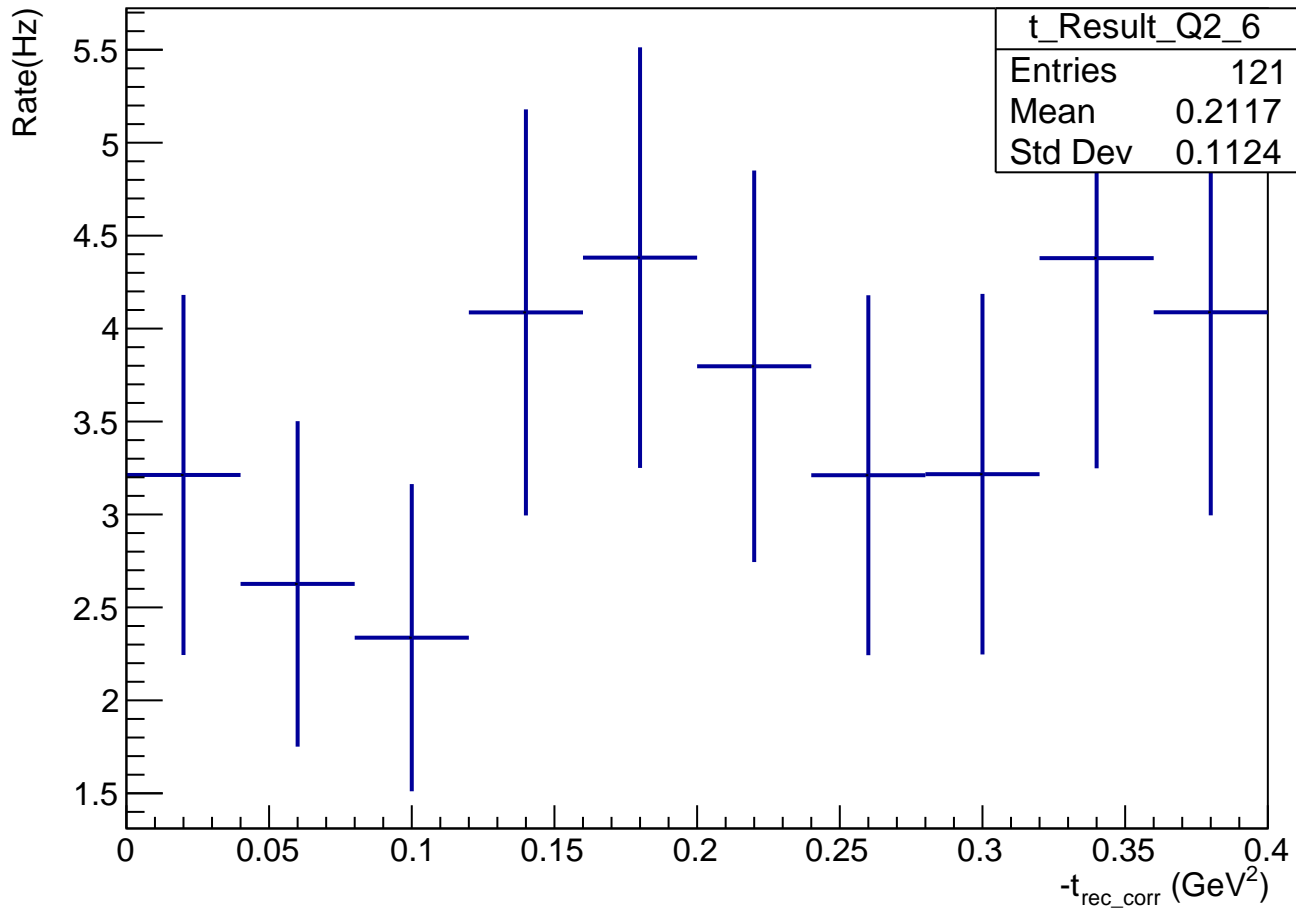
-t dist w/ $15.0 < Q^2 < 20.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



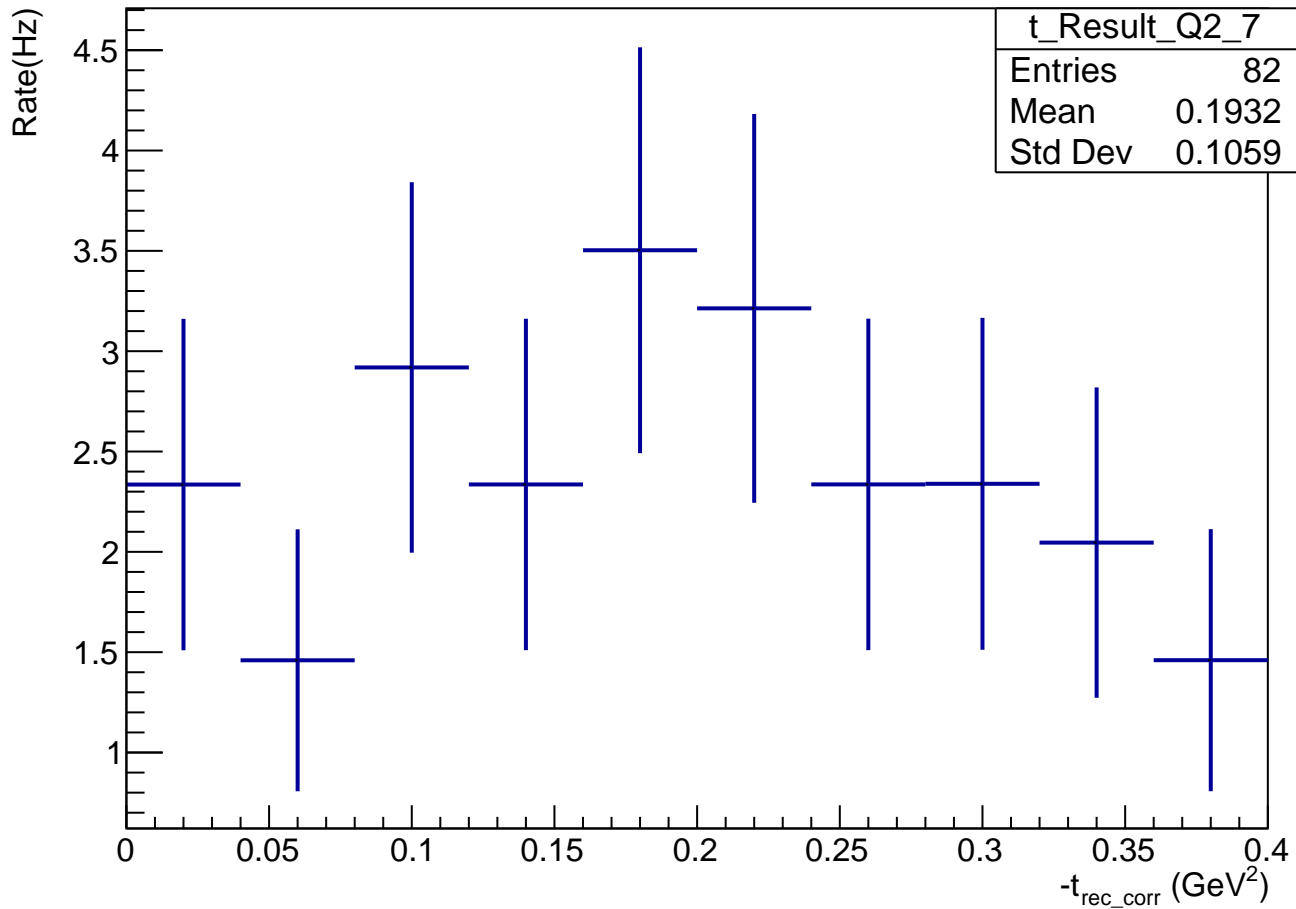
-t dist w/ $20.0 < Q^2 < 25.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



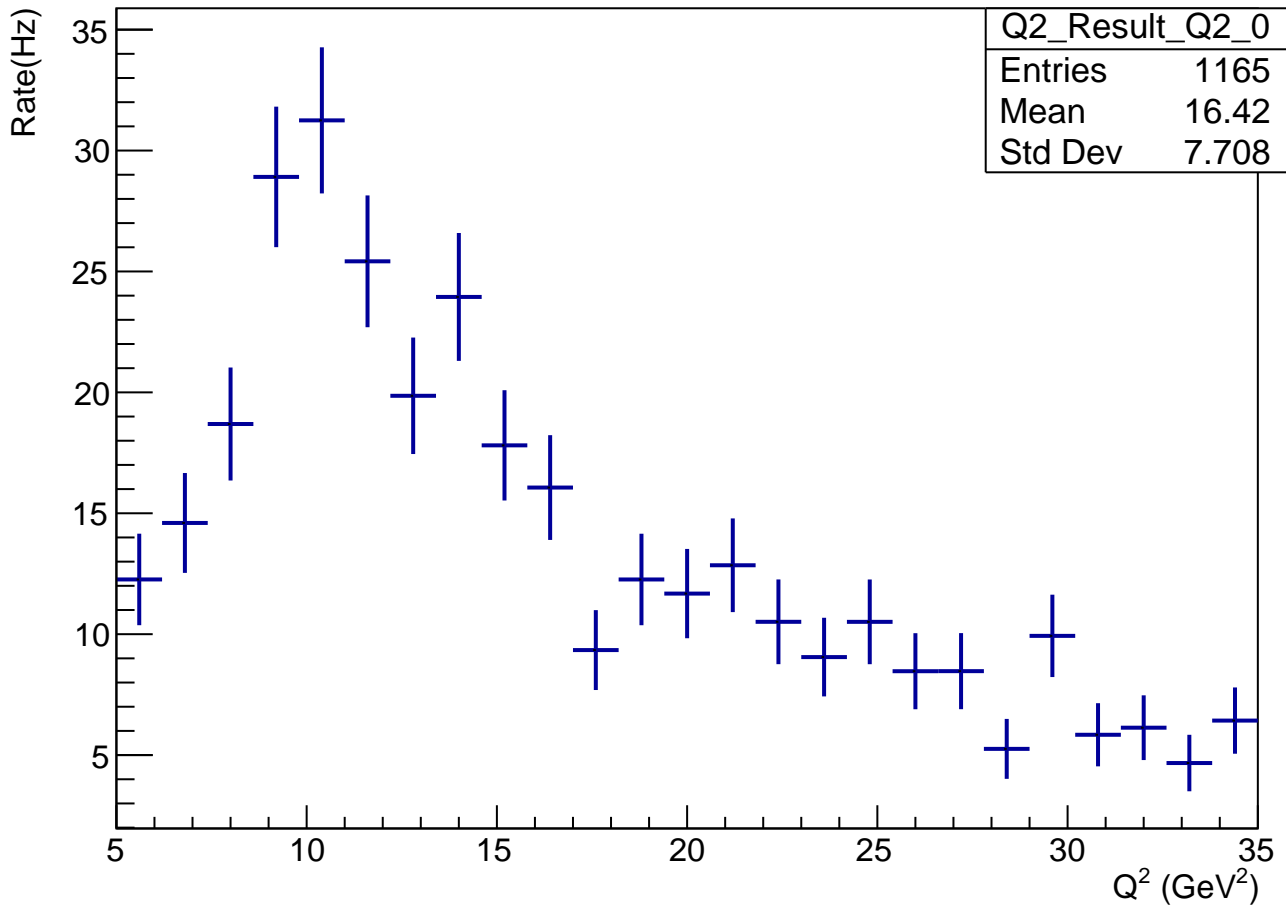
-t dist w/ $25.0 < Q^2 < 30.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



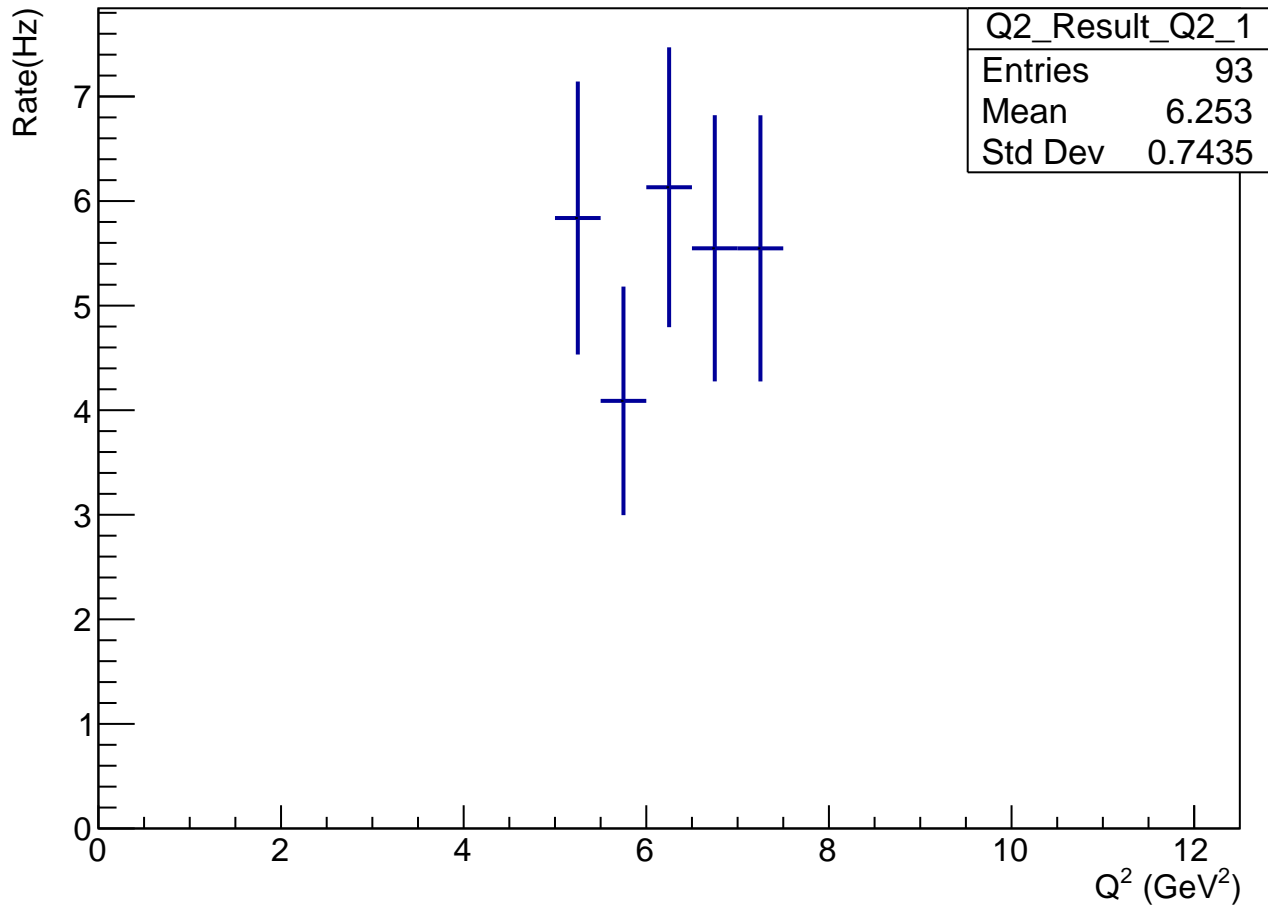
-t dist w/ $30.0 < Q^2 < 35.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



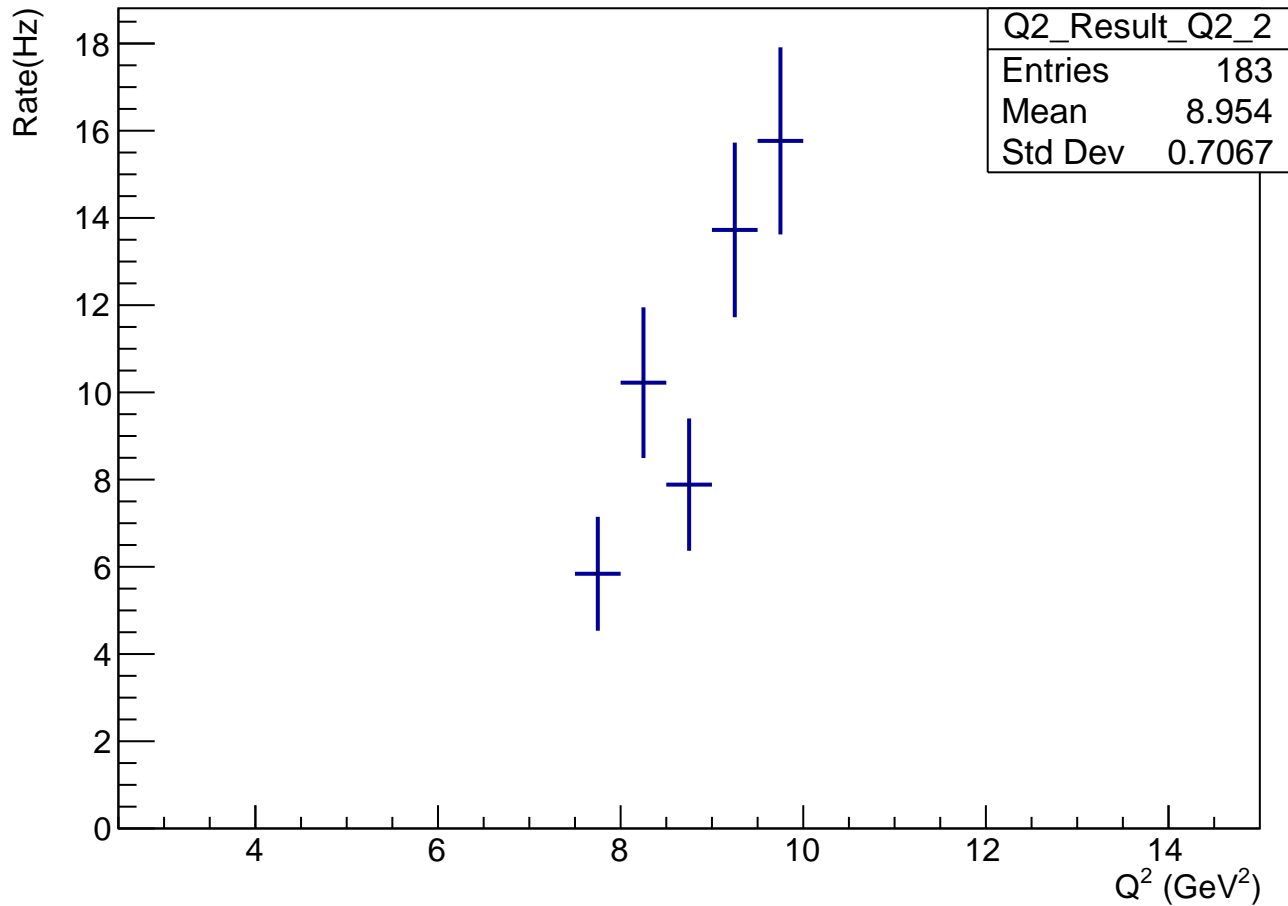
Q^2 dist w/ $5.0 < Q^2 < 35.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



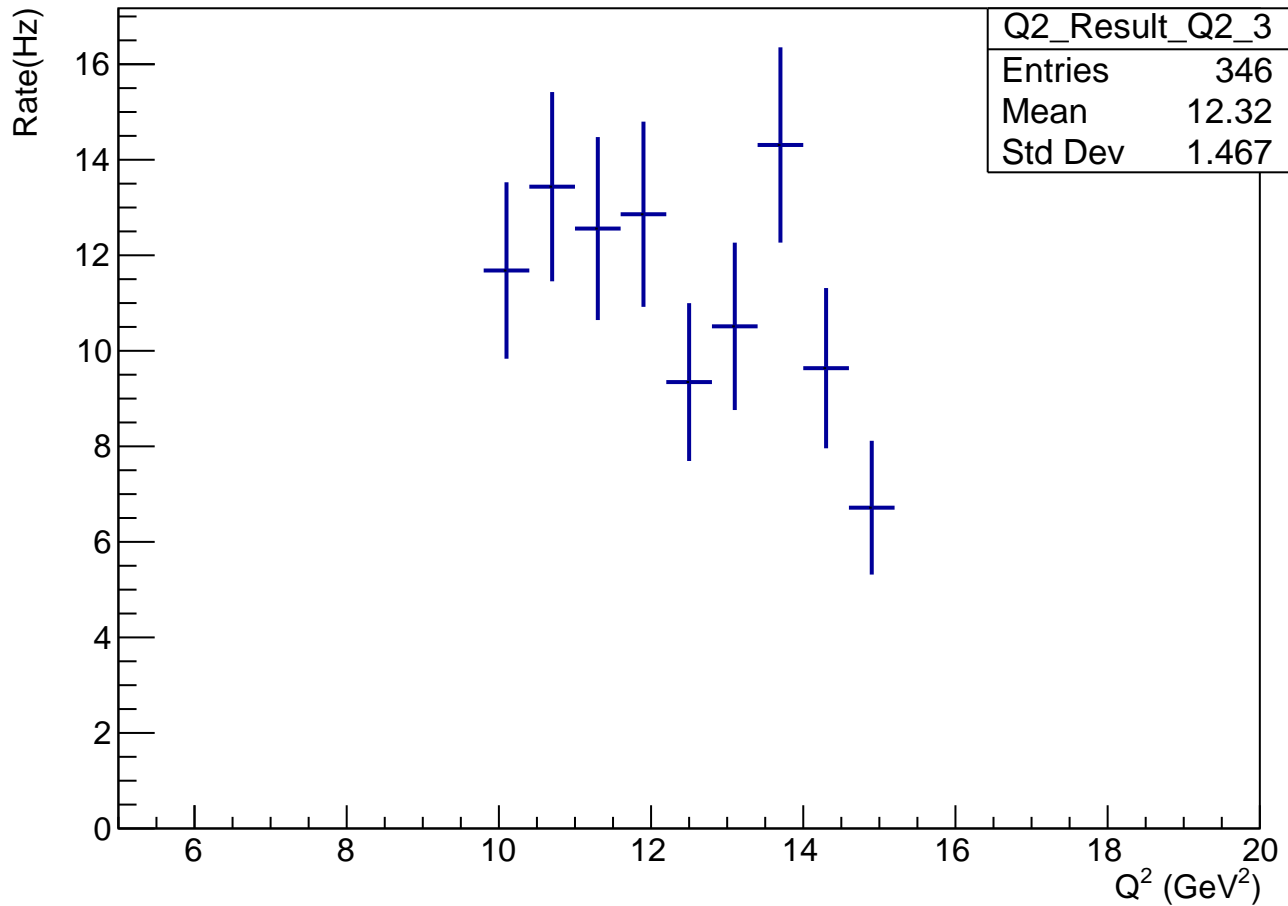
Q^2 dist w/ $5.0 < Q^2 < 7.5$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



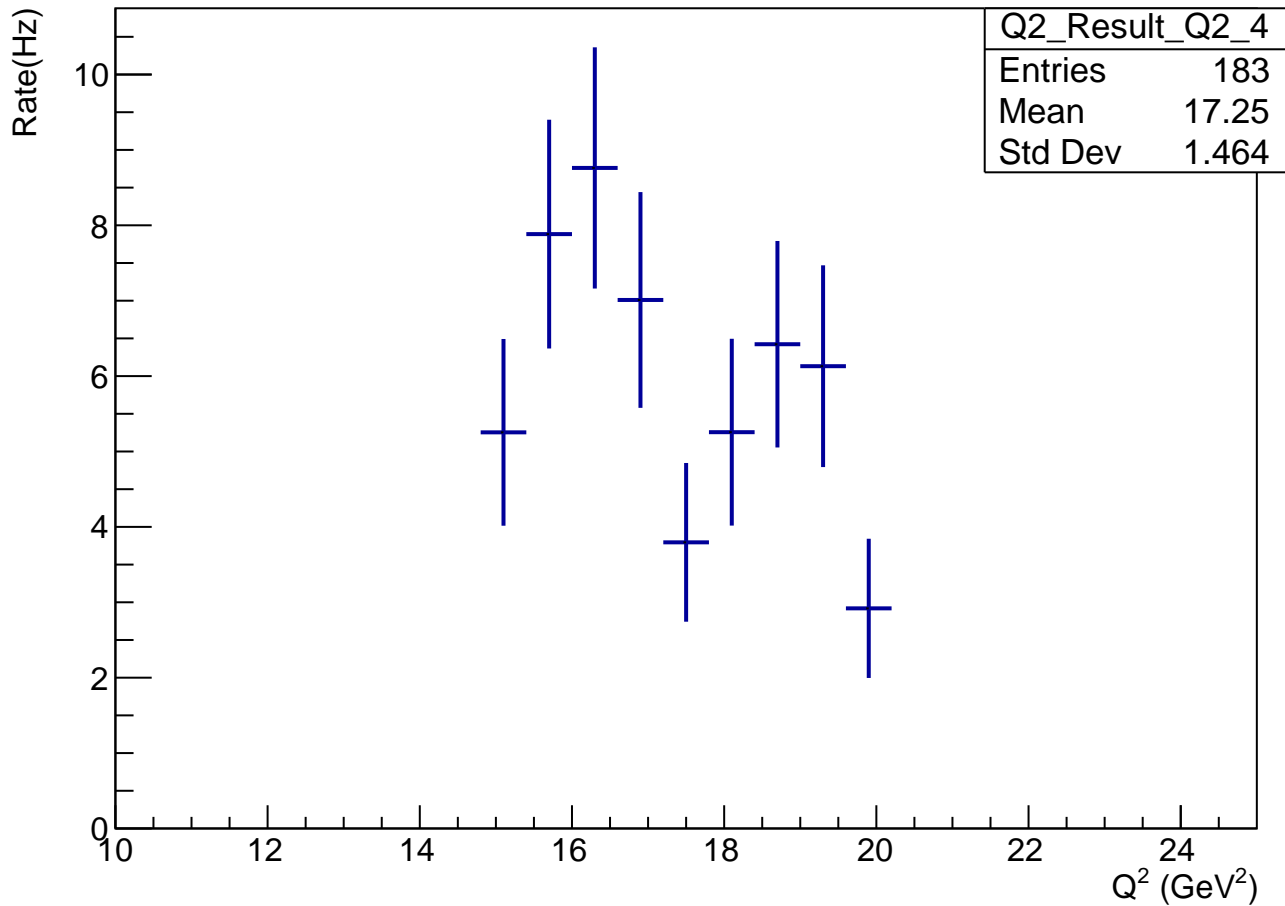
Q^2 dist w/ $7.5 < Q^2 < 10.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



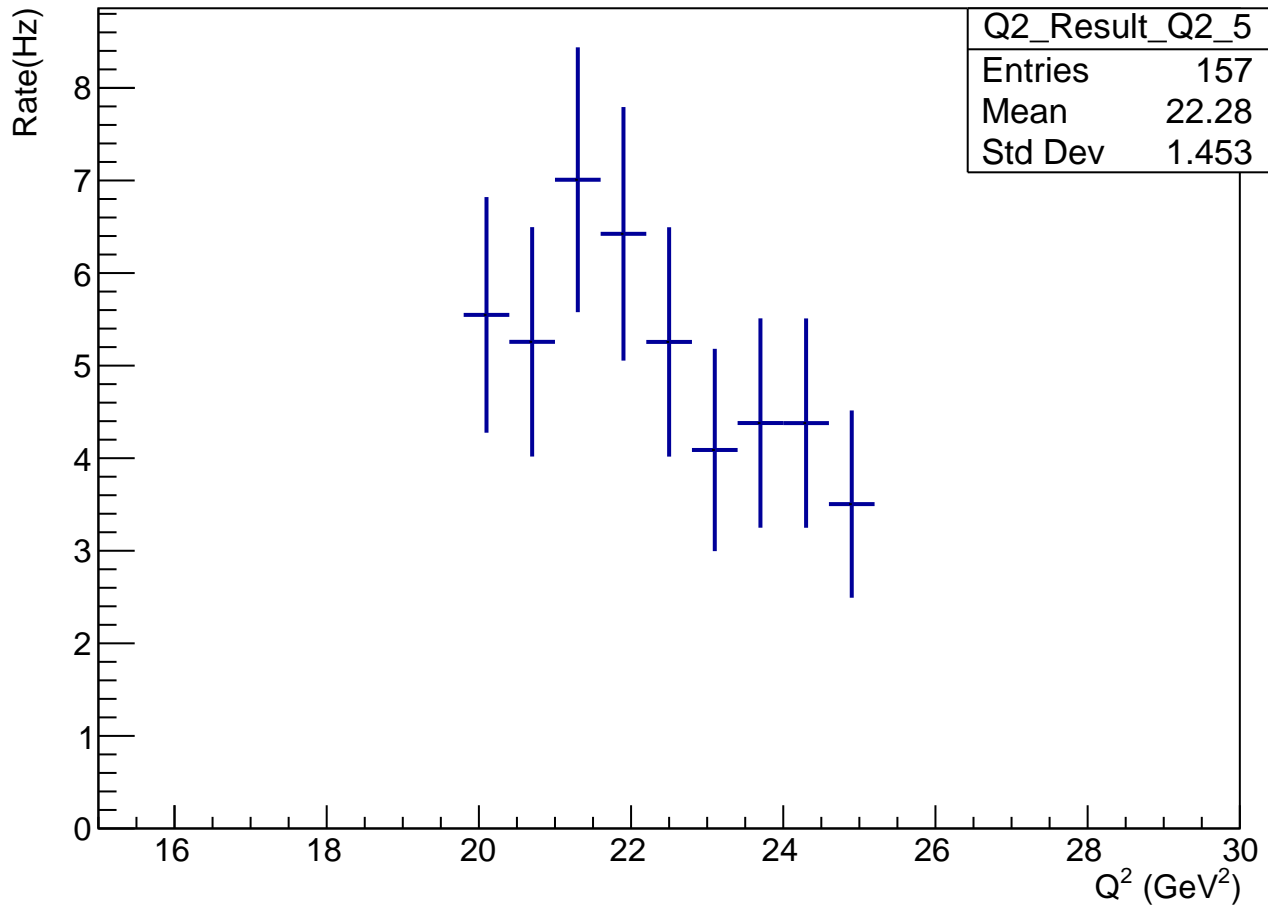
Q^2 dist w/ $10.0 < Q^2 < 15.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



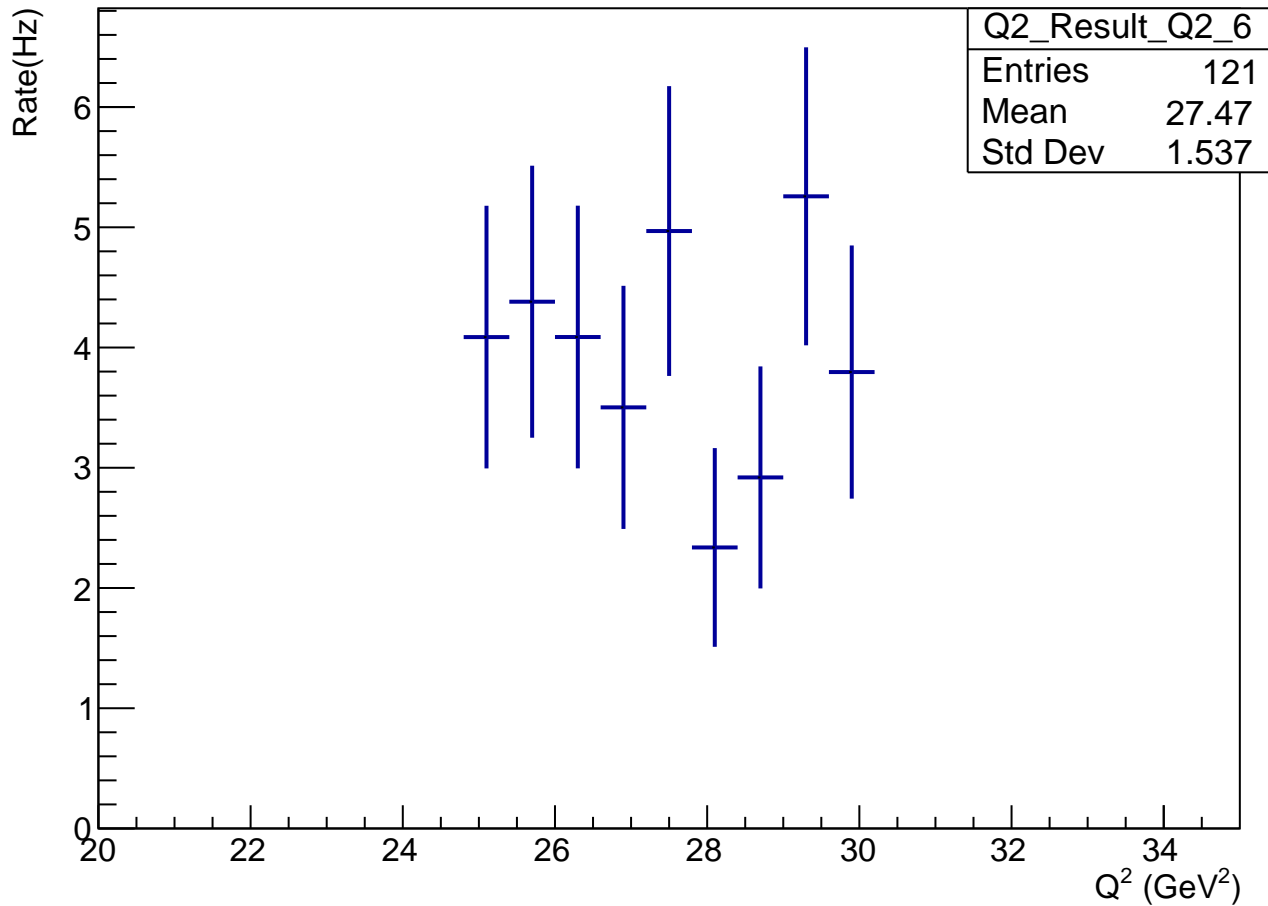
Q^2 dist w/ $15.0 < Q^2 < 20.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



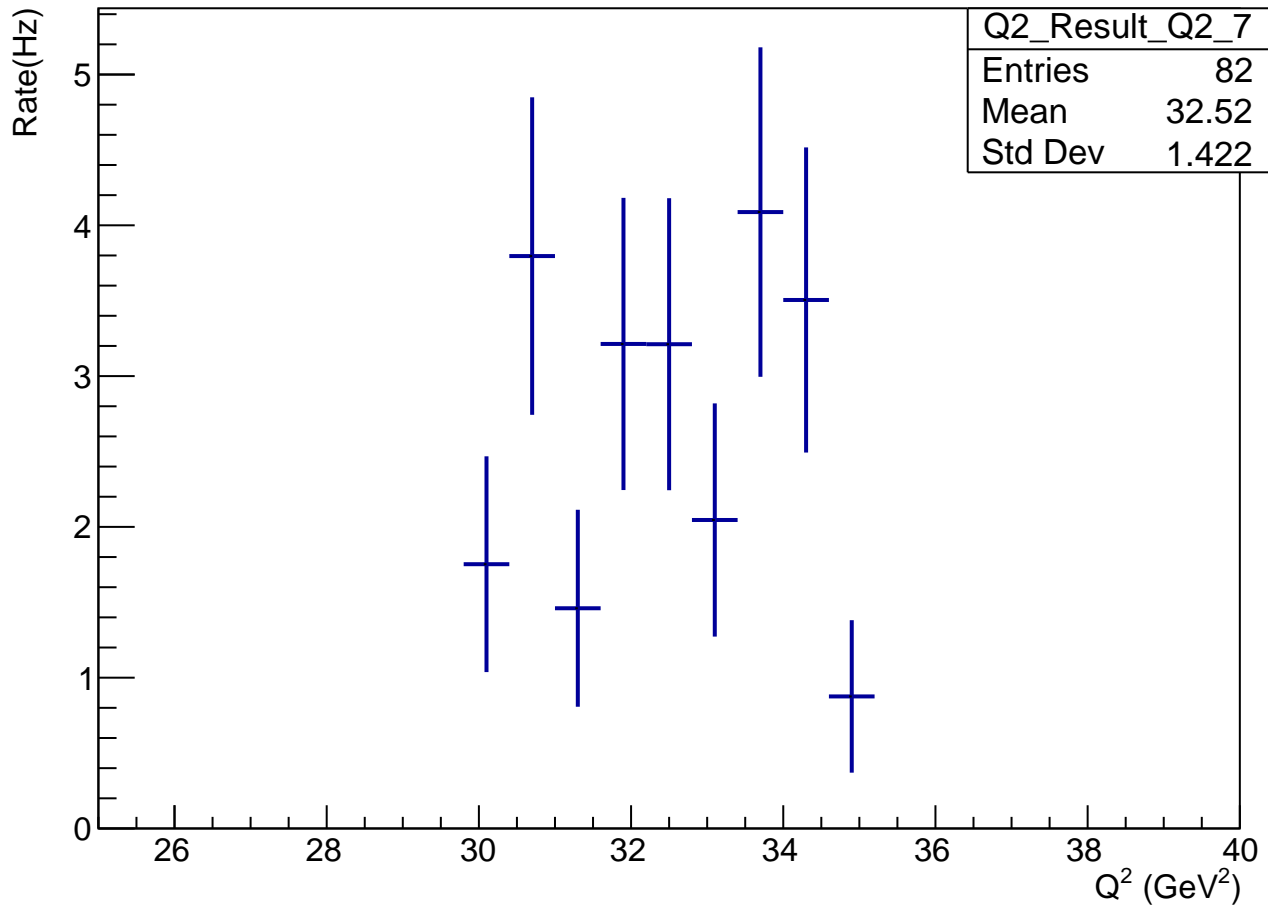
Q^2 dist w/ $20.0 < Q^2 < 25.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



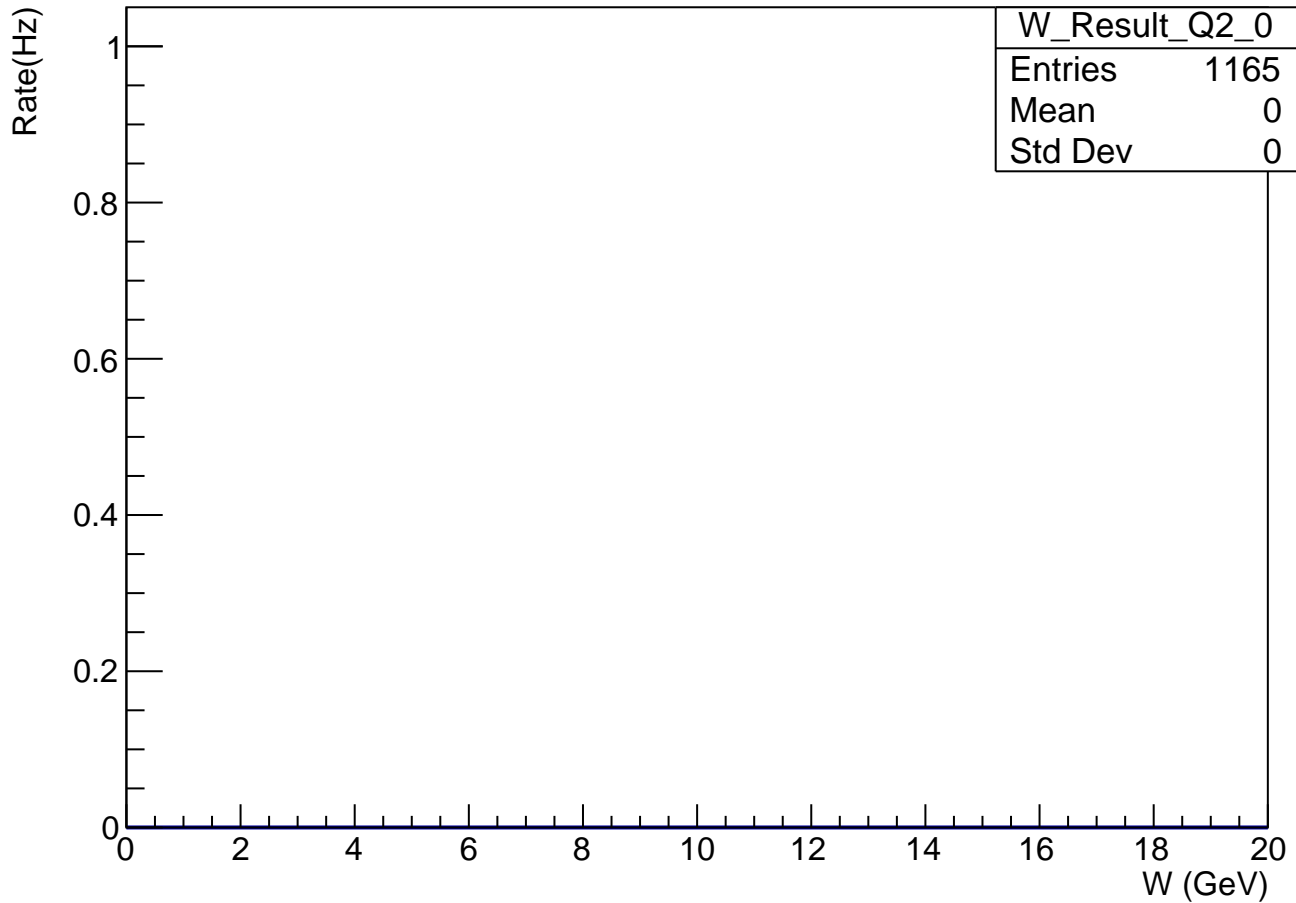
Q^2 dist w/ $25.0 < Q^2 < 30.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



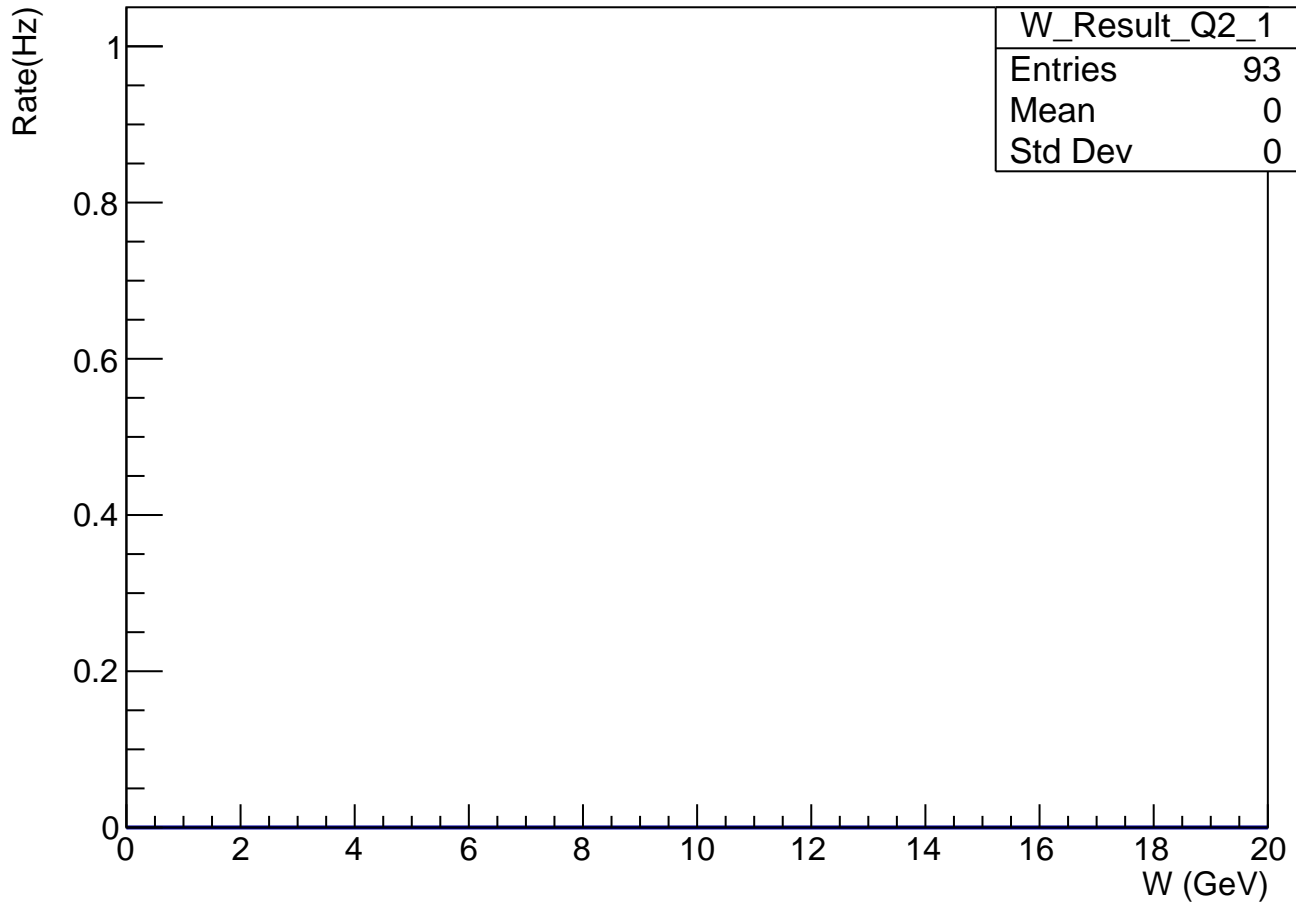
Q^2 dist w/ $30.0 < Q^2 < 35.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



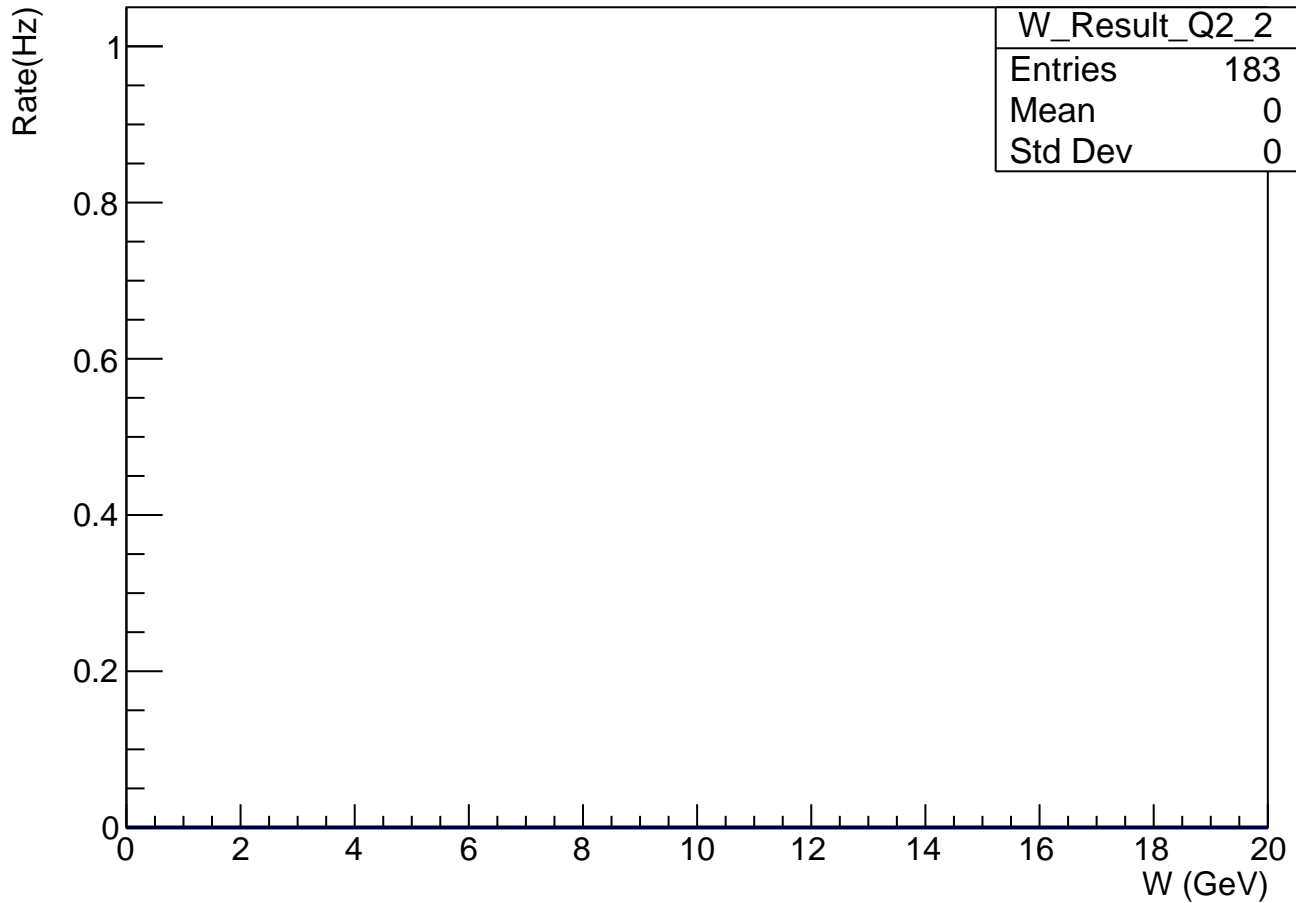
W dist w/ $5.0 < Q^2 < 35.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



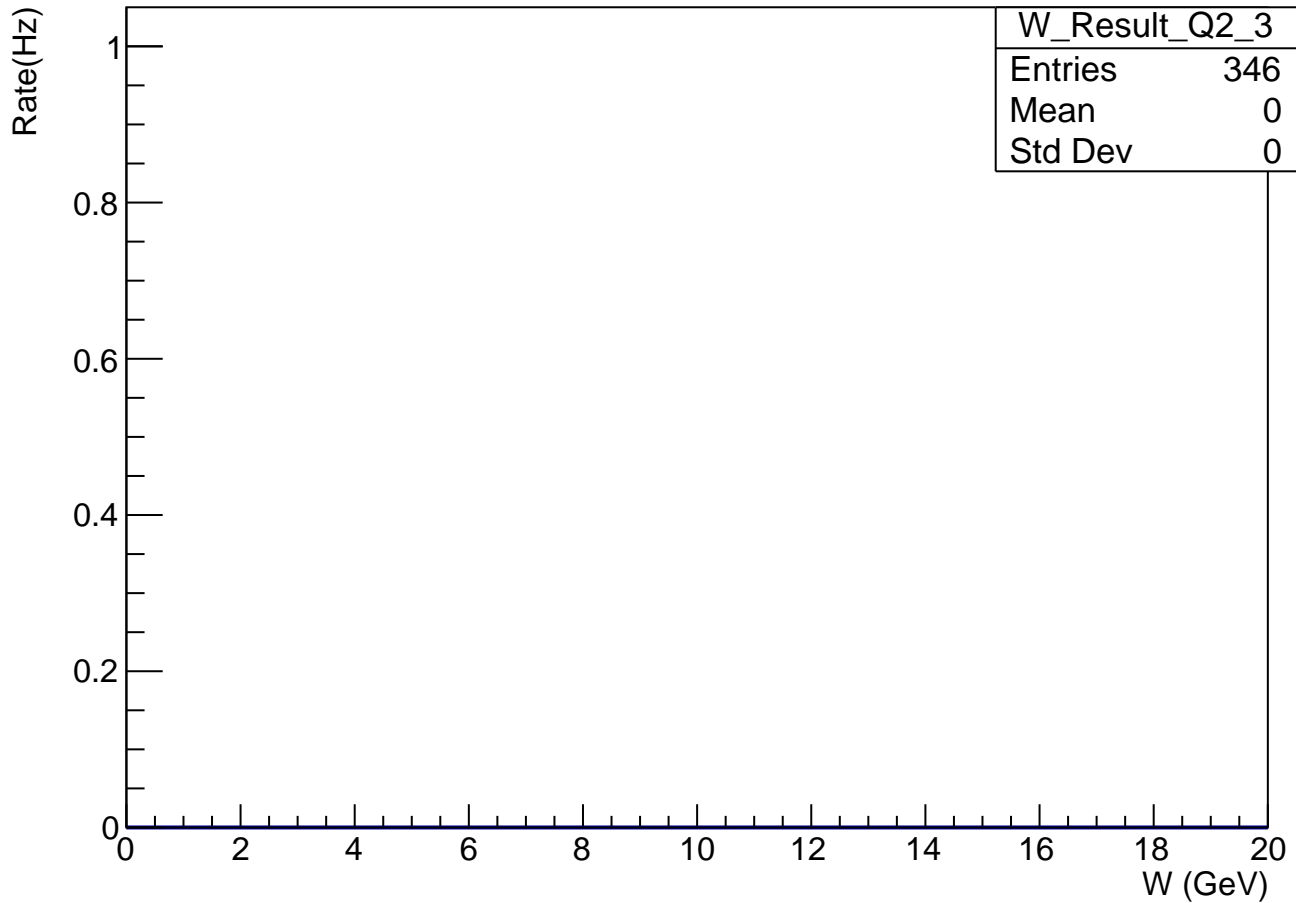
W dist w/ $5.0 < Q^2 < 7.5$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



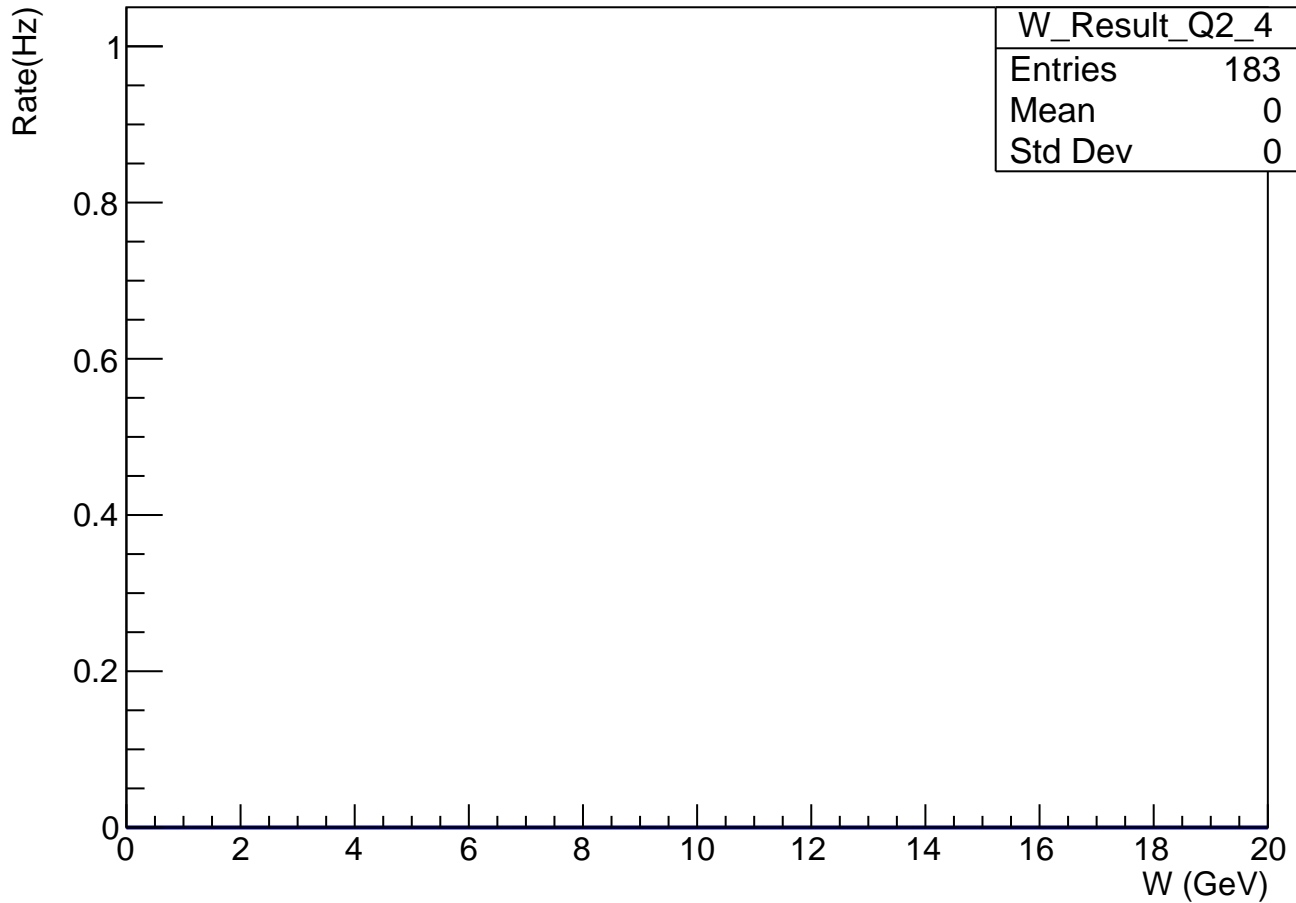
W dist w/ $7.5 < Q^2 < 10.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



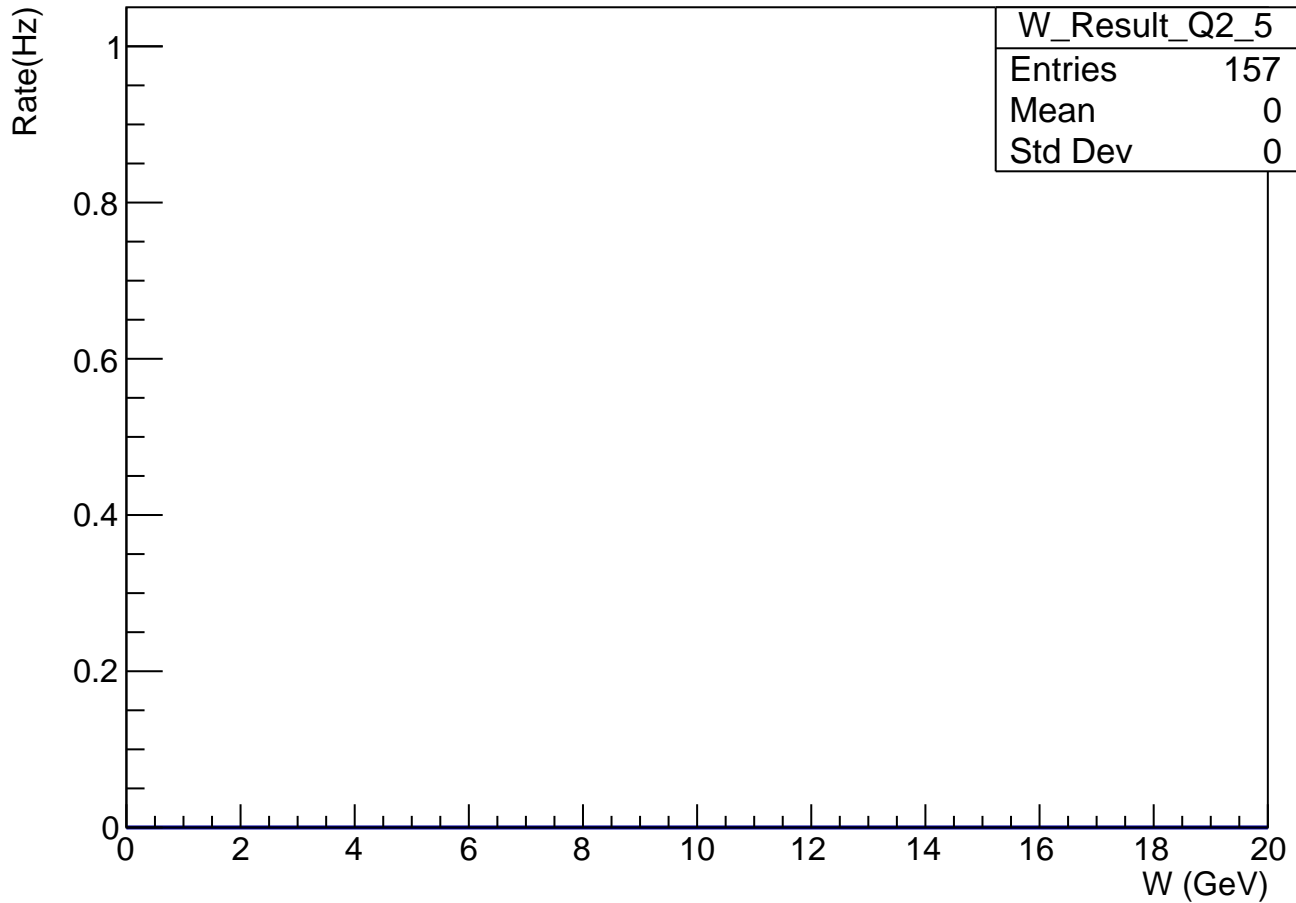
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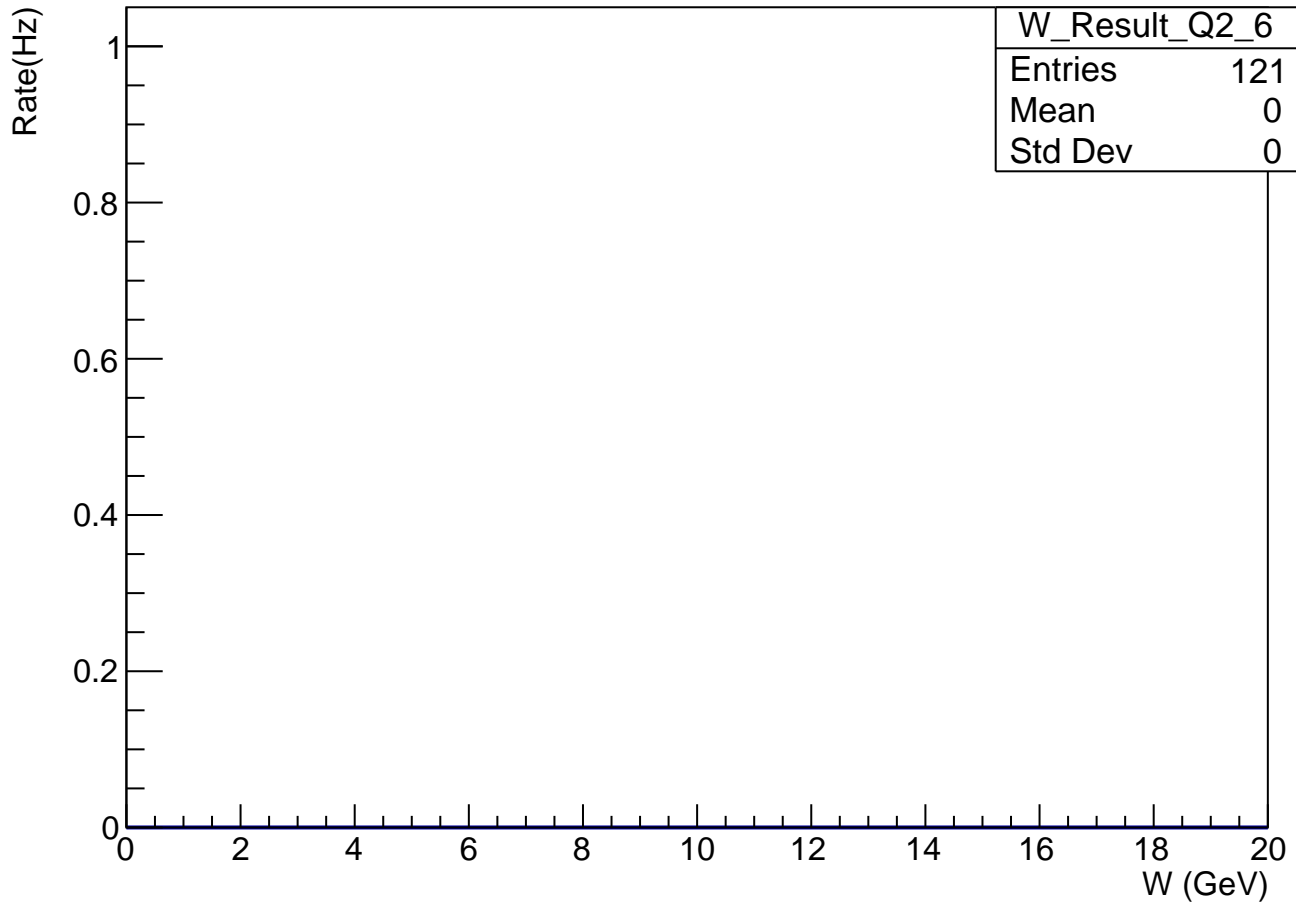
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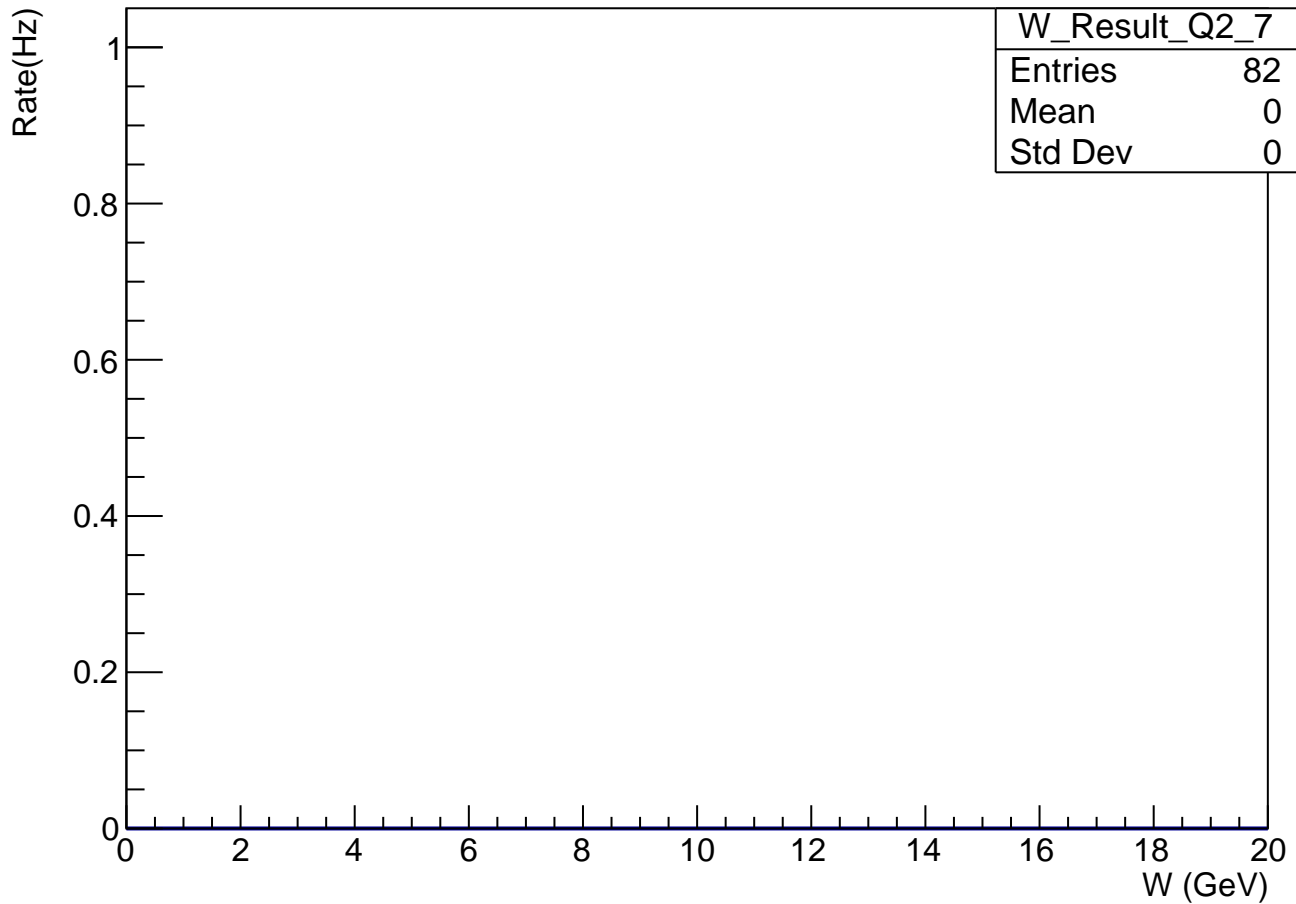
W dist w/ $20.0 < Q^2 < 25.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



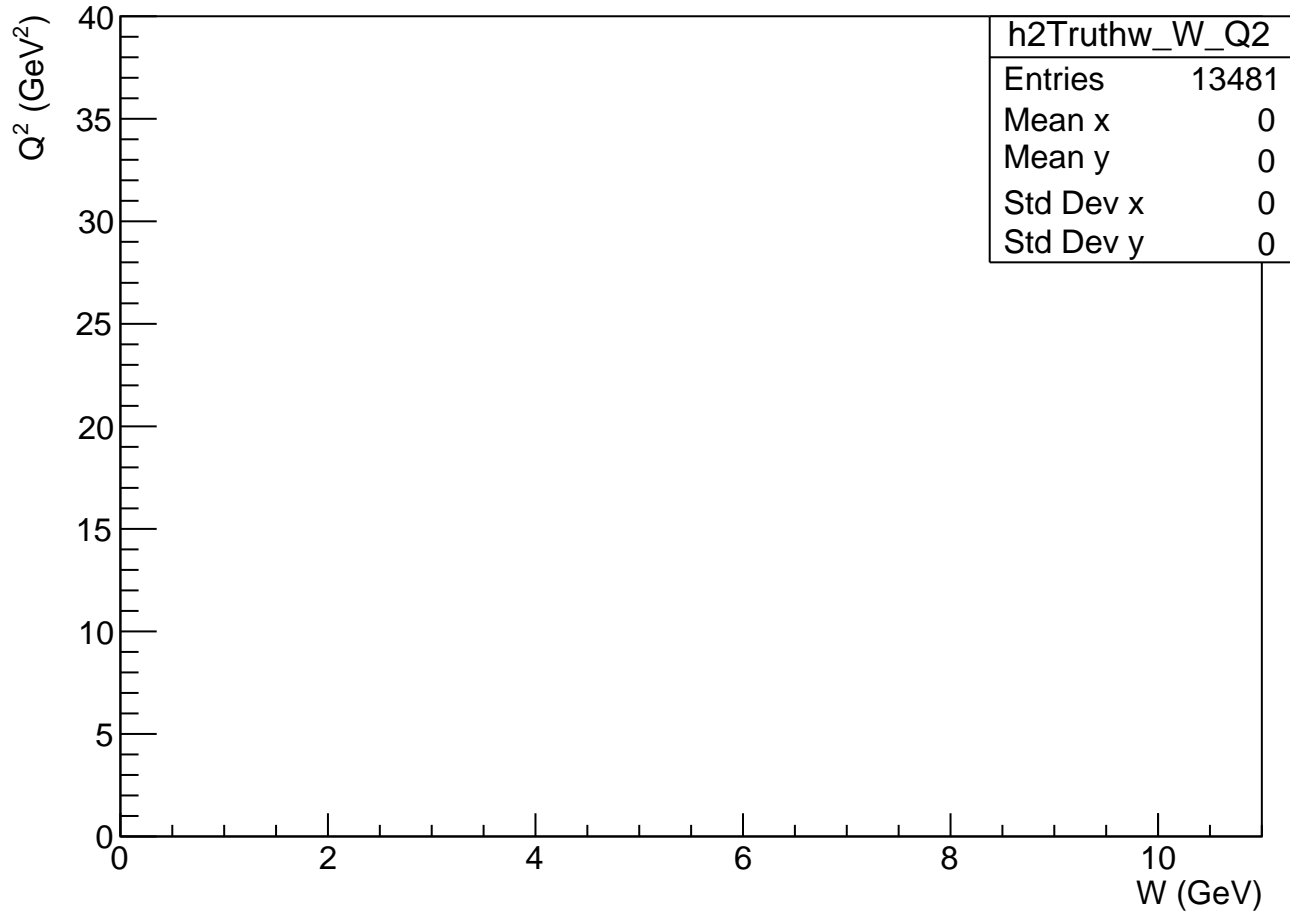
W dist w/ $25.0 < Q^2 < 30.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



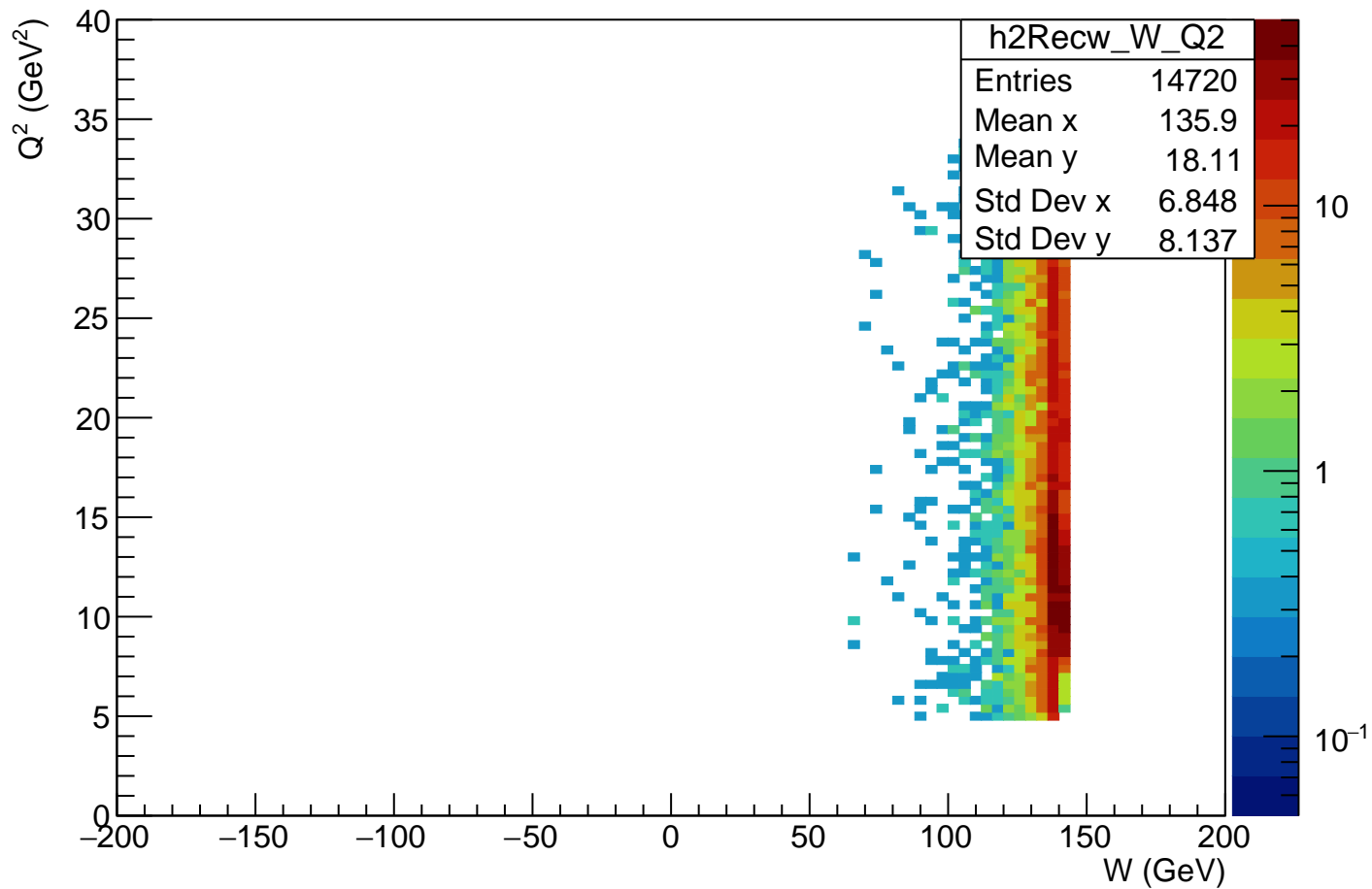
W dist w/ $30.0 < Q^2 < 35.0$, $-t$, θ_{diff} , ϕ_{diff} , W cuts



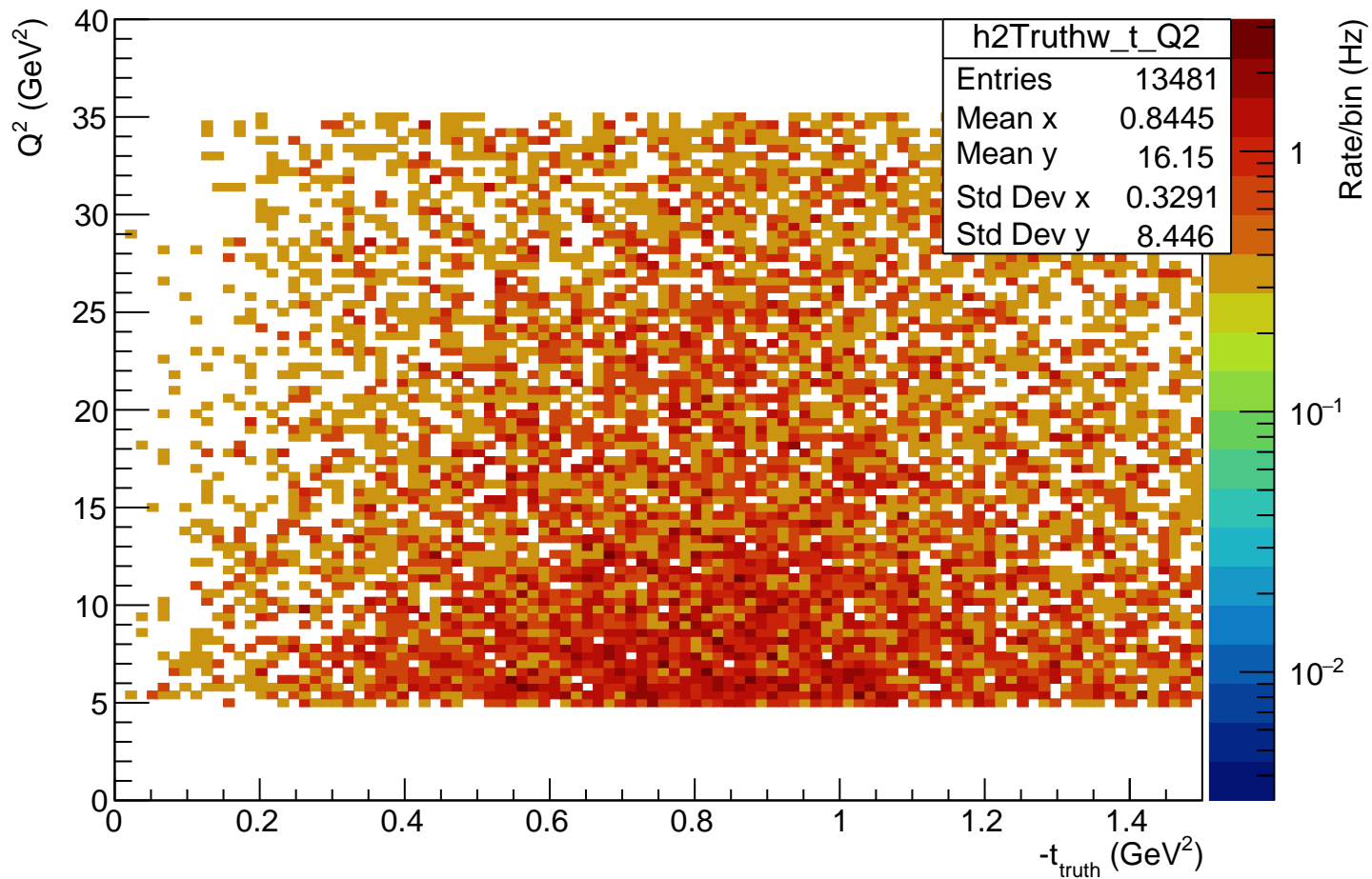
W vs Q² truth distribution



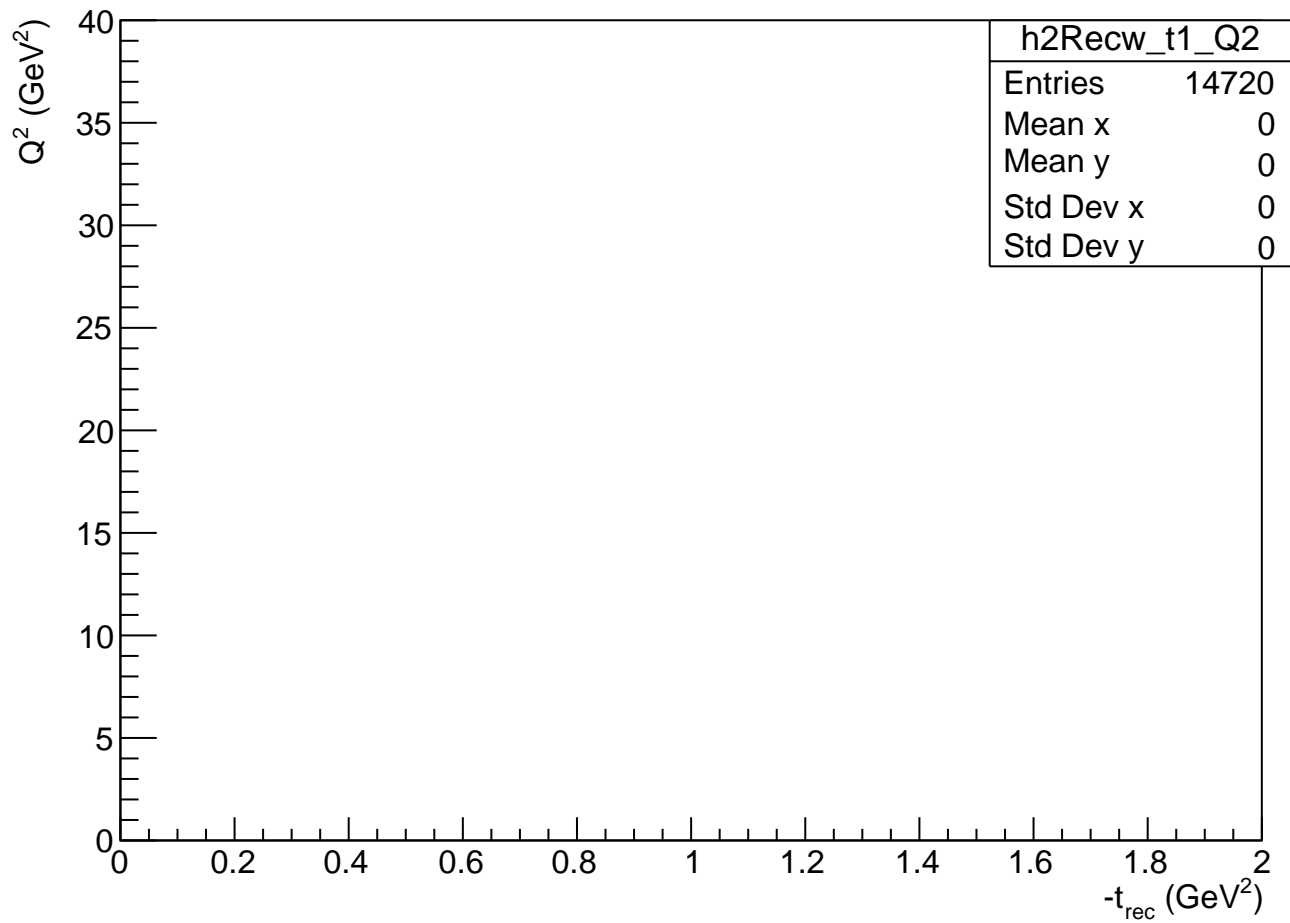
W vs Q² rec distribution



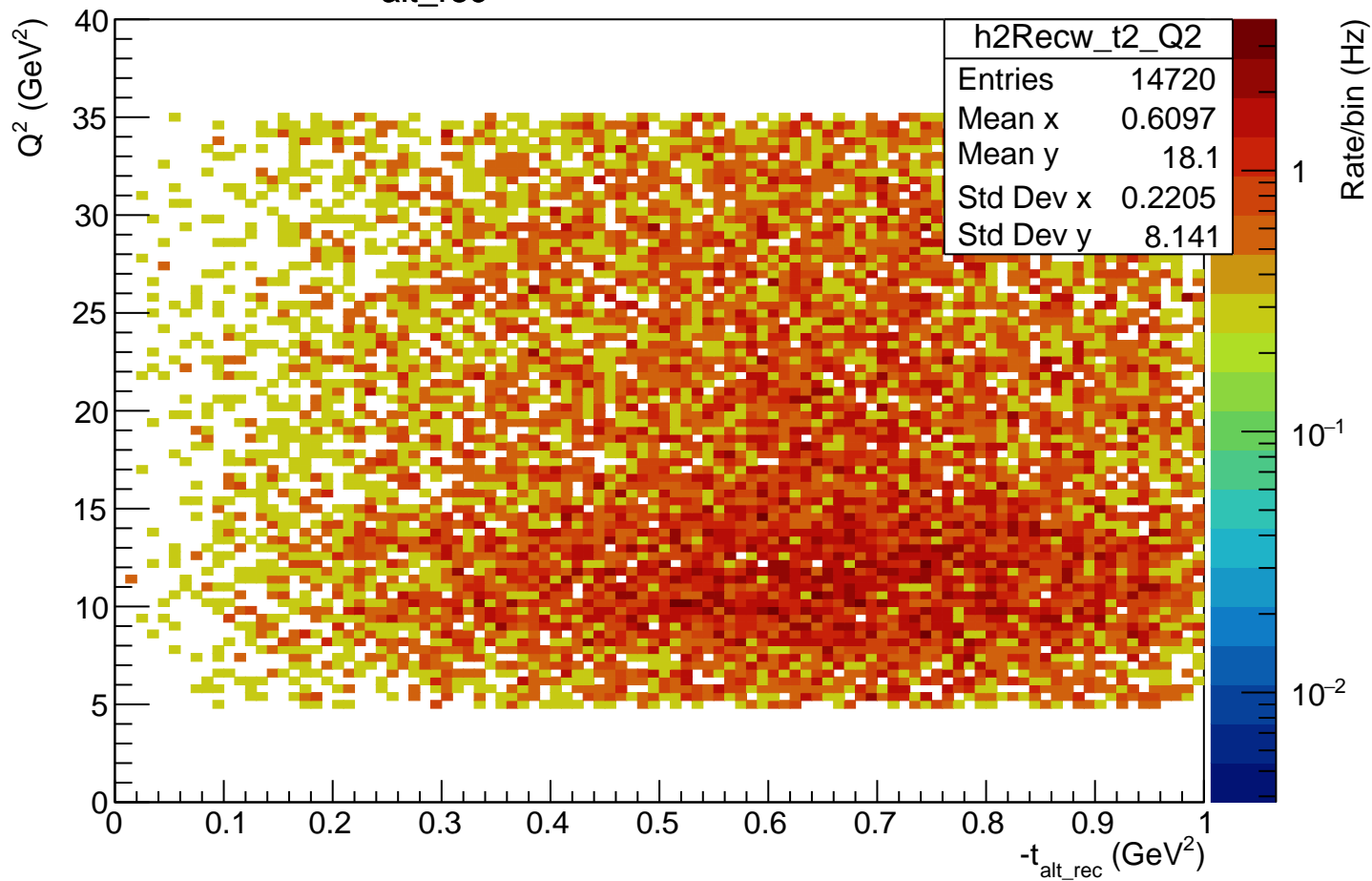
$-t_{\text{truth}}$ vs Q^2 truth distribution



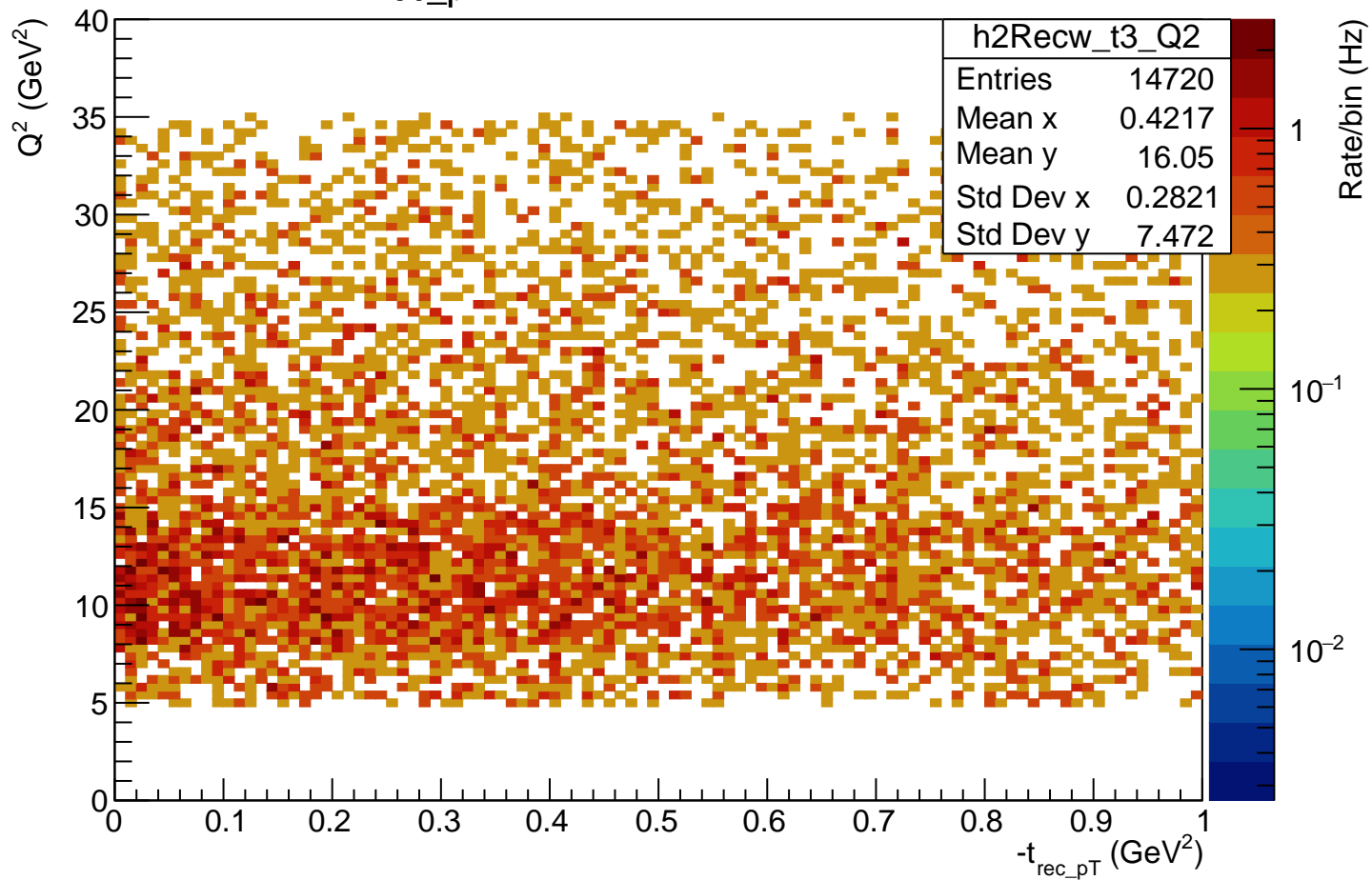
$-t_{\text{rec}}$ vs Q^2 rec distribution



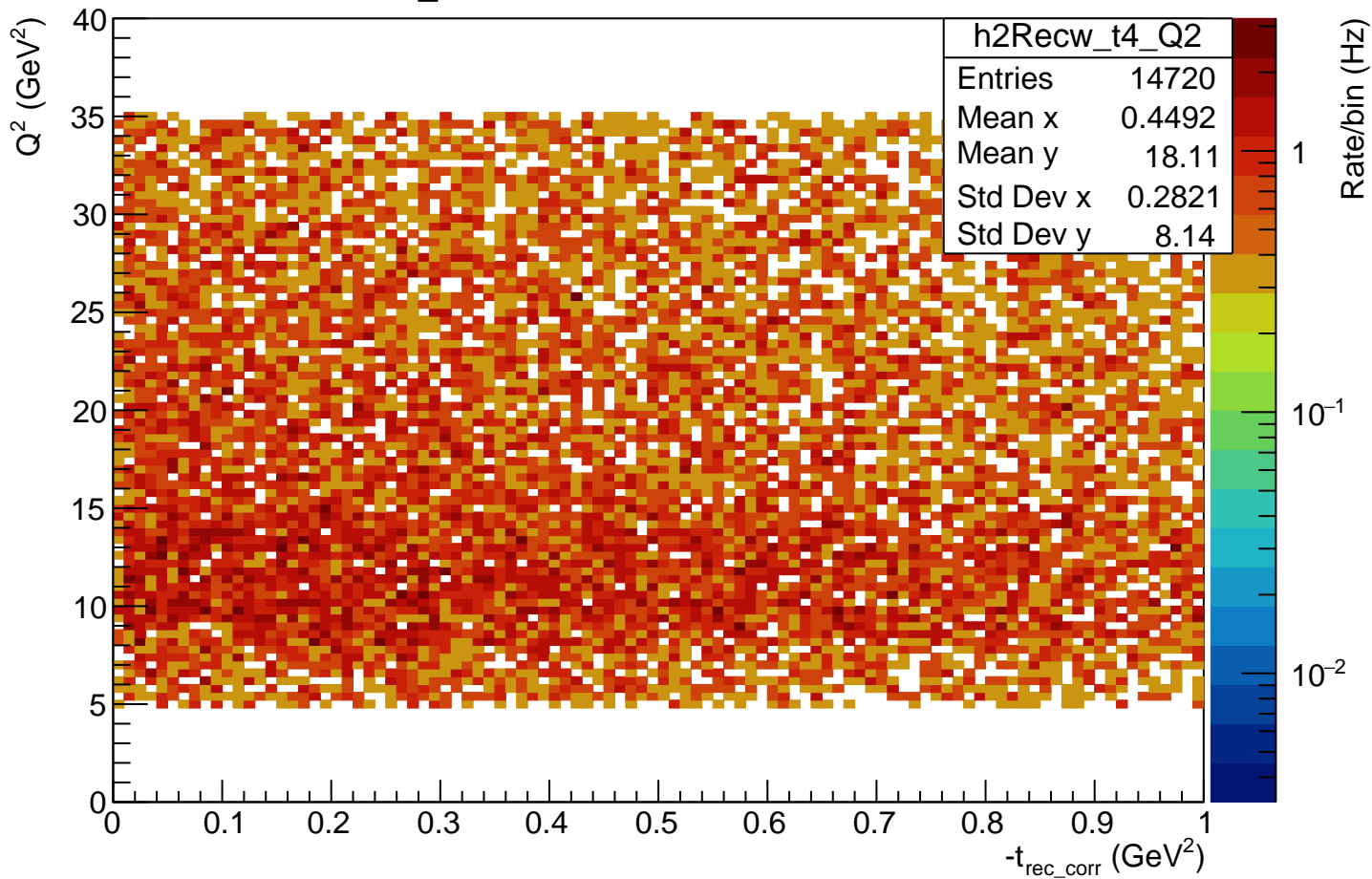
$-t_{\text{alt_rec}}$ vs Q^2 rec distribution



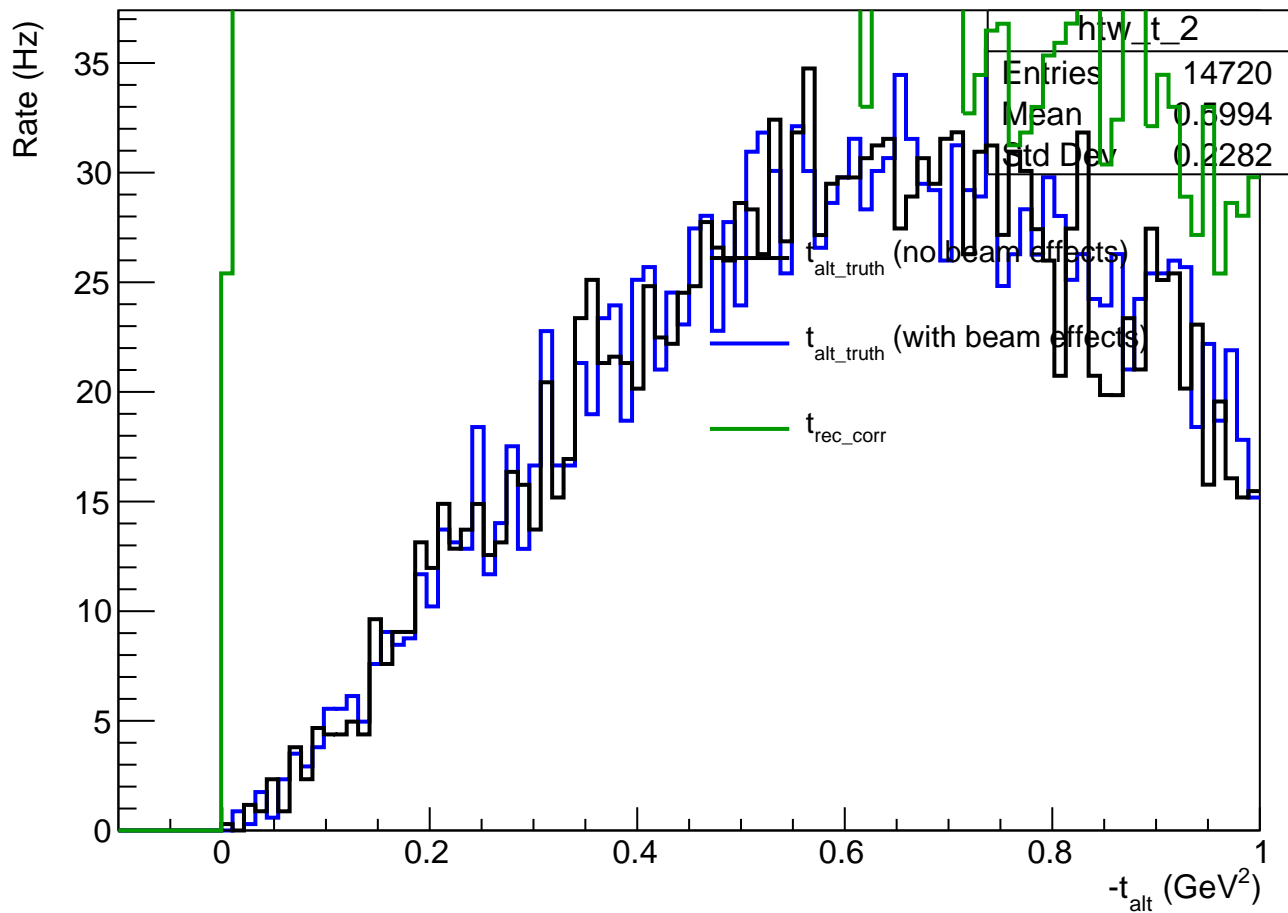
$-t_{\text{rec_pT}}$ vs Q^2 rec distribution



$-t_{\text{rec_corr}}$ vs Q^2 rec distribution



$-t_{\text{alt}}$ Distribution



w rec Distribution w/ $5 < Q^2 < 35$

