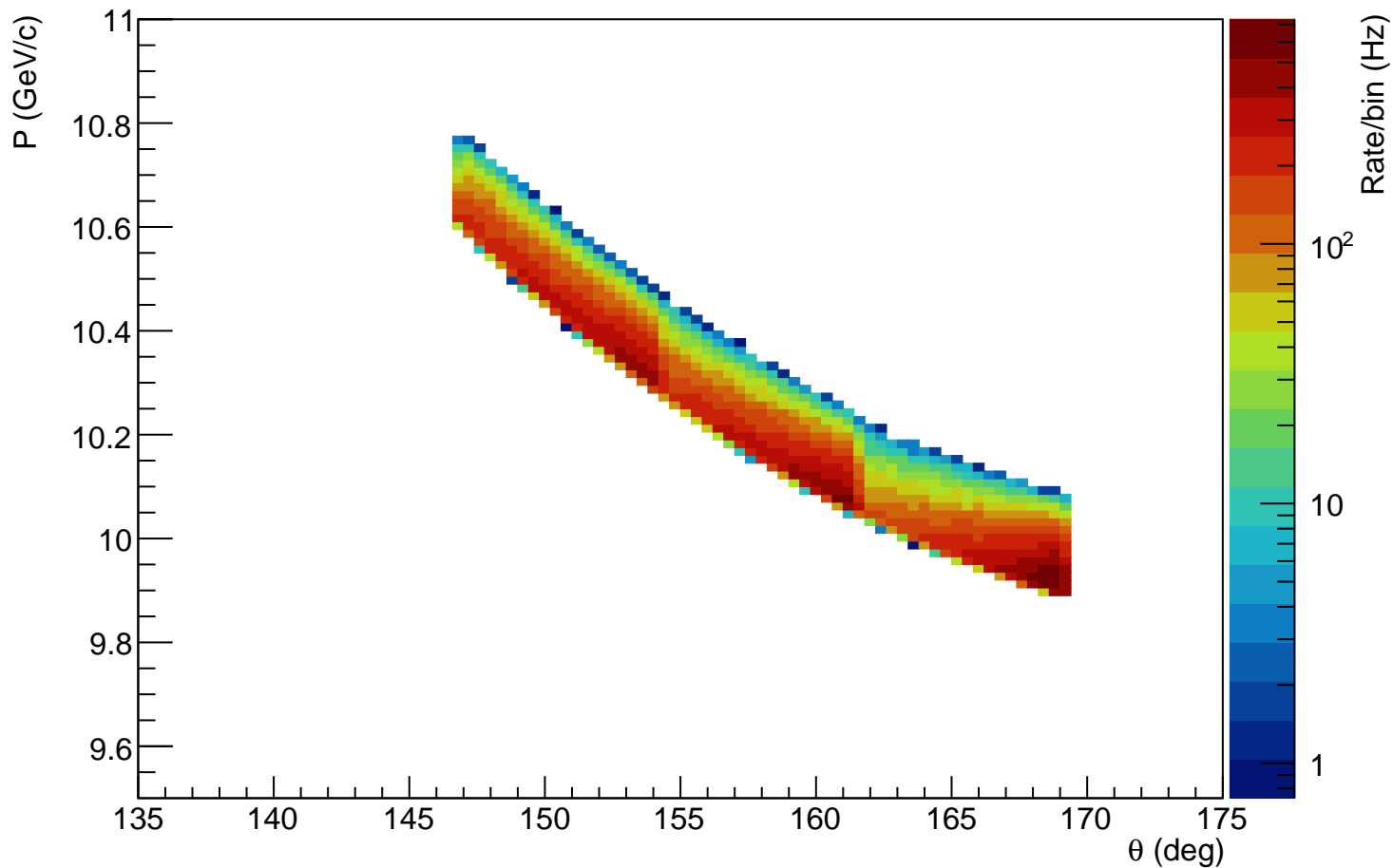
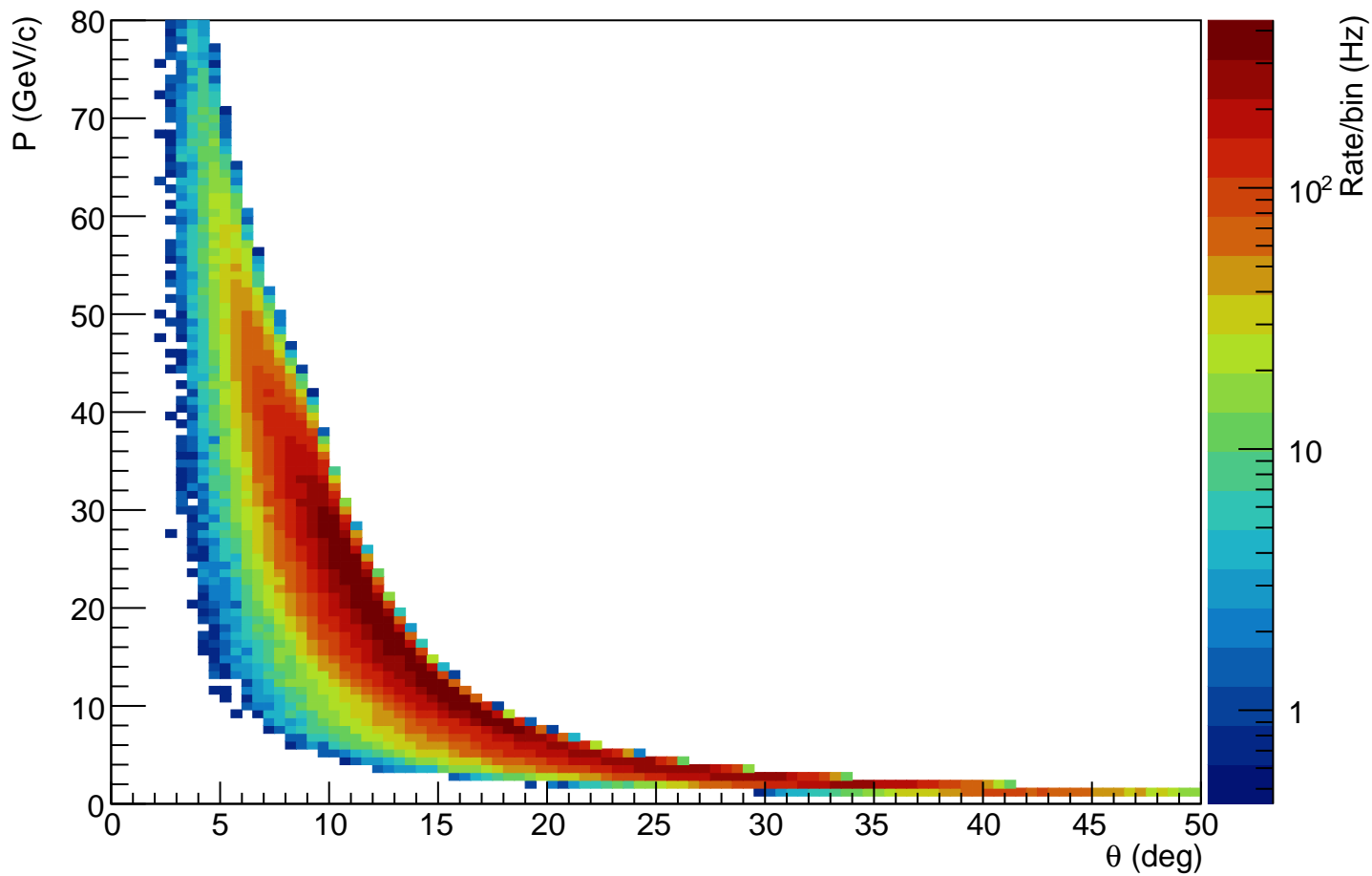


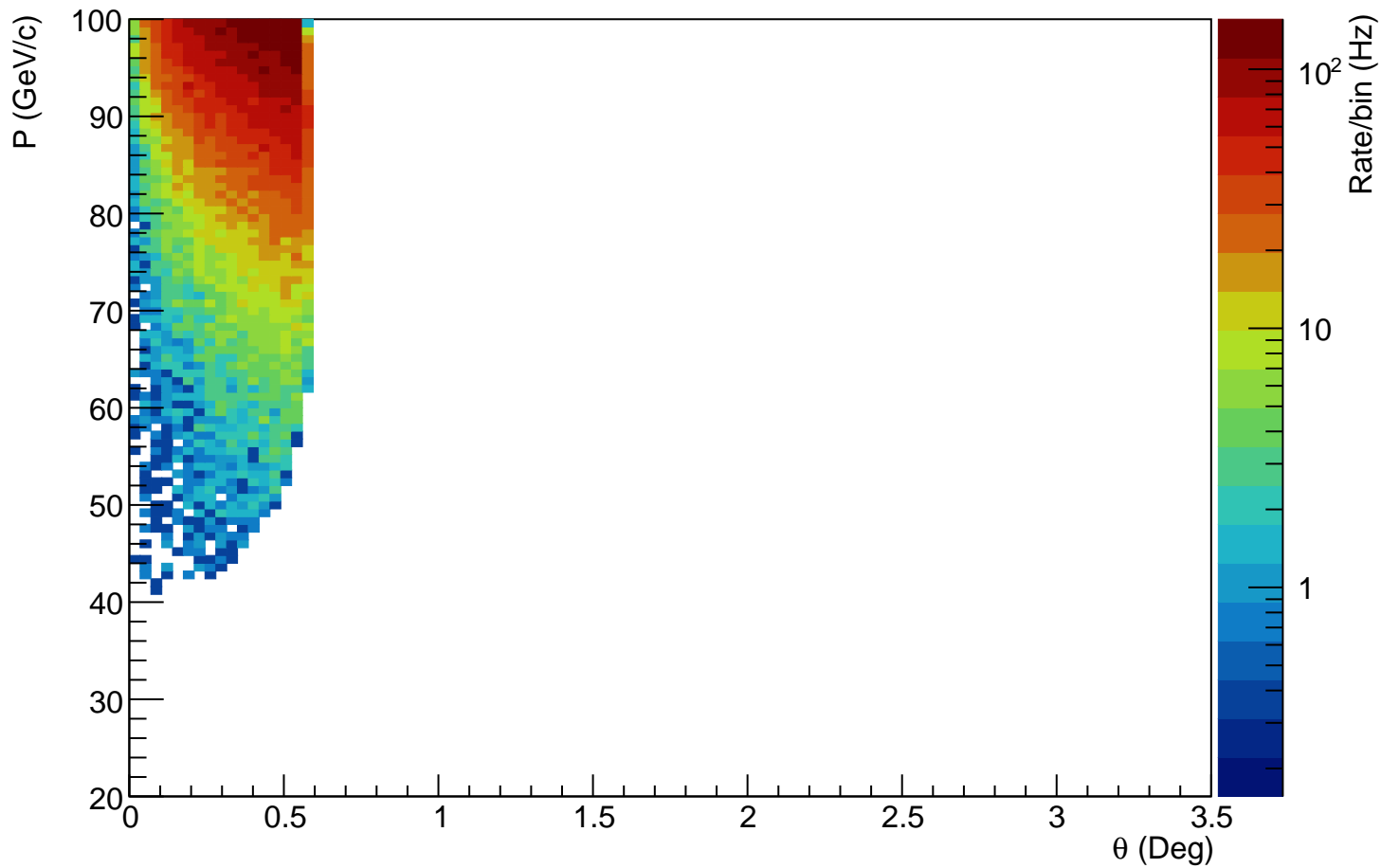
e' truth no beam effects θ vs P



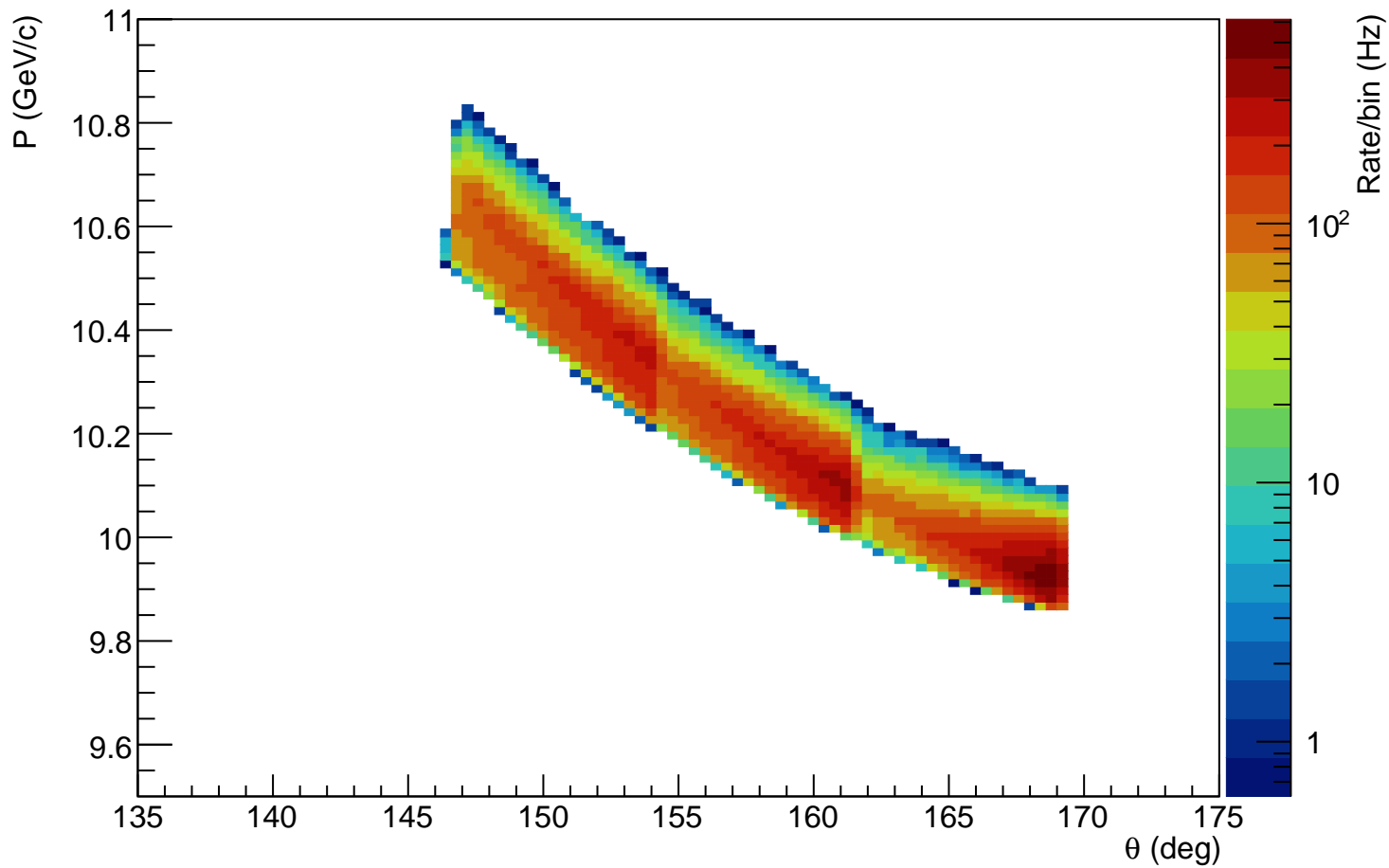
π^+ truth no beam effects θ vs P



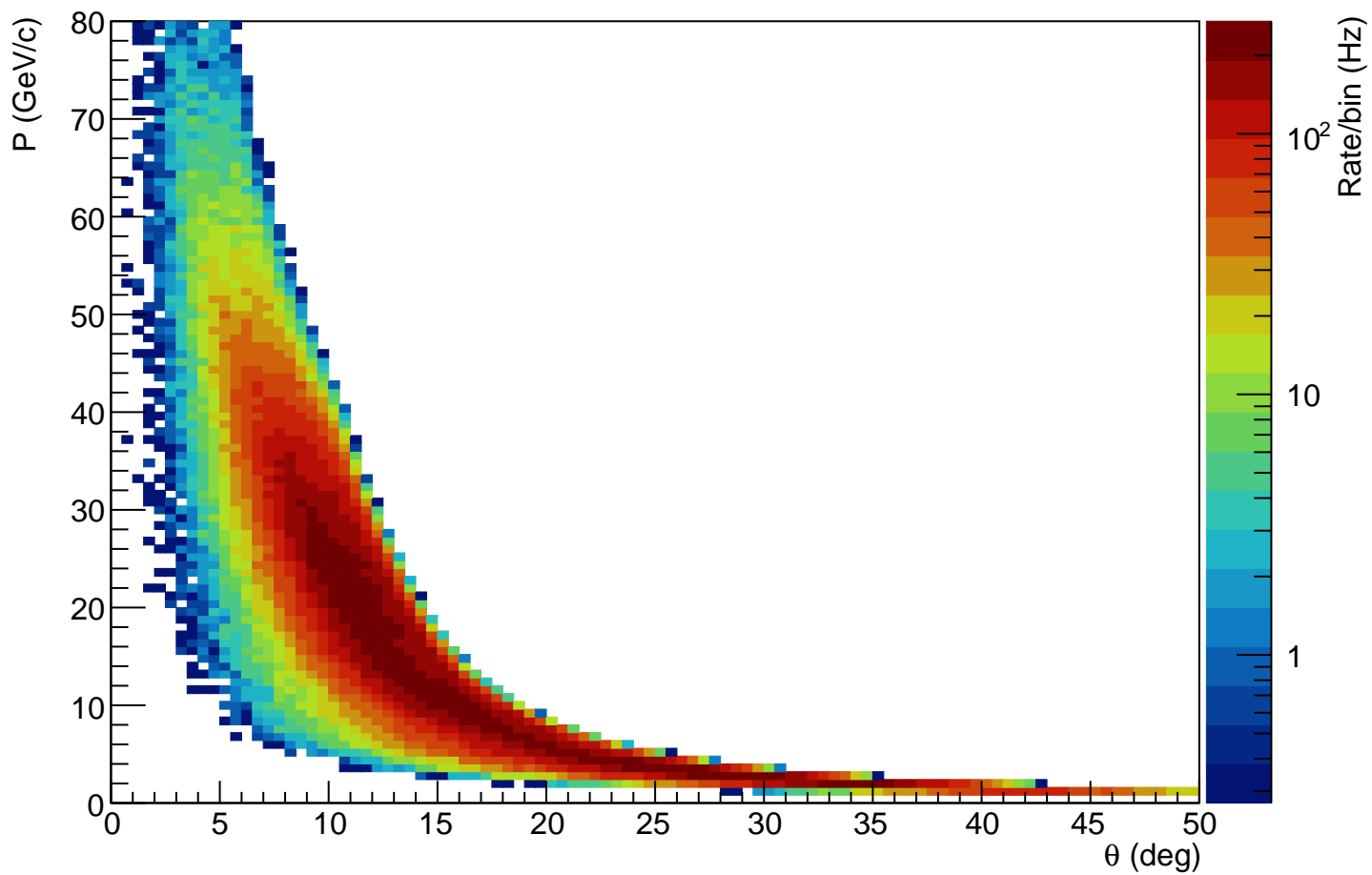
n truth no beam effects θ vs P



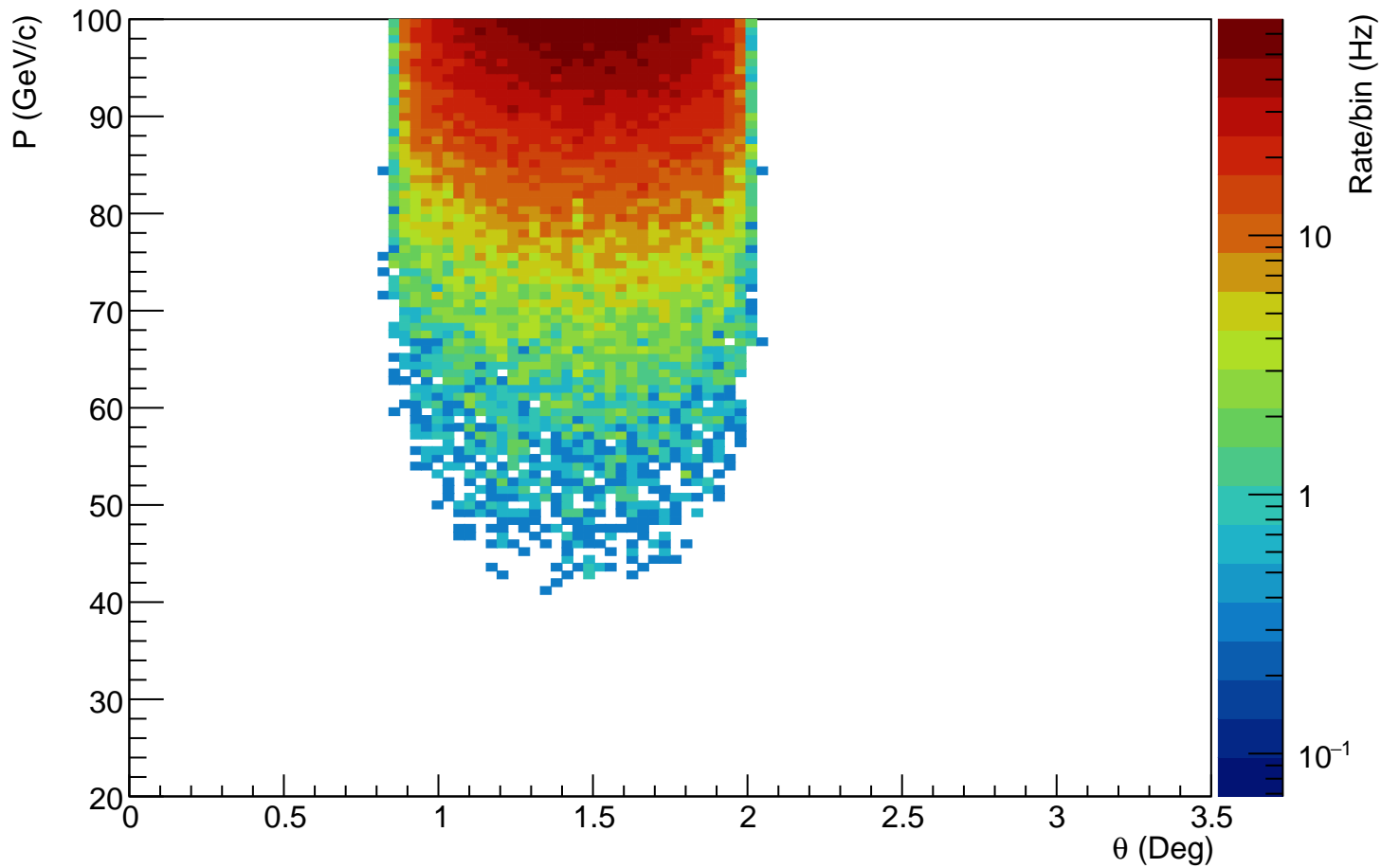
e' truth θ vs P



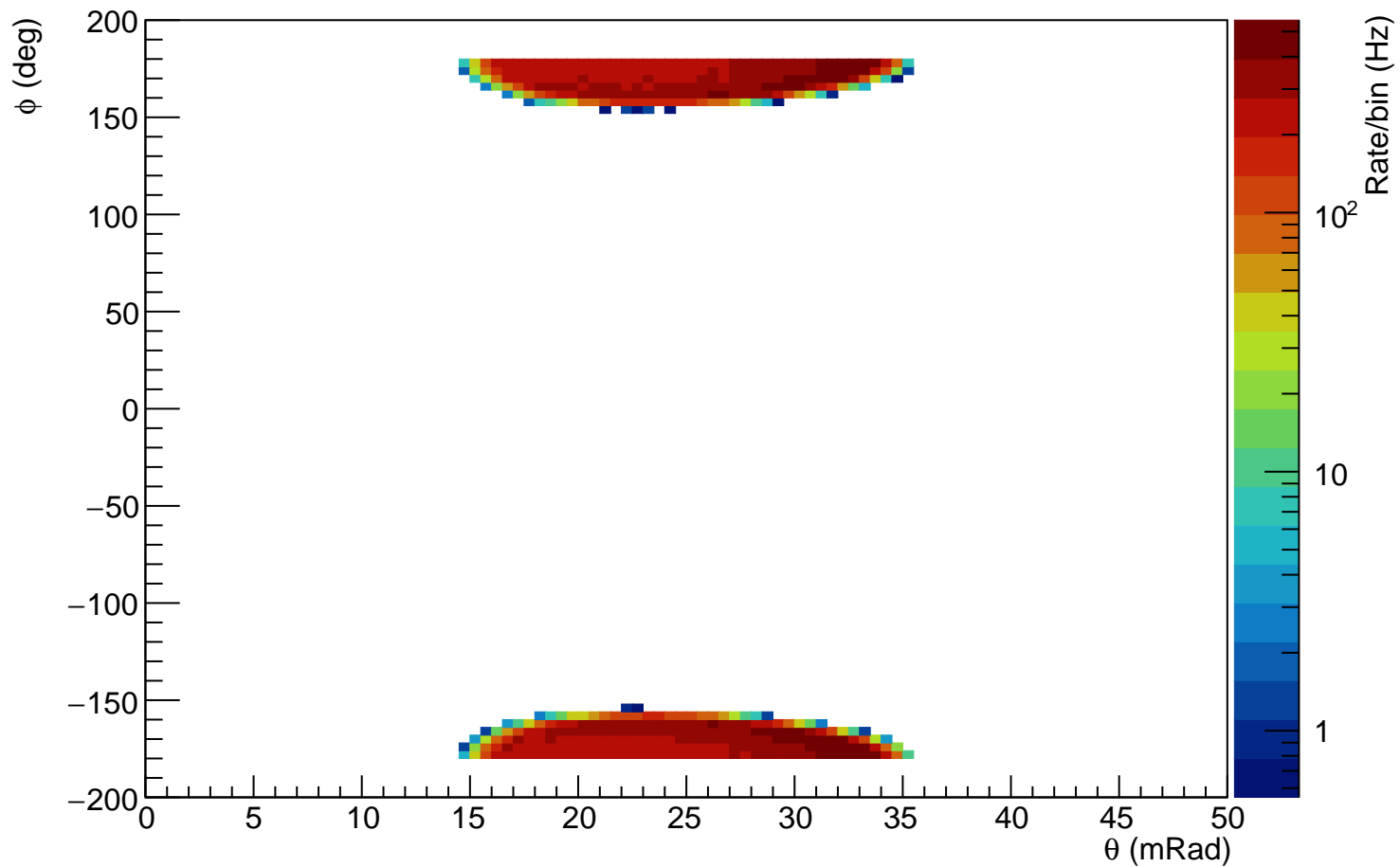
π^+ truth θ vs P



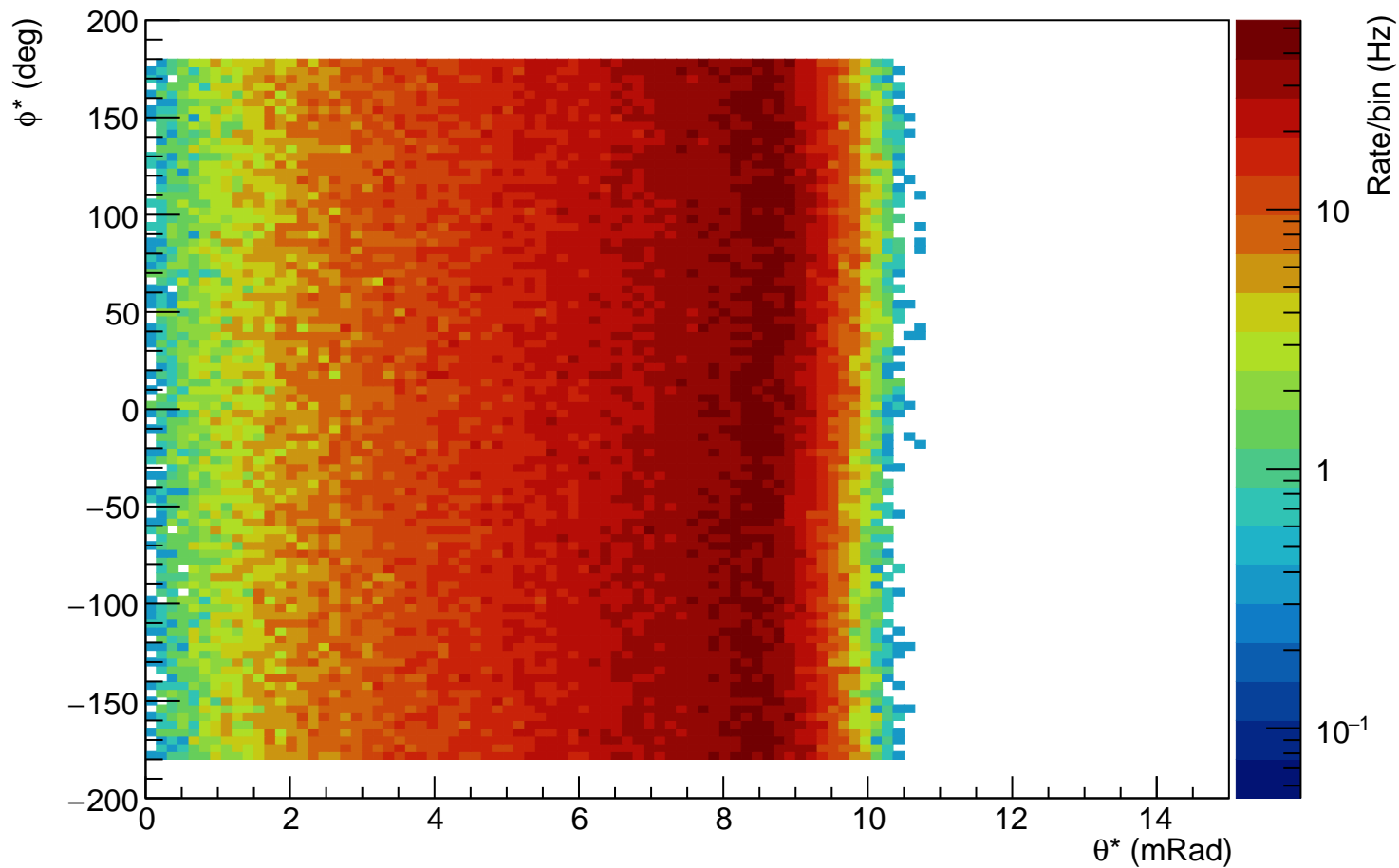
n truth θ vs P



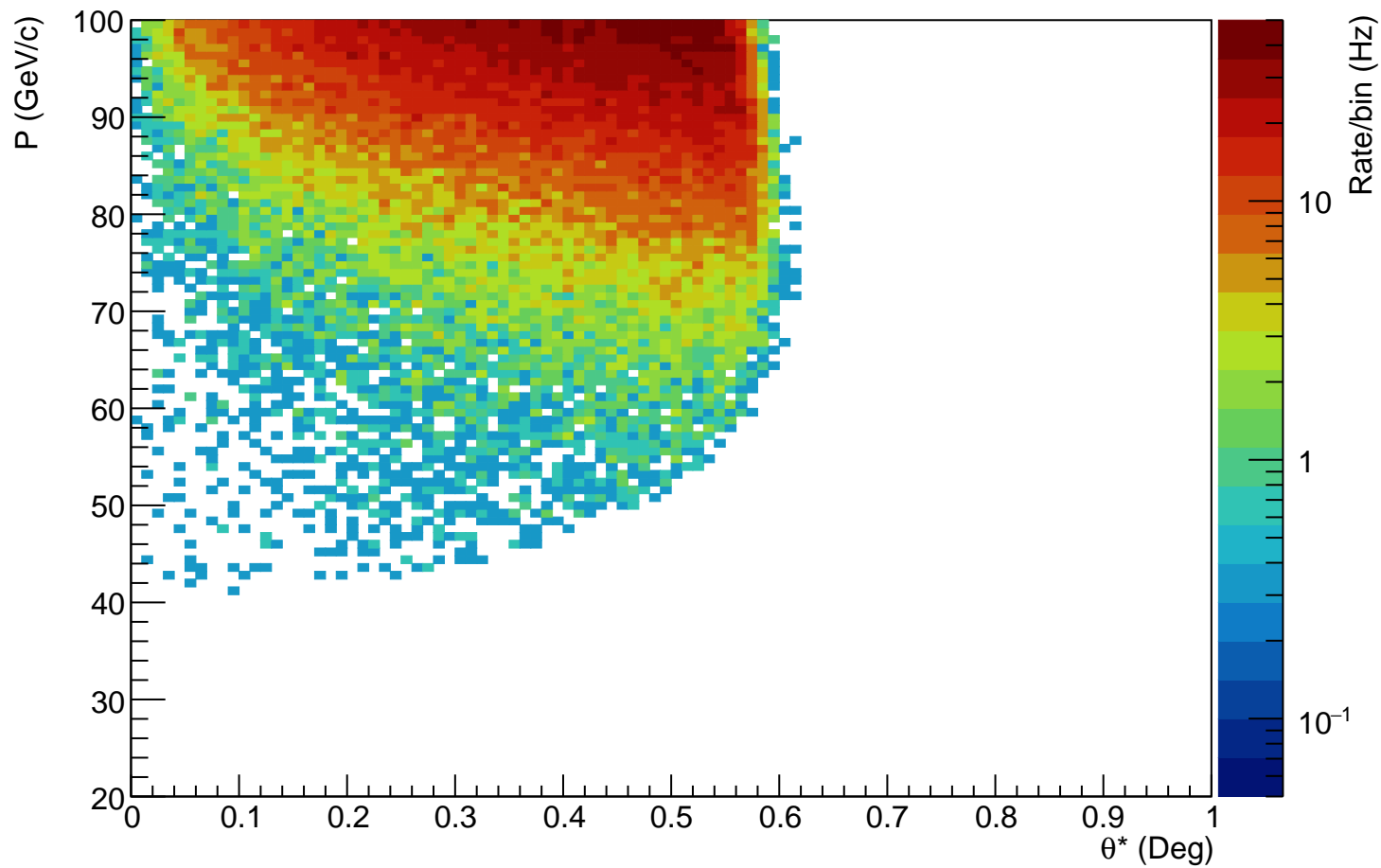
n truth θ vs ϕ



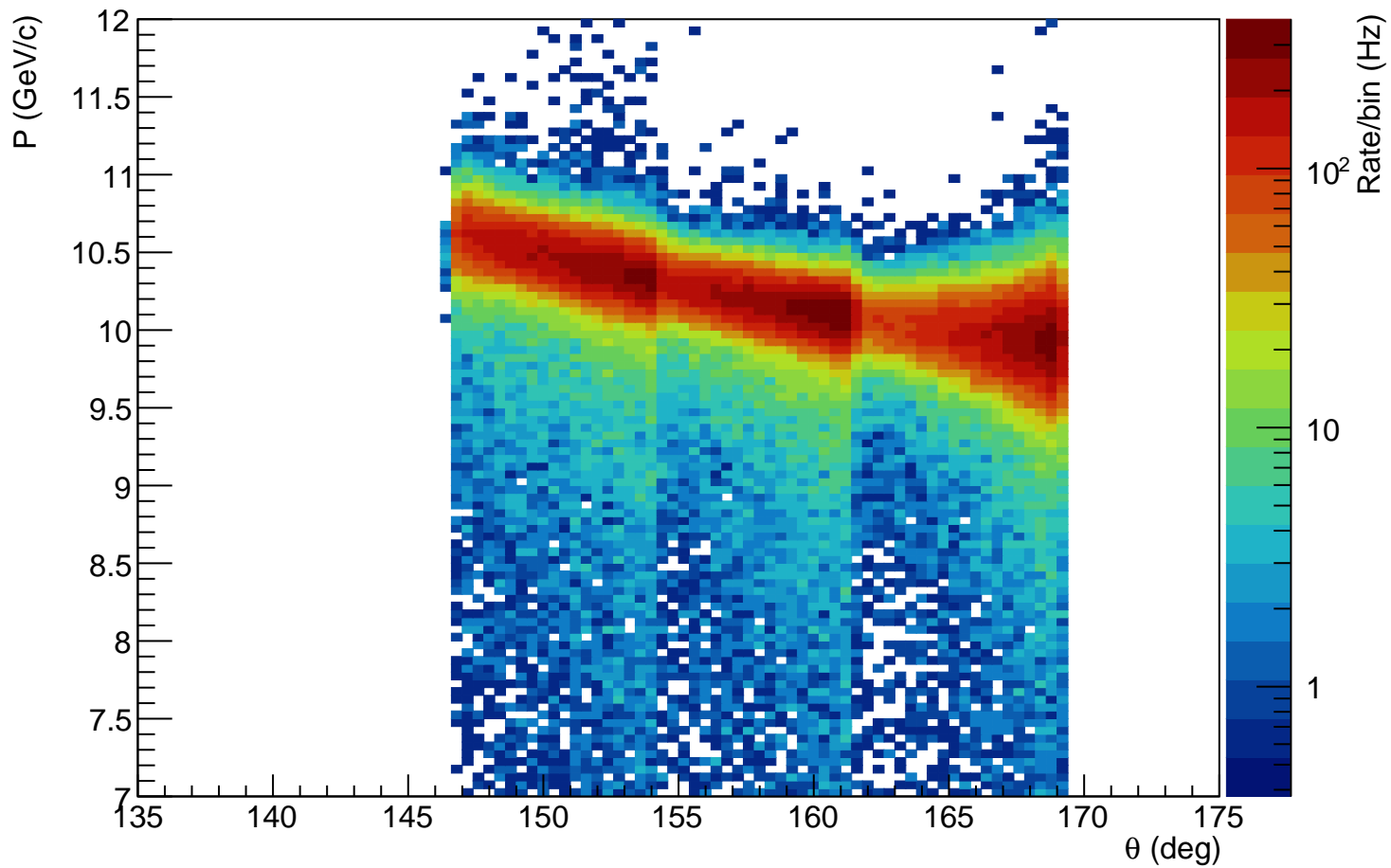
n truth θ^* vs ϕ^* around p axis



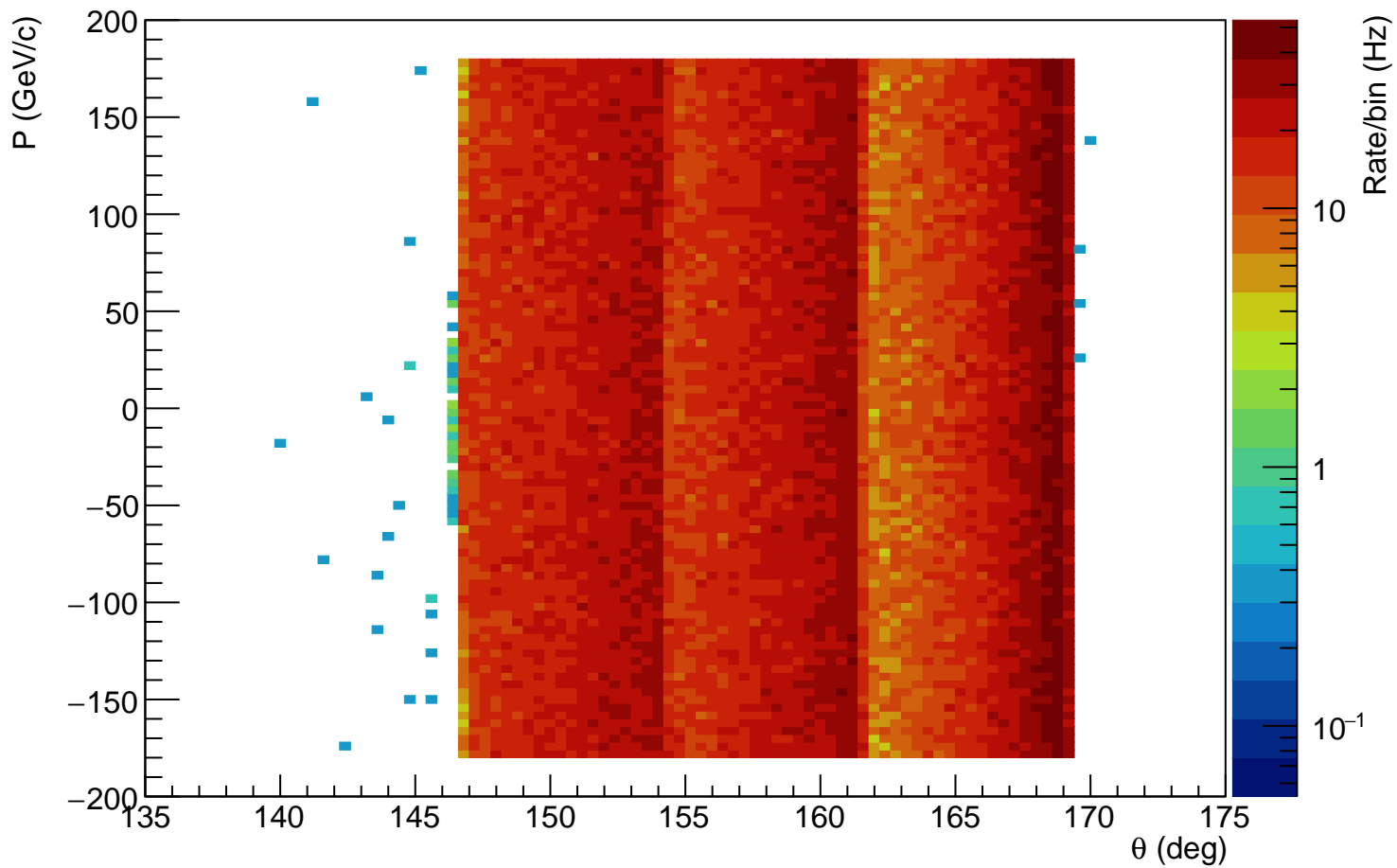
n truth θ^* vs P around p axis



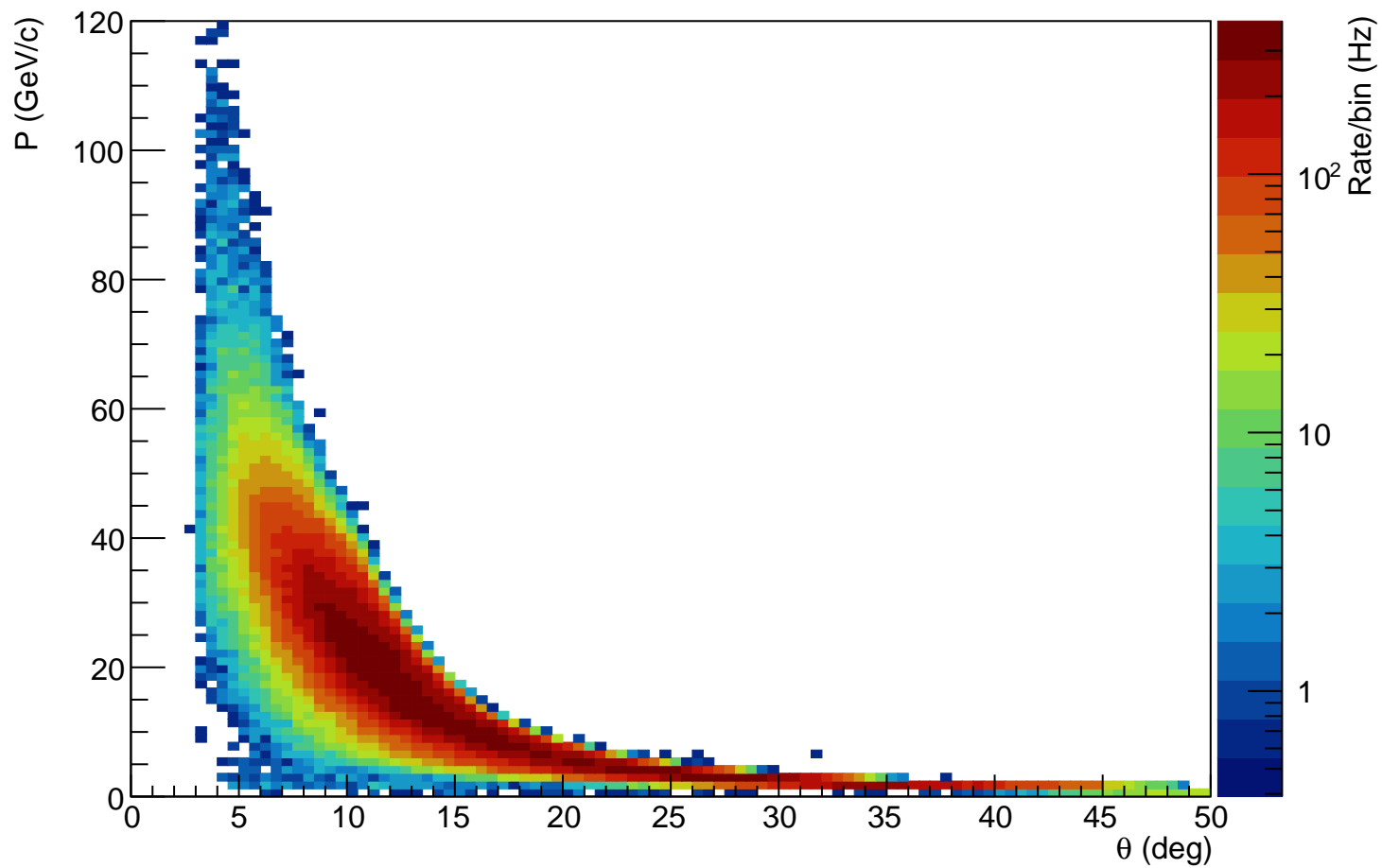
e' rec θ vs P



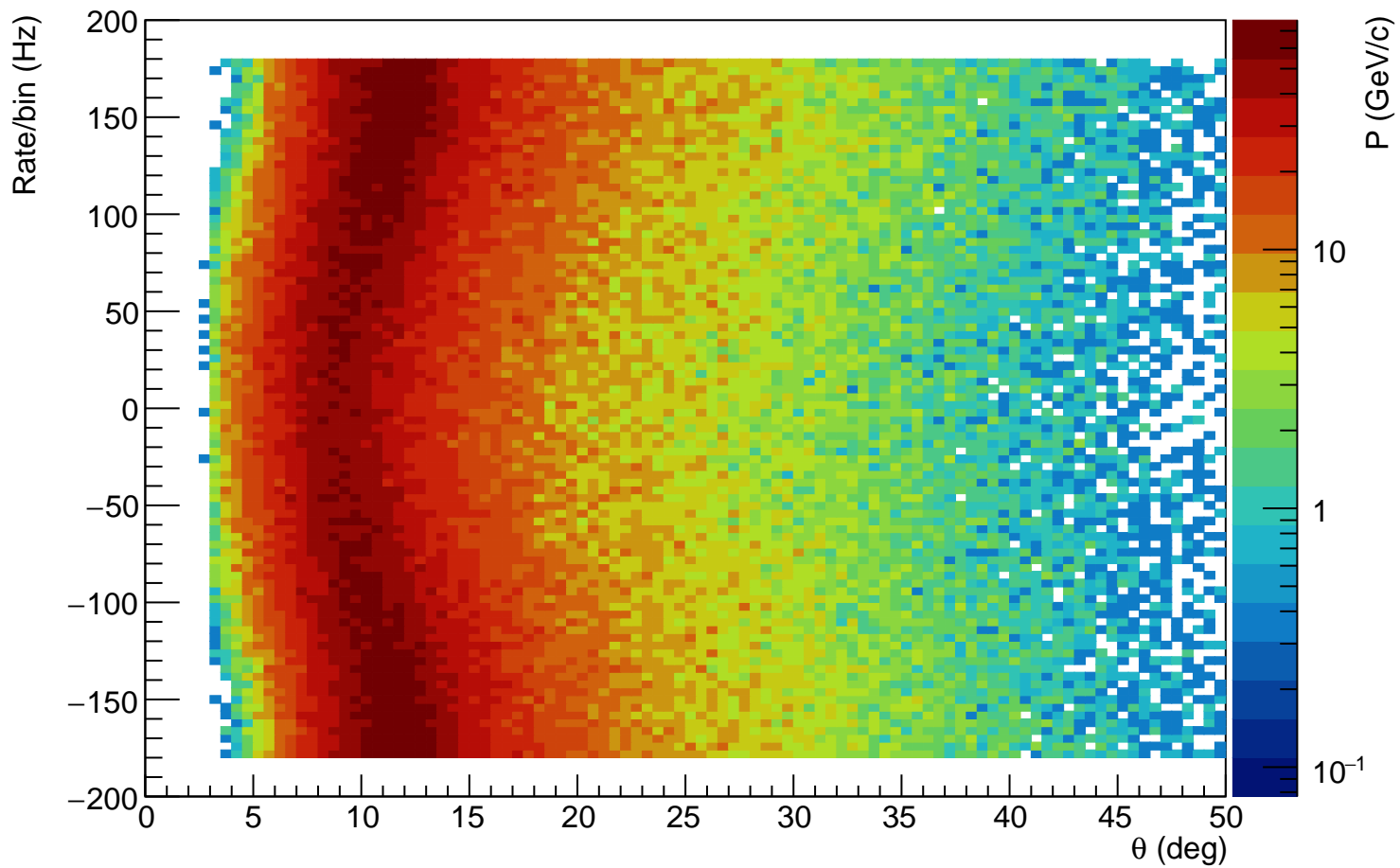
e' rec θ vs ϕ



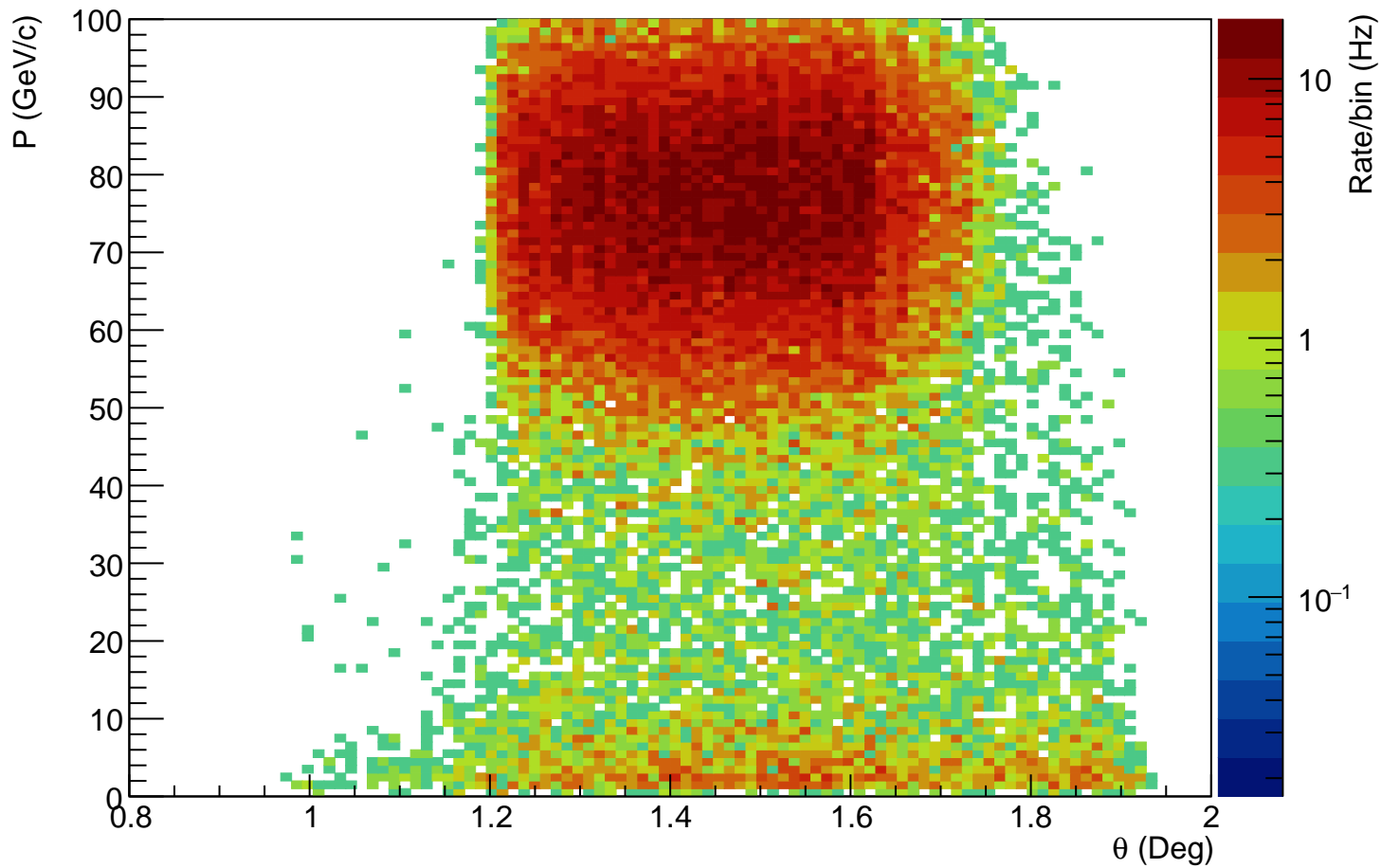
π^+ rec θ vs P



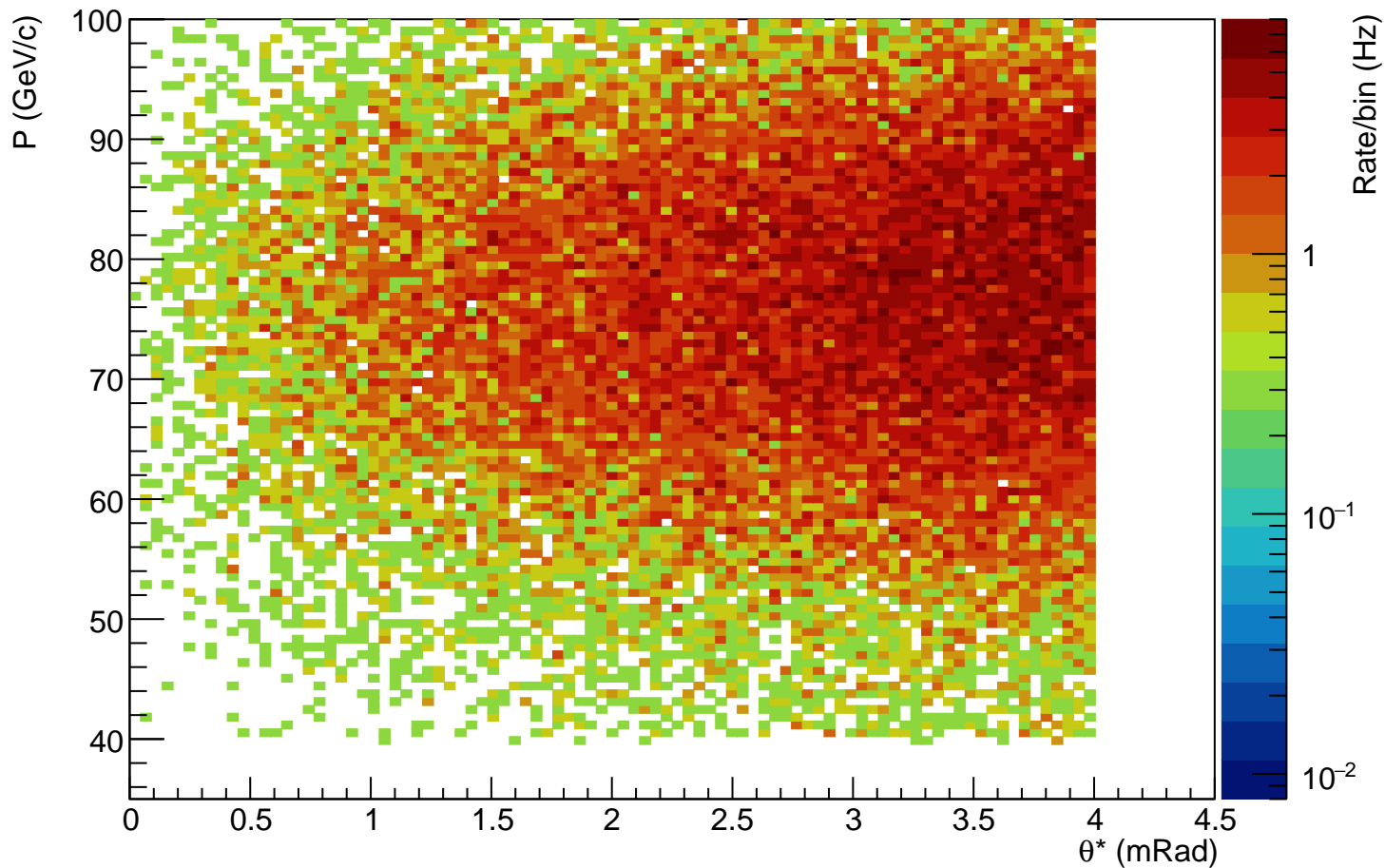
π^+ rec θ vs ϕ



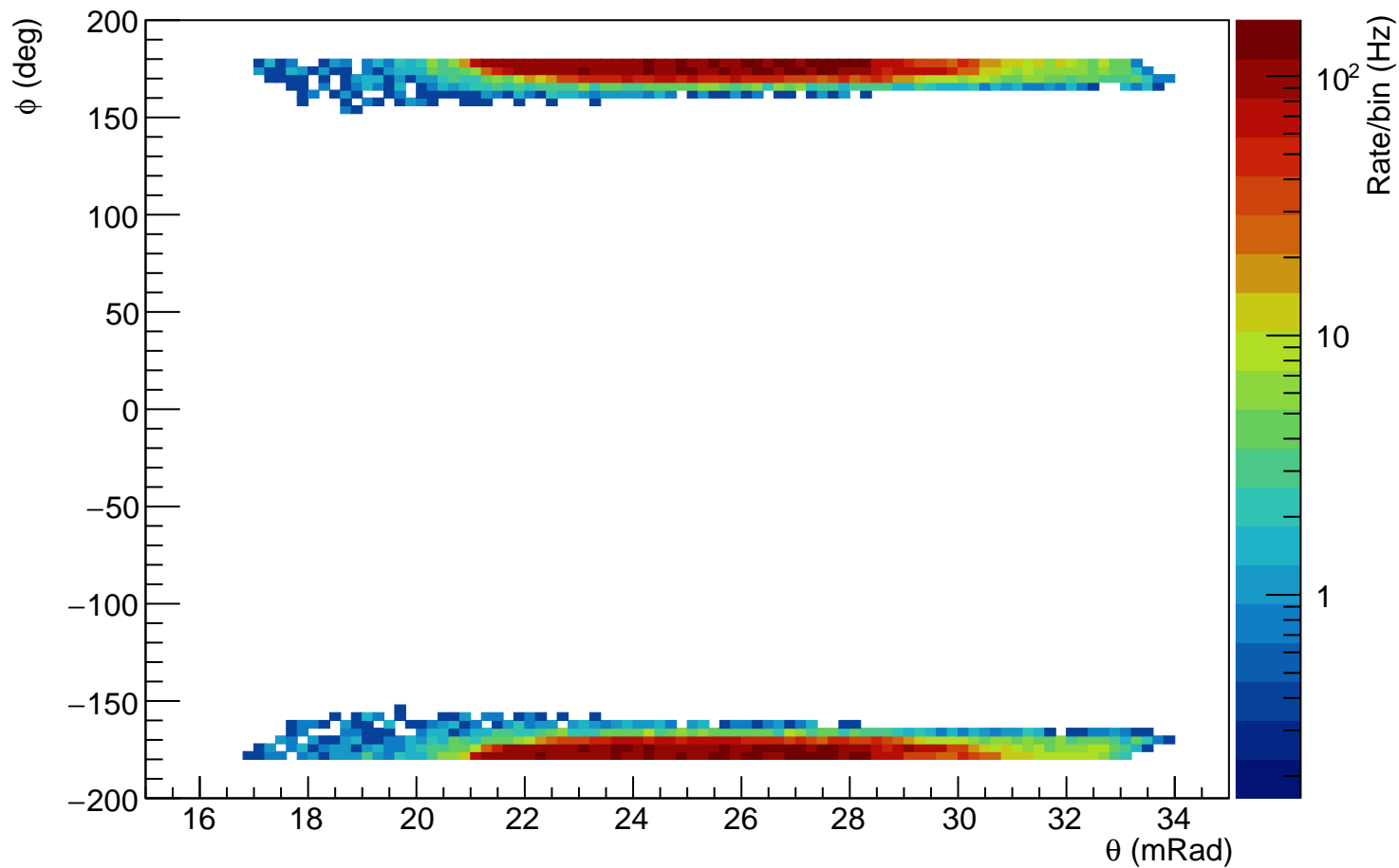
n rec θ vs P for 1 cluster events



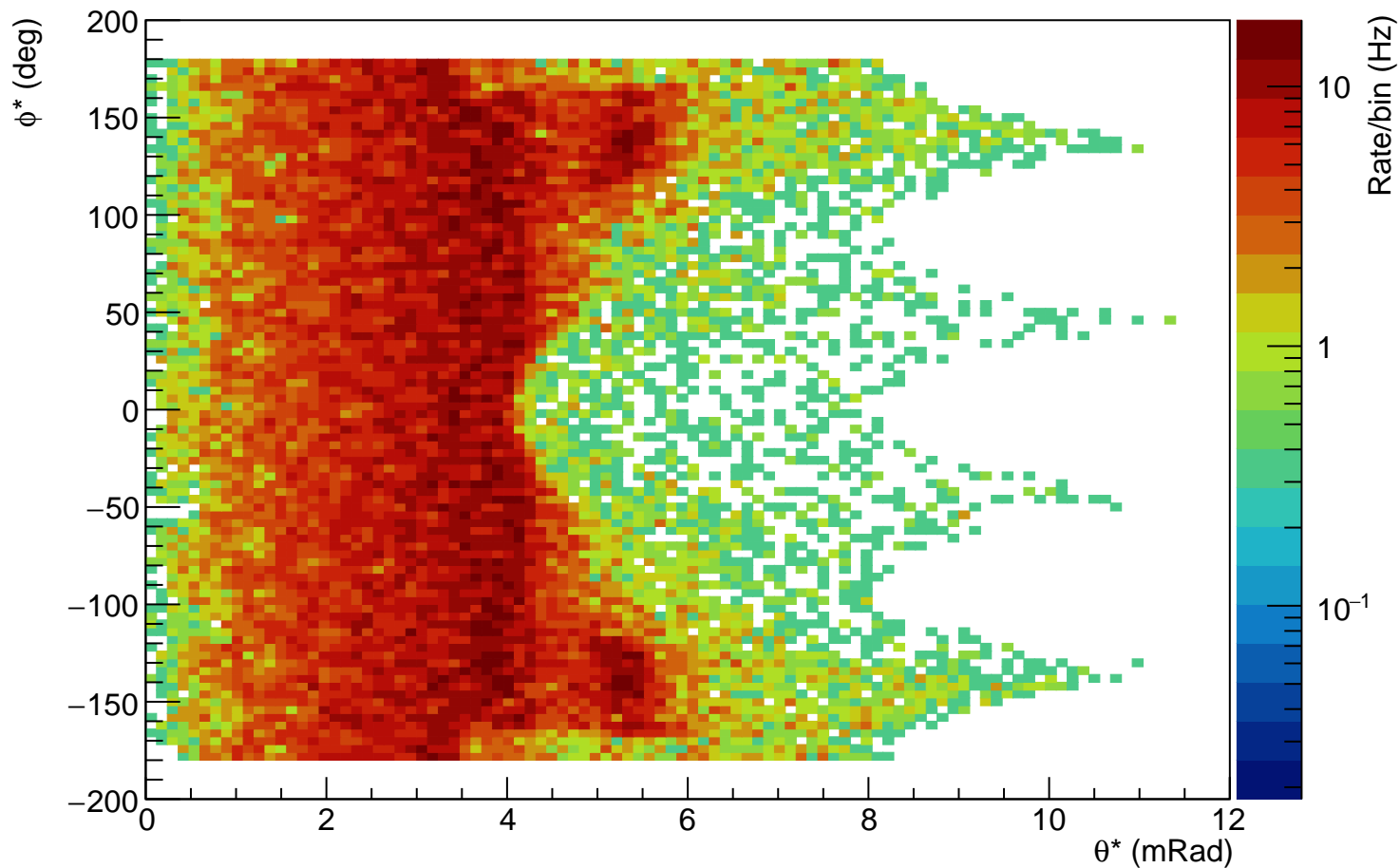
n rec θ^* vs P around p axis for 1 cluster events ($\text{re} \theta^* < 4.0 \text{ mRad}$, $E > 40 \text{ GeV}$)



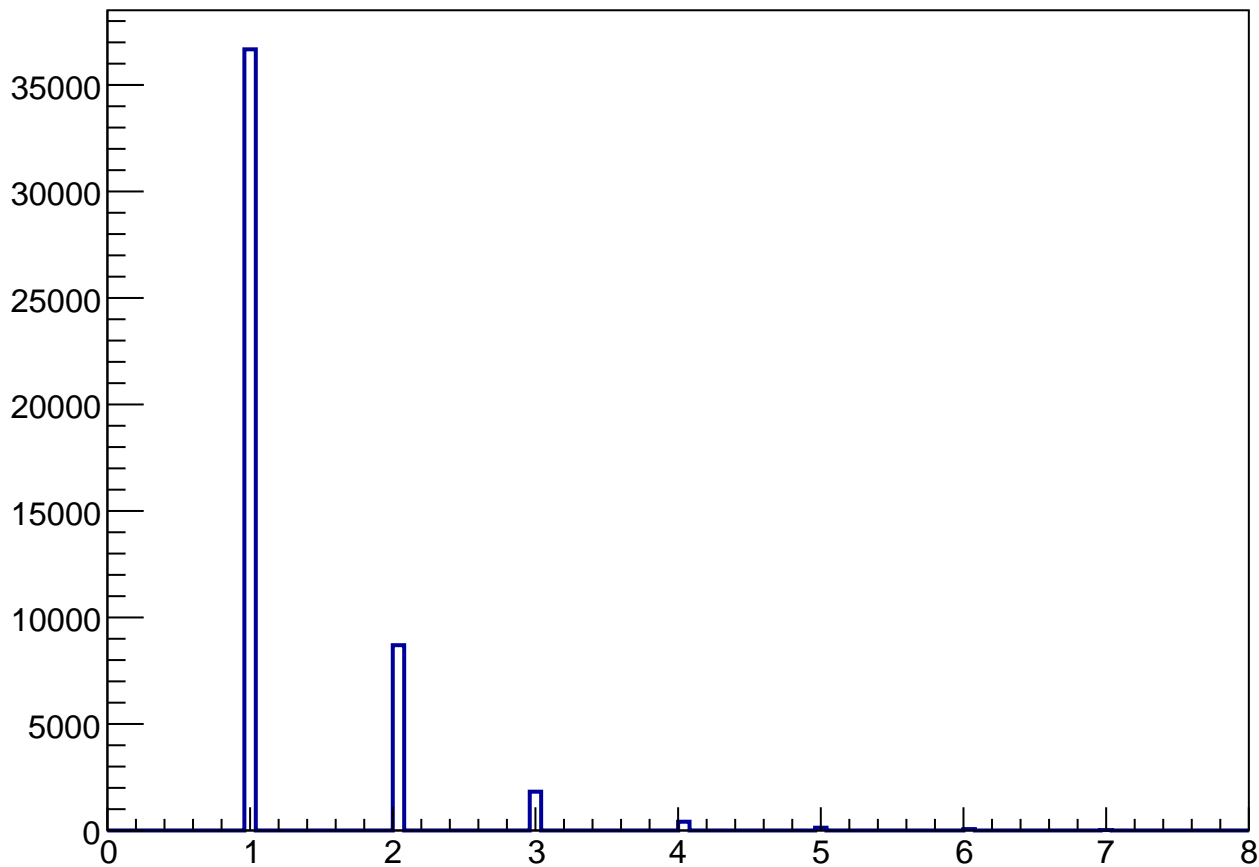
n rec θ vs ϕ for all clusters



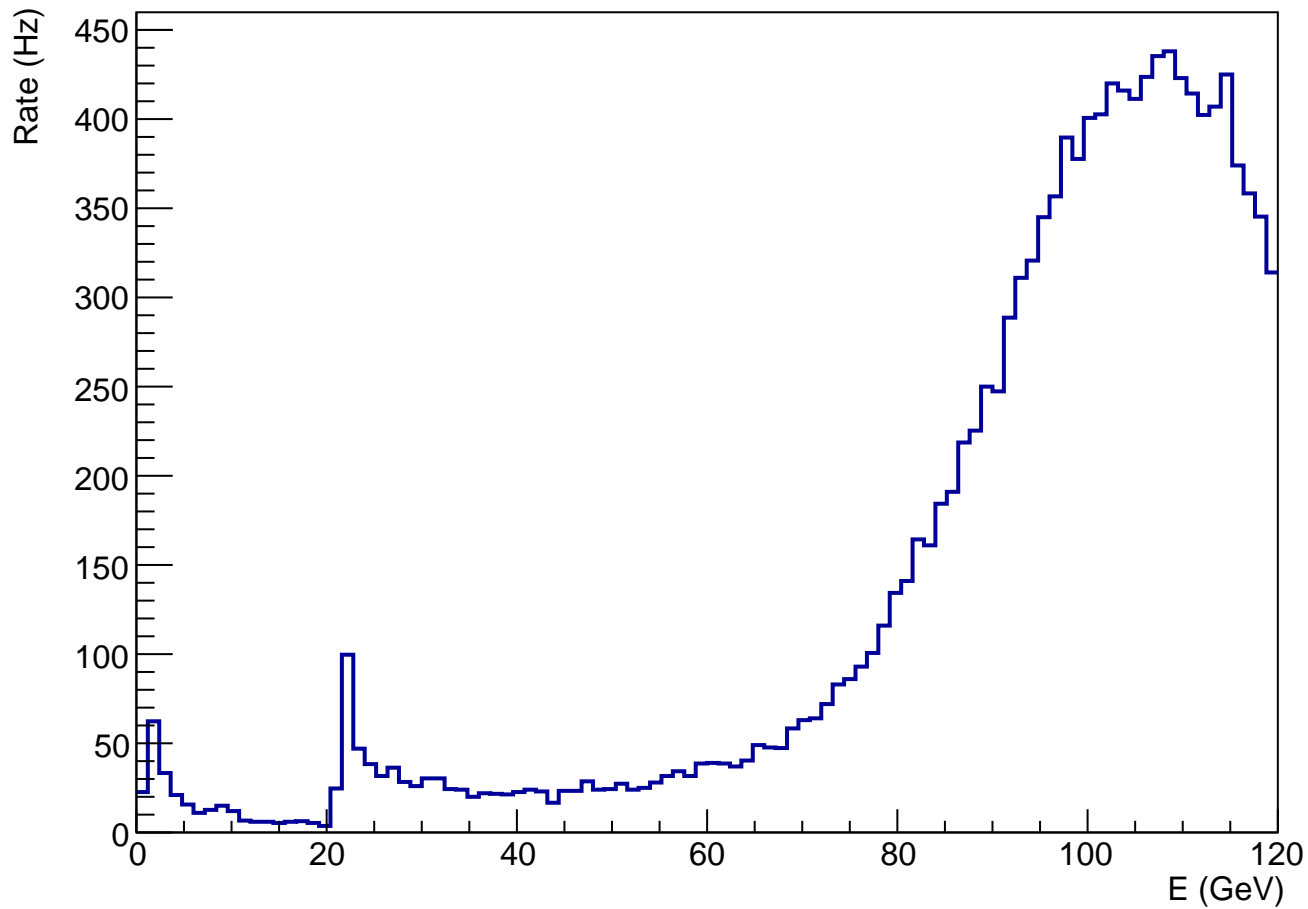
n rec θ^* vs ϕ^* around p axis for all clusters



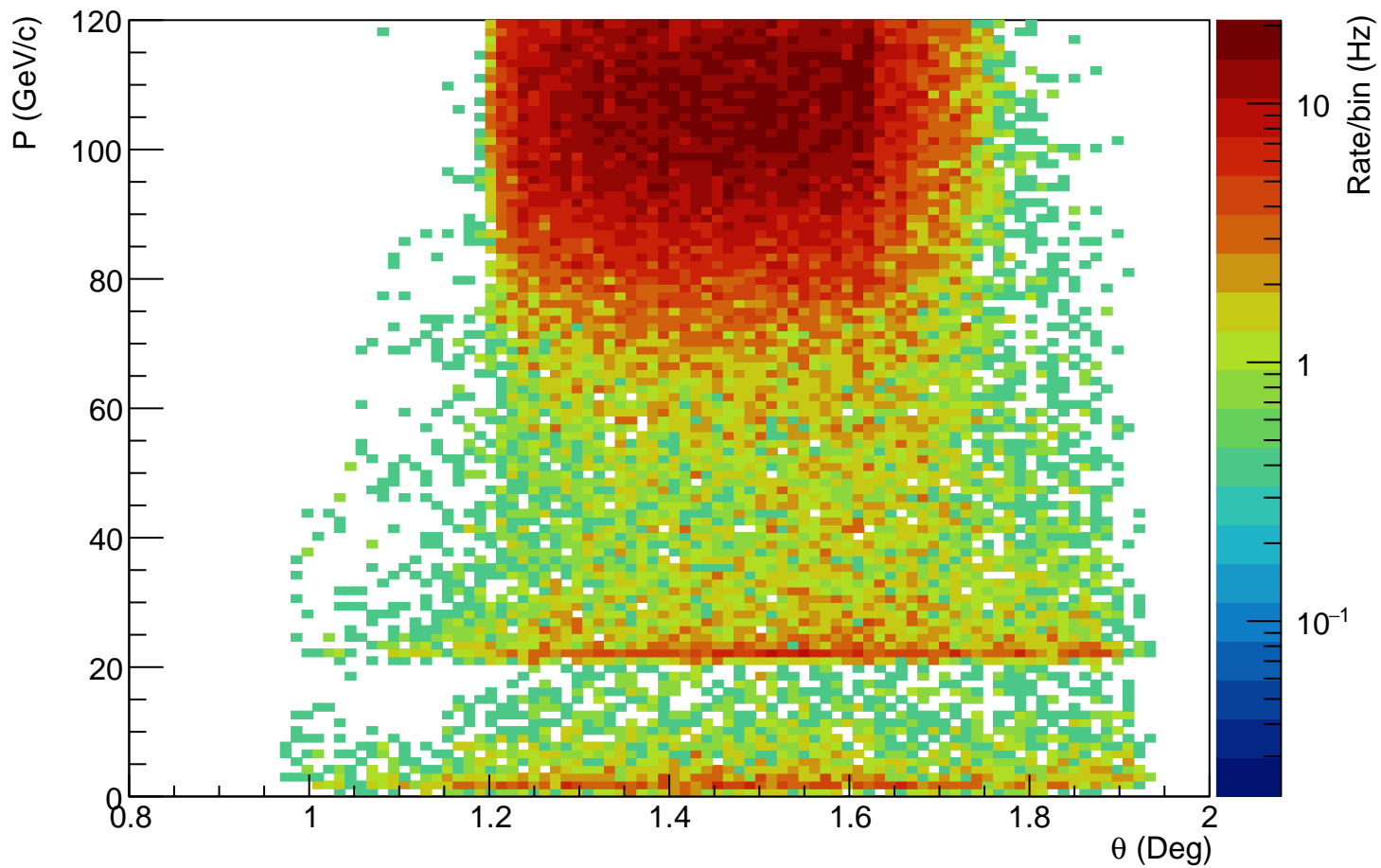
n all clusters ($\text{rec}\theta^* < 4.0 \text{ mRad}$)



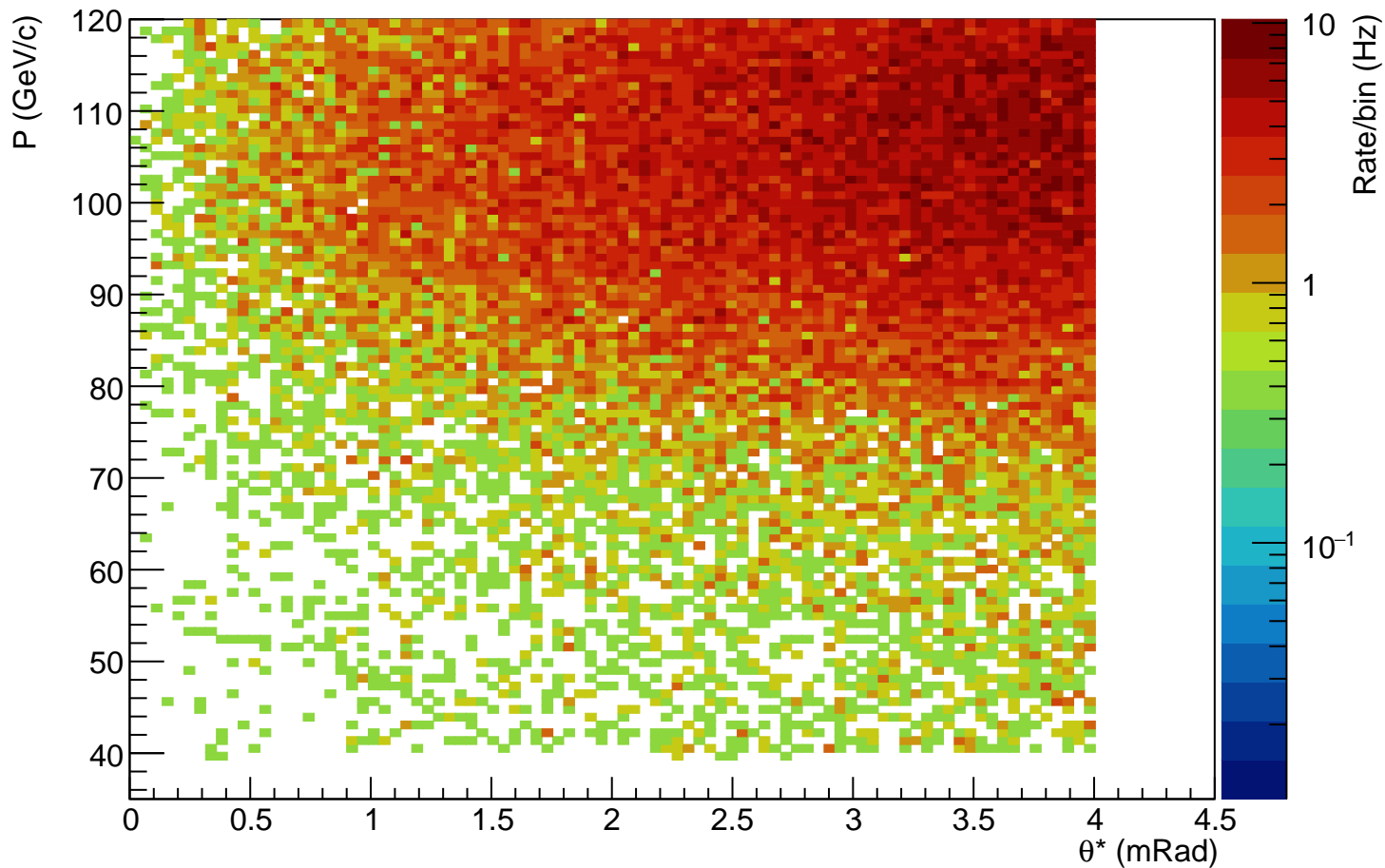
n rec E for all clusters ($\text{re}\theta^* < 4.0 \text{ mRad}$)



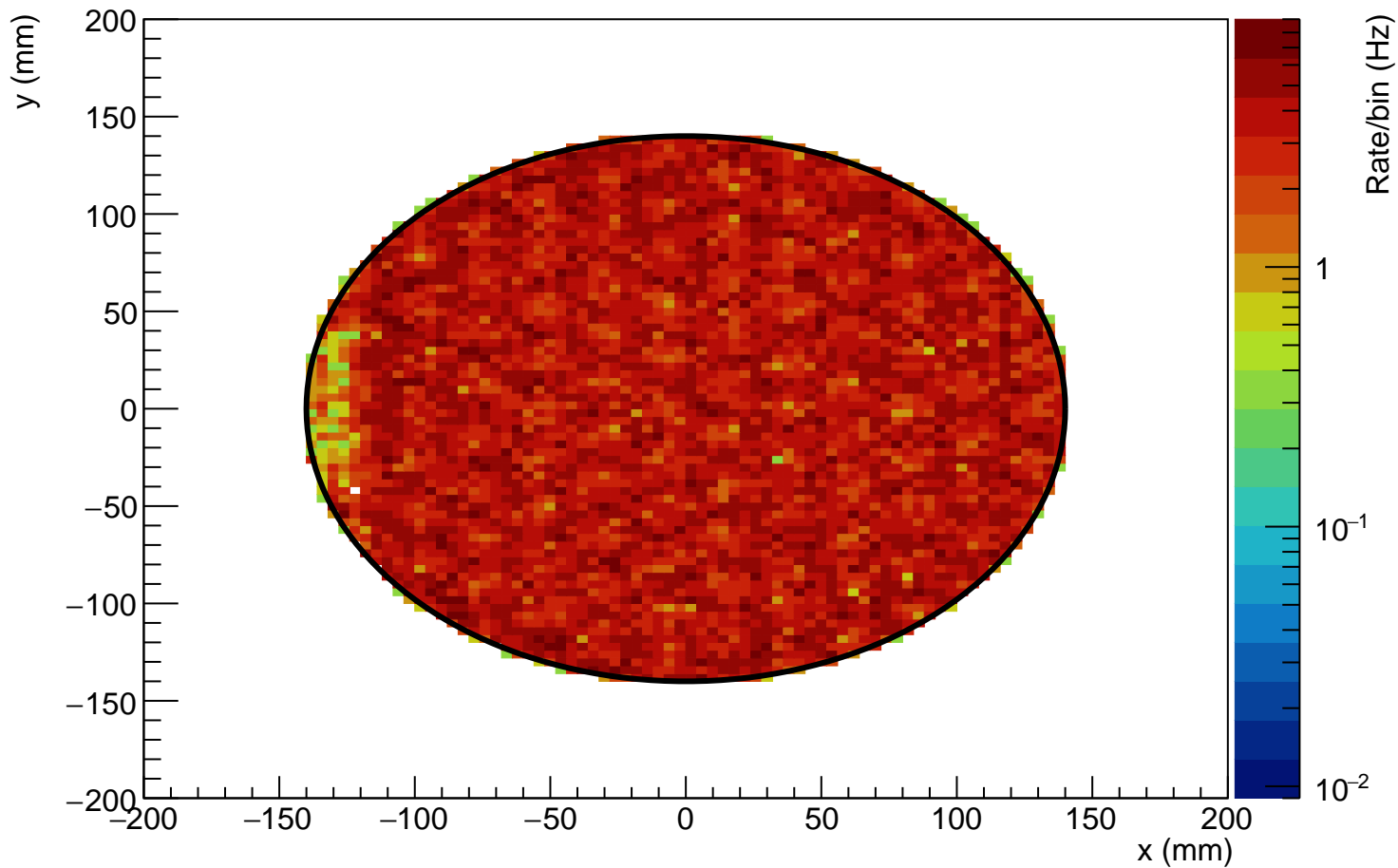
n rec θ vs P



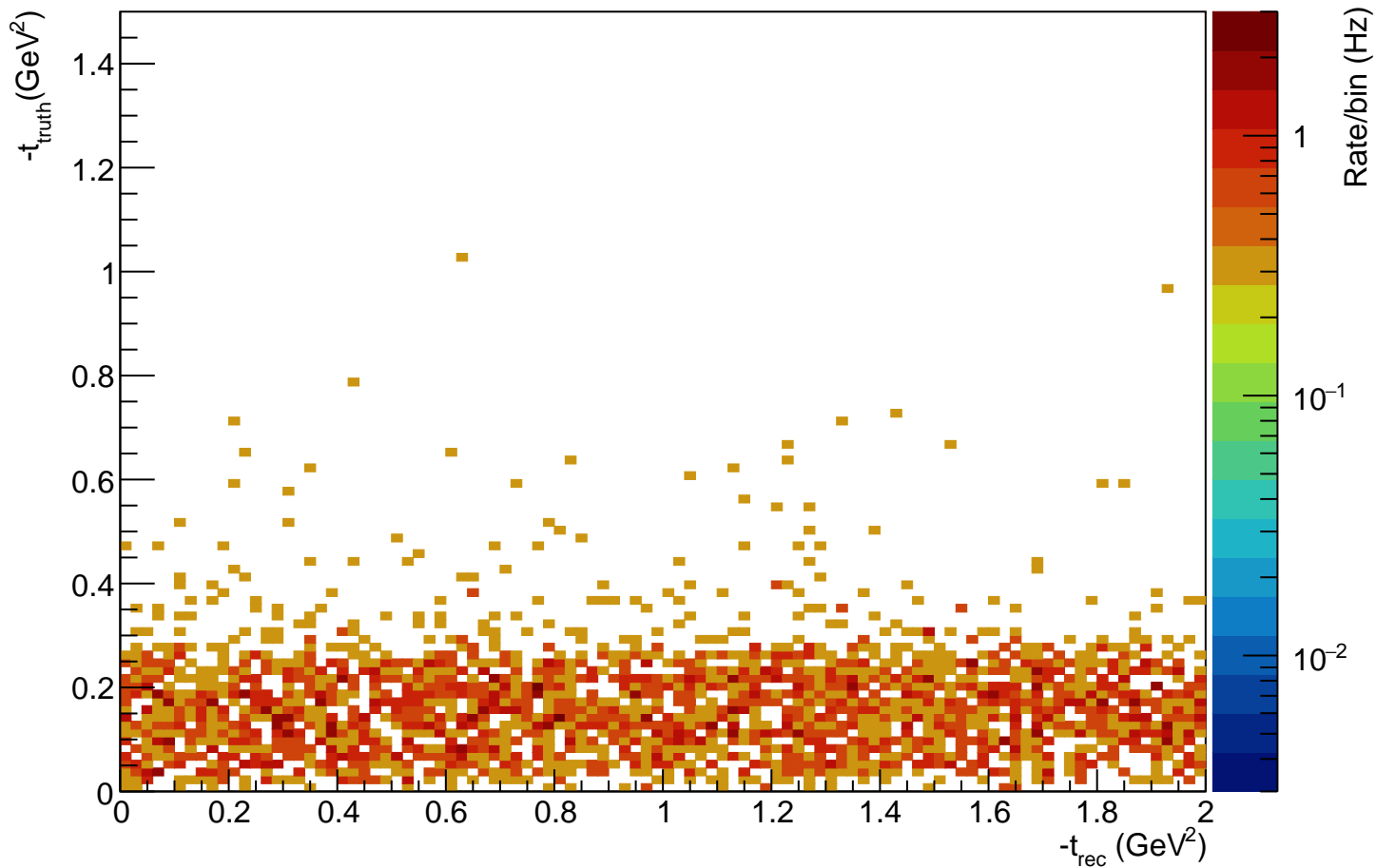
n rec θ^* vs P around p axis for all clusters ($\text{rec } \theta^* < 4.0 \text{ mRad}$, $E > 40 \text{ GeV}$)



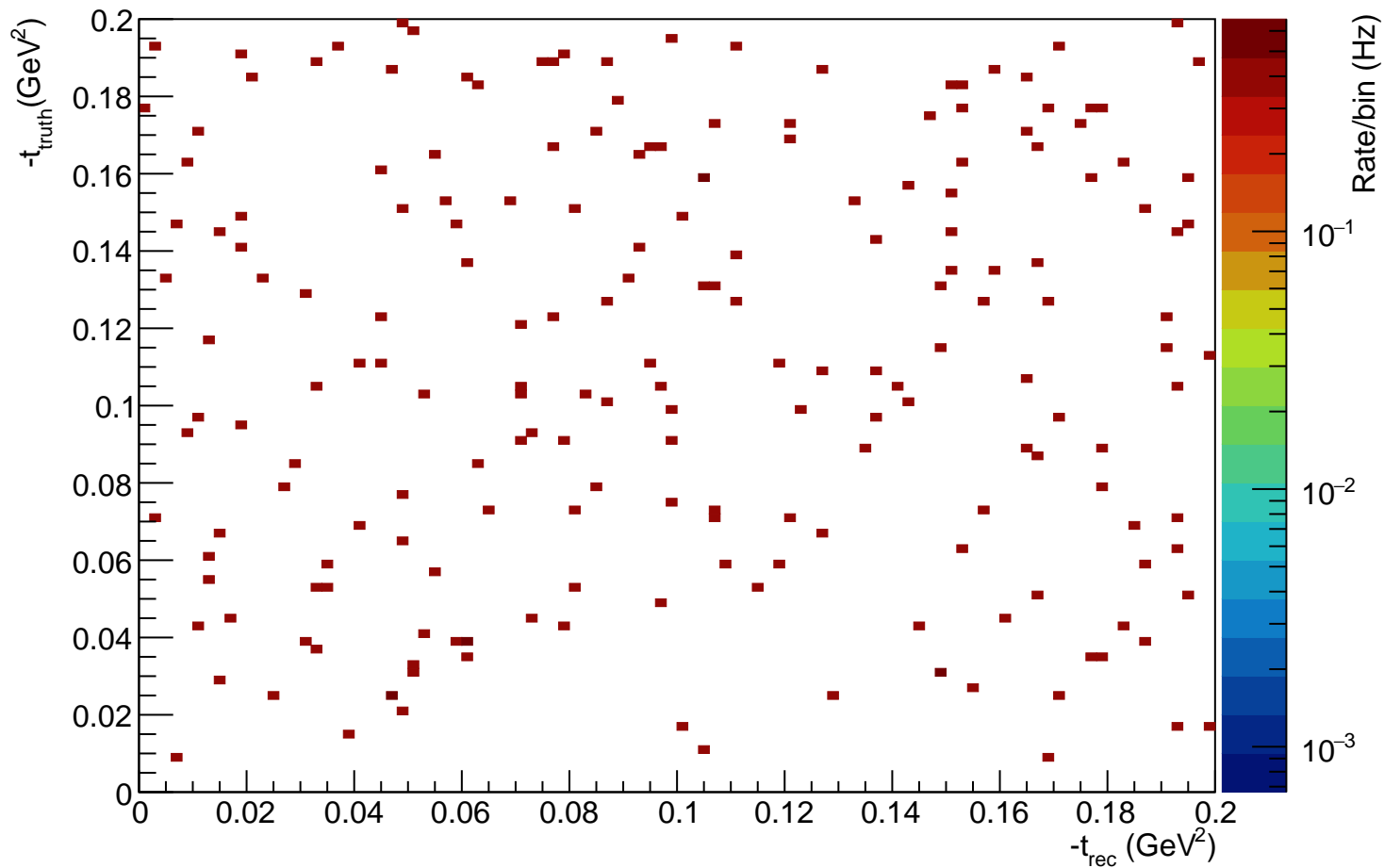
n X vs Y around proton axis at Z = 35 m for all clusters ($\theta^* < 4.0$ mRad, E > 40 GeV)



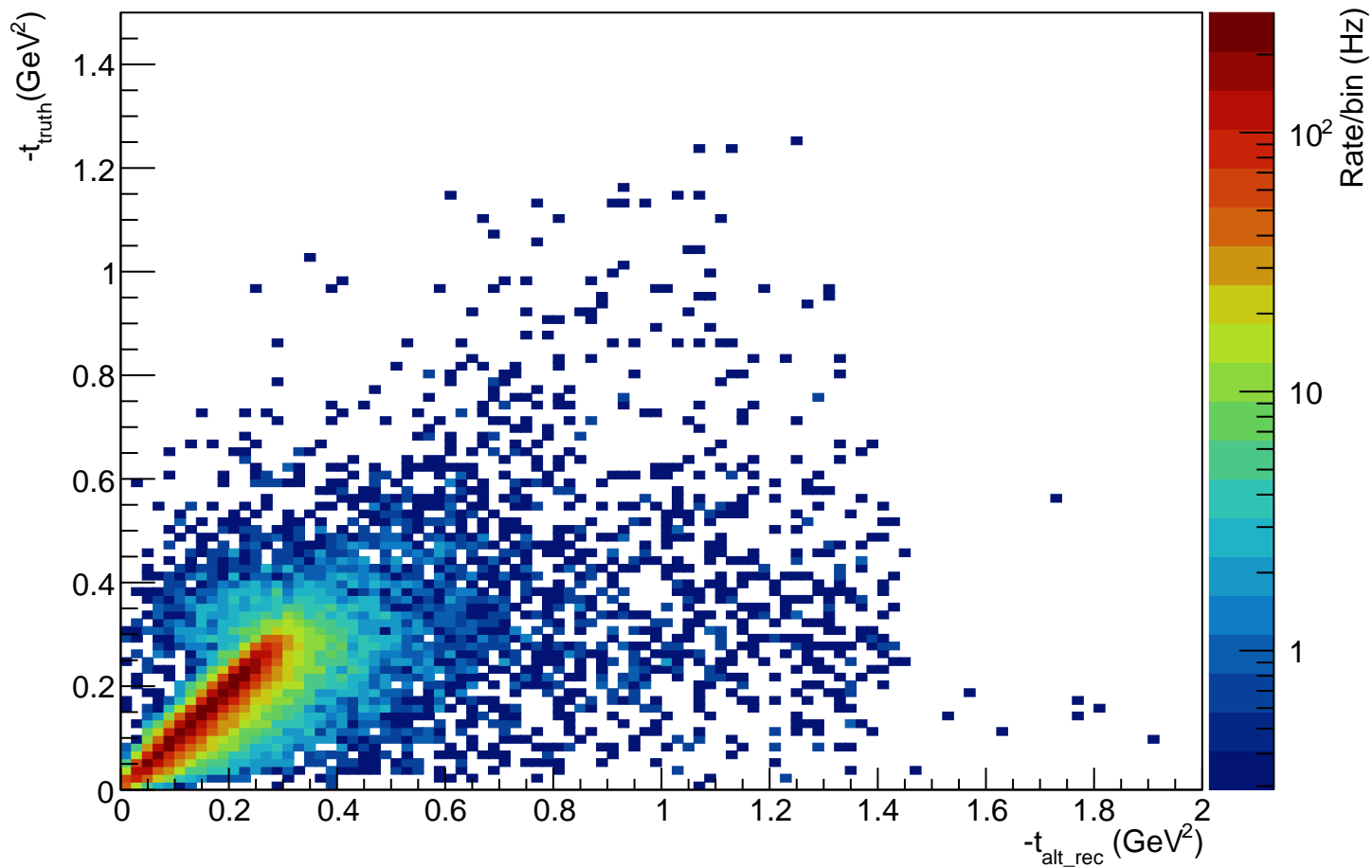
-t rec vs -t truth Distribution



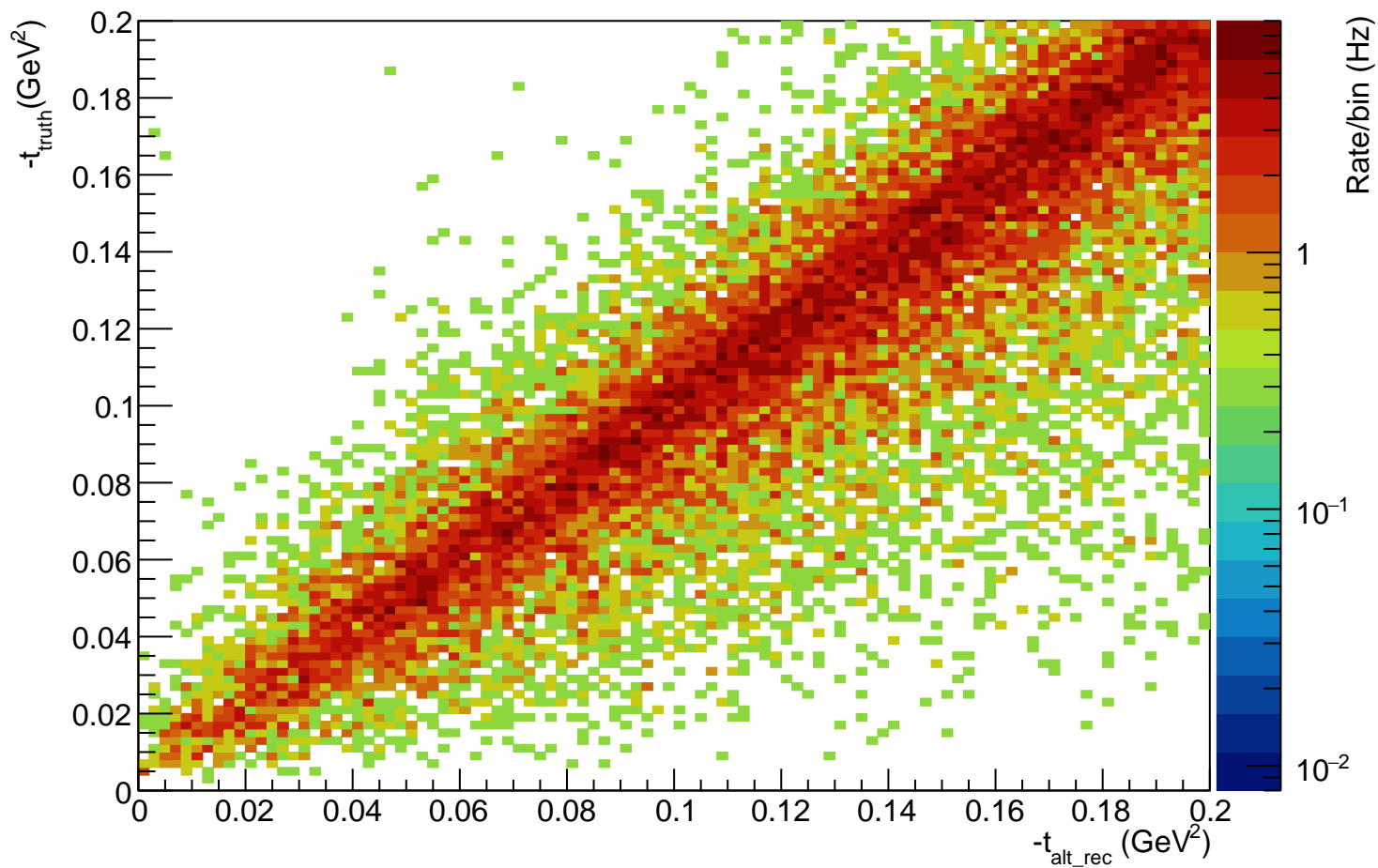
-t rec vs -t truth Distribution



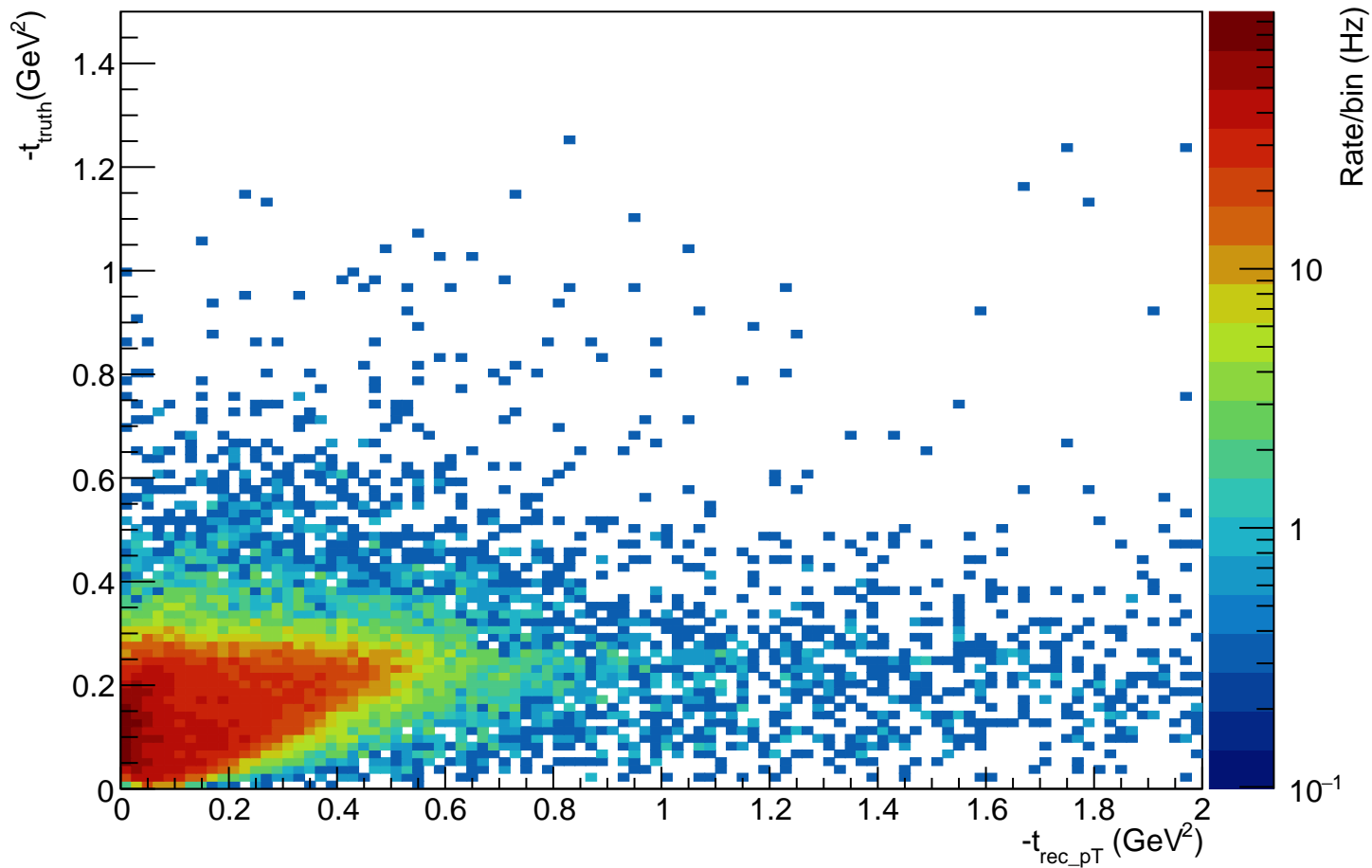
-t alt_rec vs -t truth Distribution



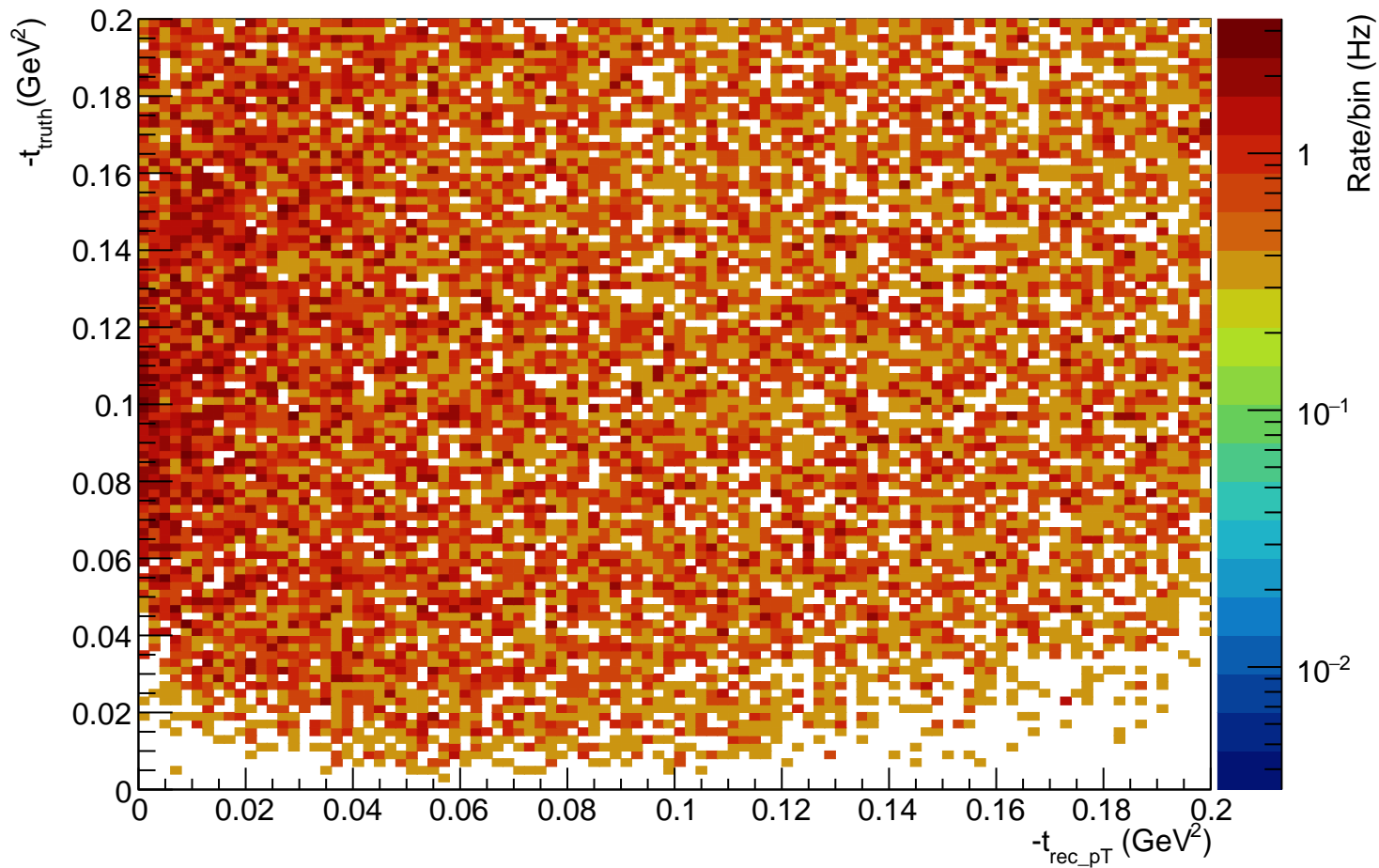
-t alt_rec vs -t truth Distribution



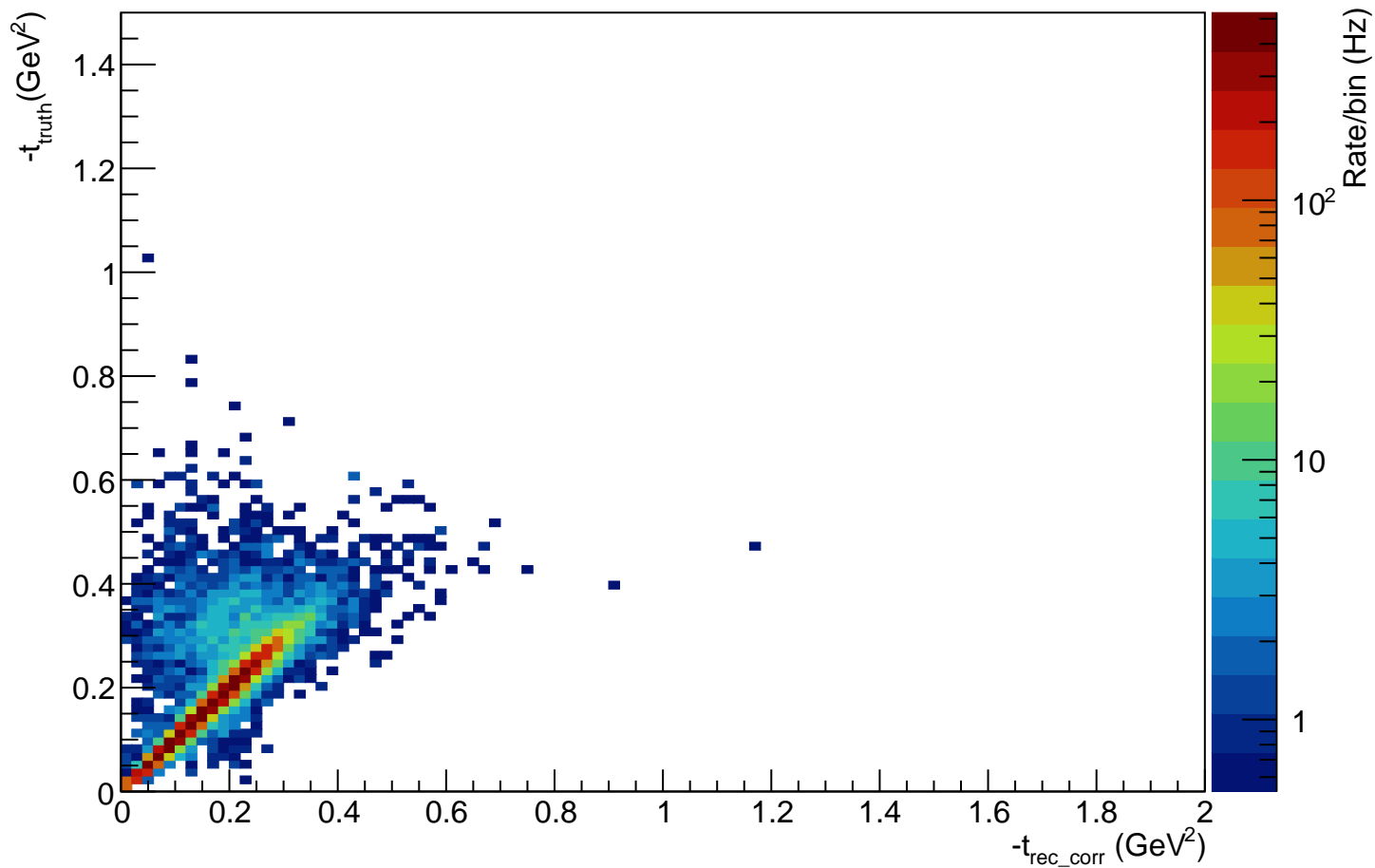
-t rec_pT vs -t truth Distribution



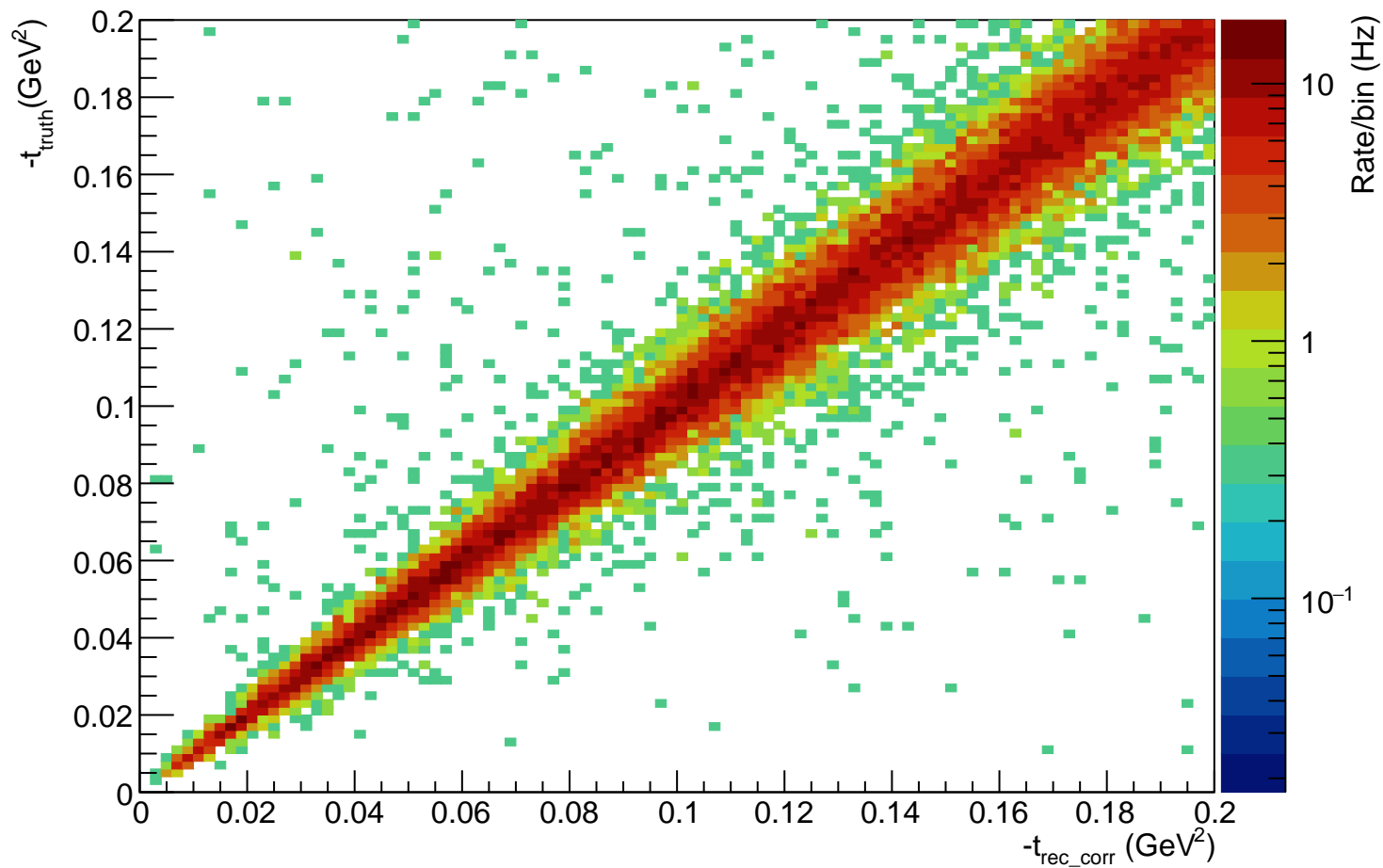
-t rec_pT vs -t truth Distribution



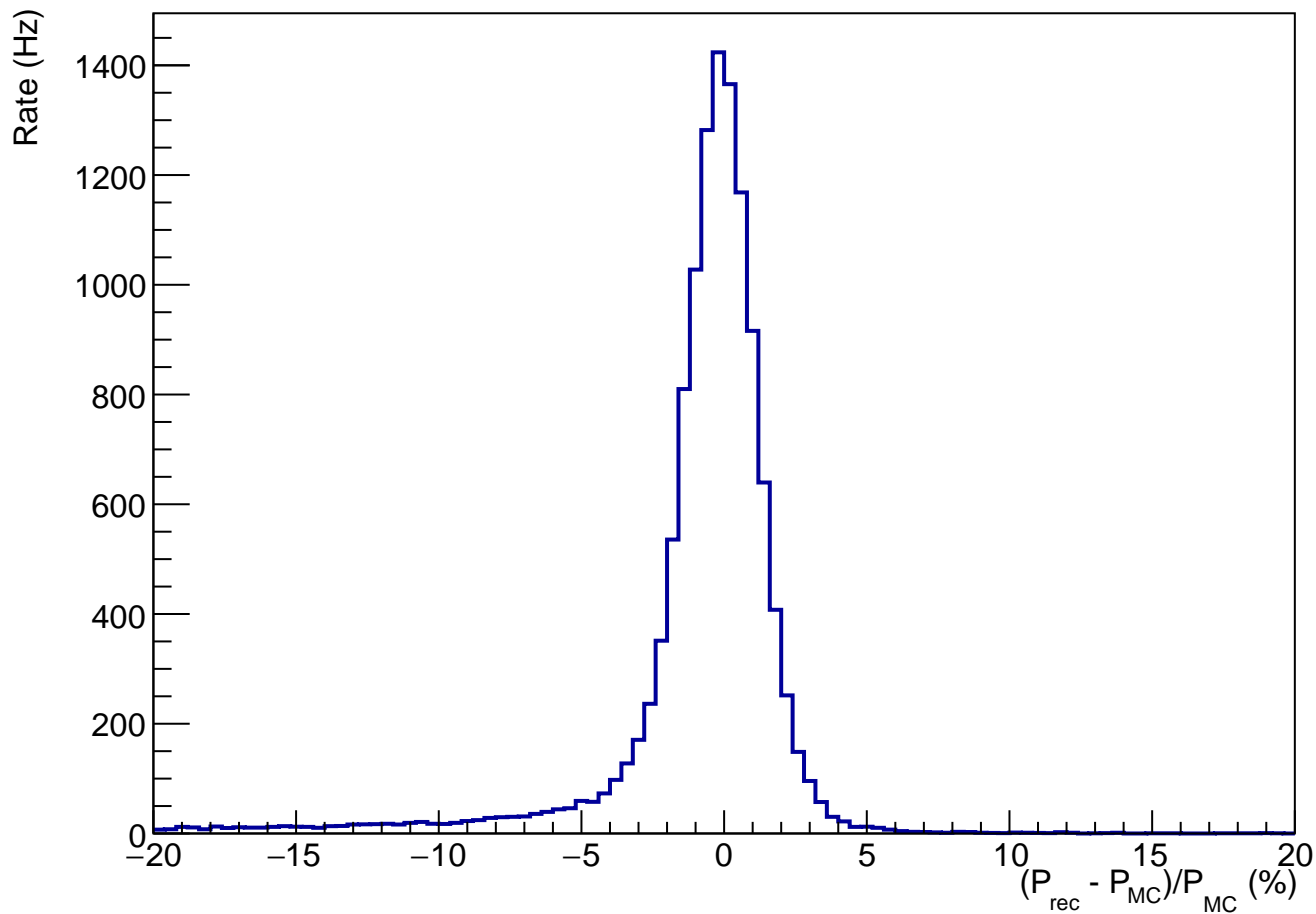
-t rec_corr vs -t truth Distribution



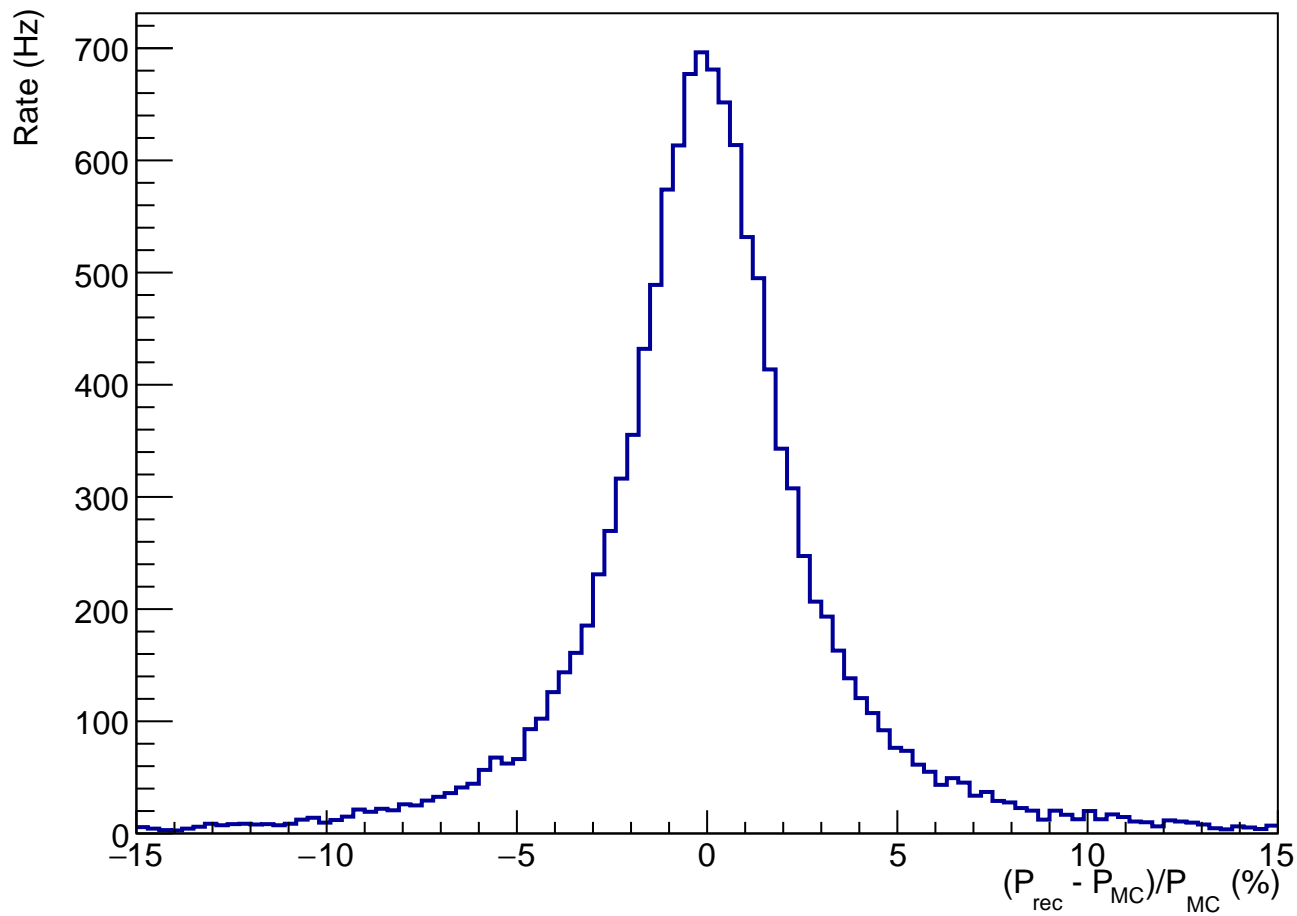
-t rec_corr vs -t truth Distribution



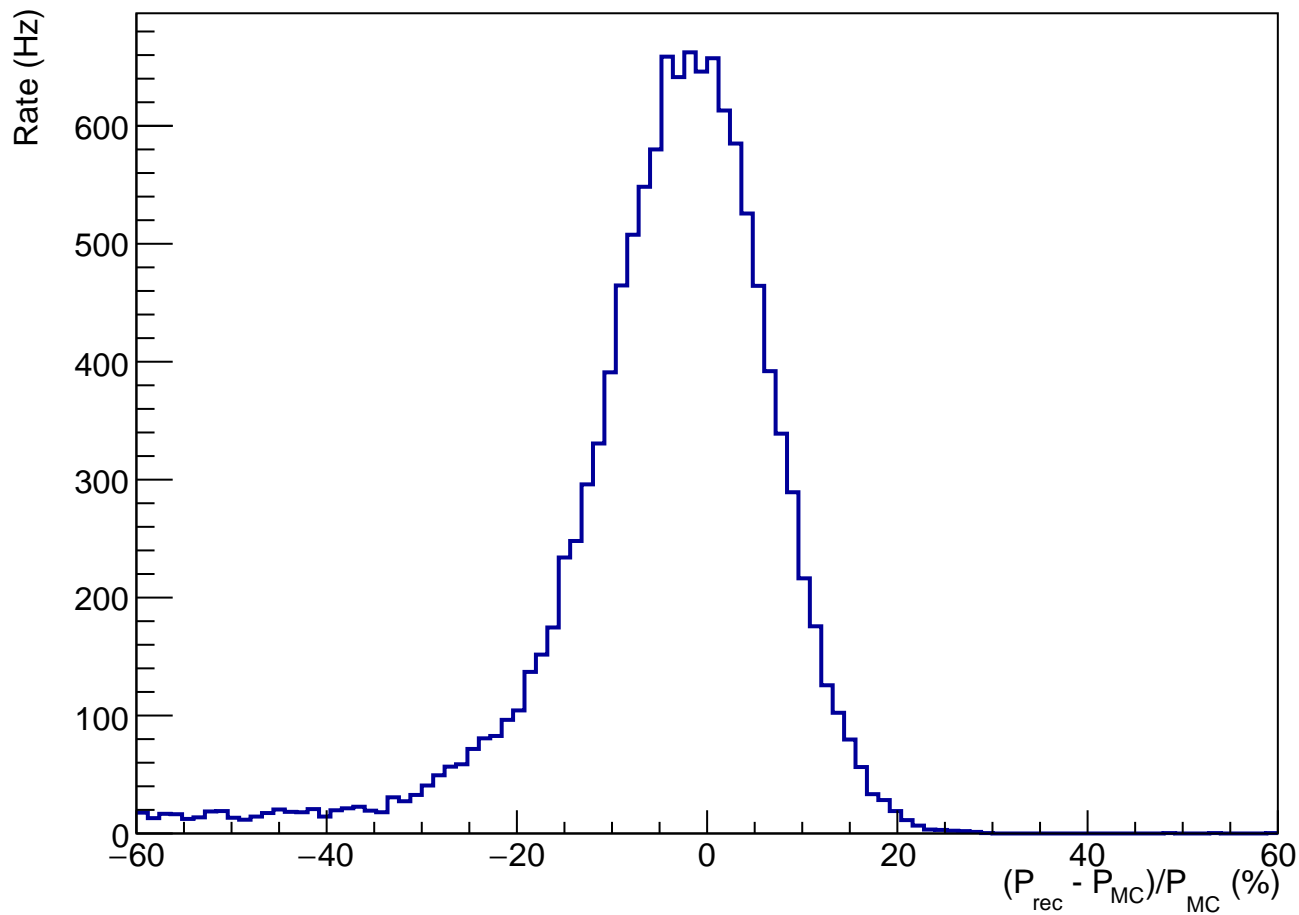
e' Track Momentum Resolution Distribution (%)



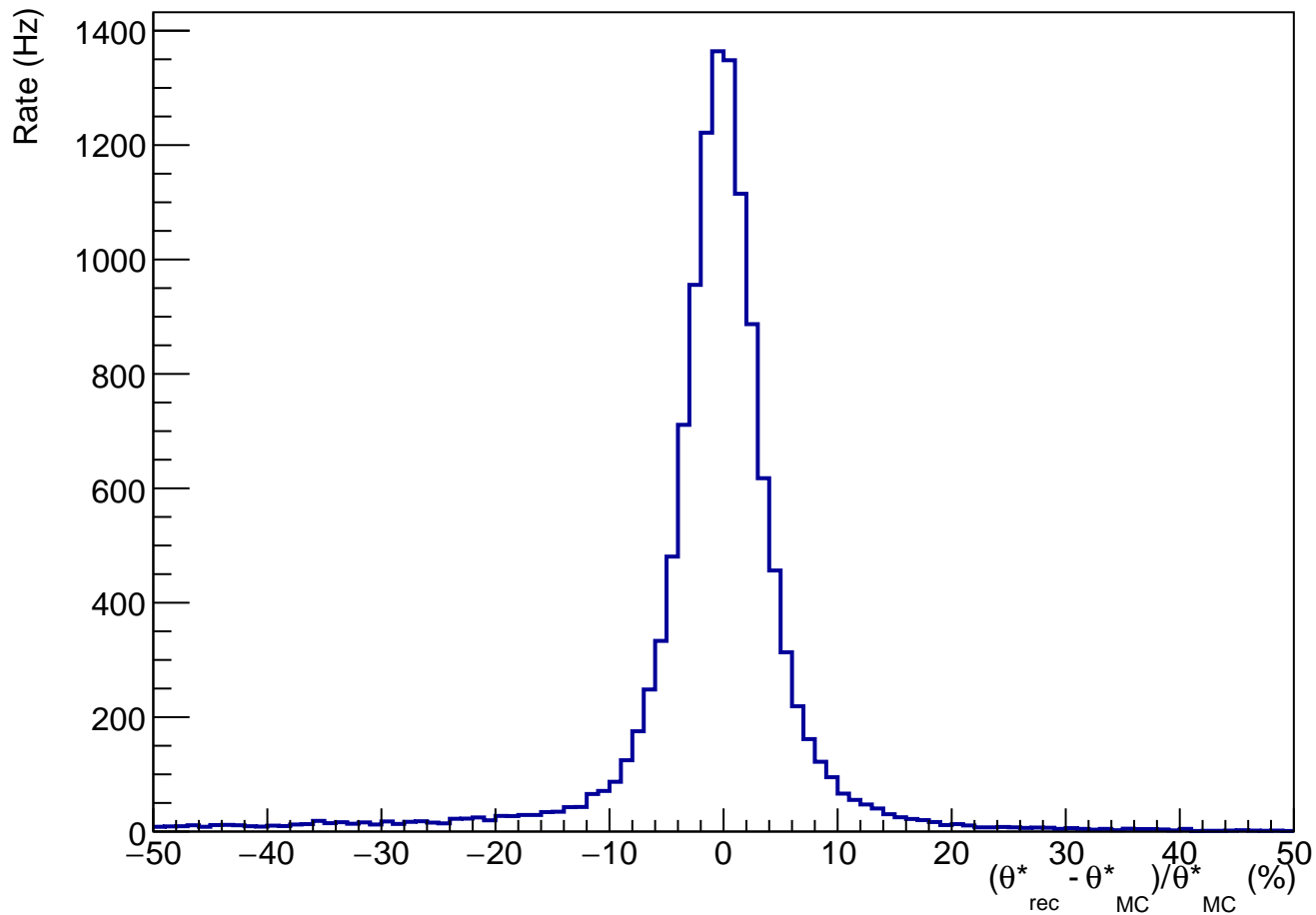
π^+ Track Momentum Resolution Distribution (%)



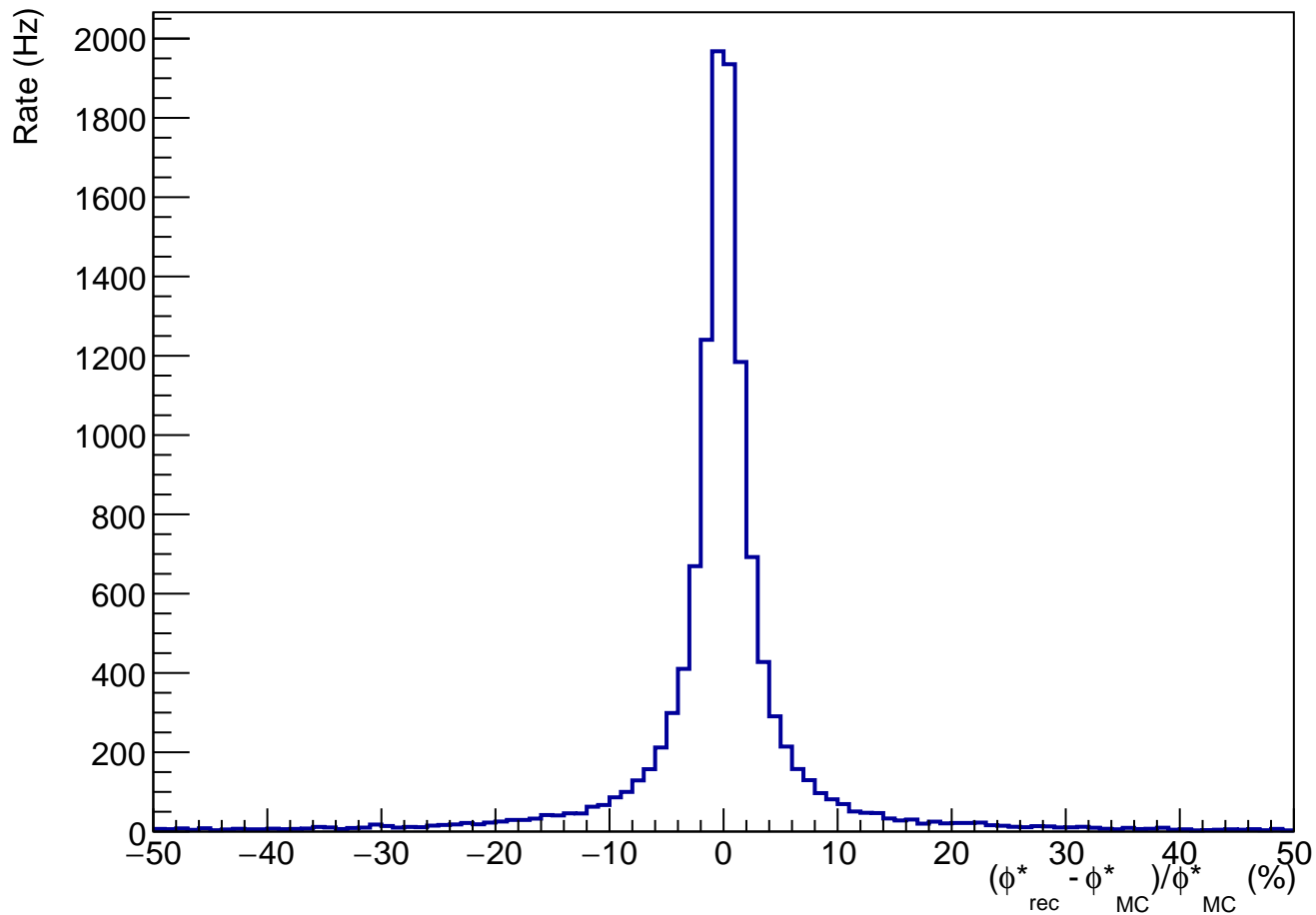
n Track Momentum Resolution Distribution (%)



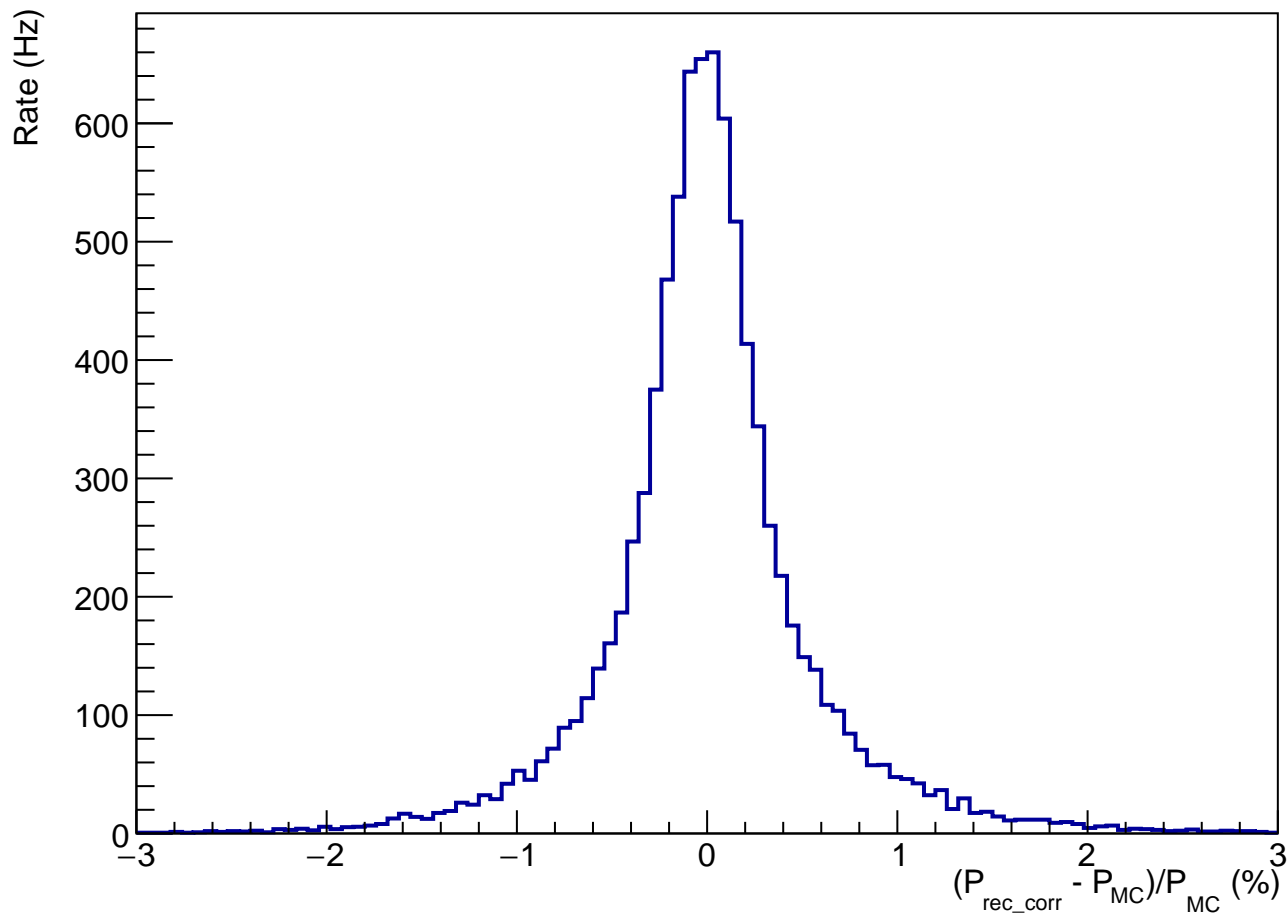
n Track θ^* Resolution Distribution (%)



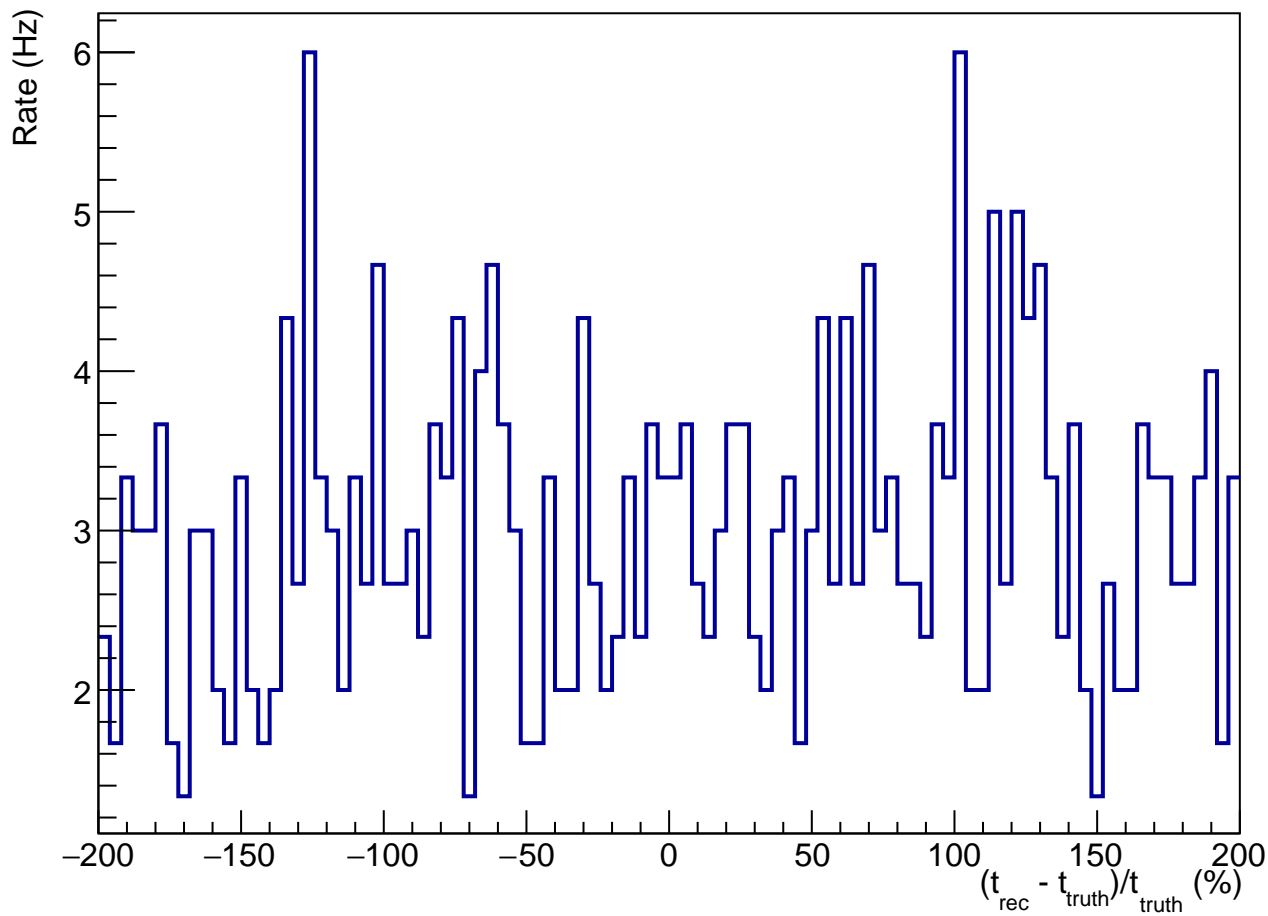
n Track ϕ^* Resolution Distribution (%)



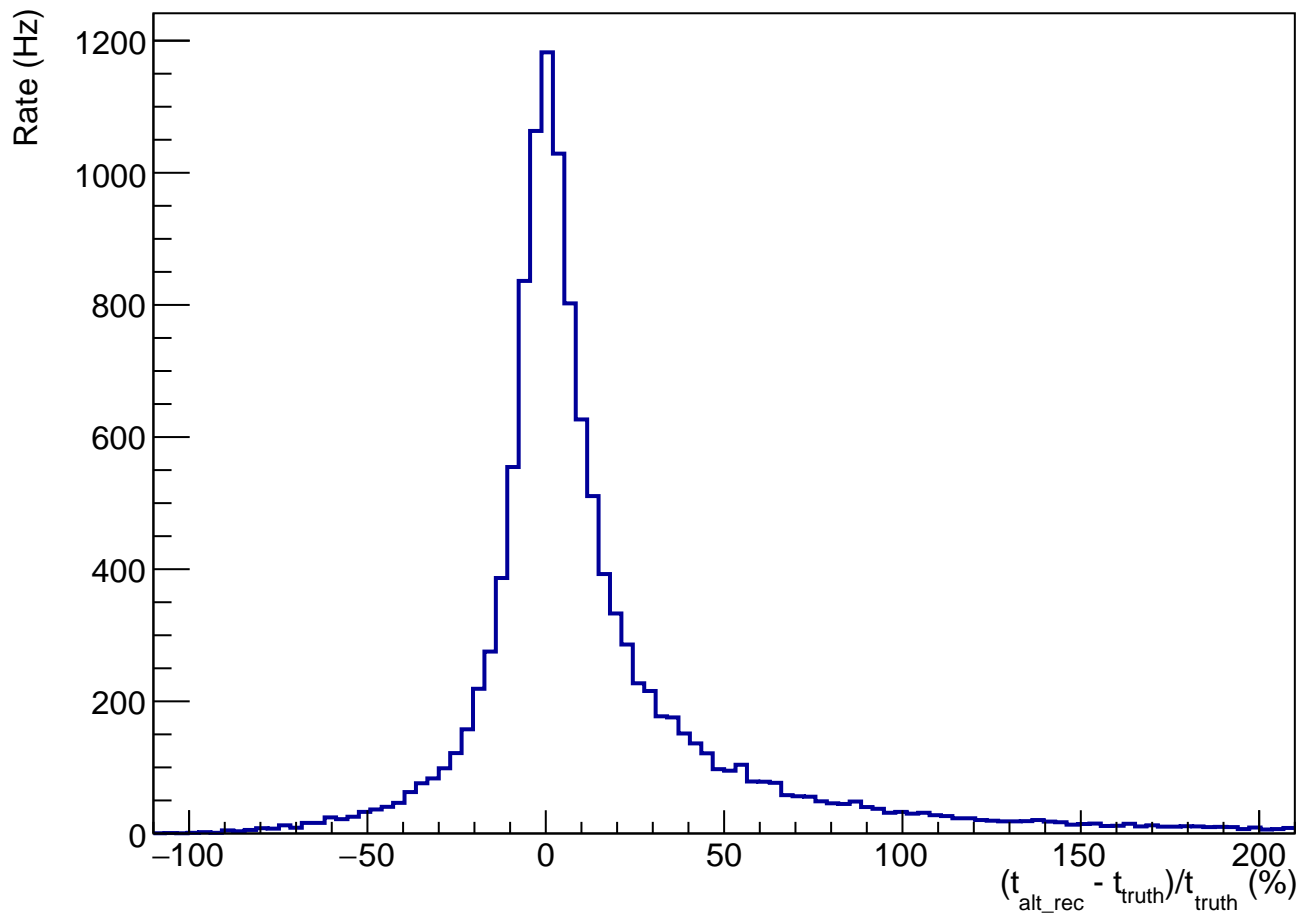
n Track Momentum Resolution Distribution (%)



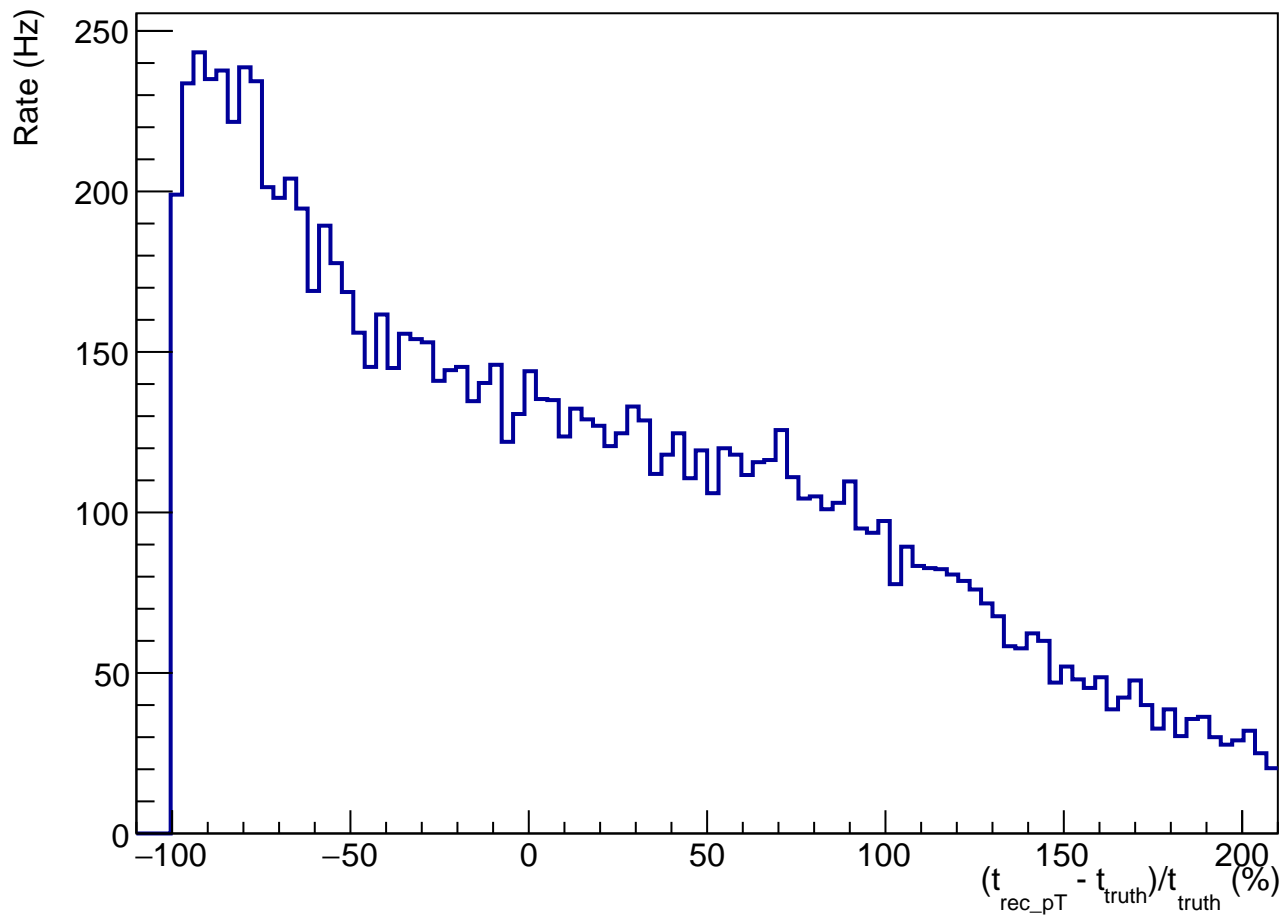
-t Resolution Distribution (%)



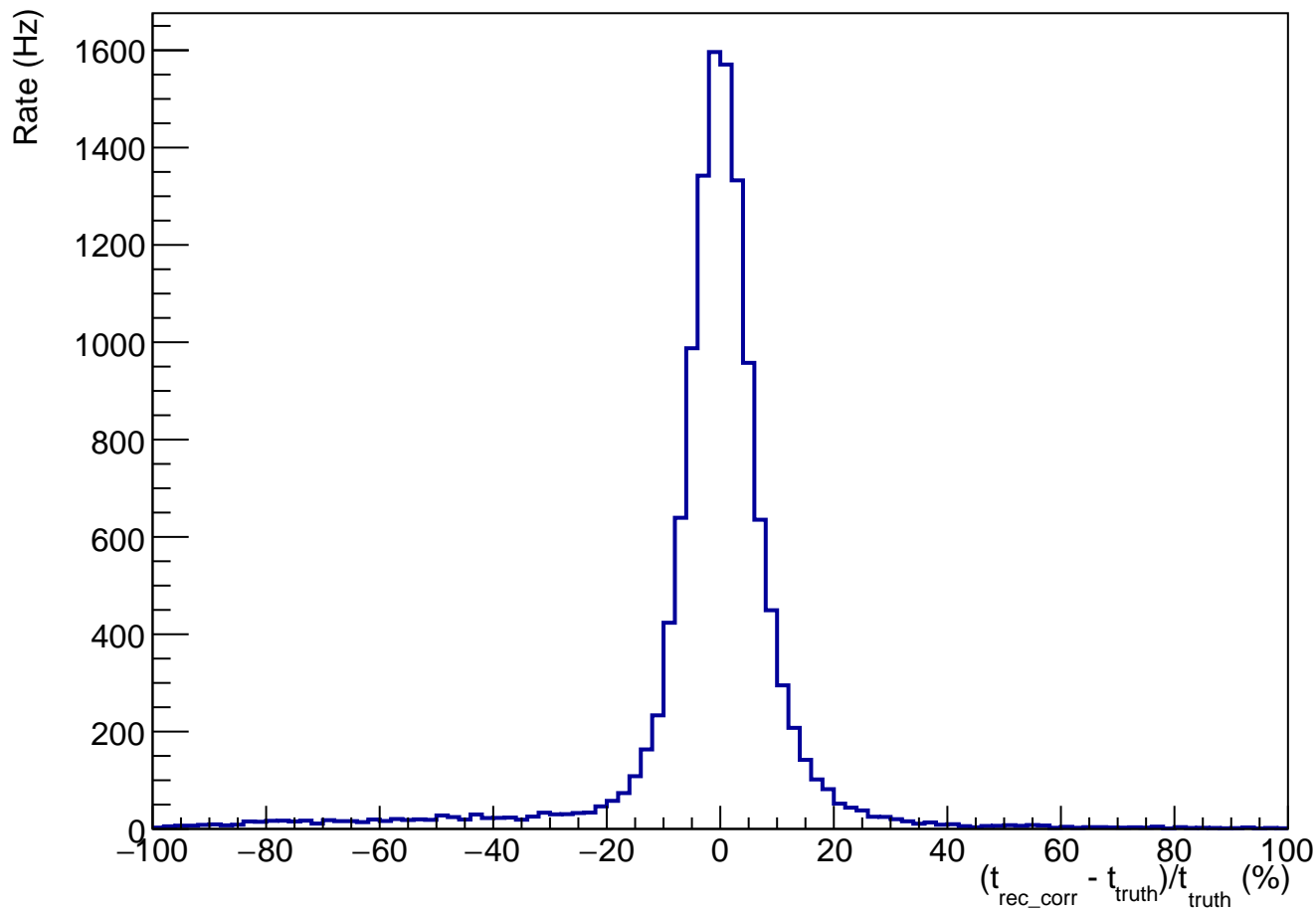
-t Resolution Distribution (%)



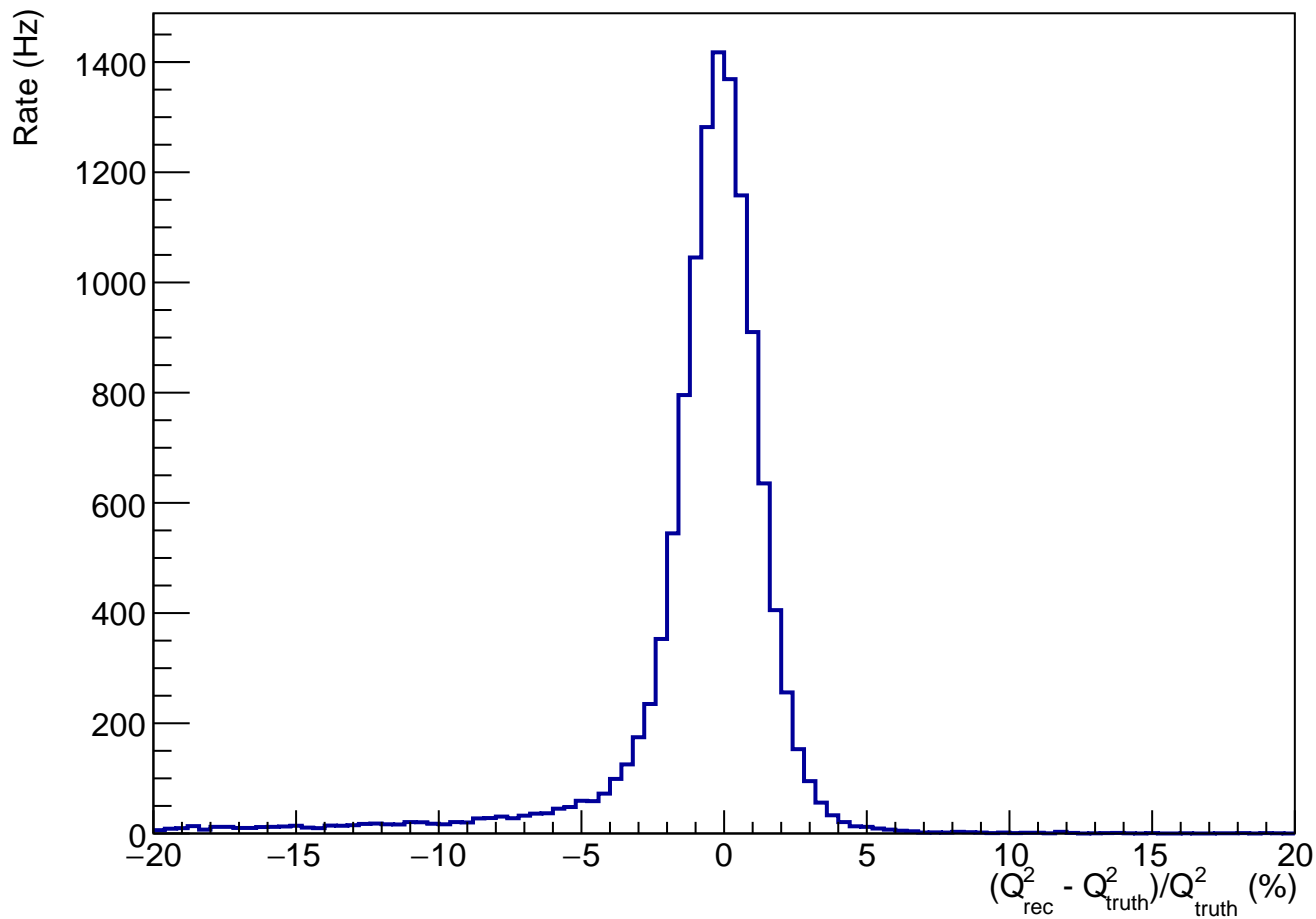
-t Resolution Distribution (%)



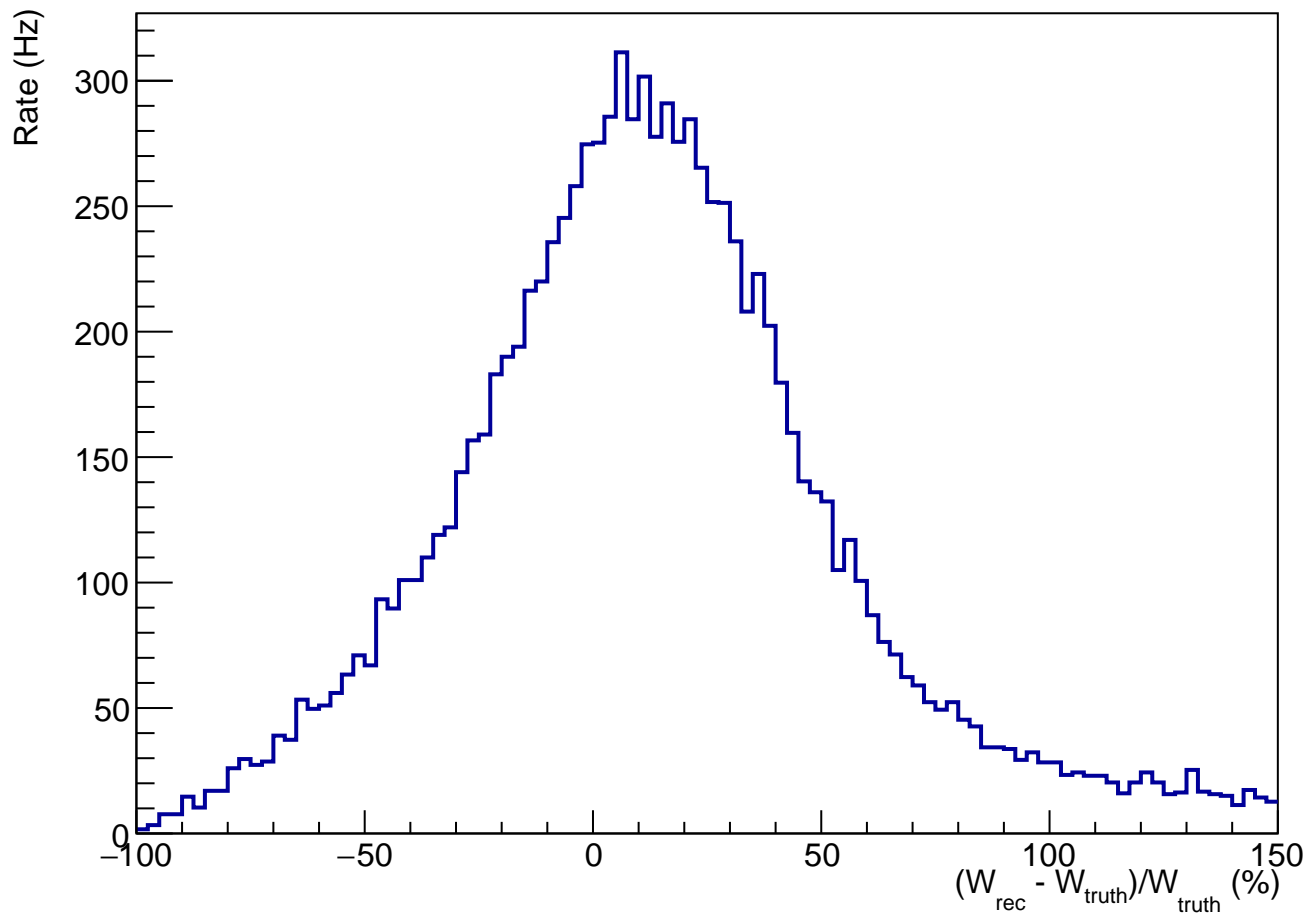
-t Resolution Distribution (%)

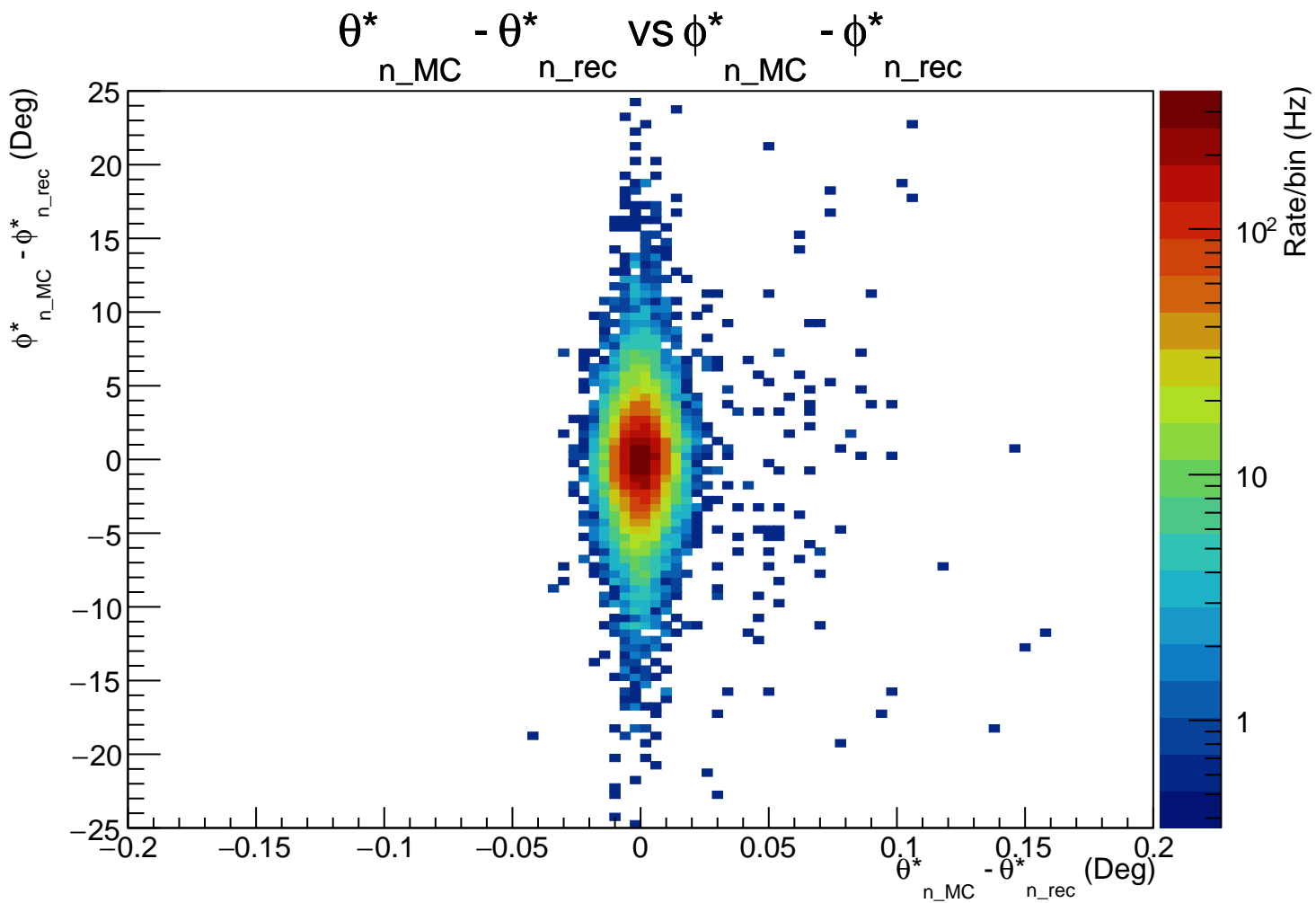


Q^2 Resolution Distribution (%)

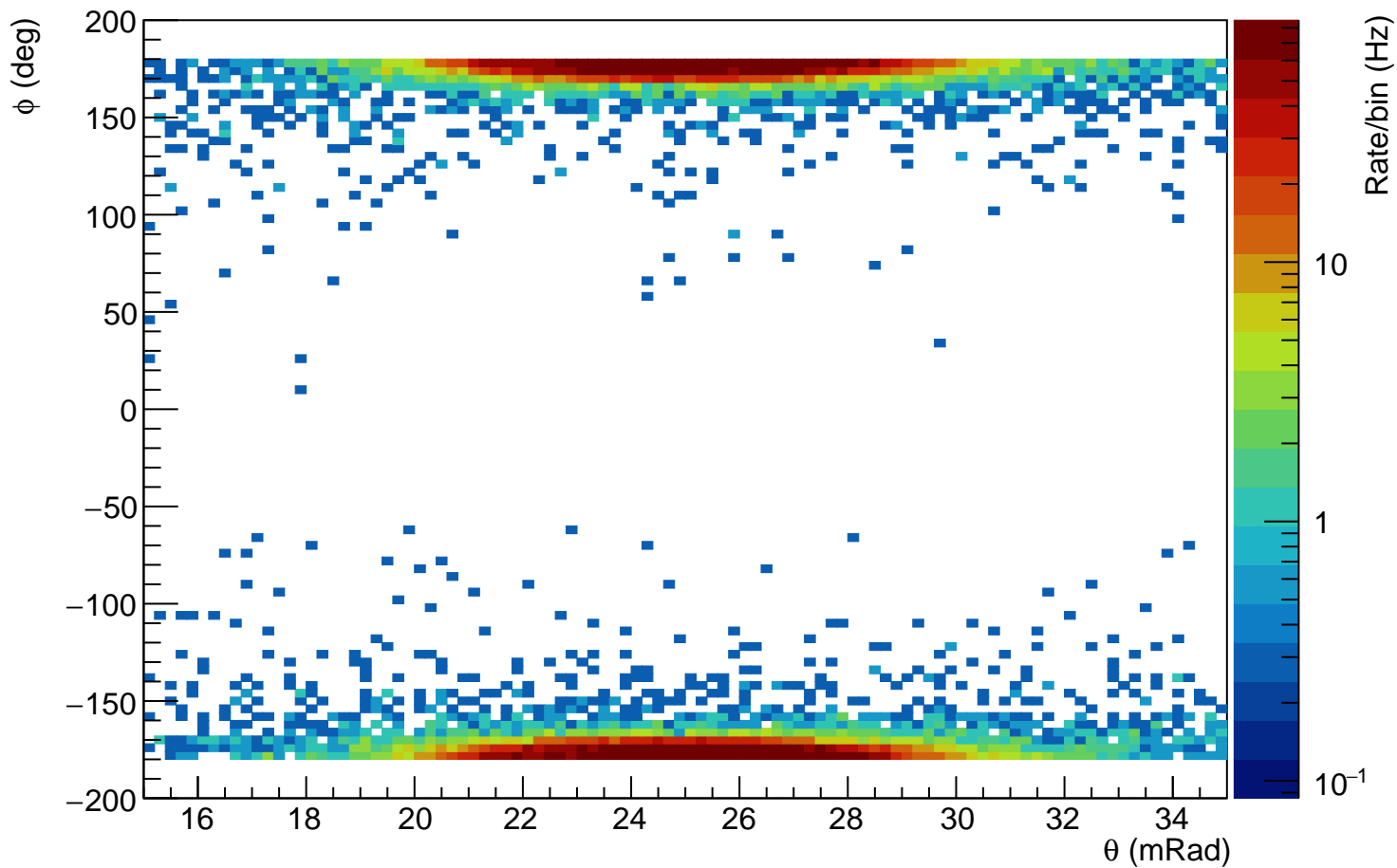


W Resolution Distribution (%)

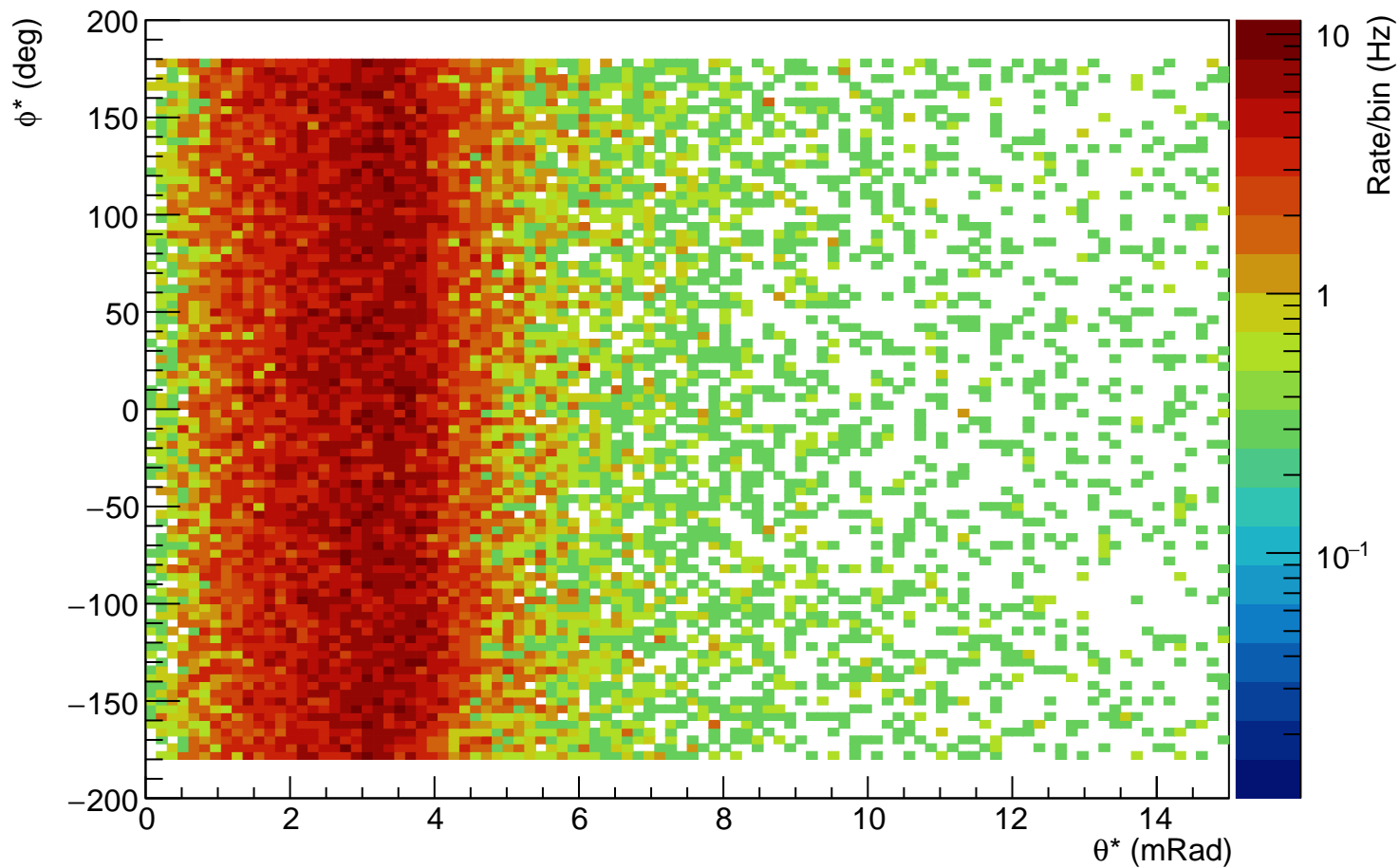


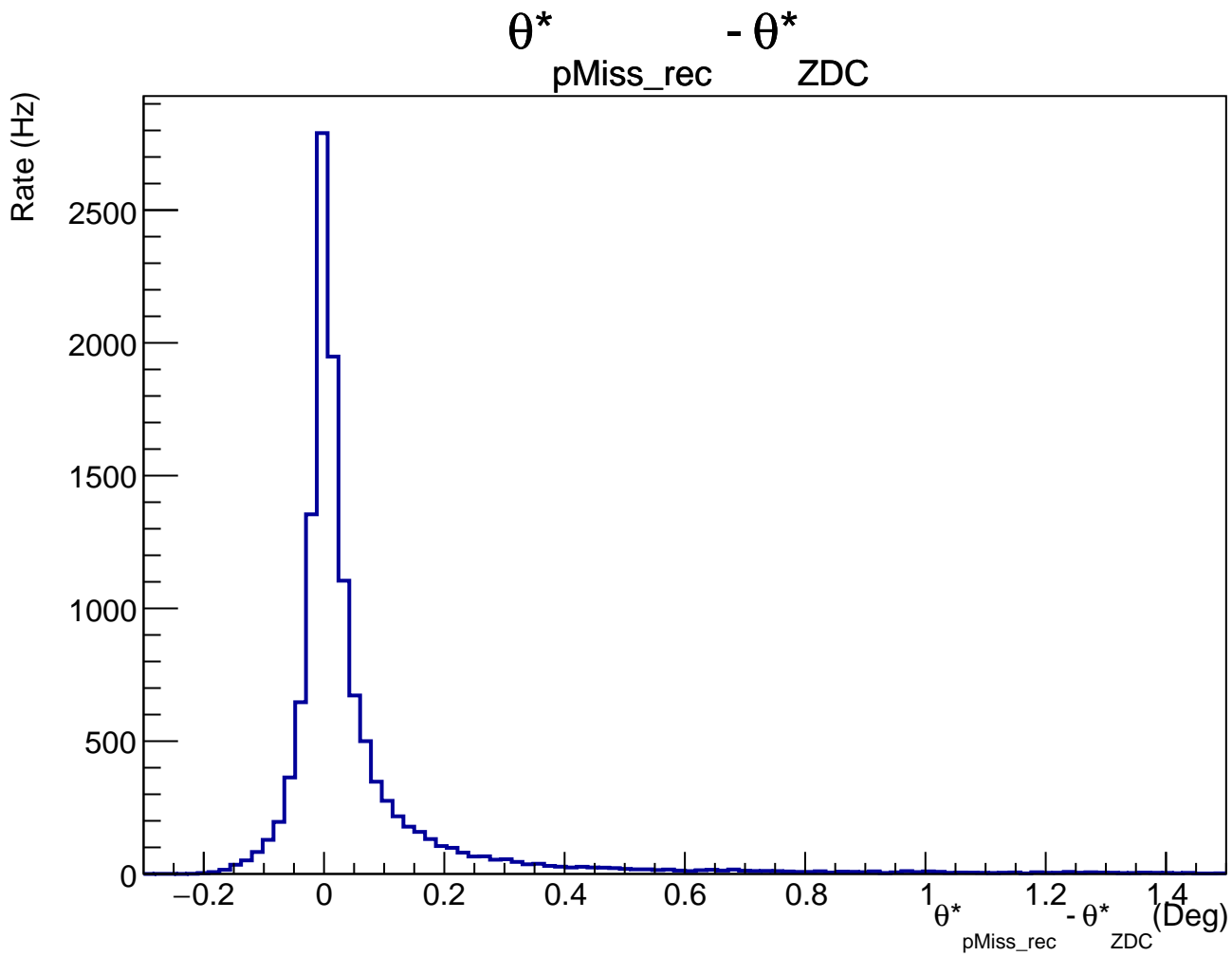


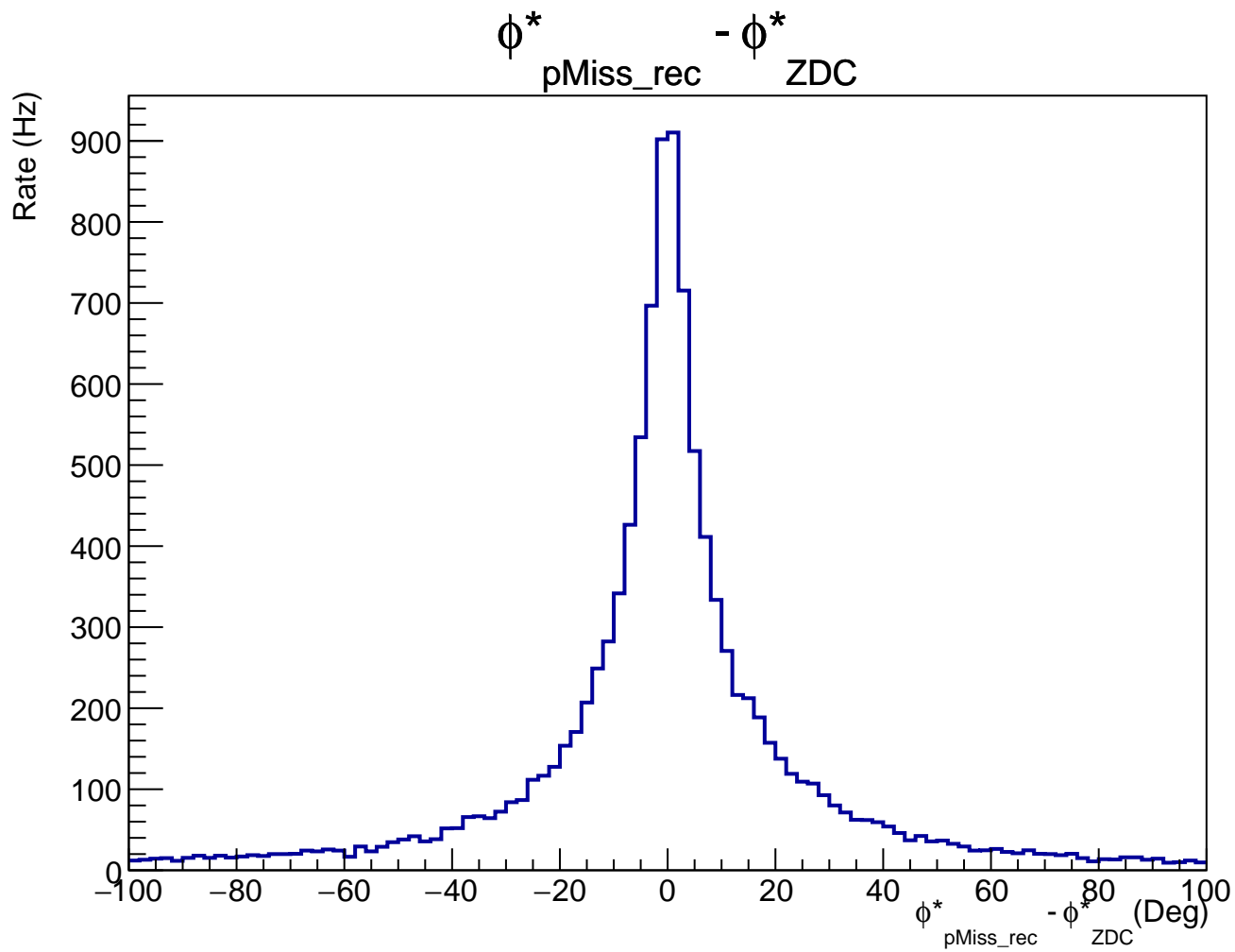
pMiss rec θ vs ϕ

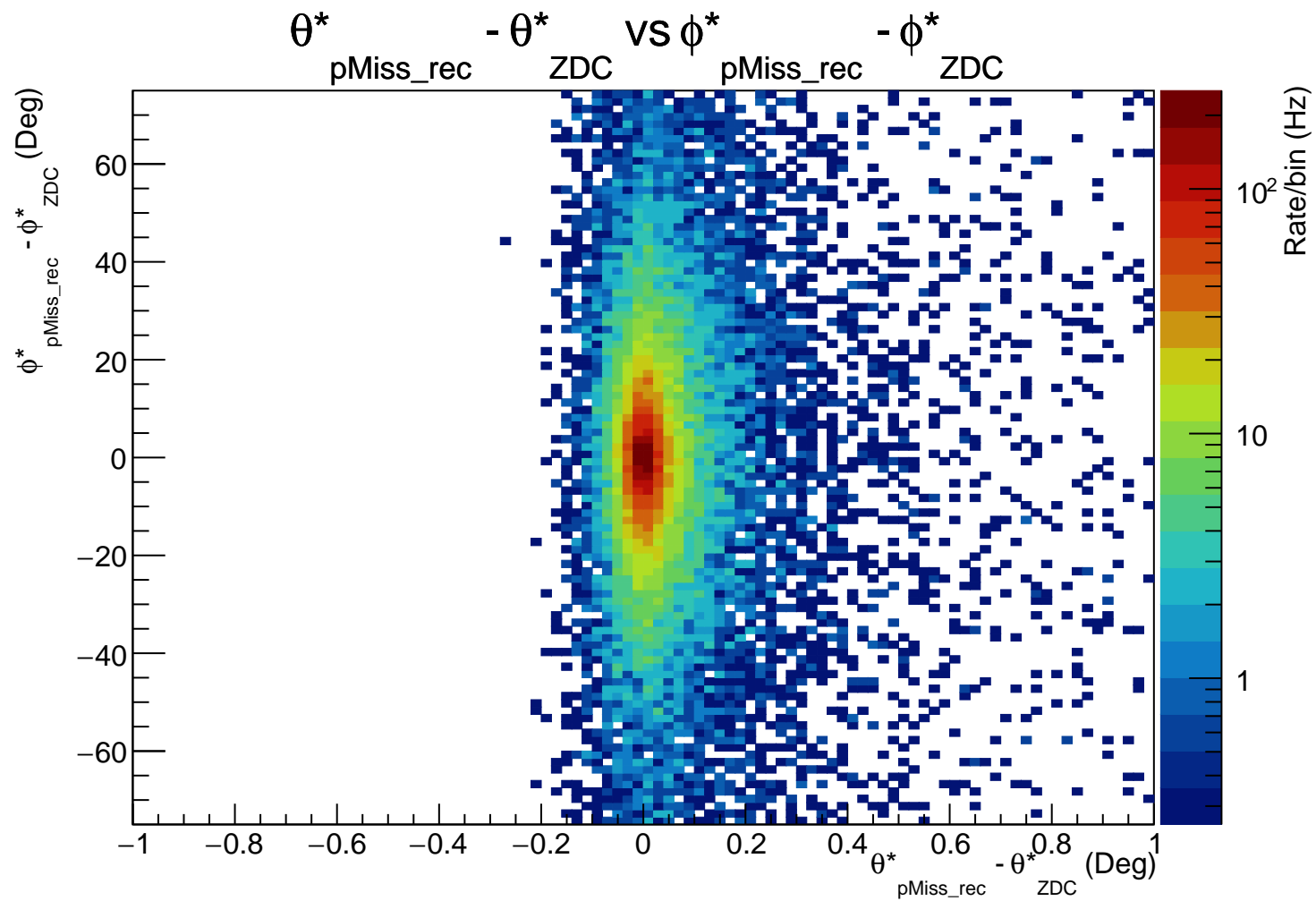


pMiss rec θ^* vs ϕ^* around p axis

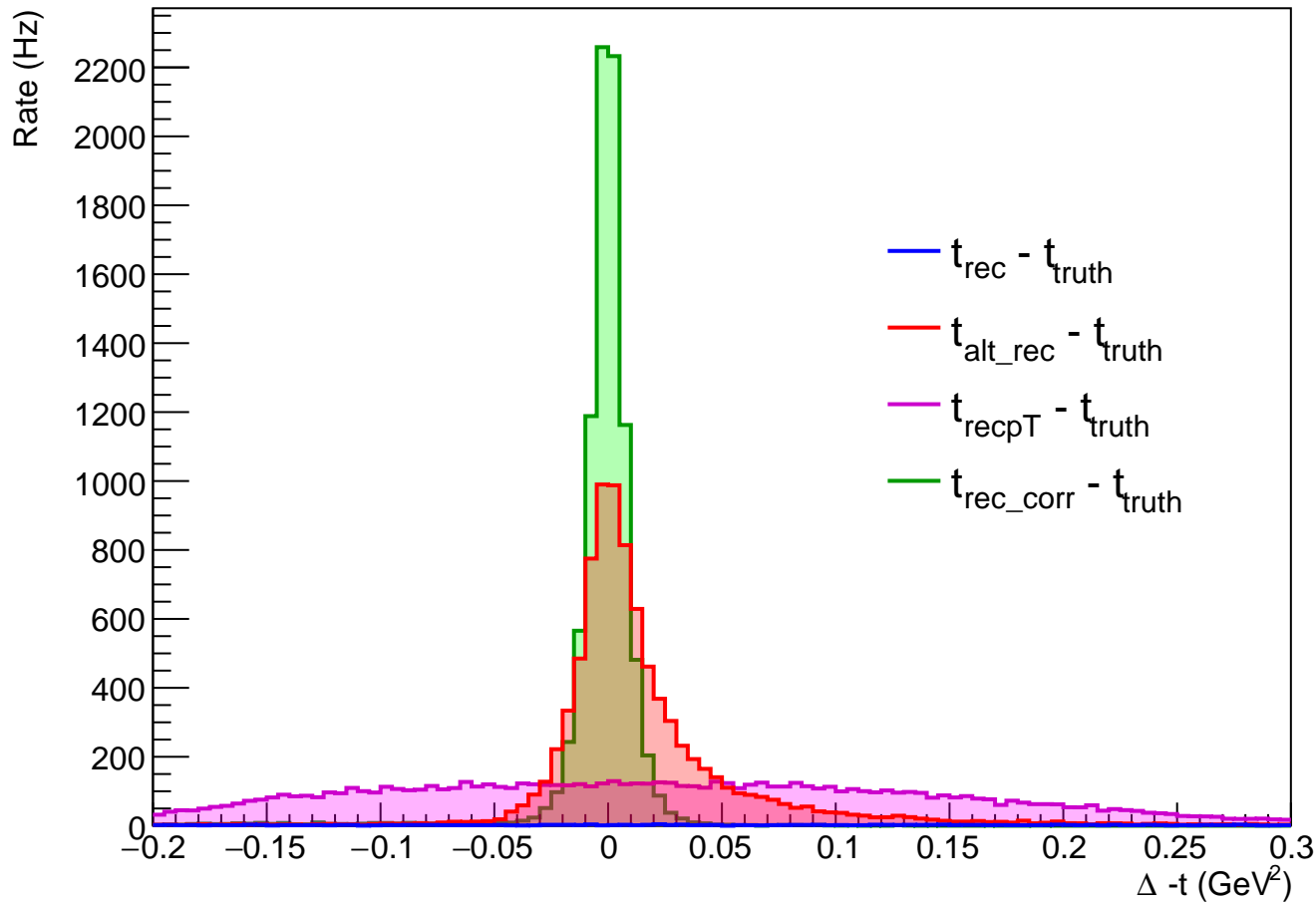




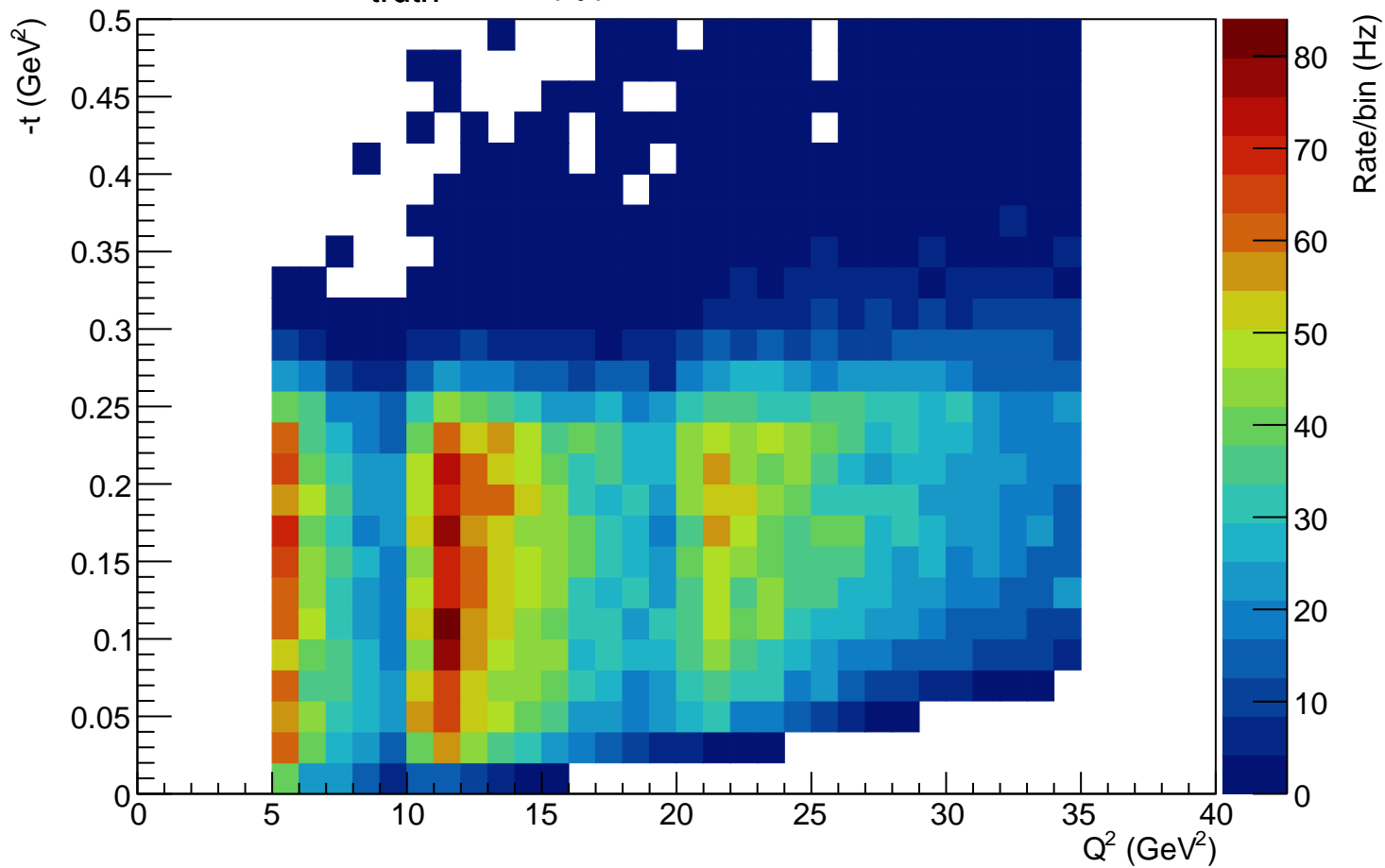




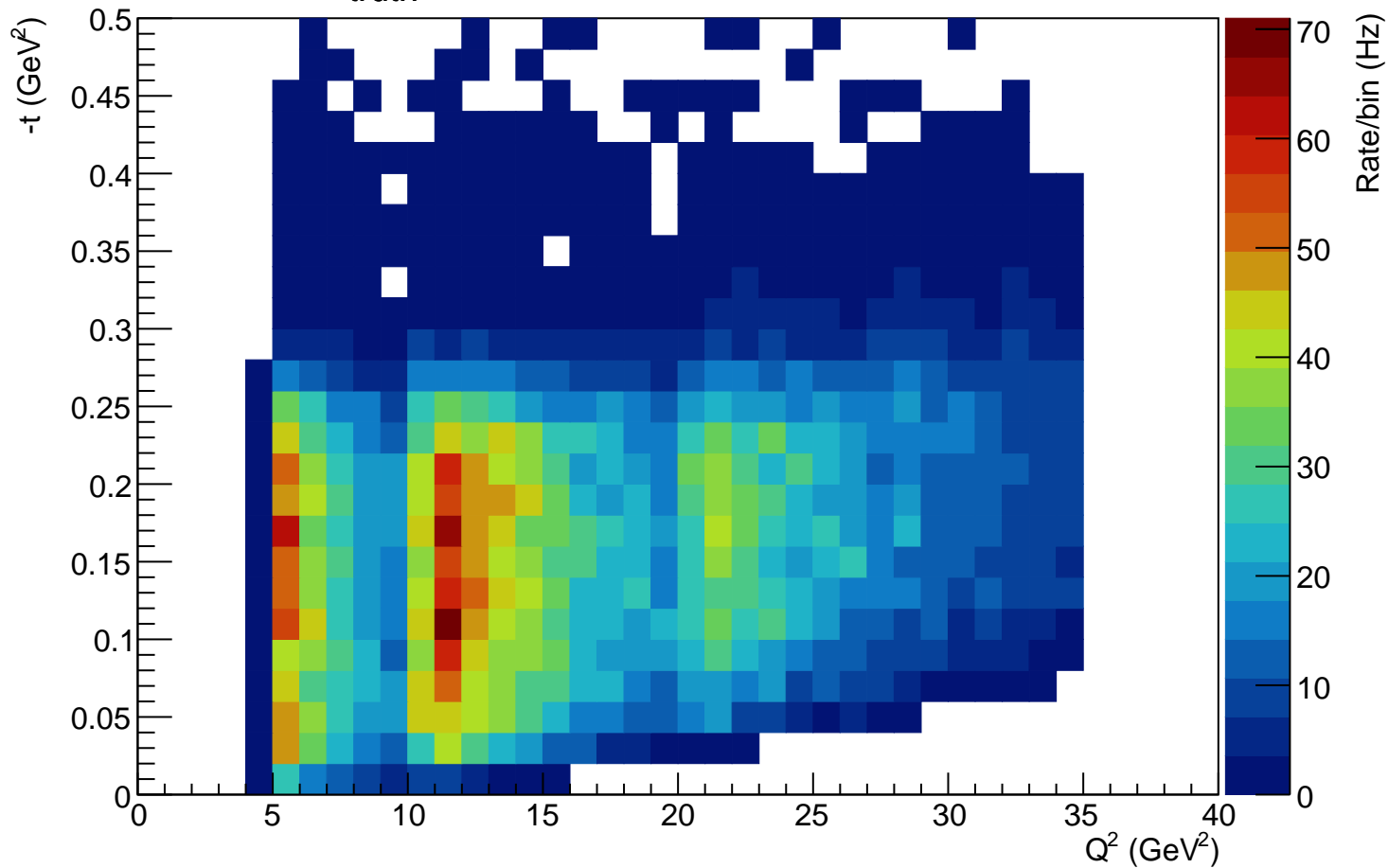
$-t_{\text{rec}}, \text{alt_rec}, \text{rec_pT}, \text{rec_corr} - -t_{\text{truth}}$ Distribution



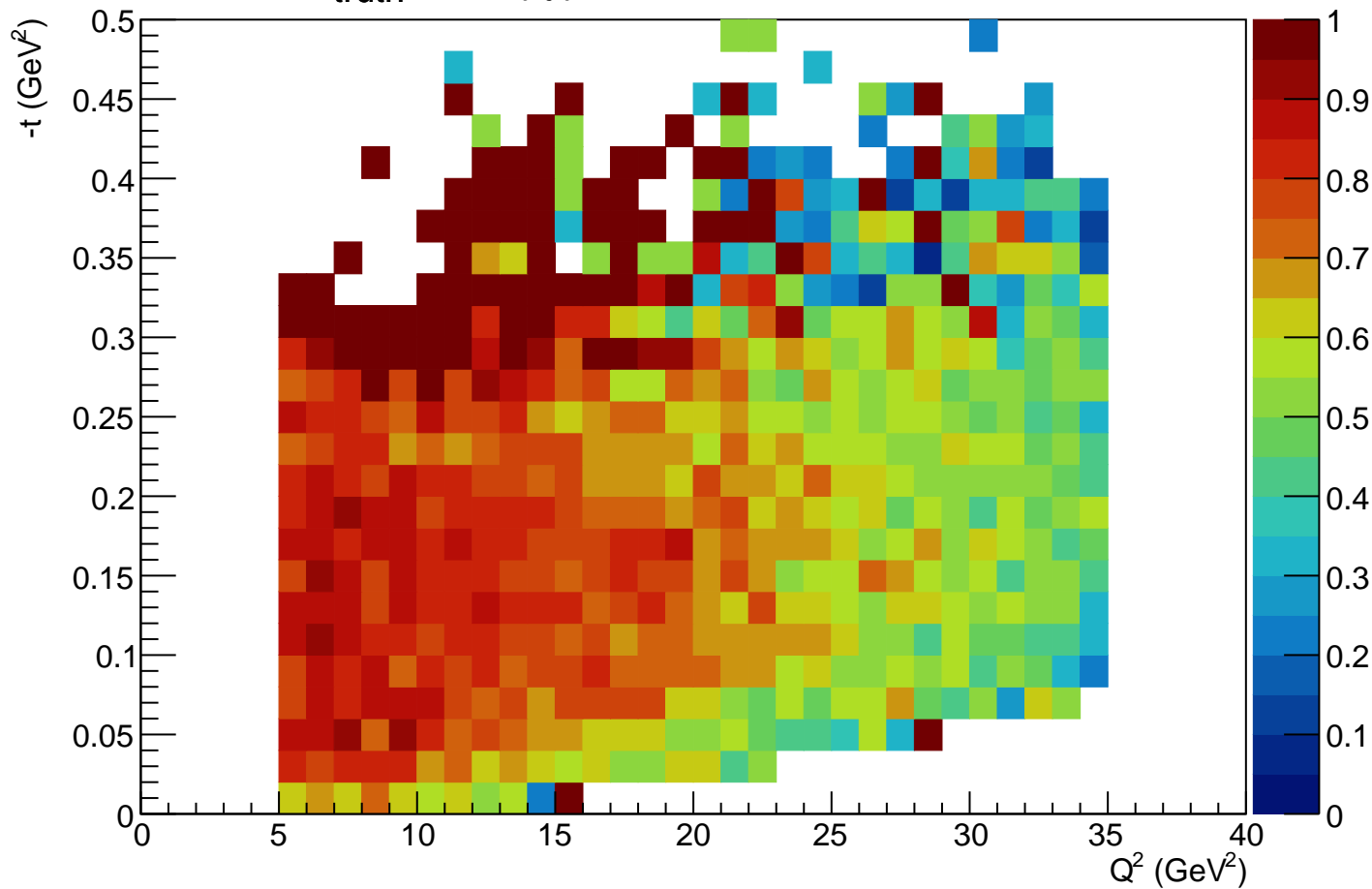
Q^2_{truth} vs $-t_{\text{truth}}$ for thrown events



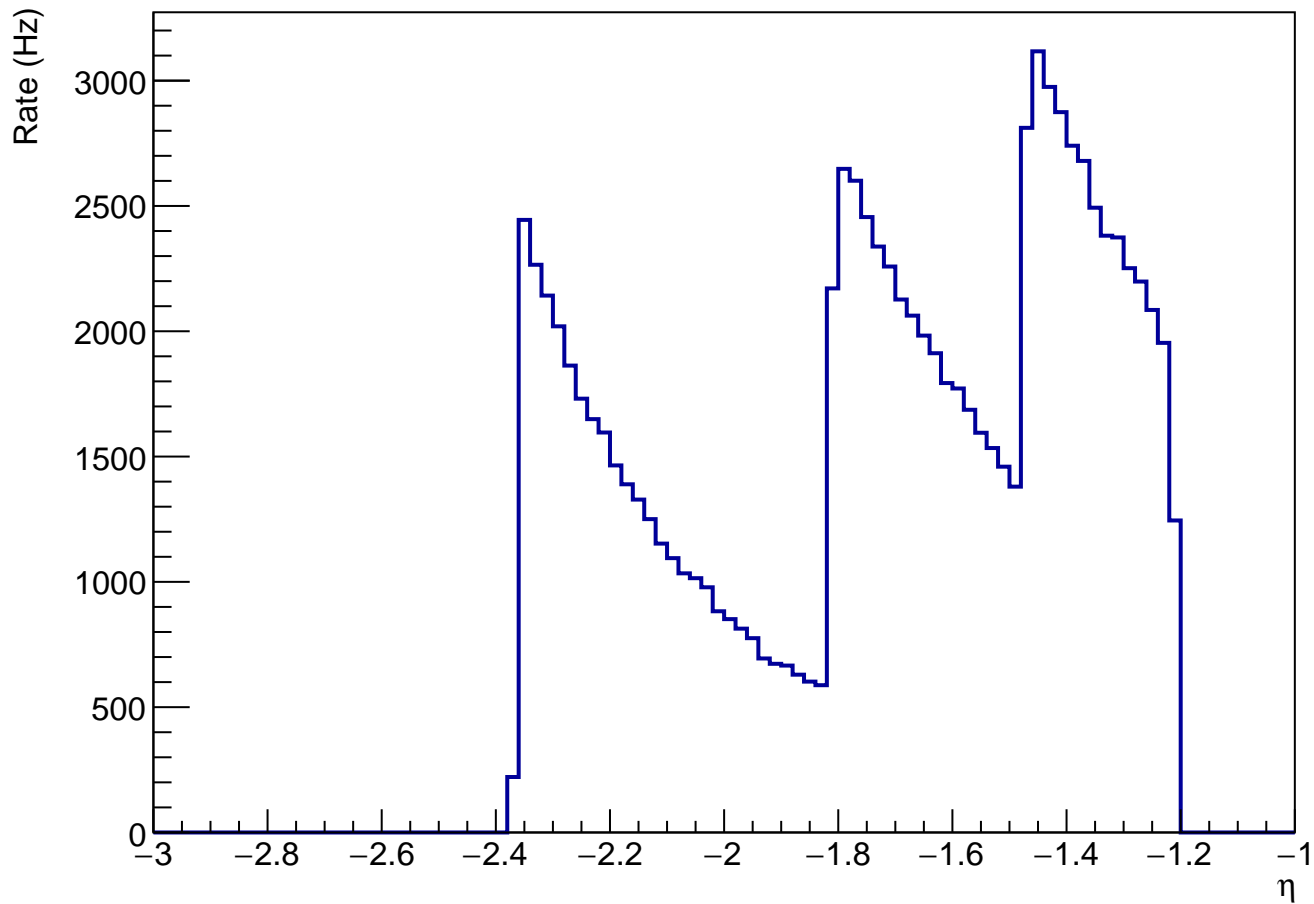
Q^2_{truth} vs $-t_{\text{truth}}$ for detected events



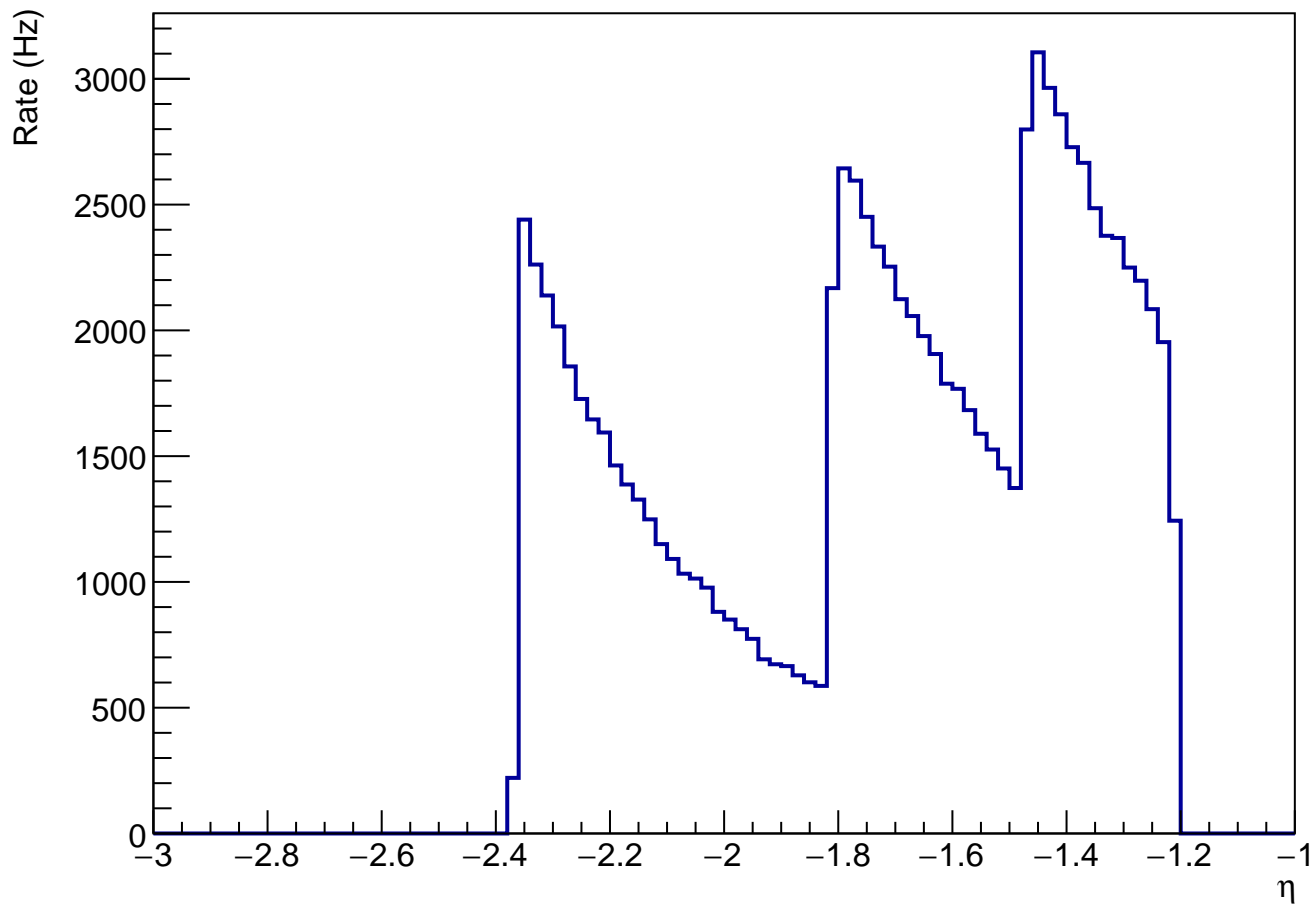
Q^2_{truth} vs $-t_{\text{truth}}$ detected/thrown ratio



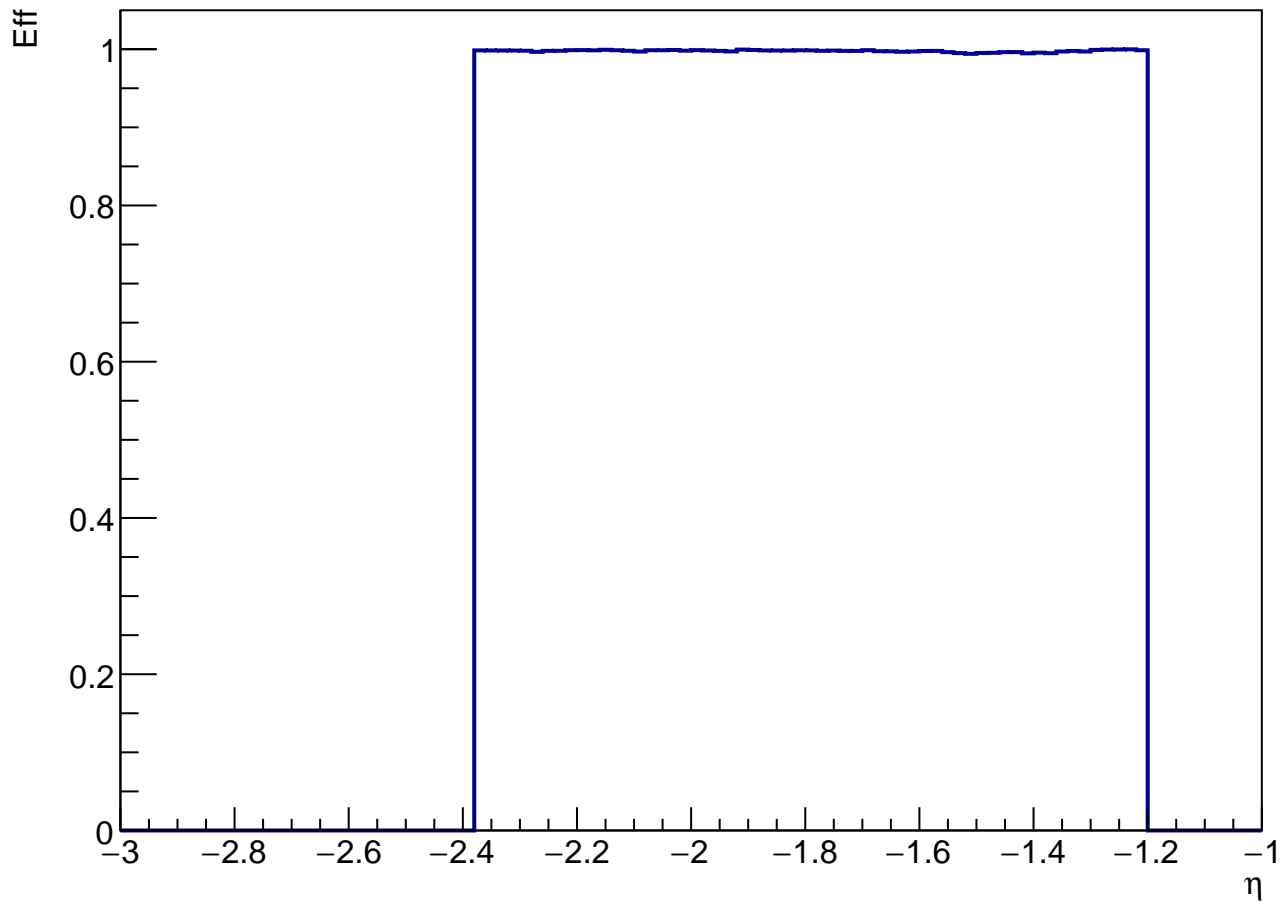
$e' \eta$ for thrown events



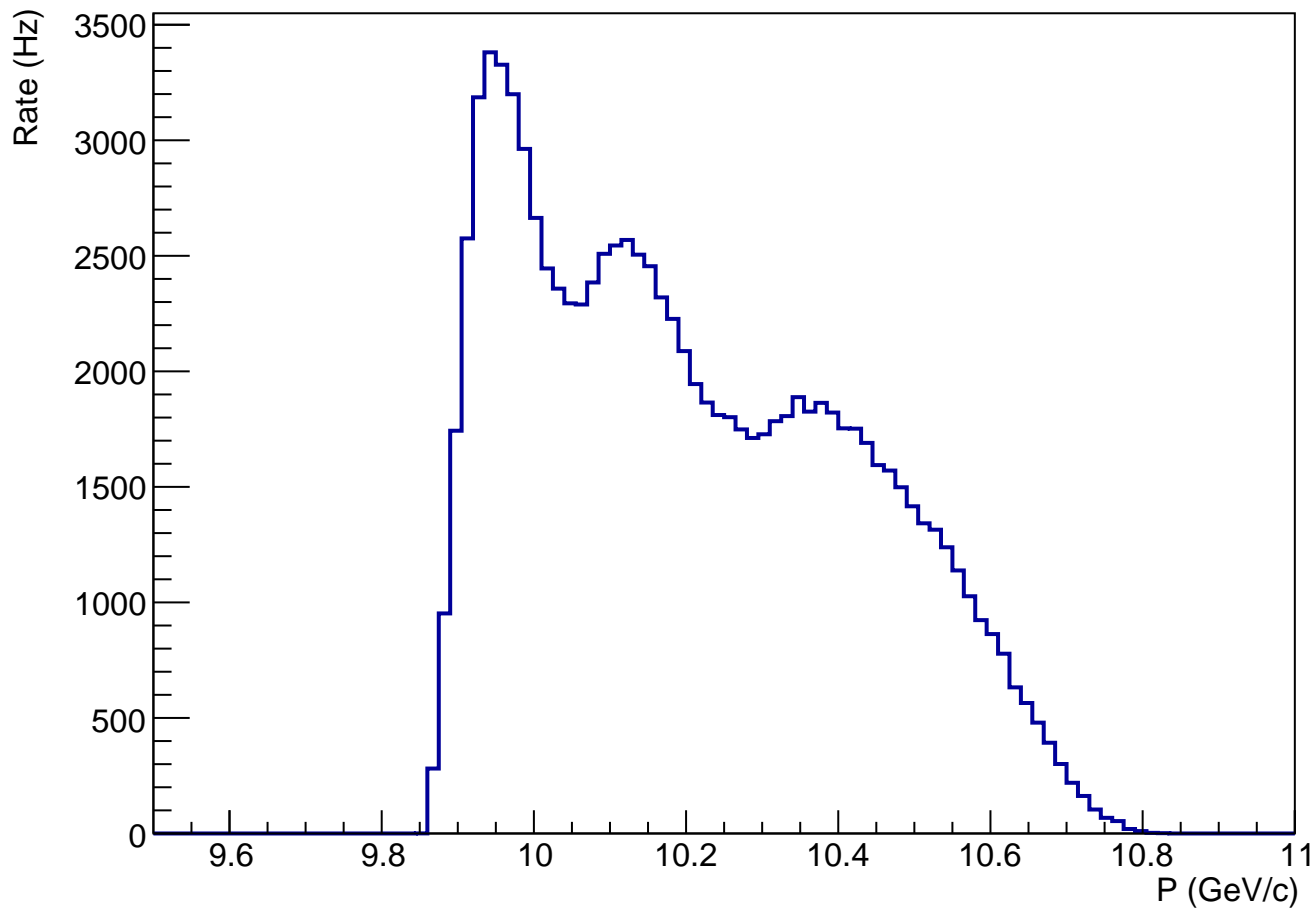
$e' \eta$ for detected events



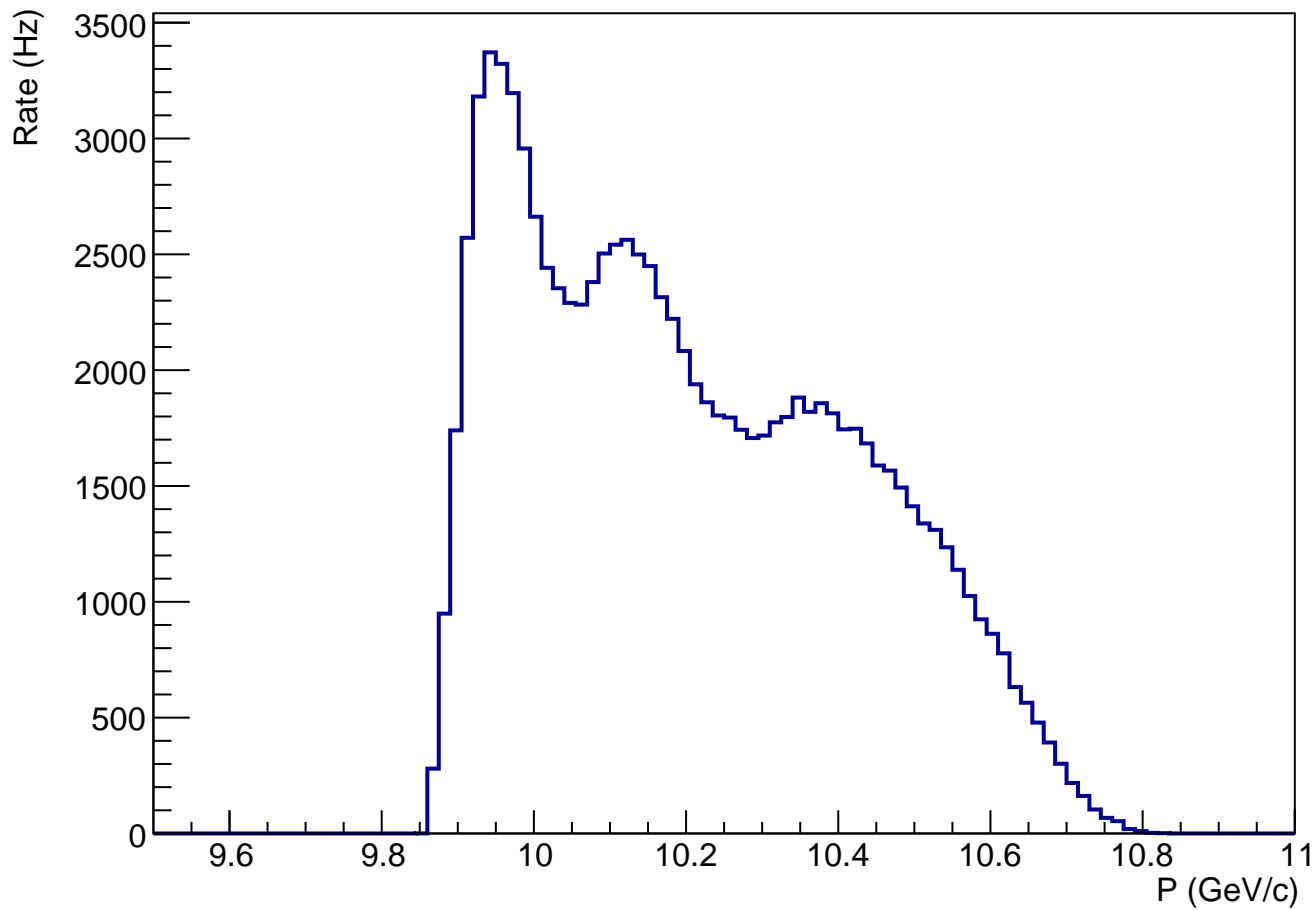
e' Tracking efficiency as fn of η



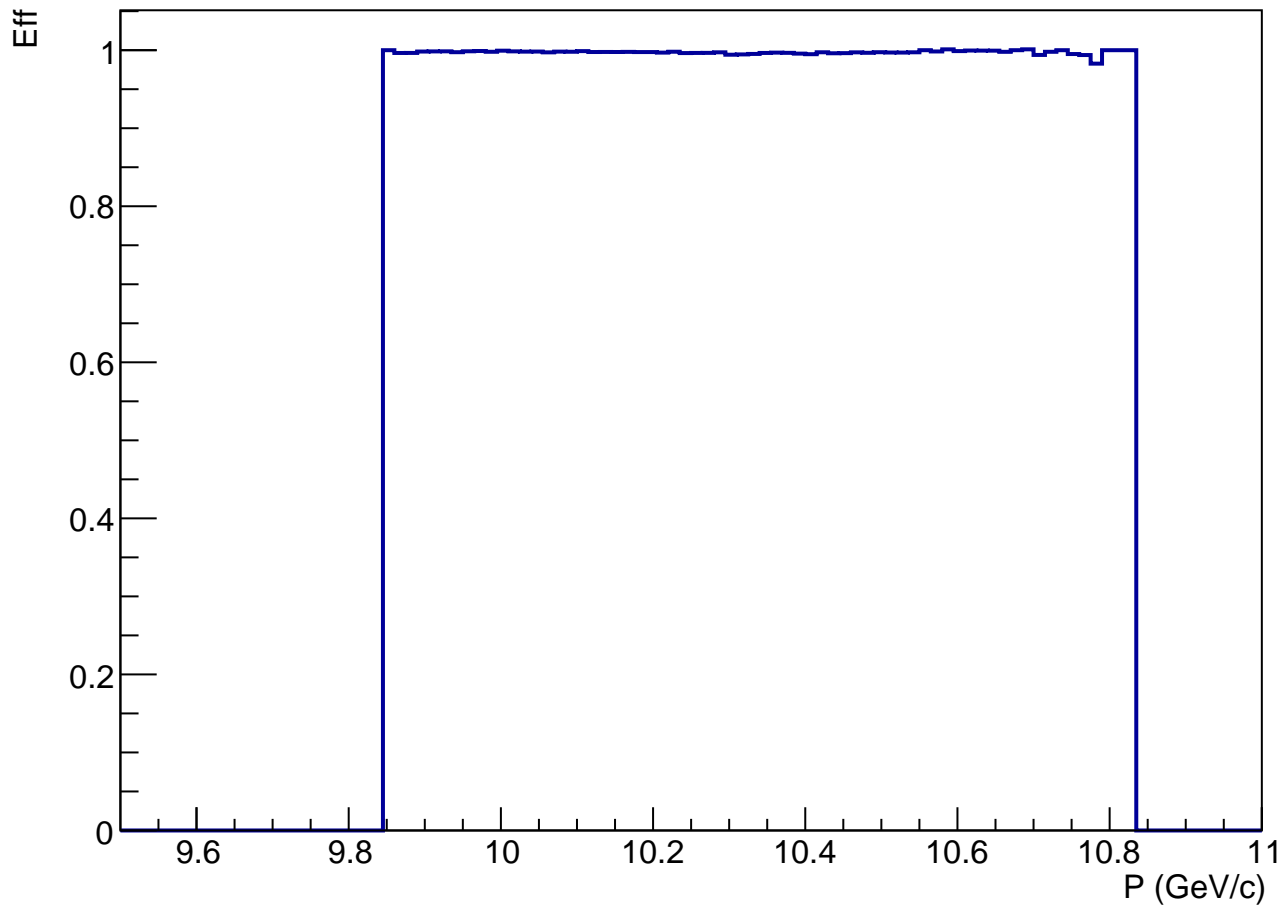
e' P for thrown events



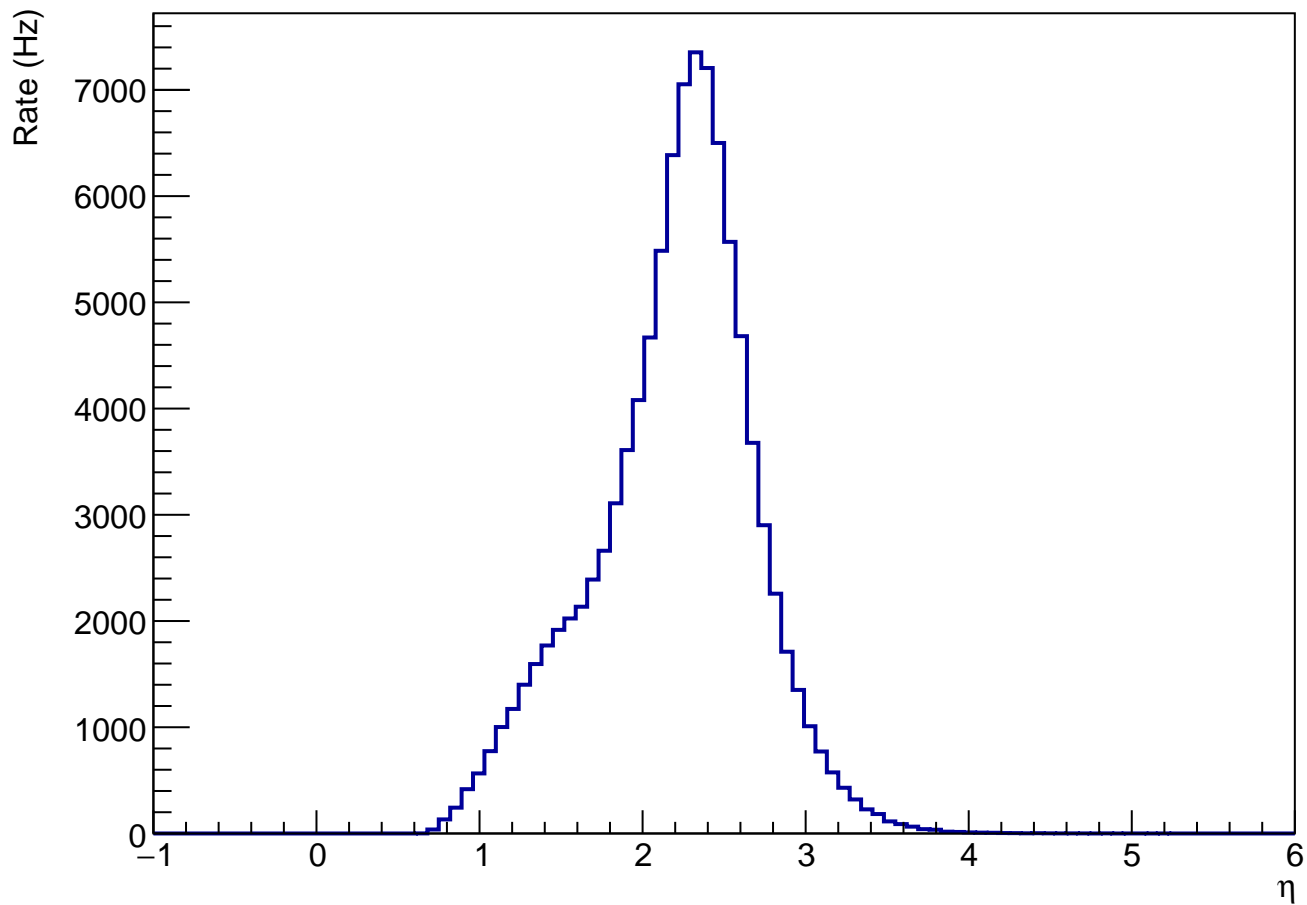
e' P for detected events



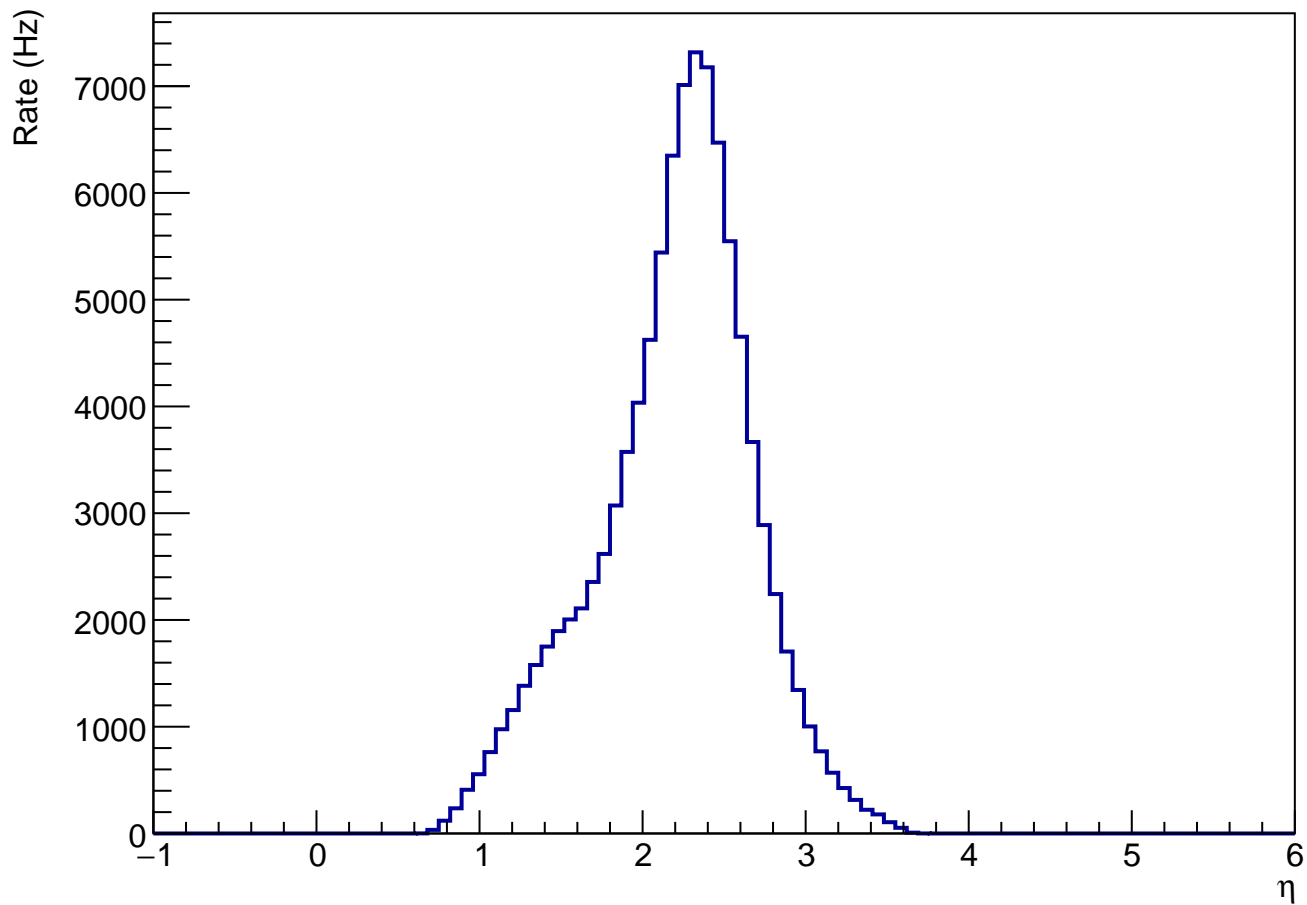
e' Tracking efficiency as fn of P



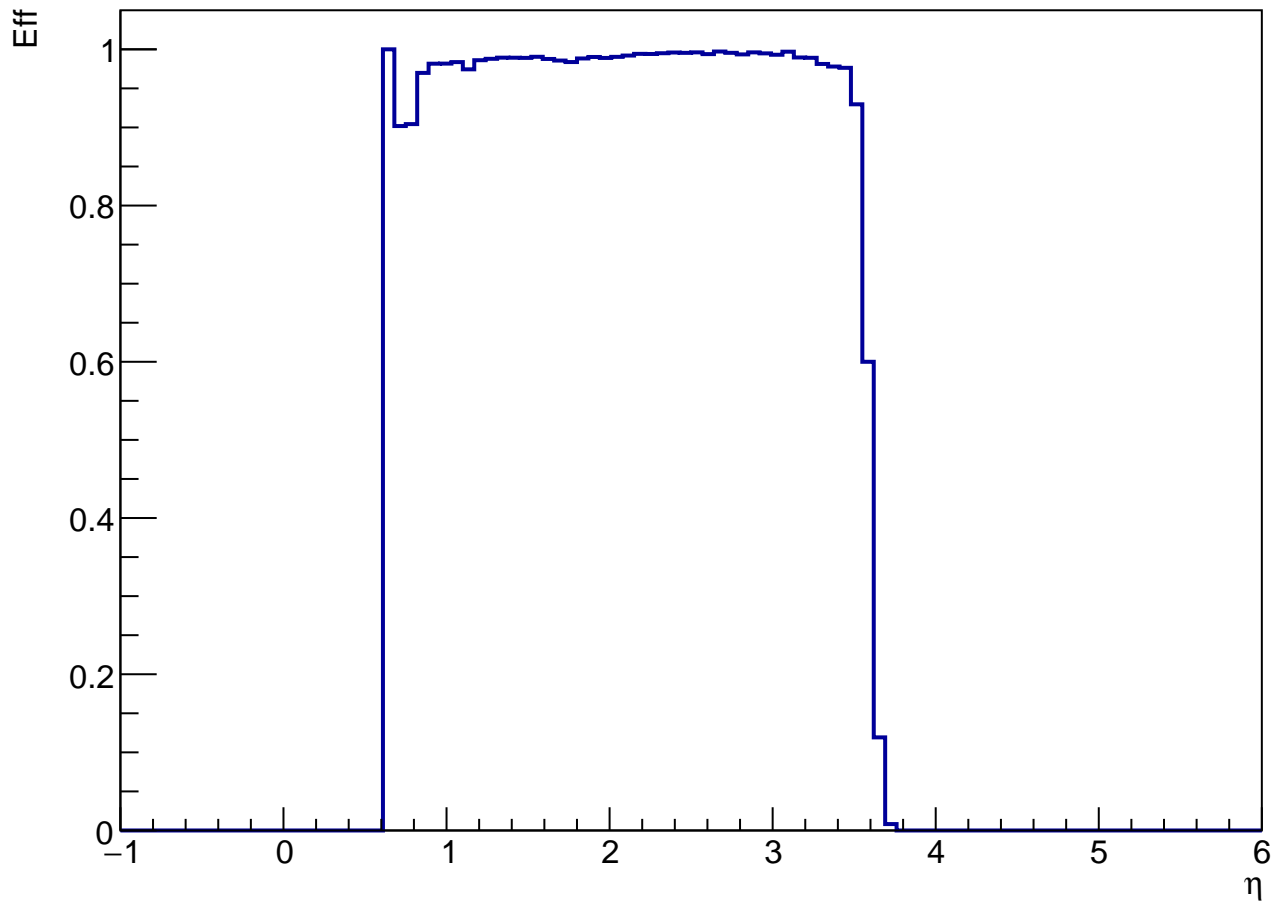
$\pi^+ \eta$ for thrown events



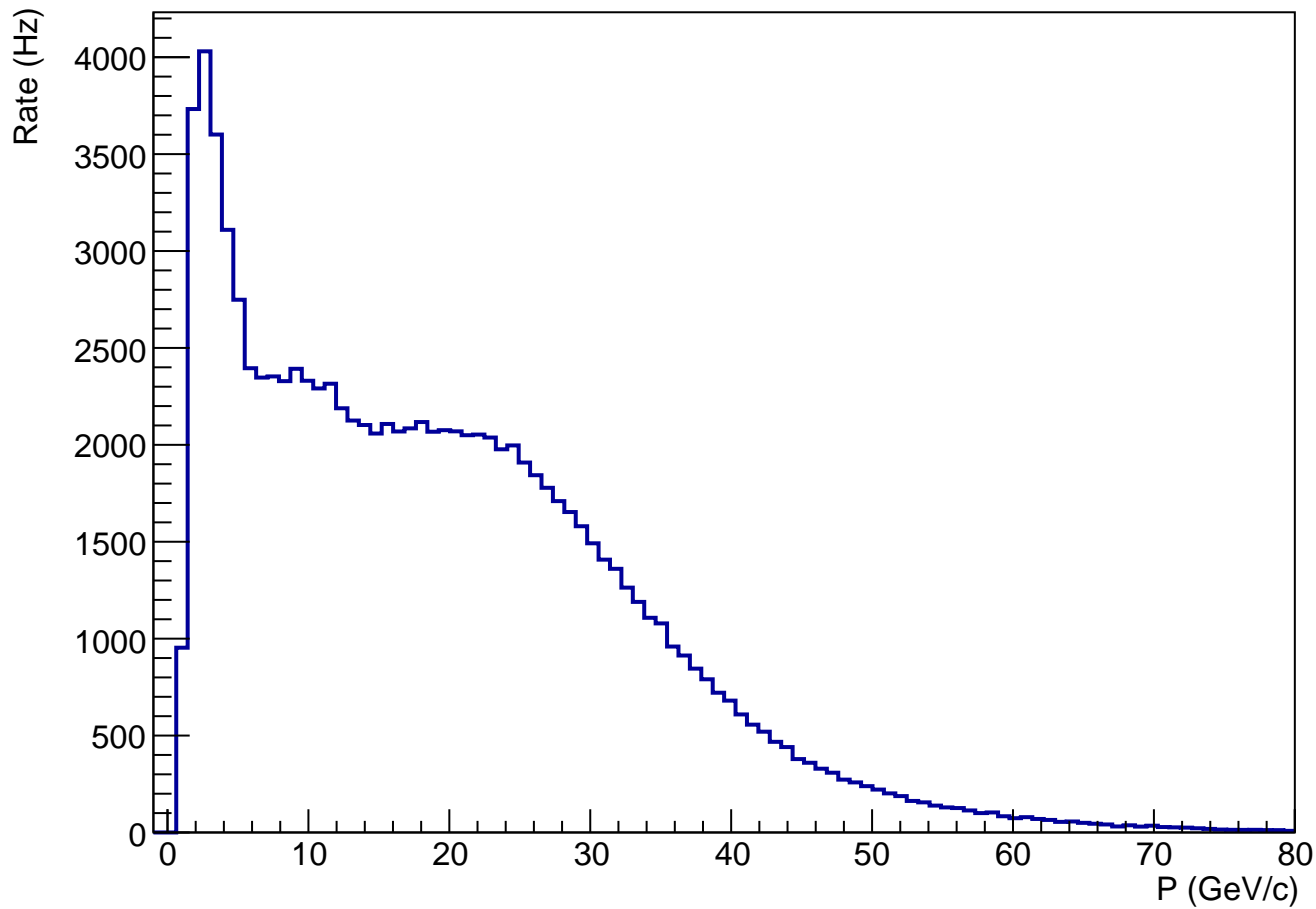
$\pi^+ \eta$ for detected events



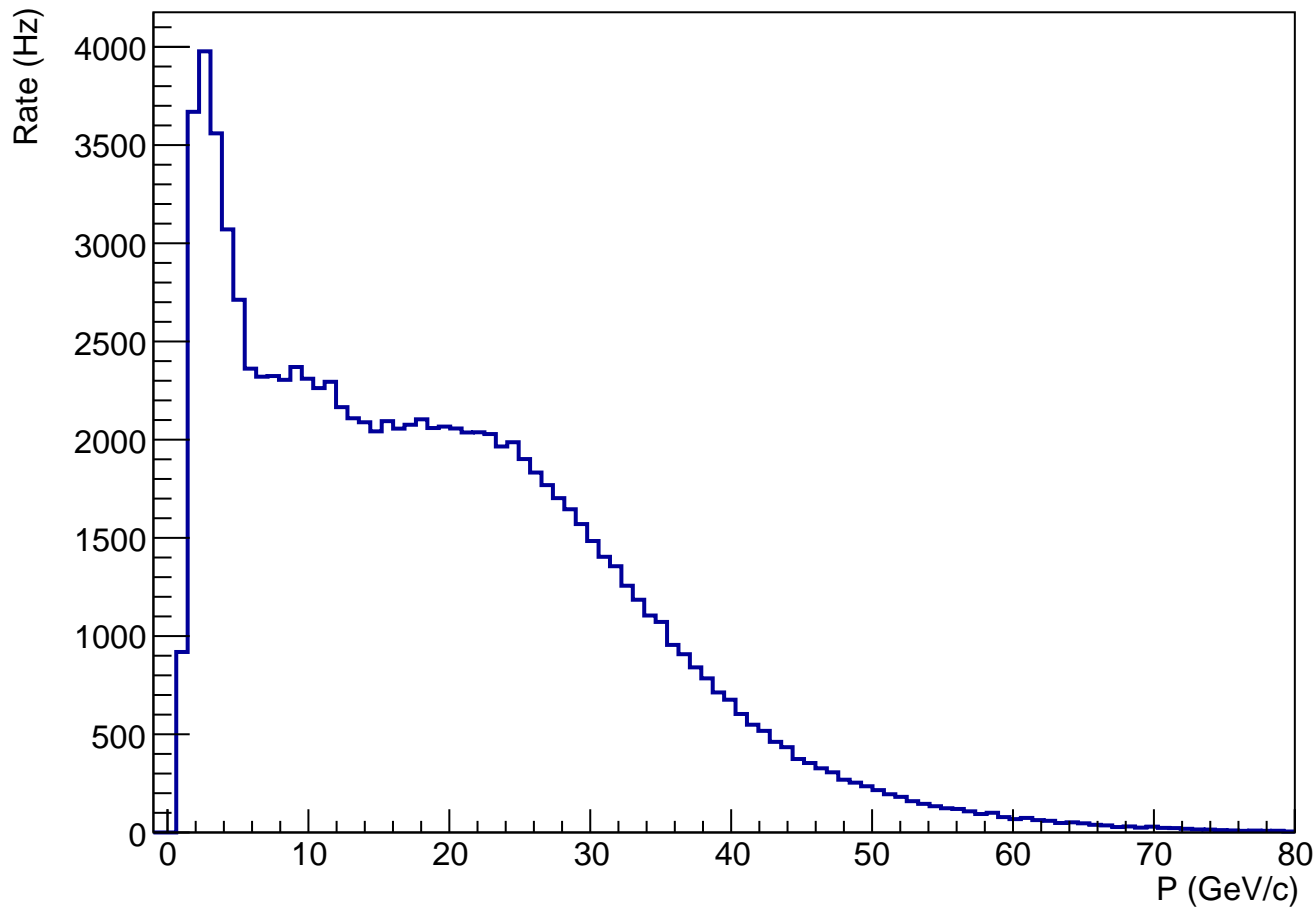
π^+ Tracking efficiency as fn of η



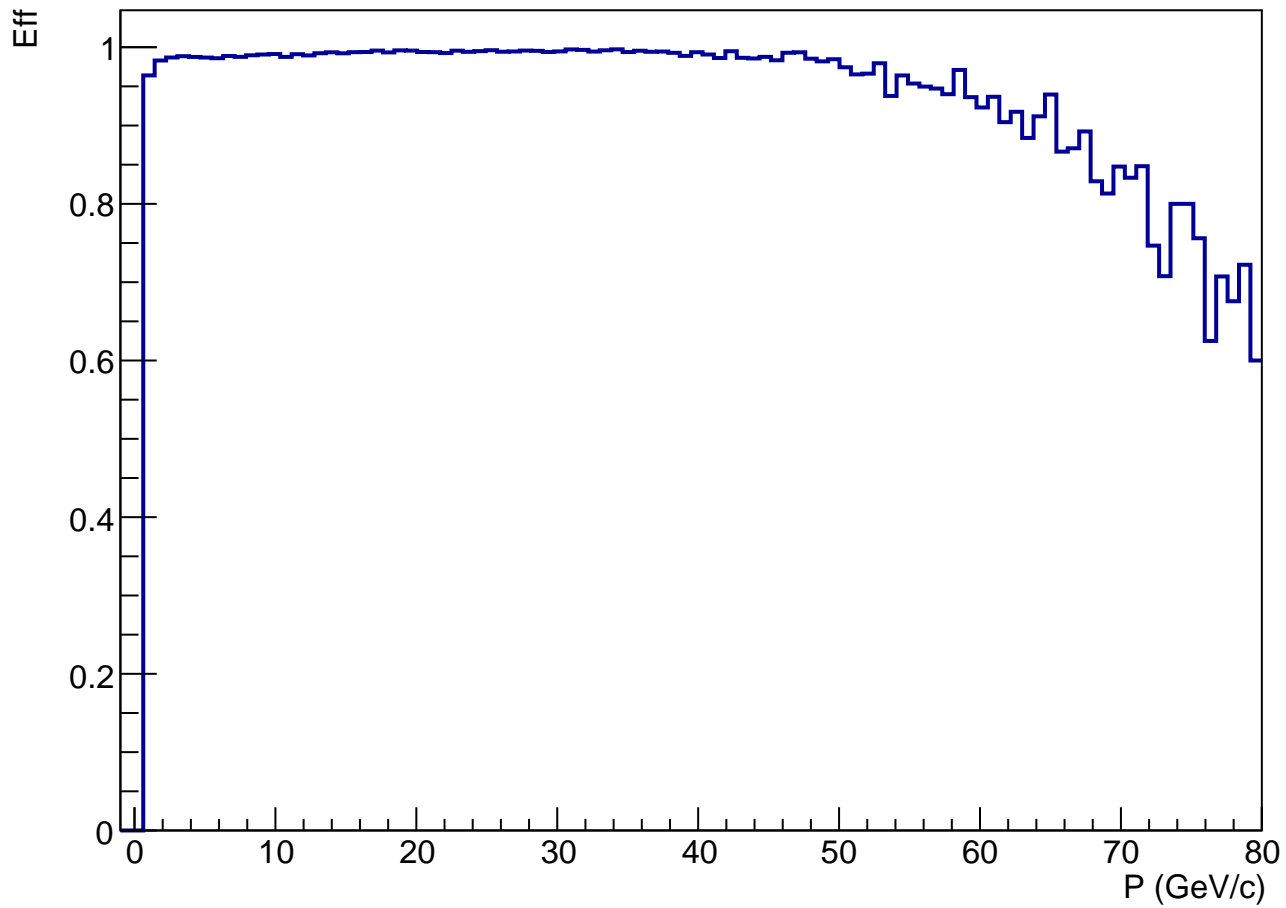
π^+ P for thrown events



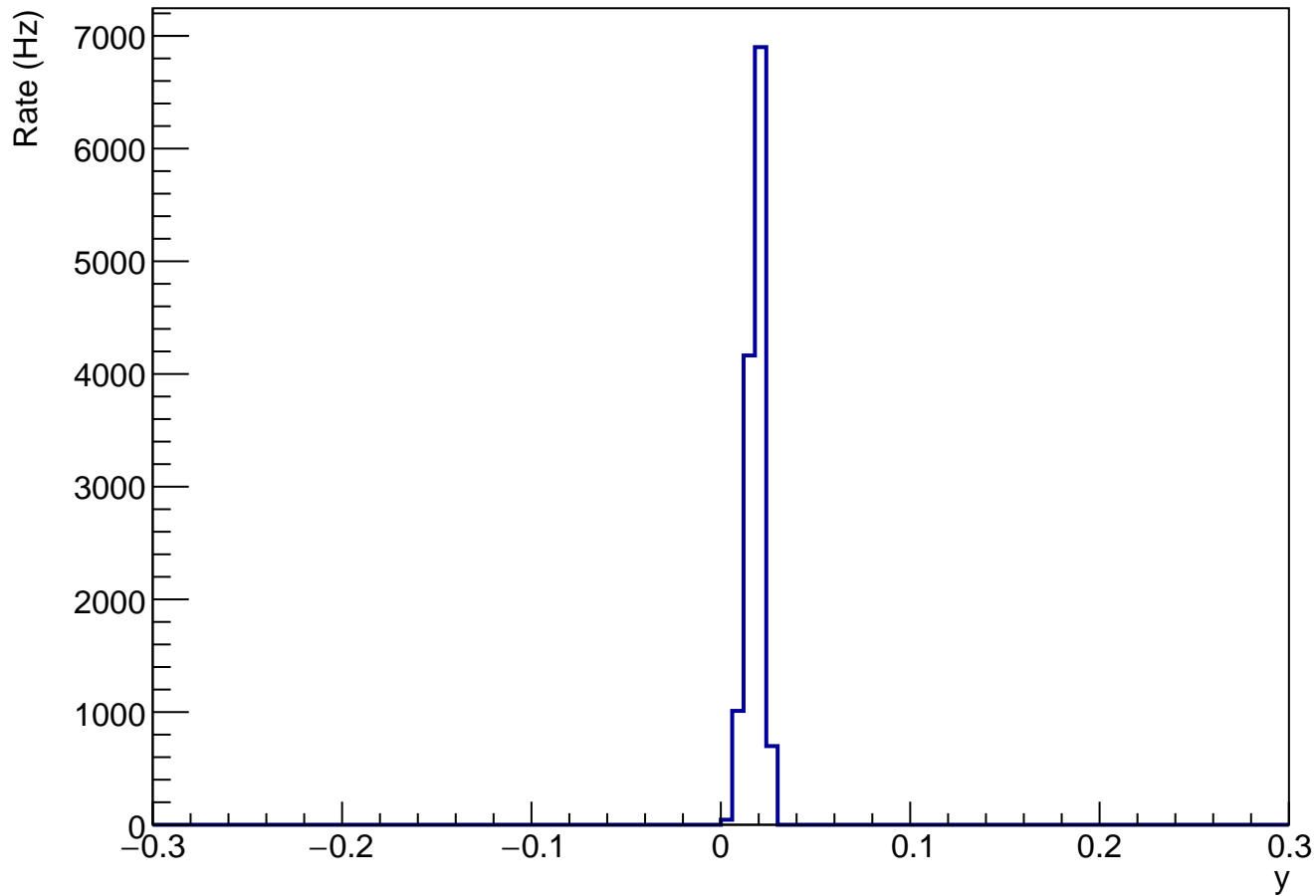
π^+ P for detected events



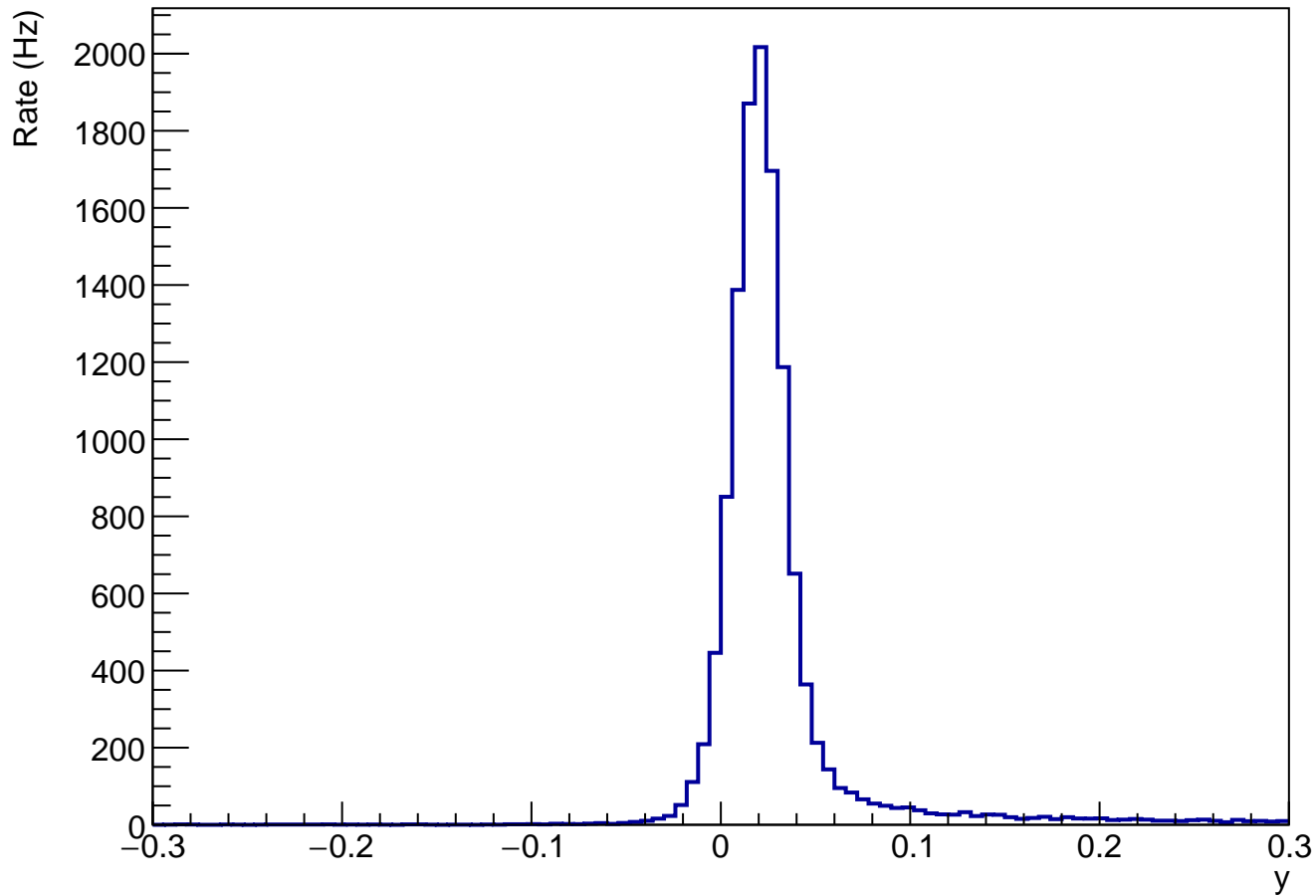
π^+ Tracking efficiency as fn of P



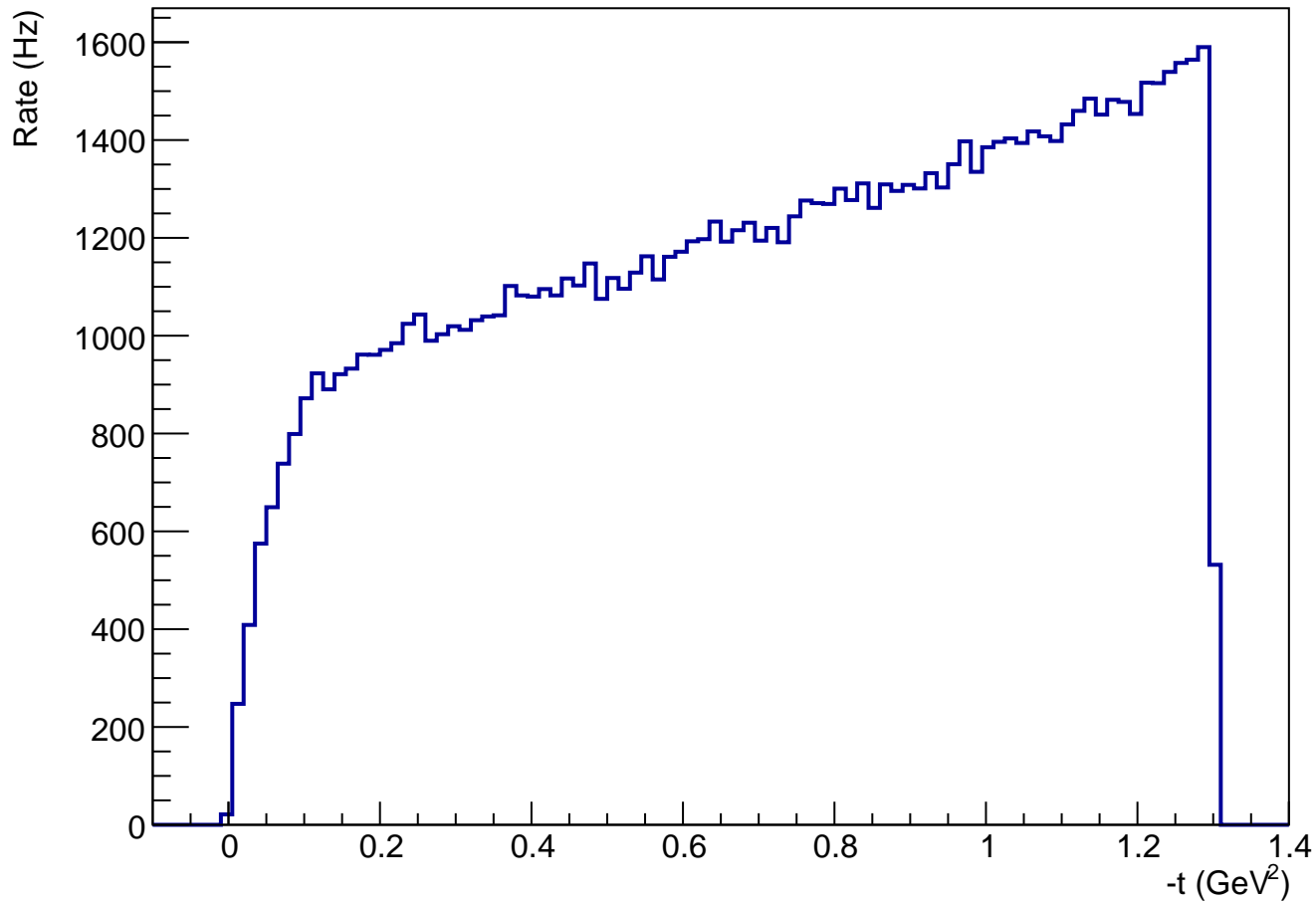
y truth Distribution



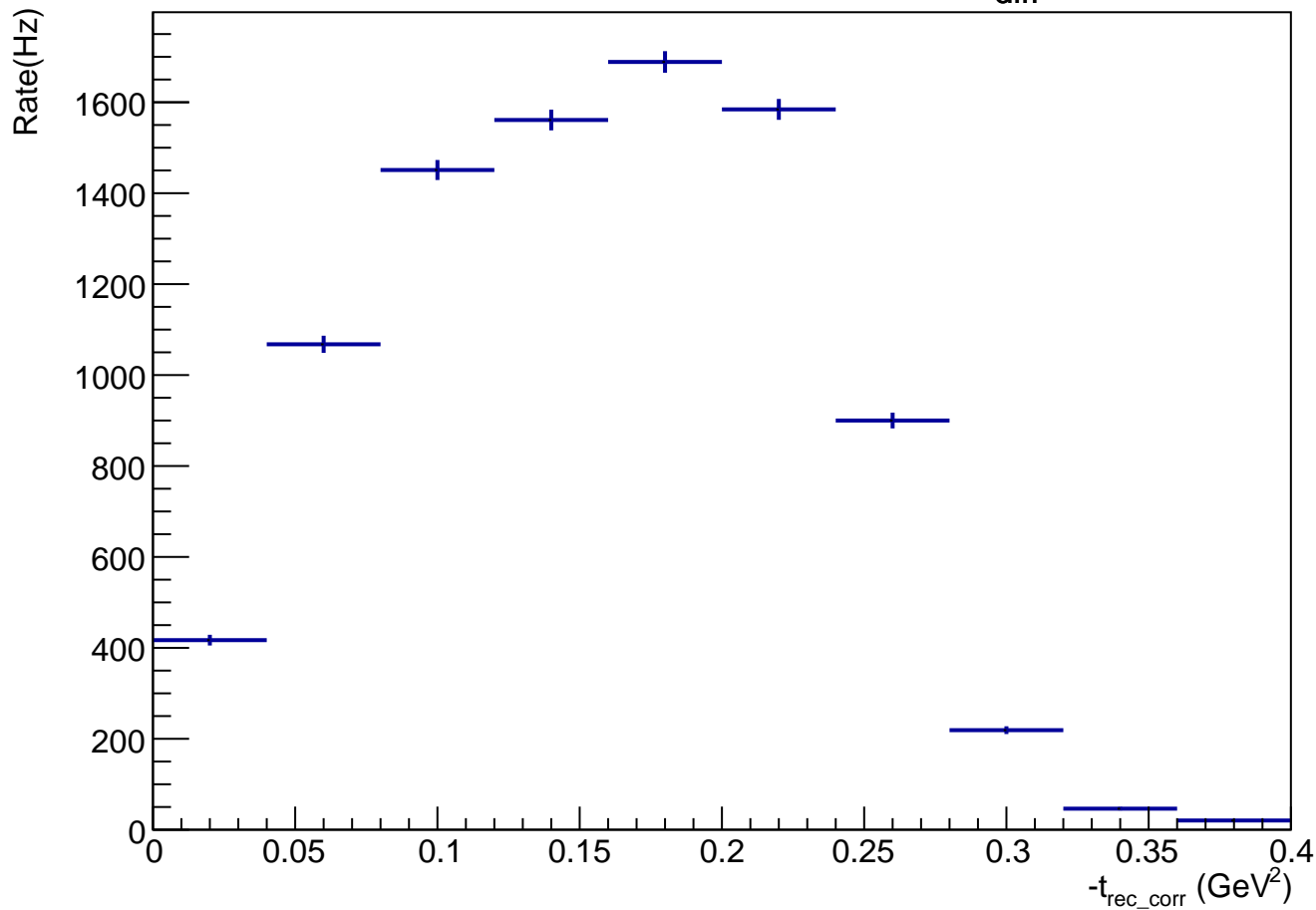
y rec Distribution



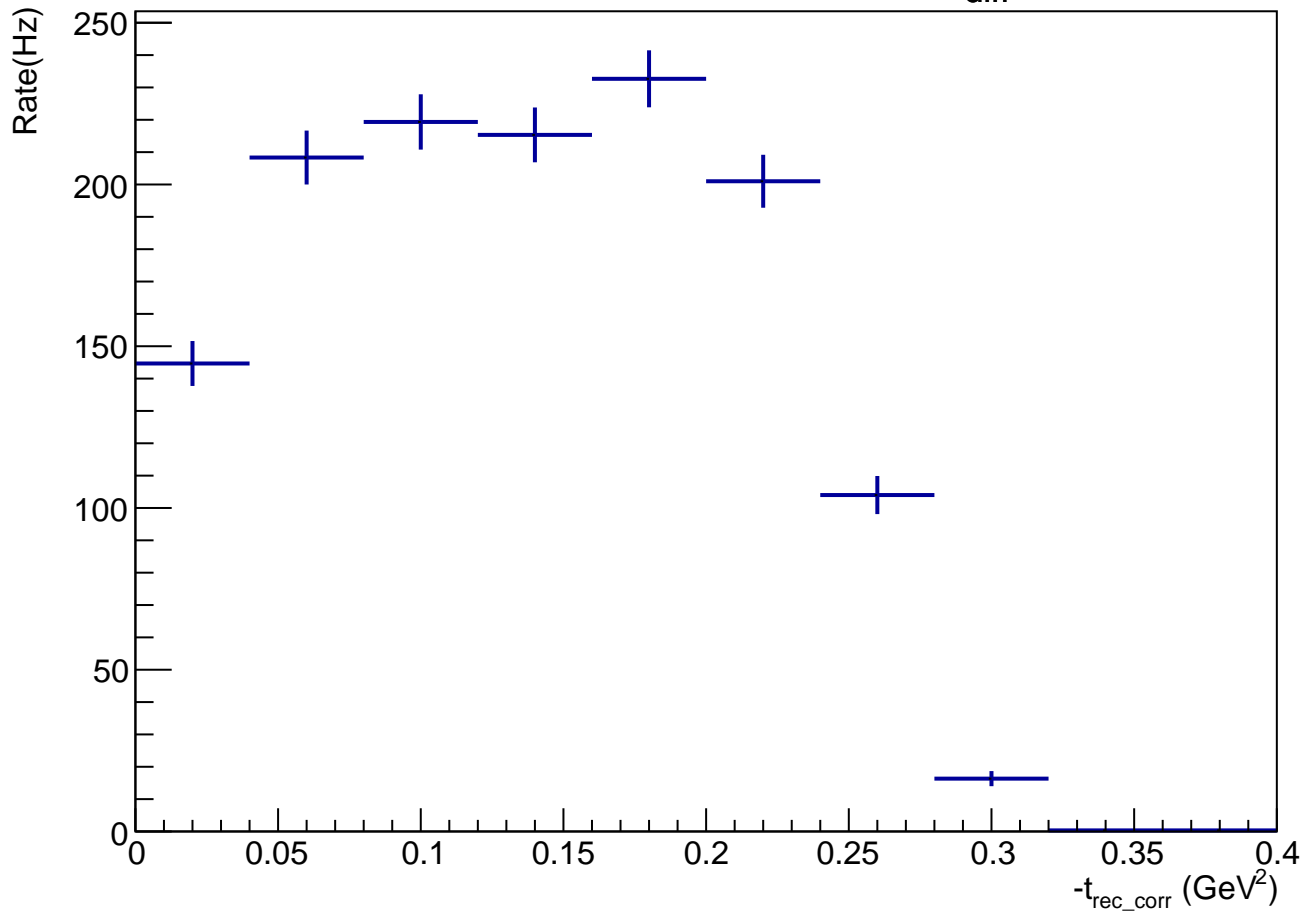
-t truth Distribution



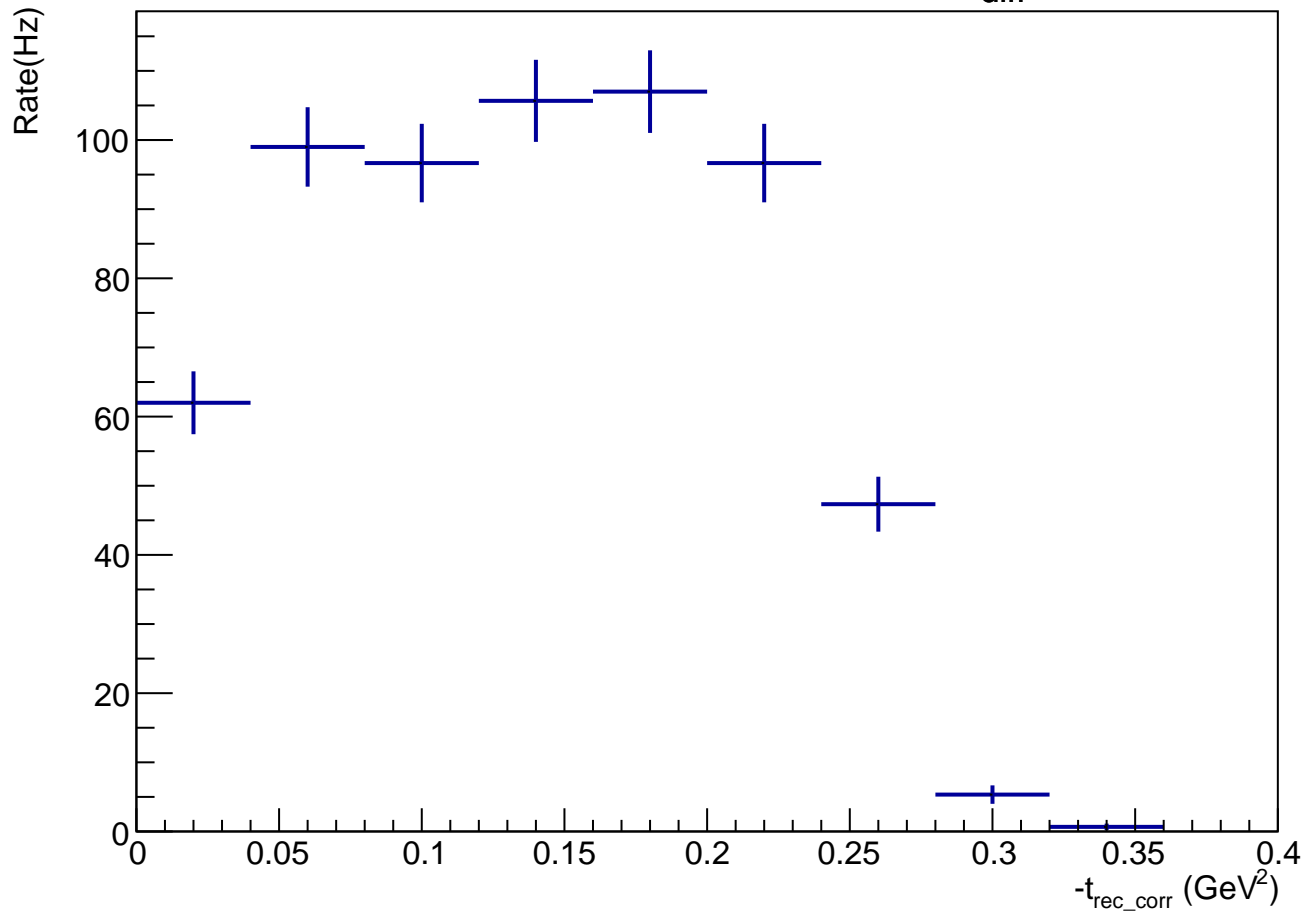
-t dist w/ $5.0 < Q^2 < 35.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



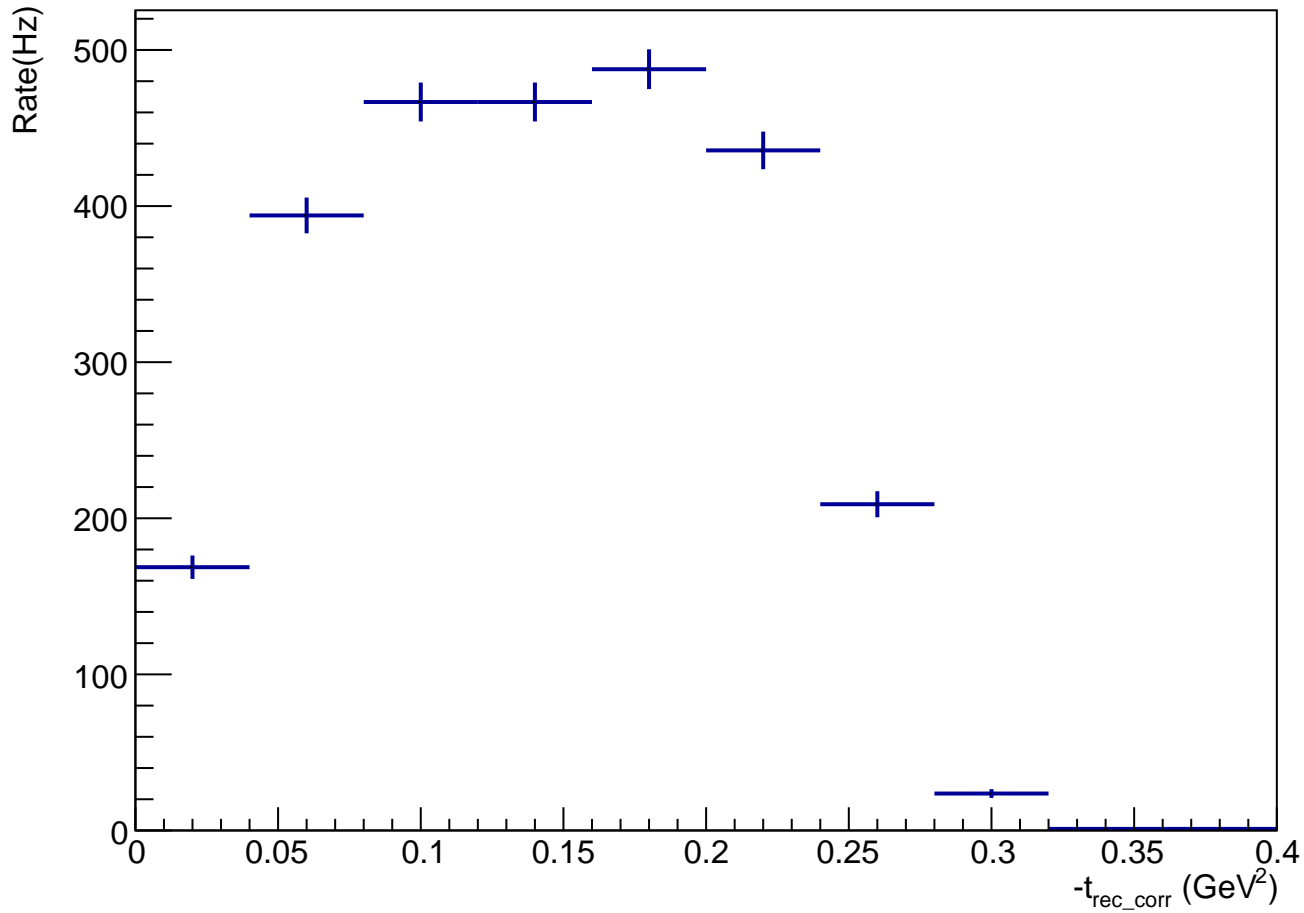
-t dist w/ $5.0 < Q^2 < 7.5$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}$, W cuts



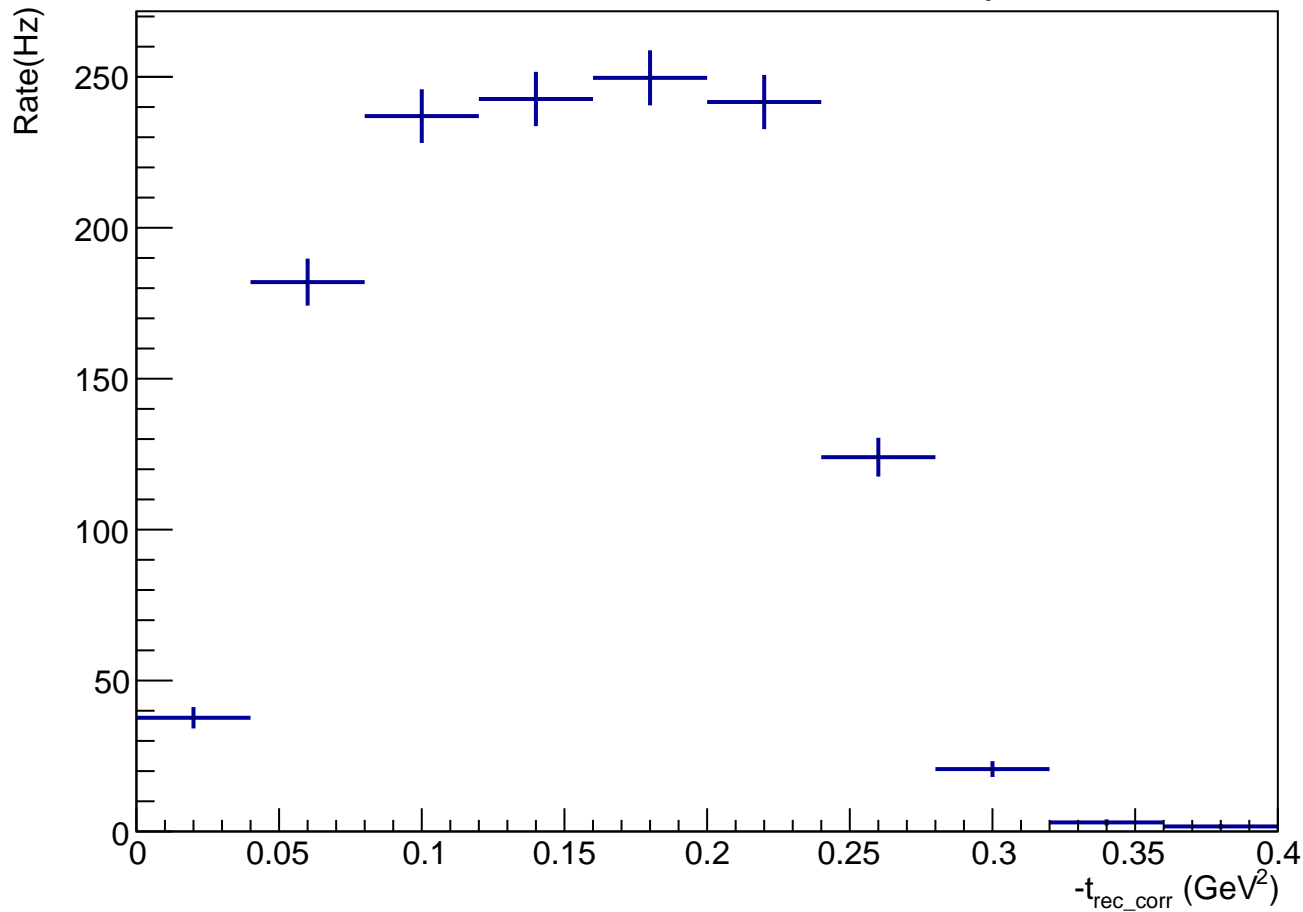
-t dist w/ $7.5 < Q^2 < 10.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



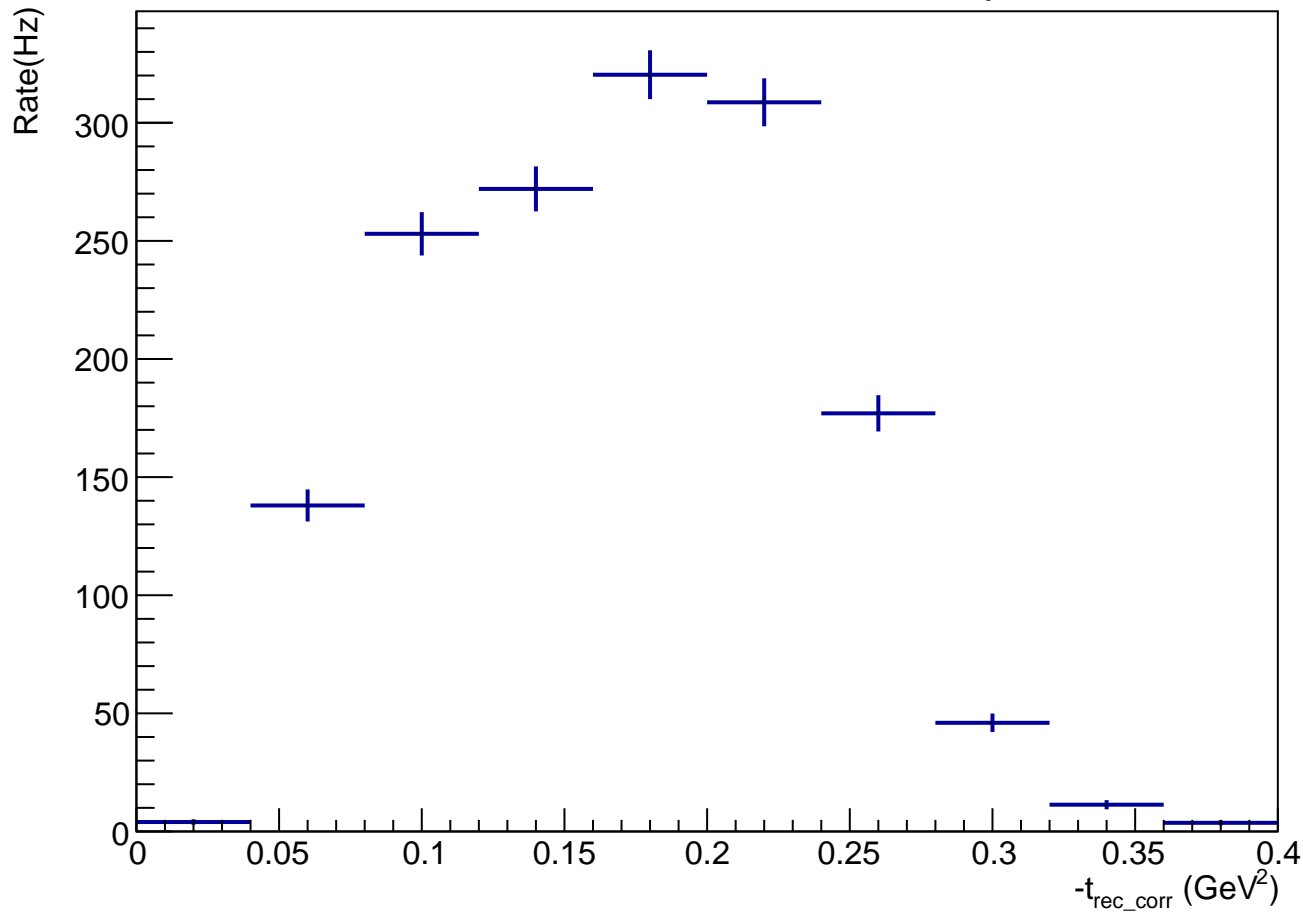
-t dist w/ $10.0 < Q^2 < 15.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



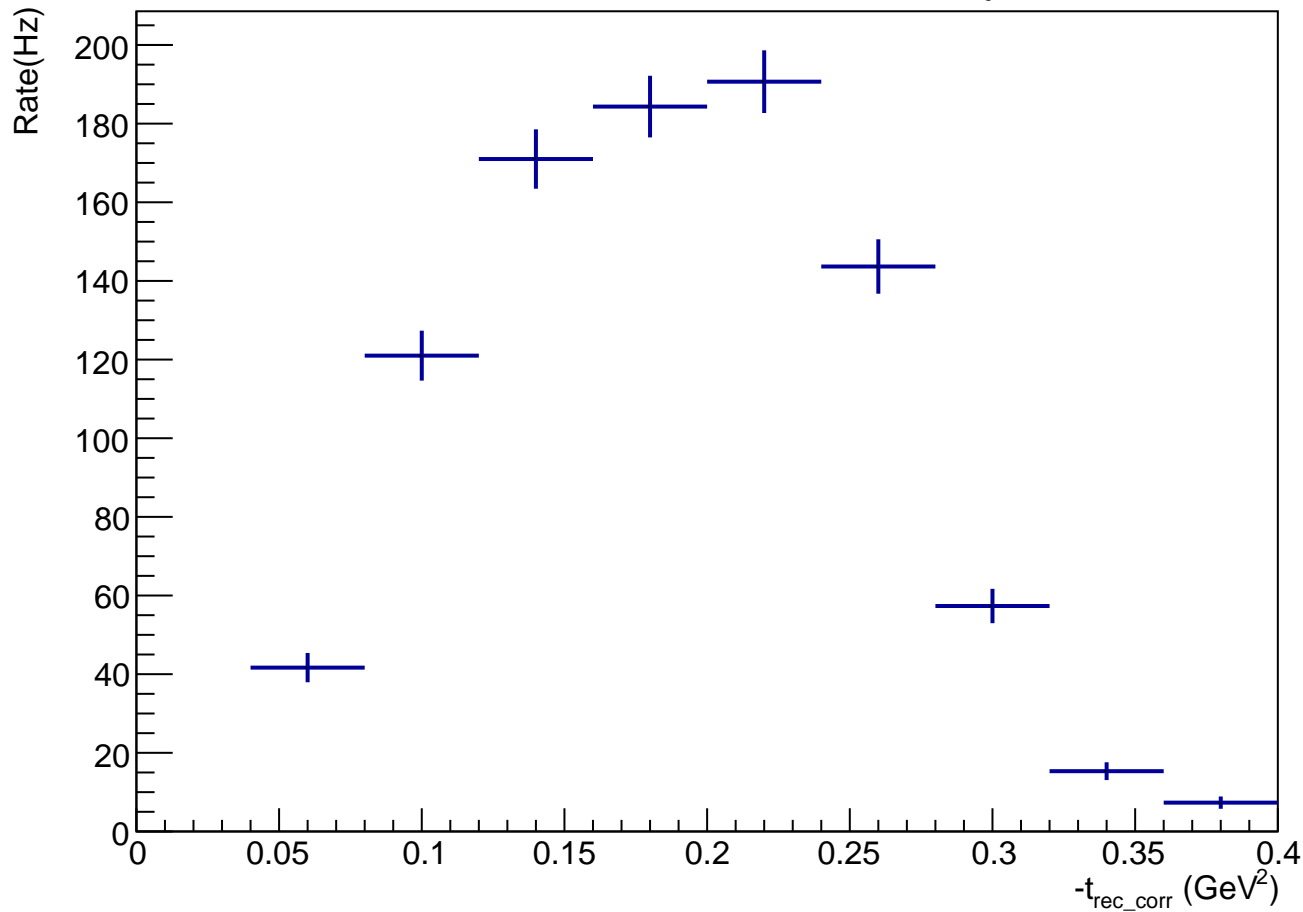
-t dist w/ $15.0 < Q^2 < 20.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



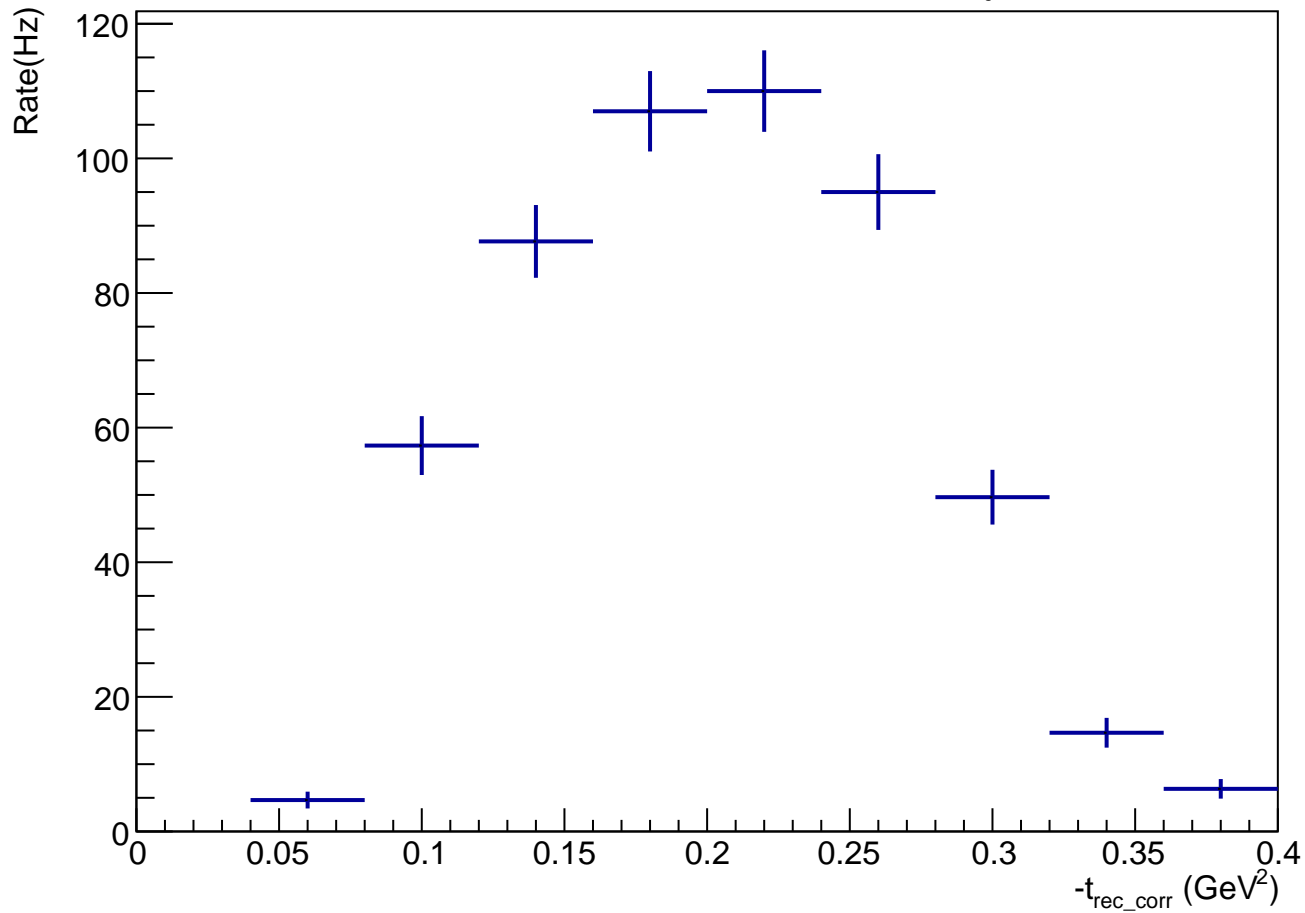
-t dist w/ $20.0 < Q^2 < 25.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



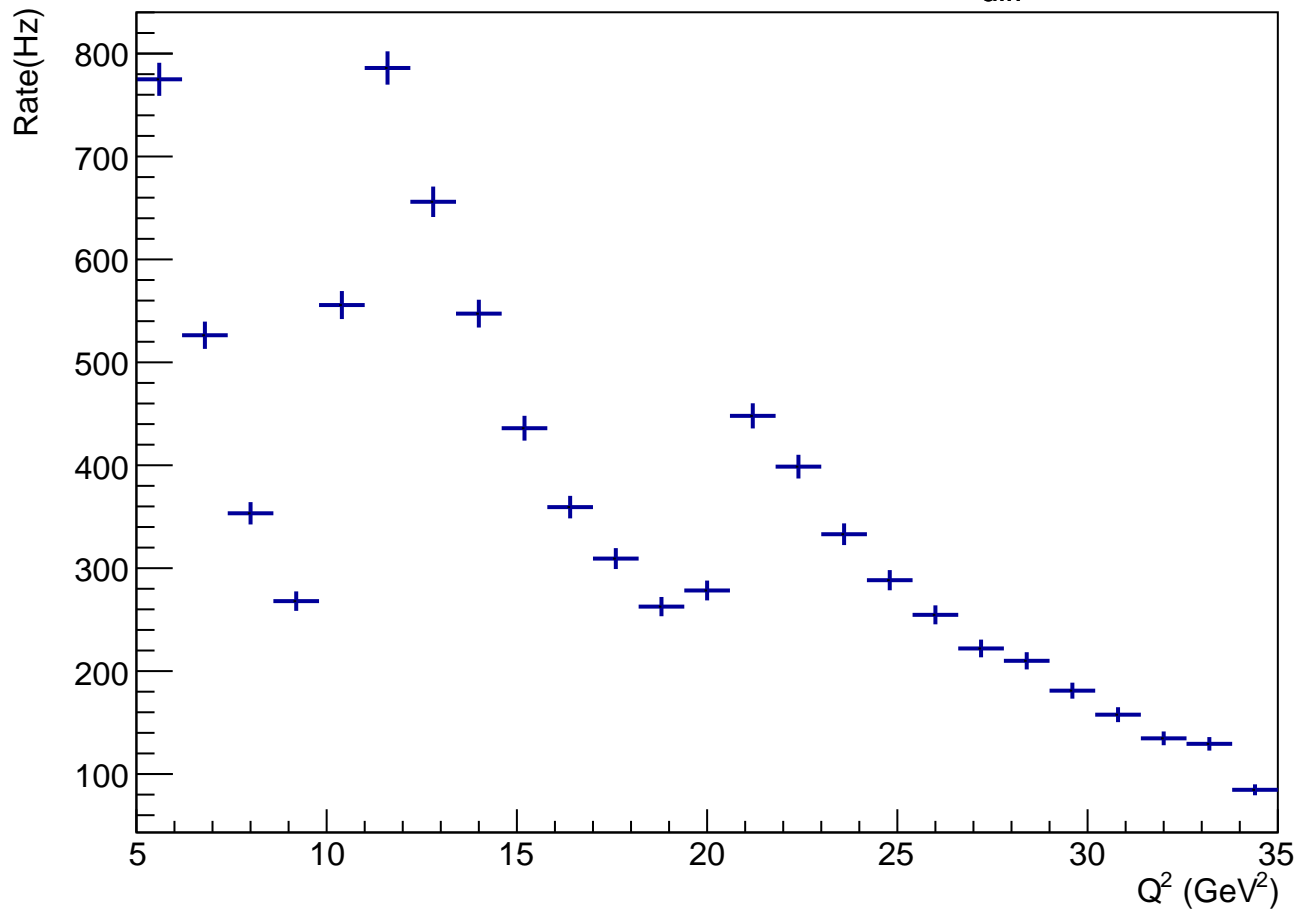
-t dist w/ $25.0 < Q^2 < 30.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



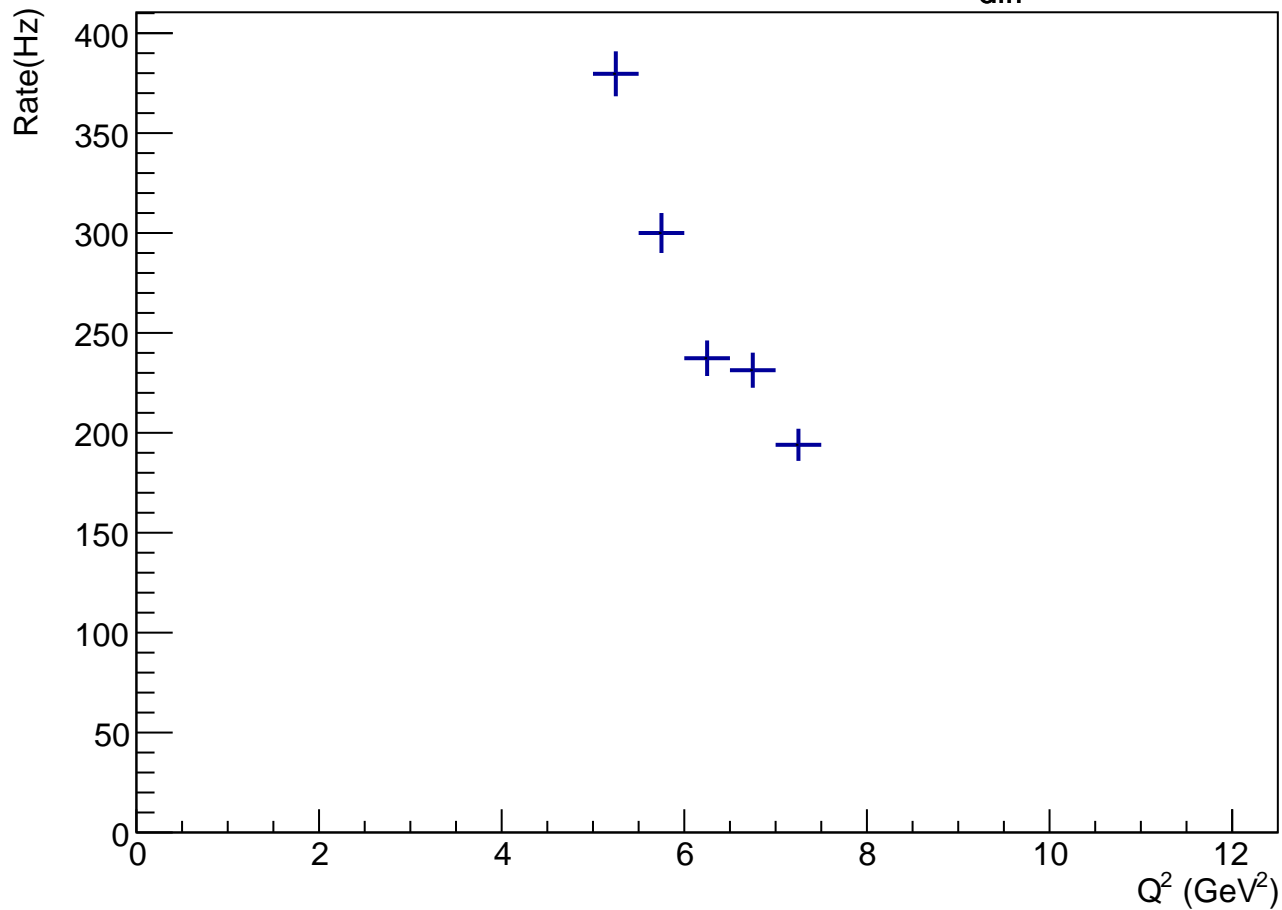
-t dist w/ $30.0 < Q^2 < 35.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



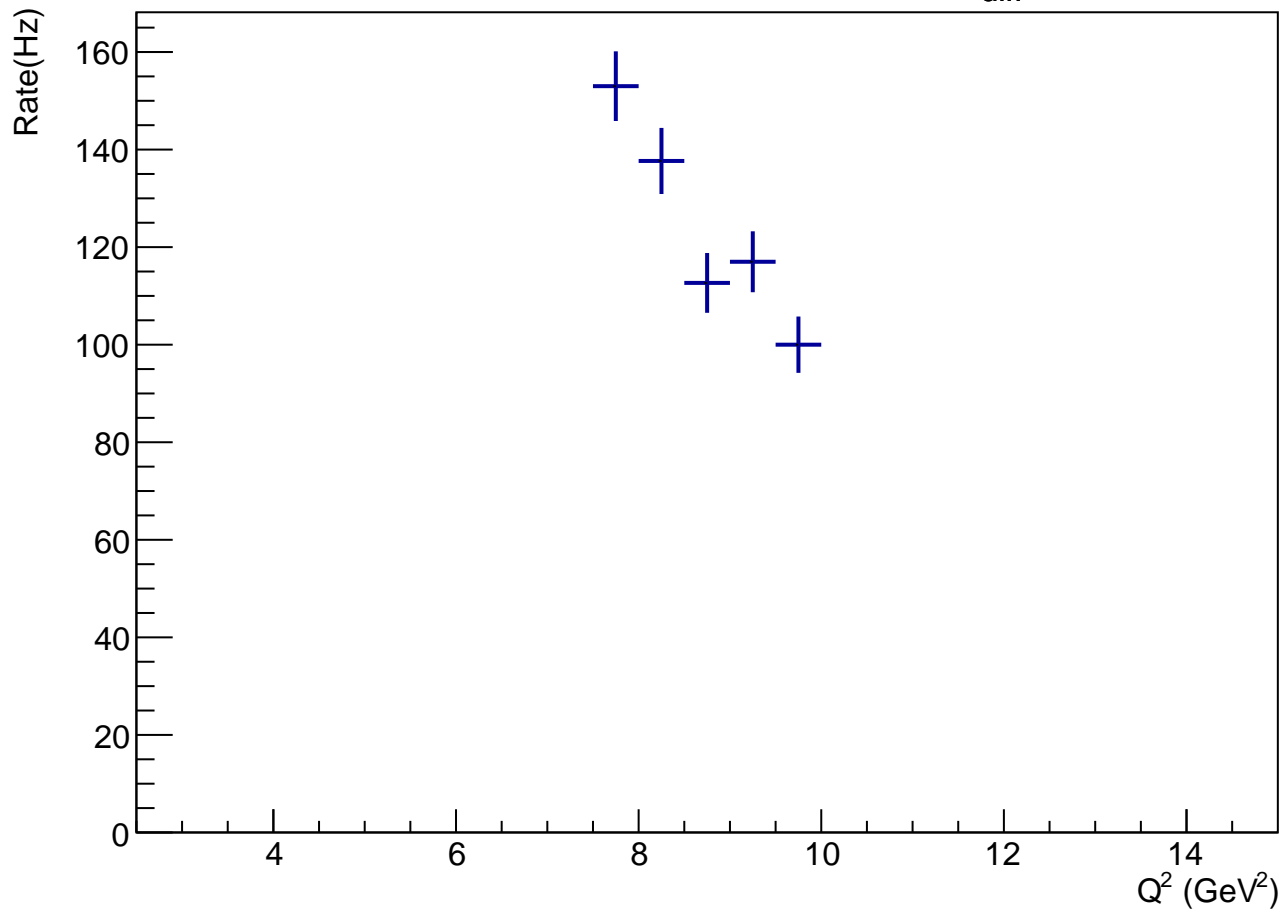
Q^2 dist w/ $5.0 < Q^2 < 35.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



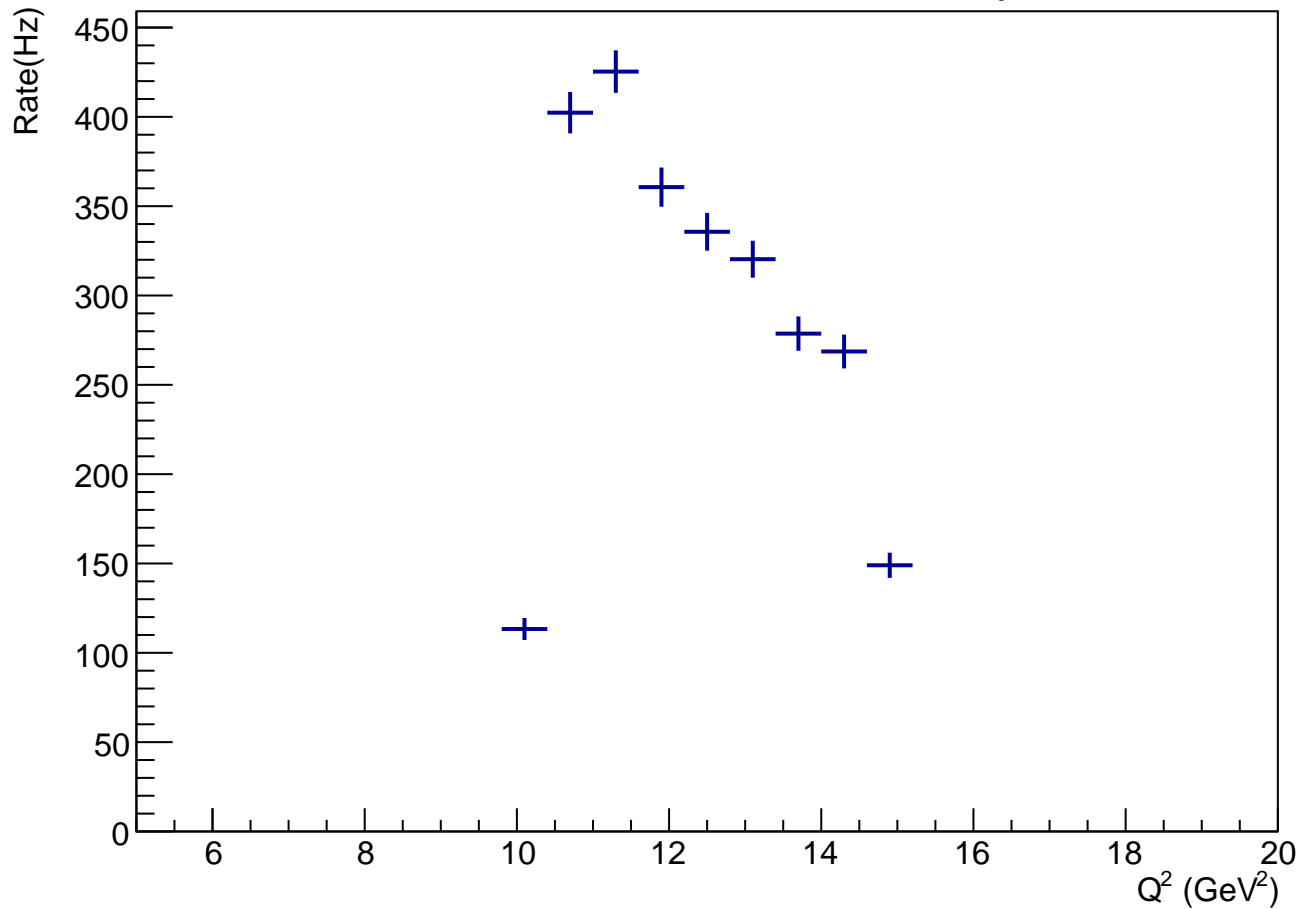
Q^2 dist w/ $5.0 < Q^2 < 7.5$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}$, W cuts



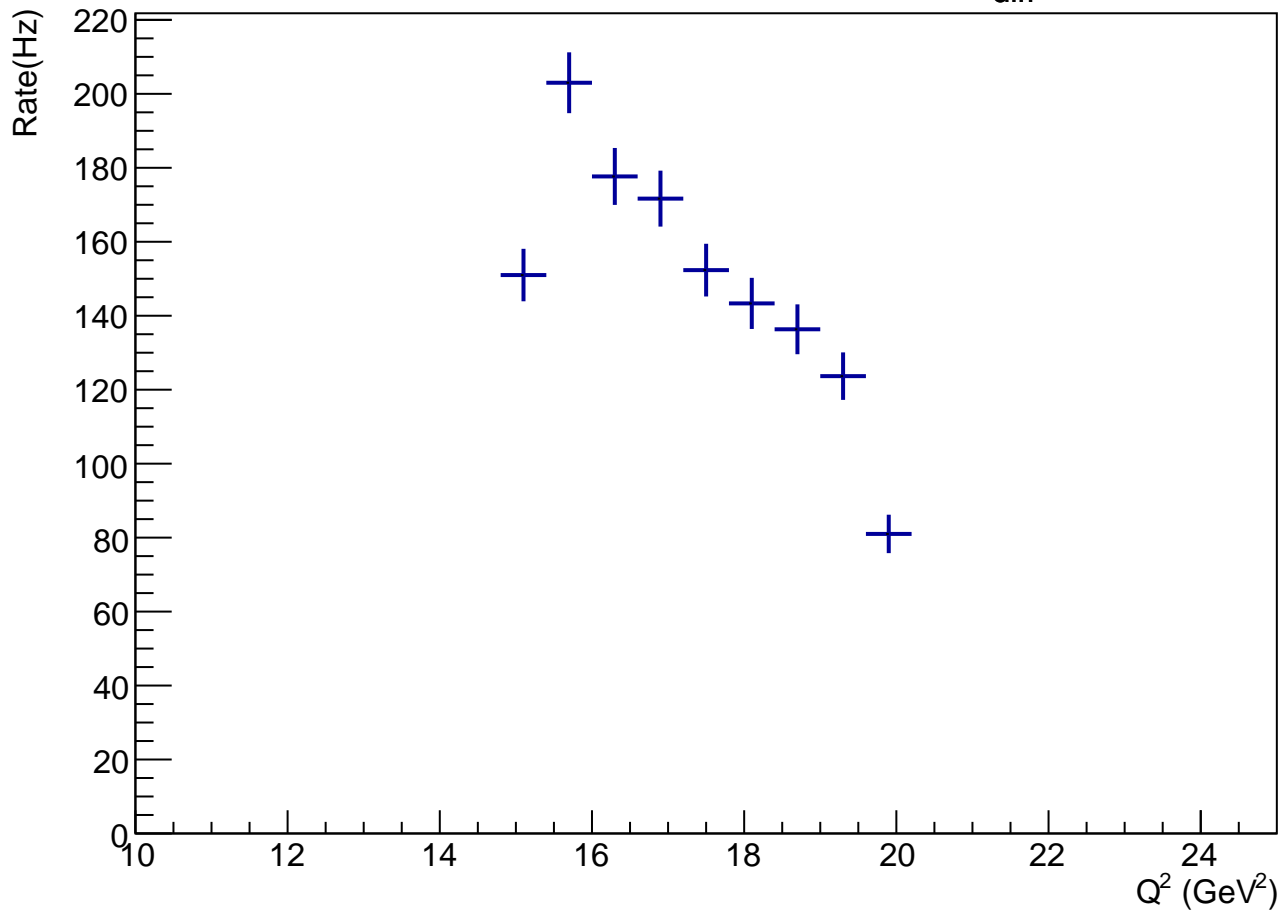
Q^2 dist w/ $7.5 < Q^2 < 10.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



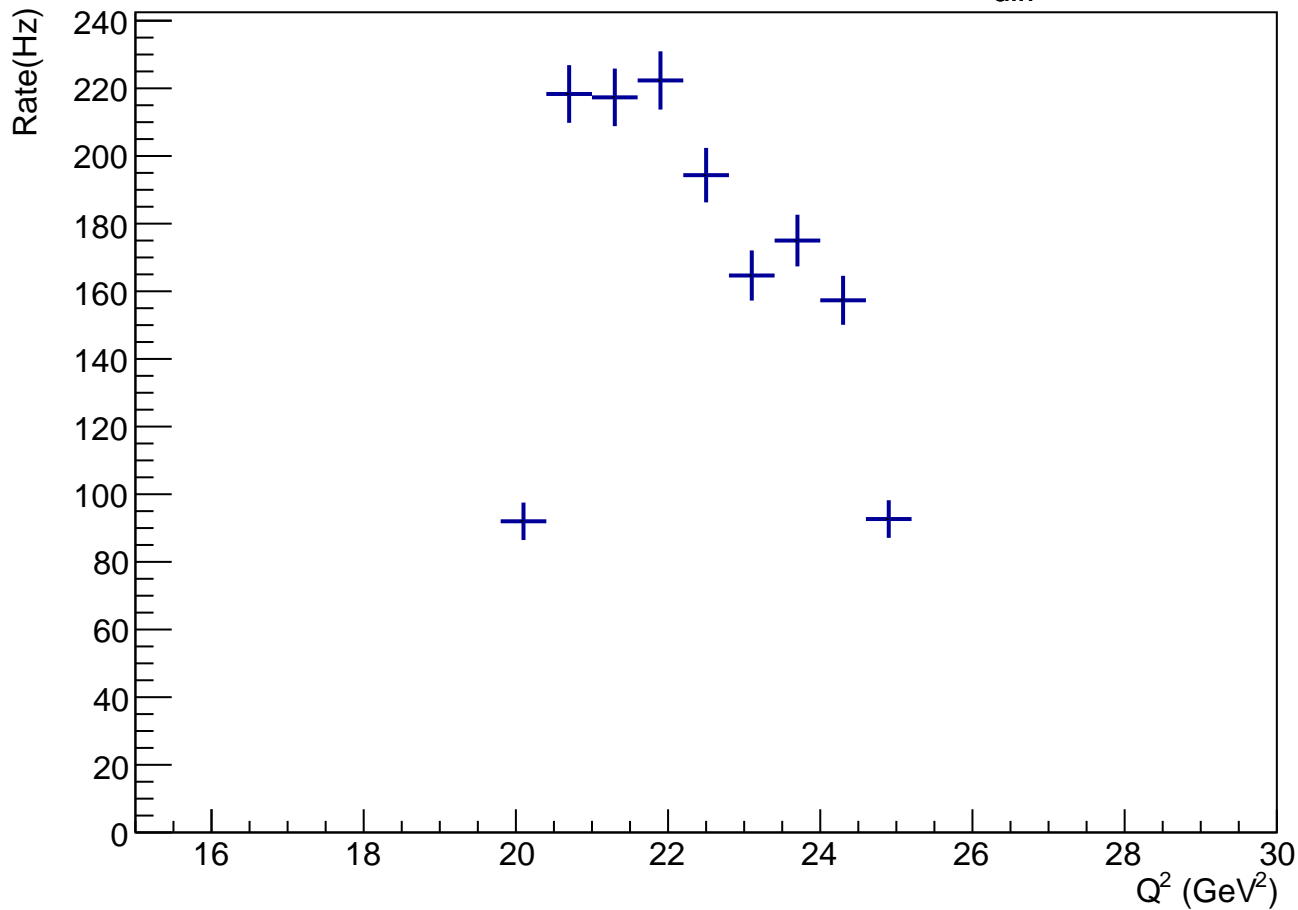
Q^2 dist w/ $10.0 < Q^2 < 15.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



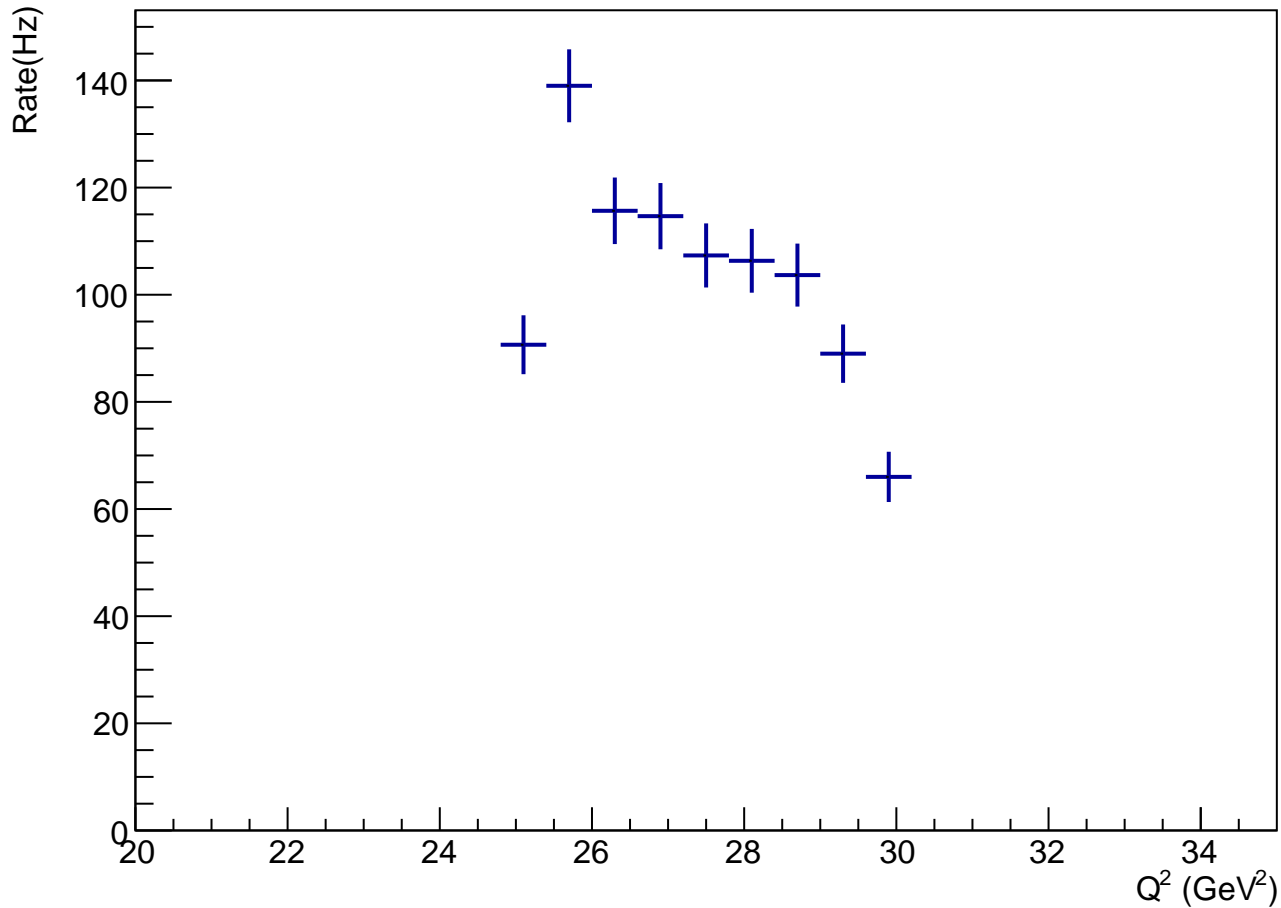
Q^2 dist w/ $15.0 < Q^2 < 20.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



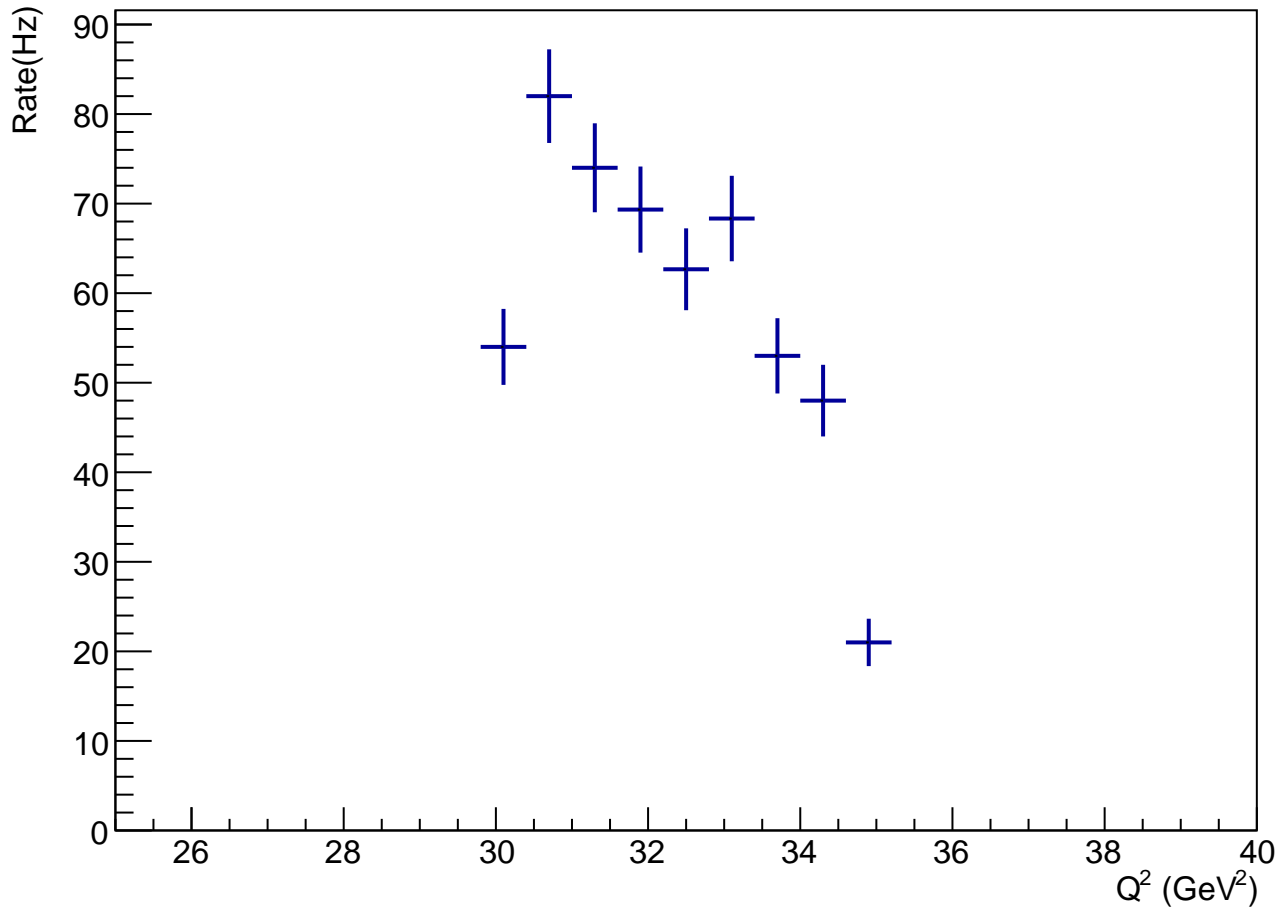
Q^2 dist w/ $20.0 < Q^2 < 25.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



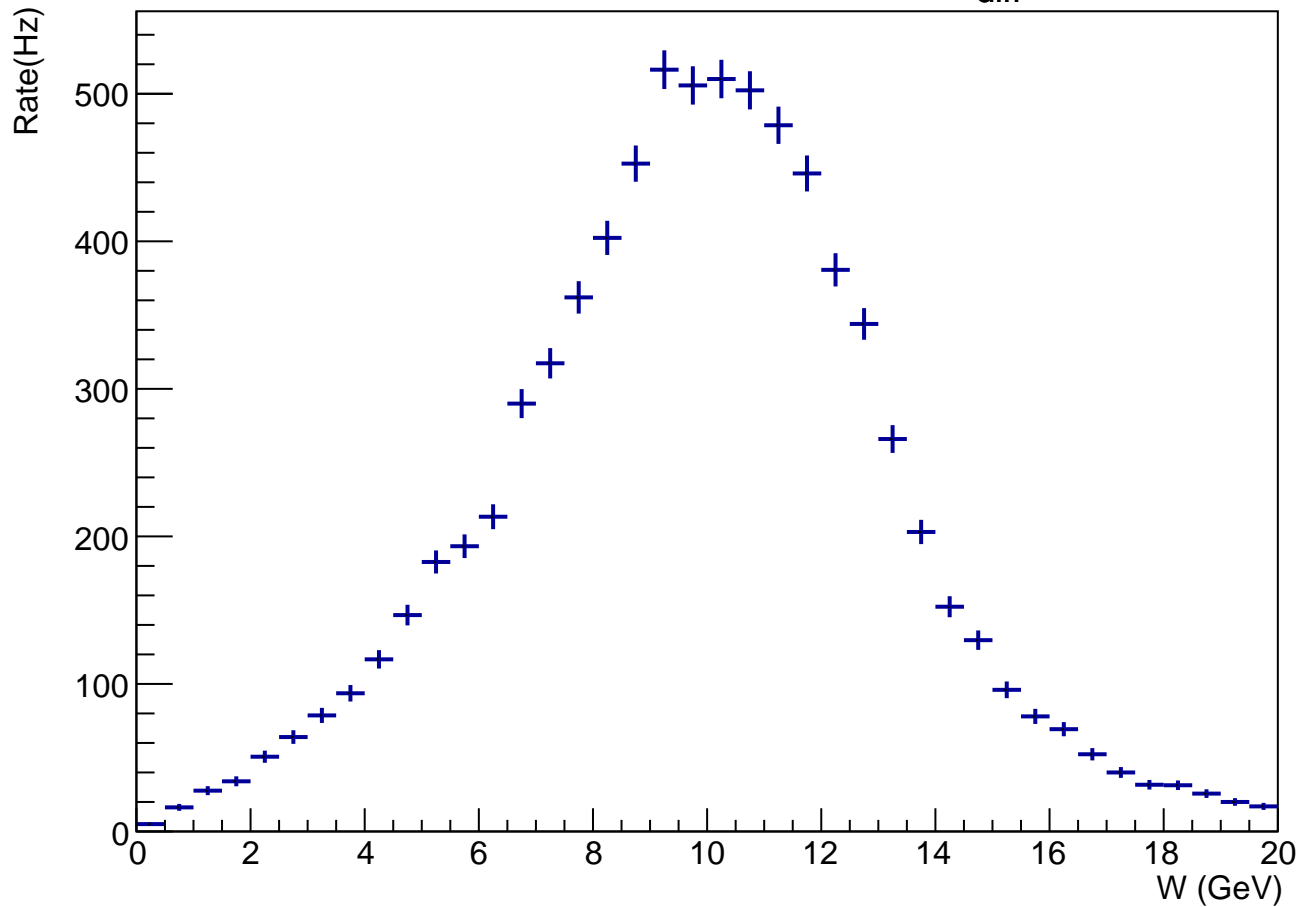
Q^2 dist w/ $25.0 < Q^2 < 30.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



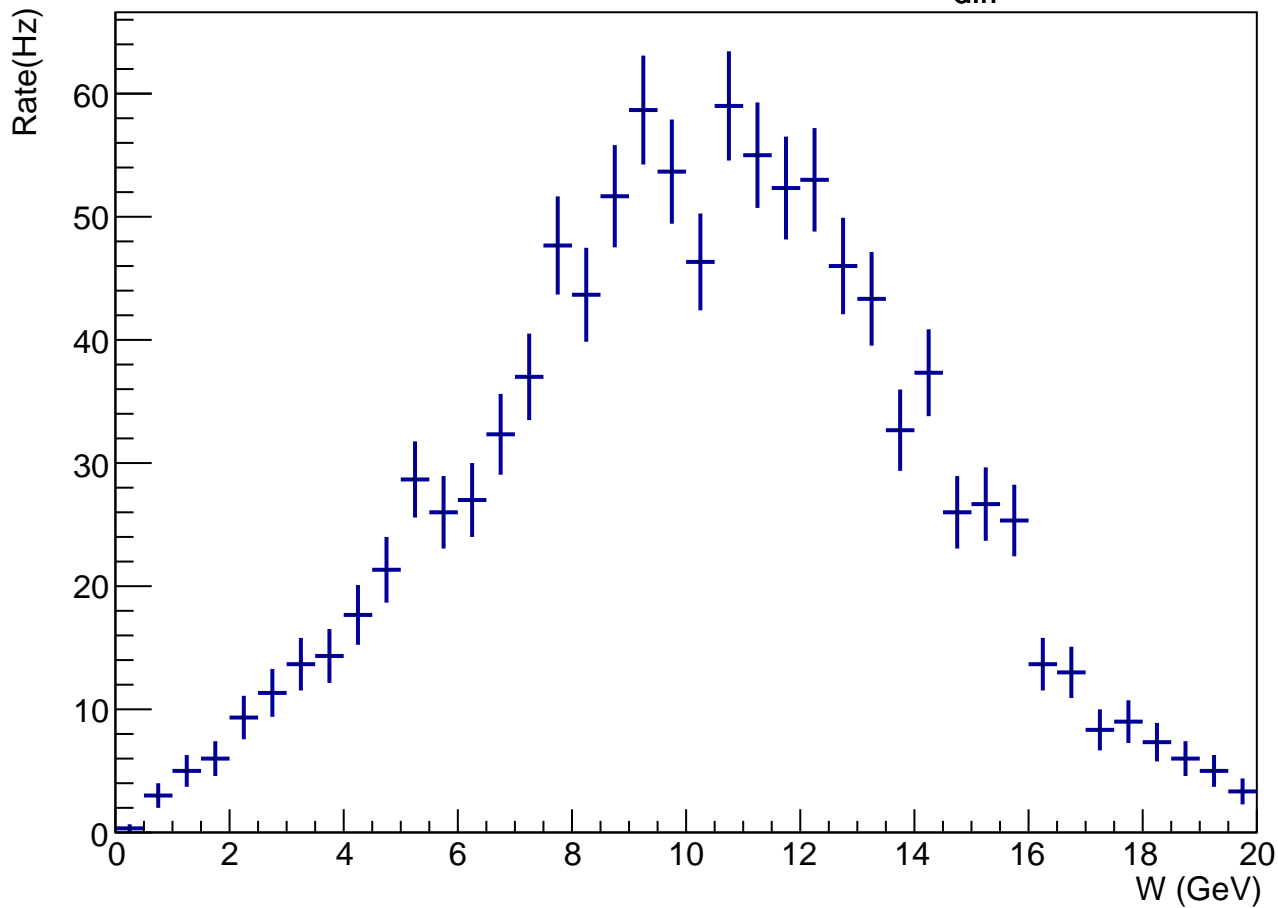
Q^2 dist w/ $30.0 < Q^2 < 35.0$, $-\mathbf{t}, \theta_{\text{diff}}, \phi_{\text{diff}}, W$ cuts



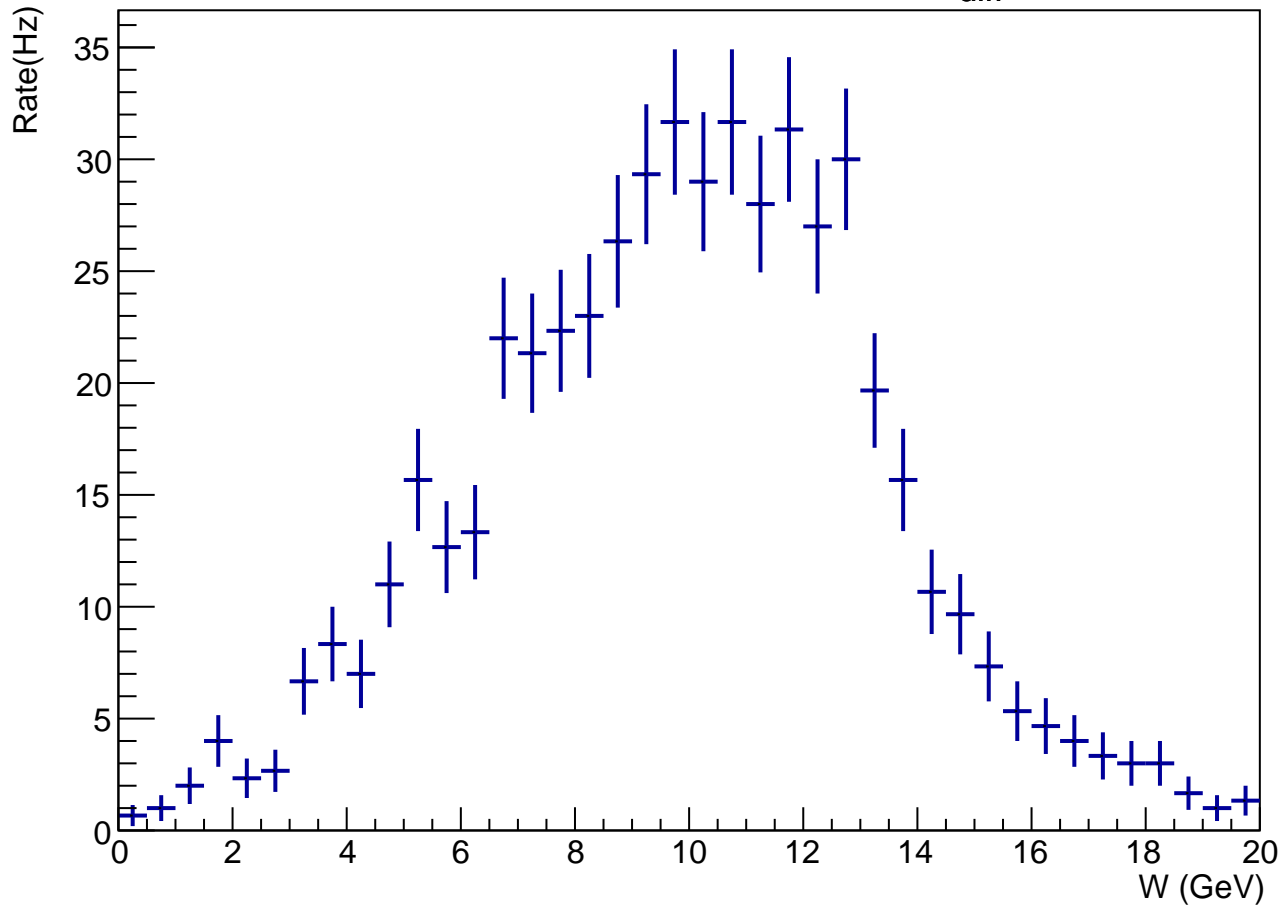
W dist w/ $5.0 < Q^2 < 35.0$, $-\theta_{\text{diff}}, \phi_{\text{diff}}$, W cuts



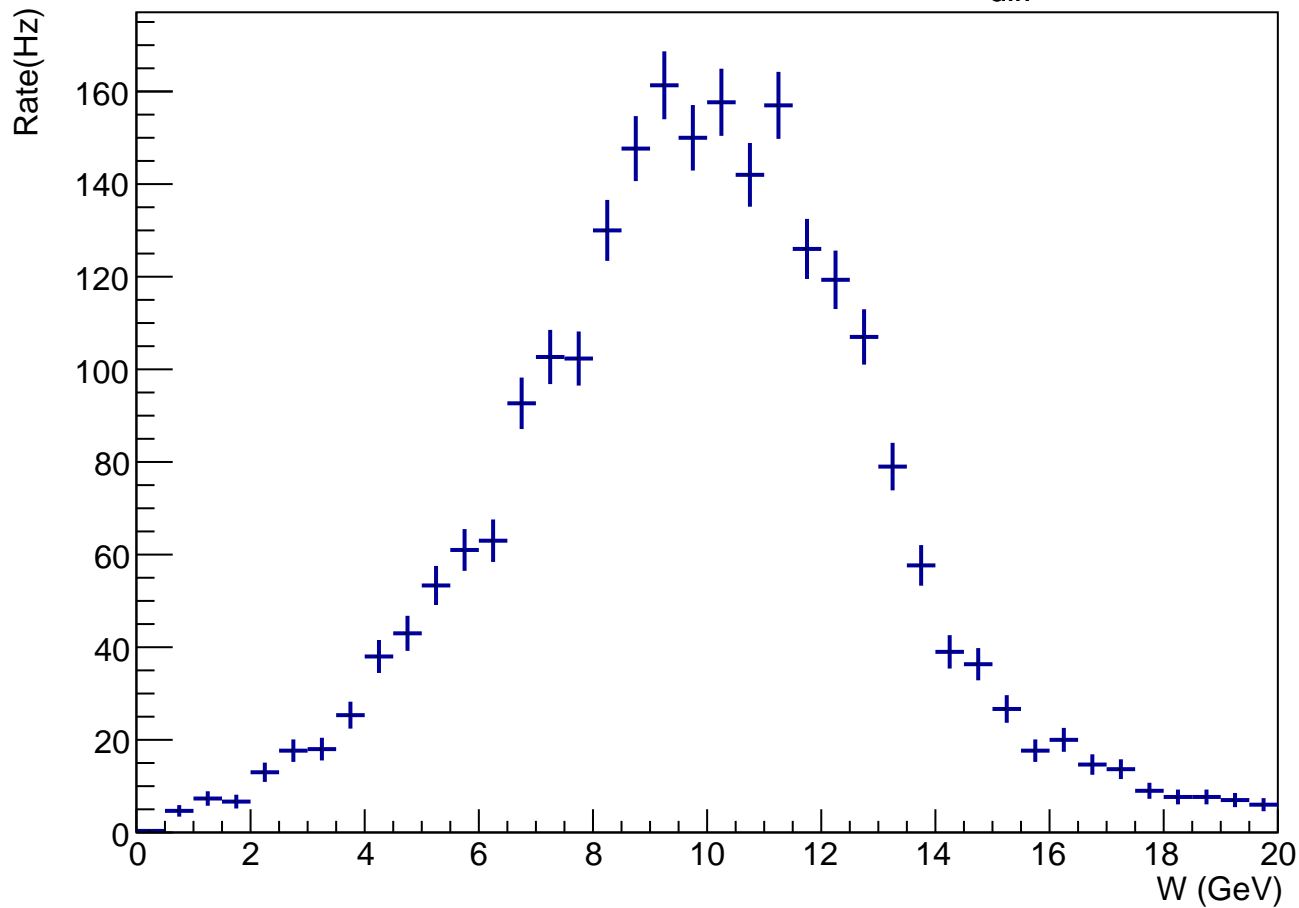
W dist w/ $5.0 < Q^2 < 7.5$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}$, W cuts



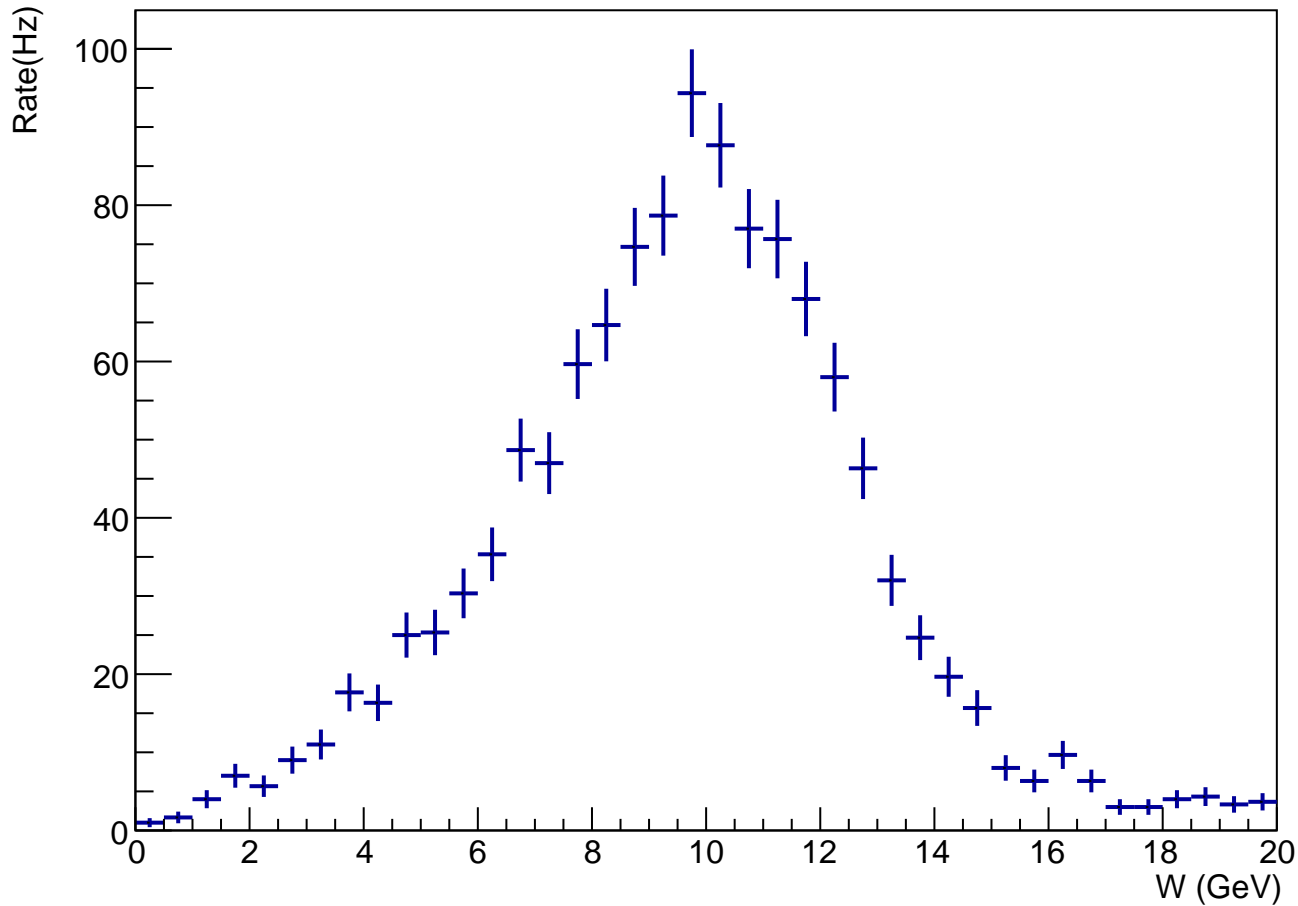
W dist w/ $7.5 < Q^2 < 10.0$, $-\theta_{\text{diff}}, \phi_{\text{diff}}$, W cuts



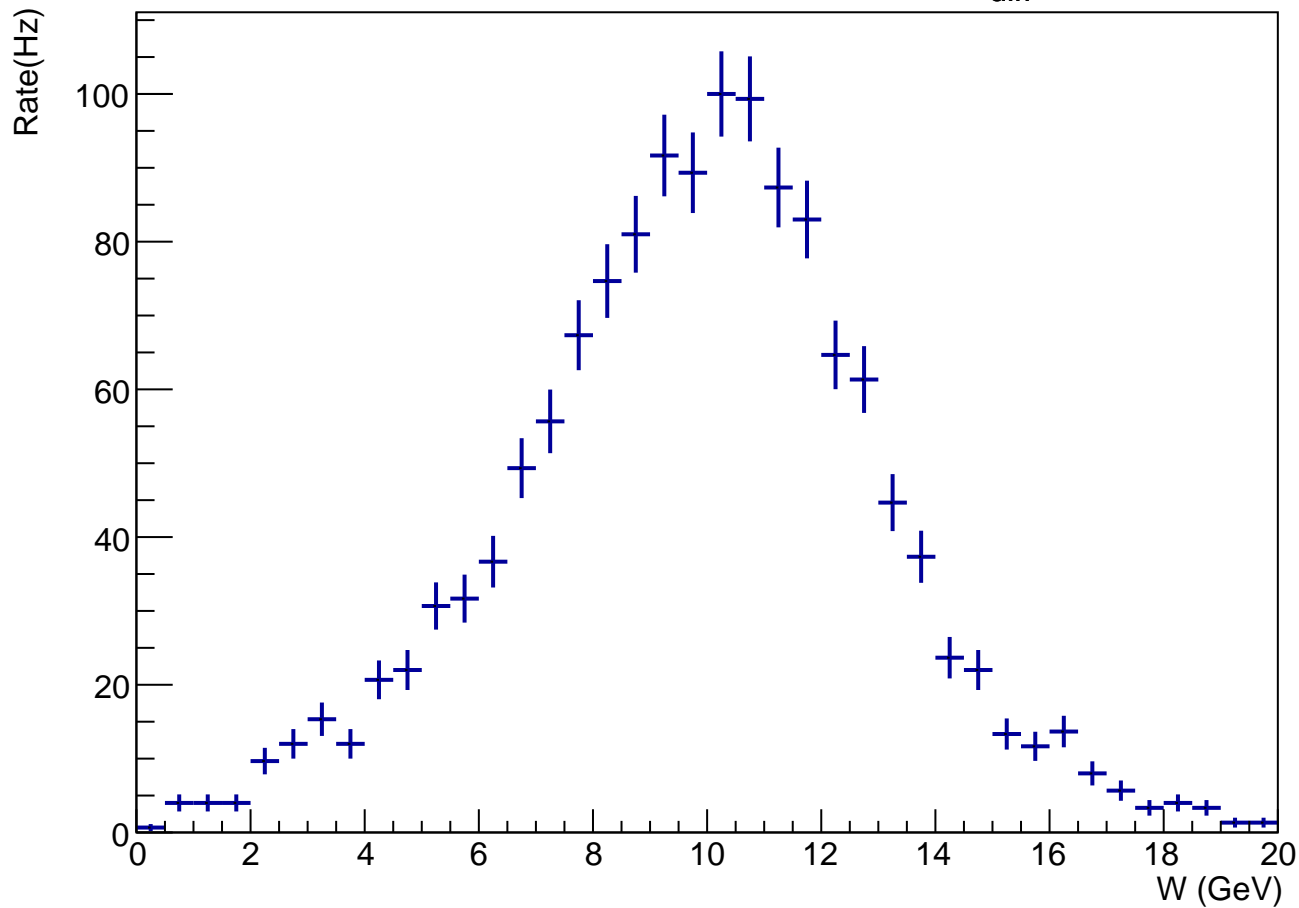
W dist w/ $10.0 < Q^2 < 15.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}$, W cuts



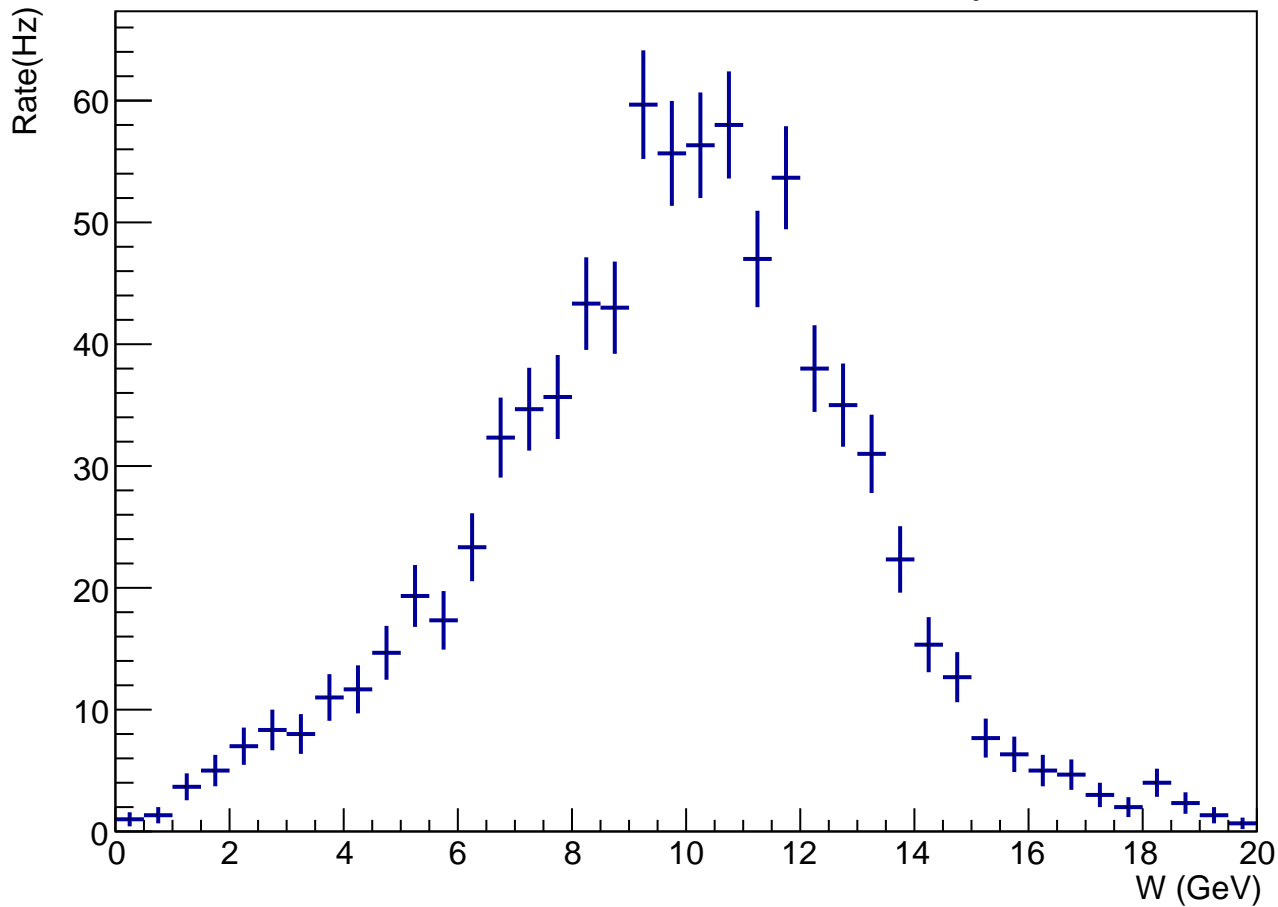
W dist w/ $15.0 < Q^2 < 20.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}$, W cuts



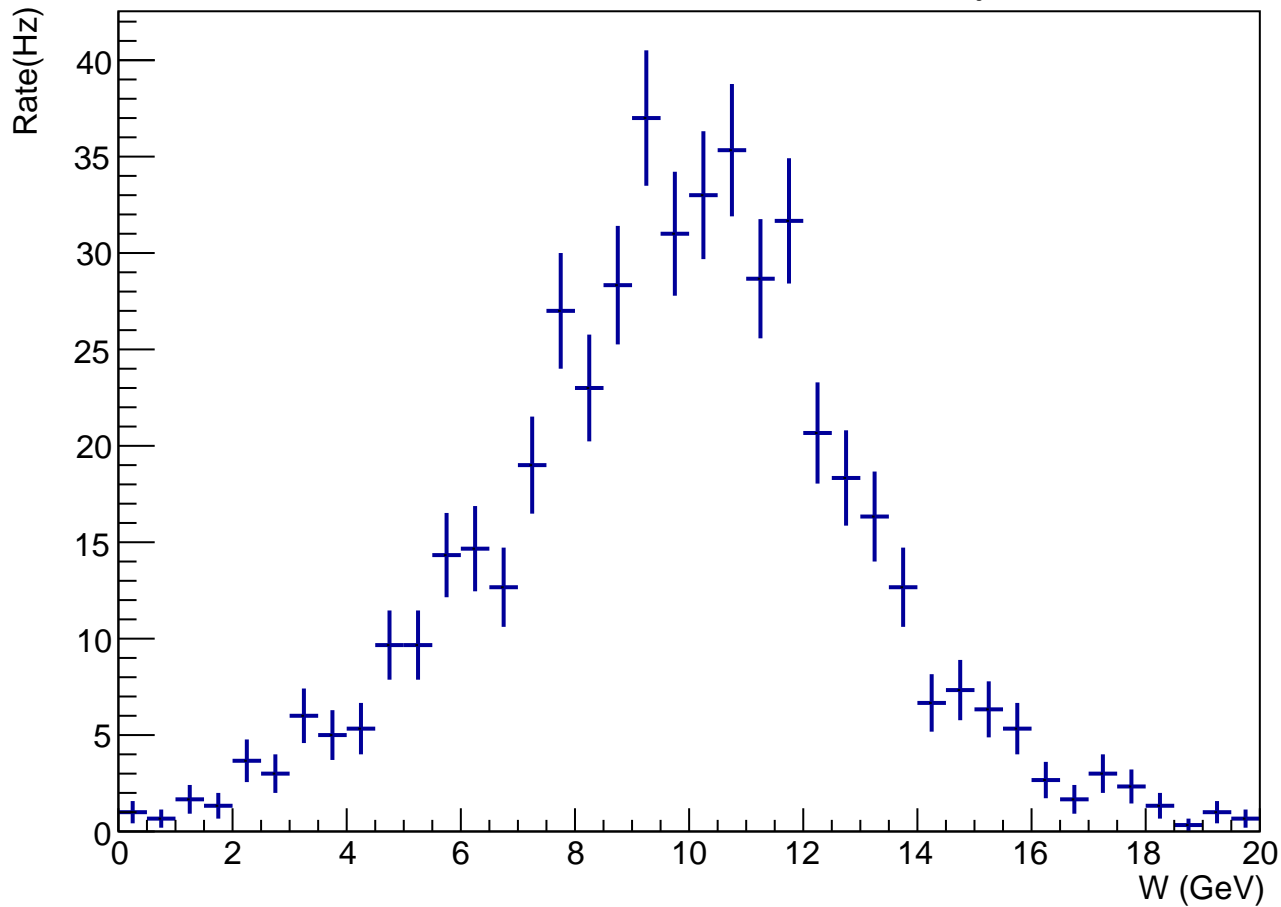
W dist w/ $20.0 < Q^2 < 25.0$, $-\mathbf{t}, \theta_{\text{diff}}, \phi_{\text{diff}}$, W cuts



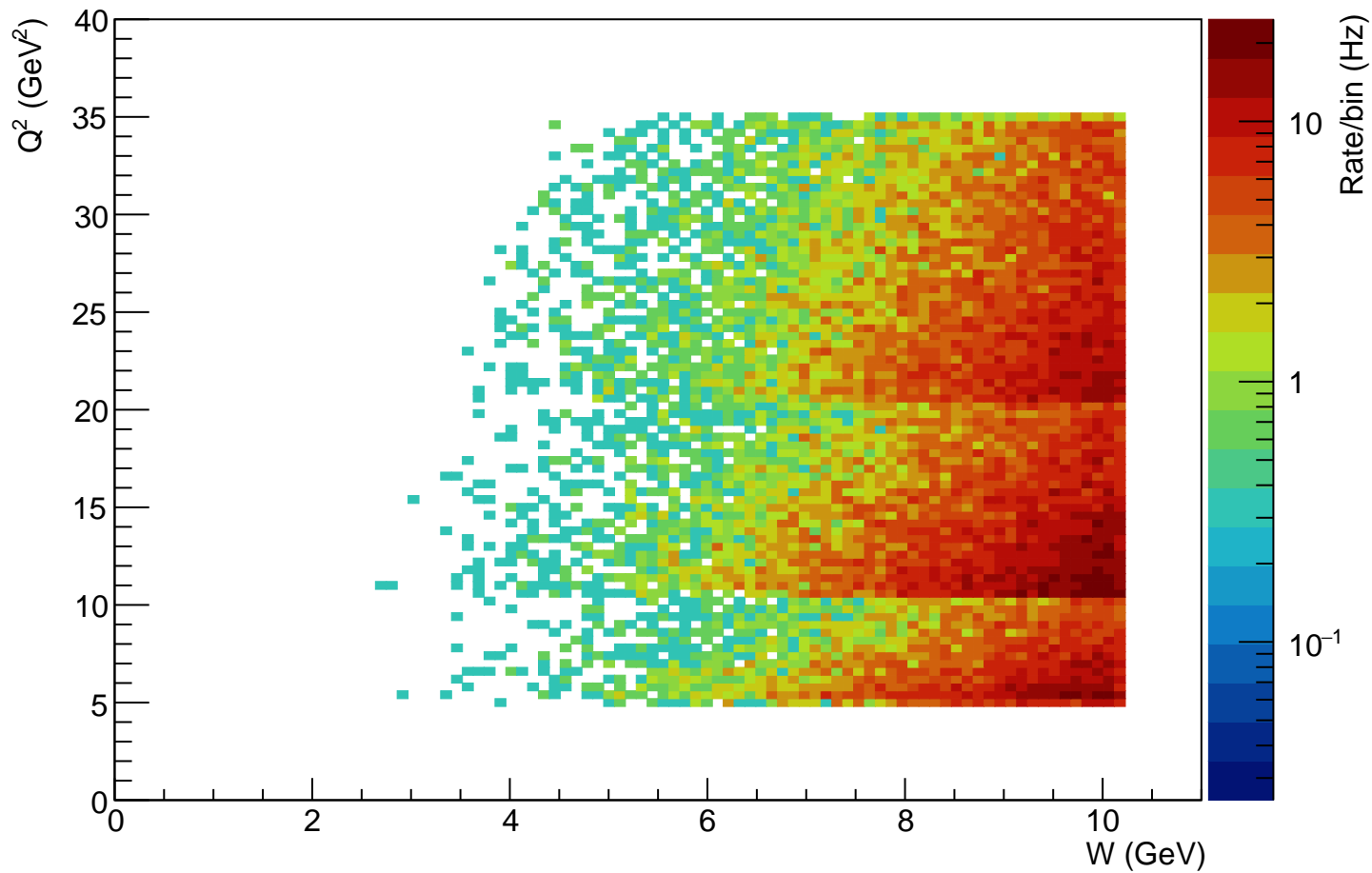
W dist w/ $25.0 < Q^2 < 30.0$, $-t, \theta_{\text{diff}}, \phi_{\text{diff}}$, W cuts



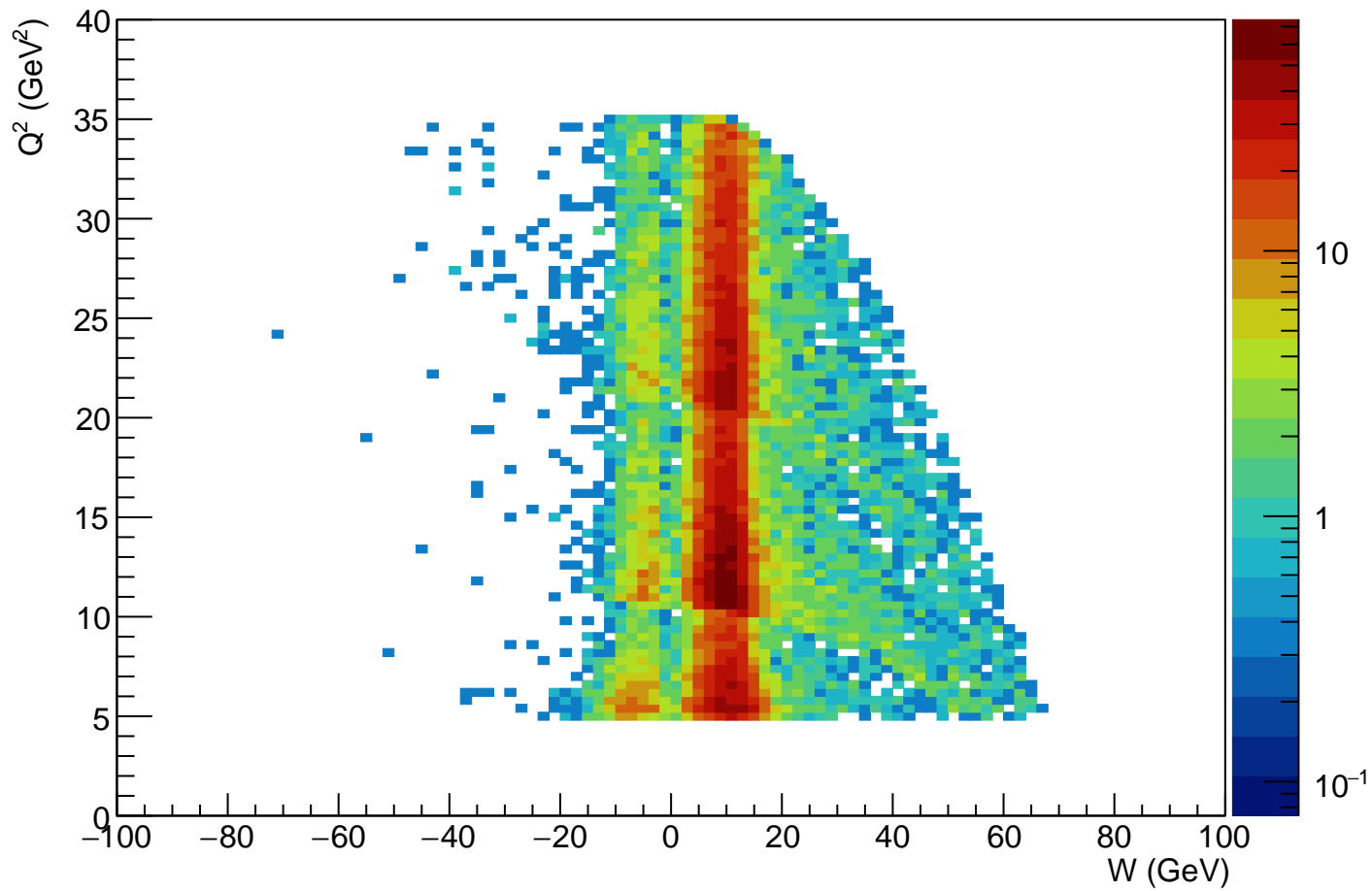
W dist w/ $30.0 < Q^2 < 35.0$, $-\theta_{\text{diff}}, \phi_{\text{diff}}$, W cuts



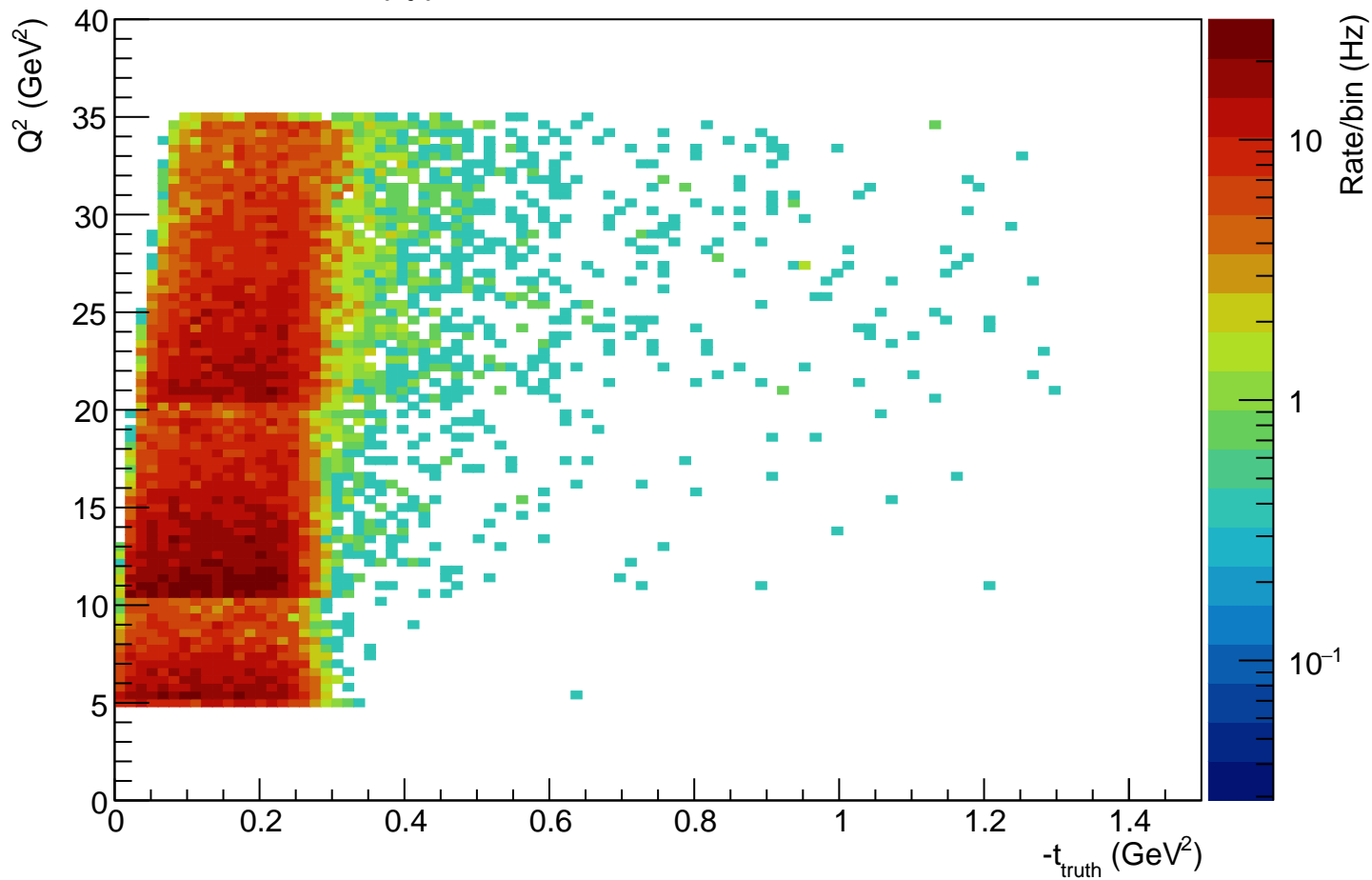
W vs Q^2 truth distribution



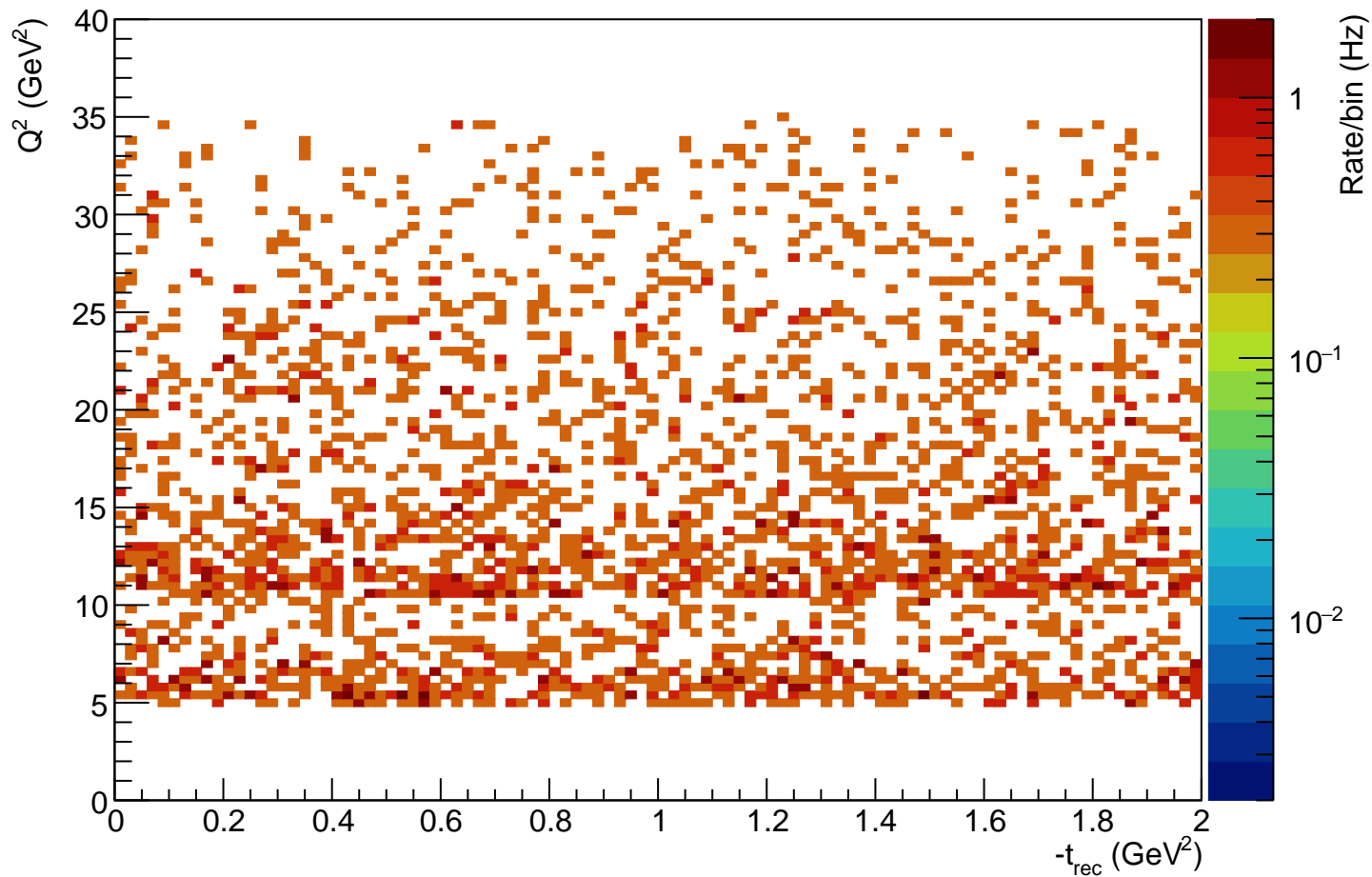
W vs Q^2 rec distribution



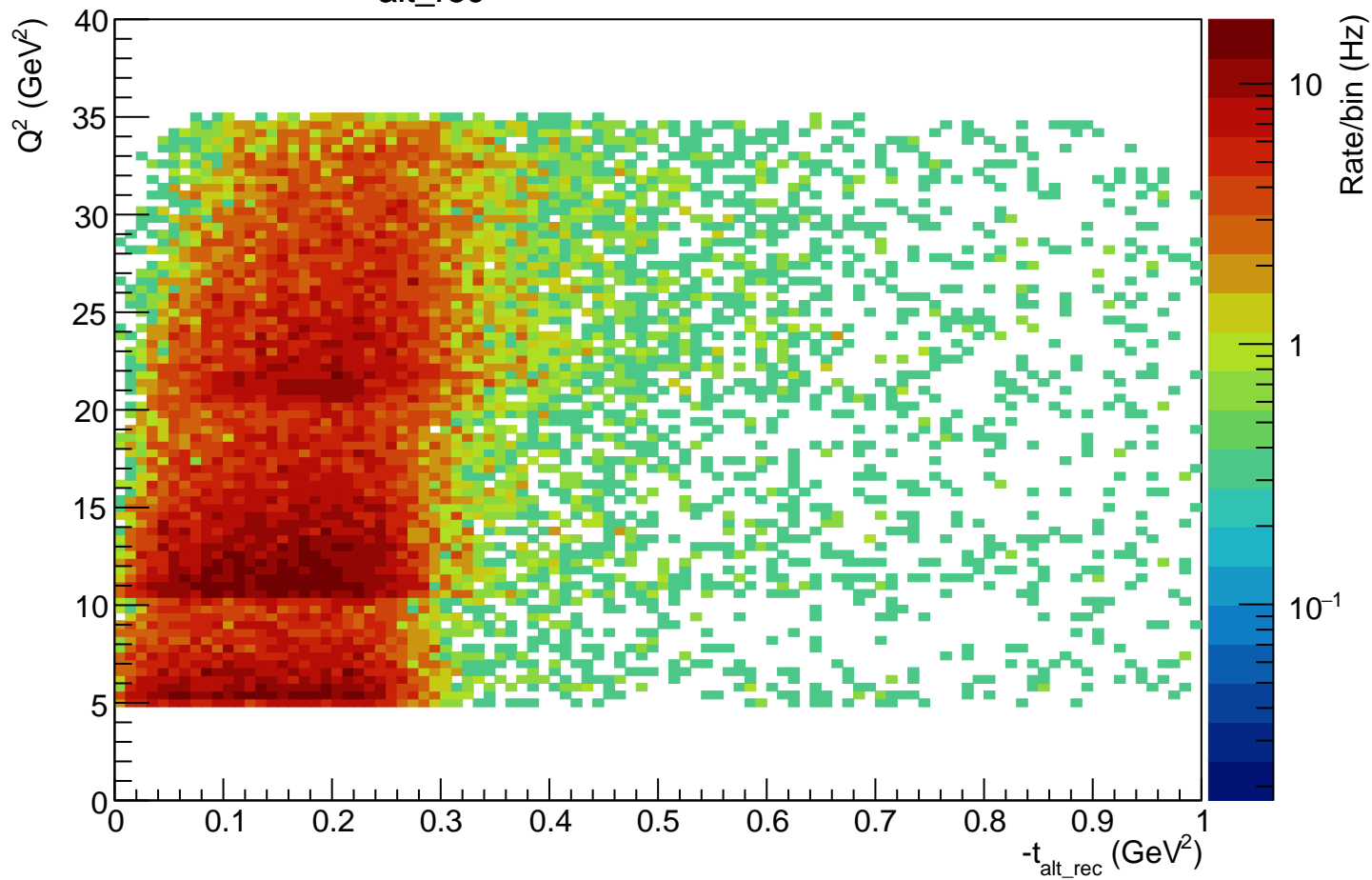
$-t_{\text{truth}}$ vs Q^2 truth distribution



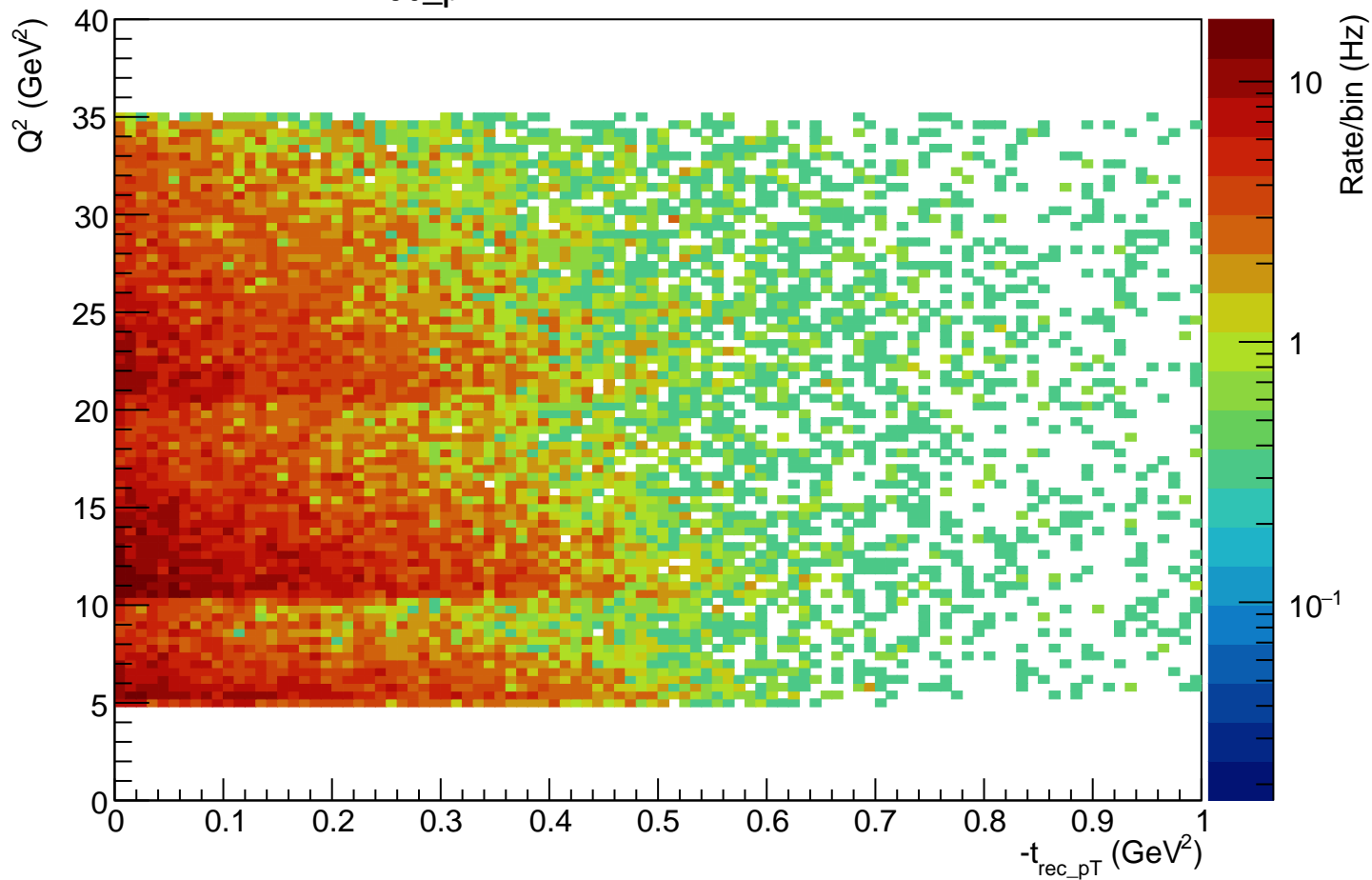
$-t_{\text{rec}}$ vs Q^2 rec distribution



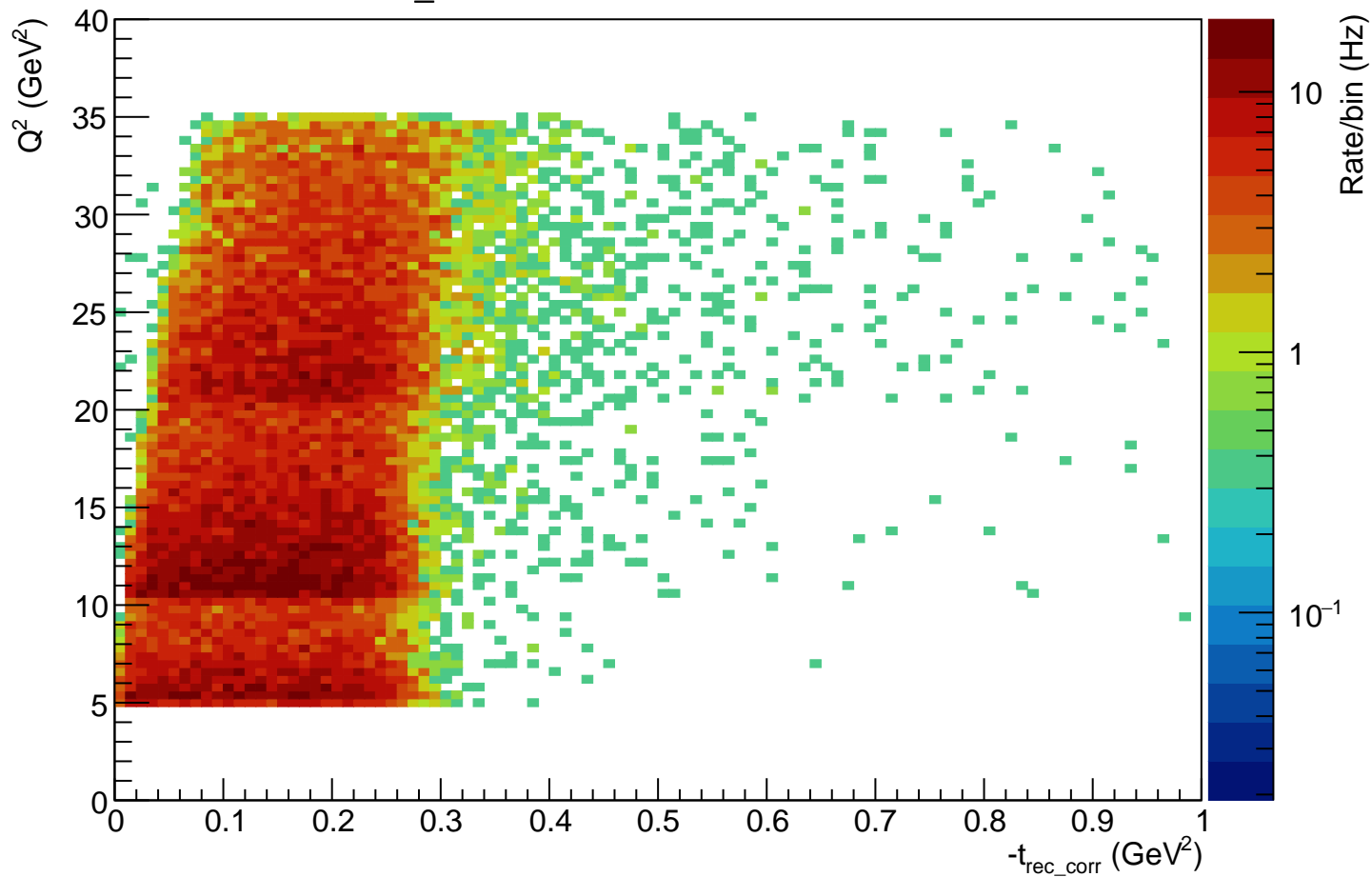
$-t_{\text{alt_rec}}$ vs Q^2 rec distribution



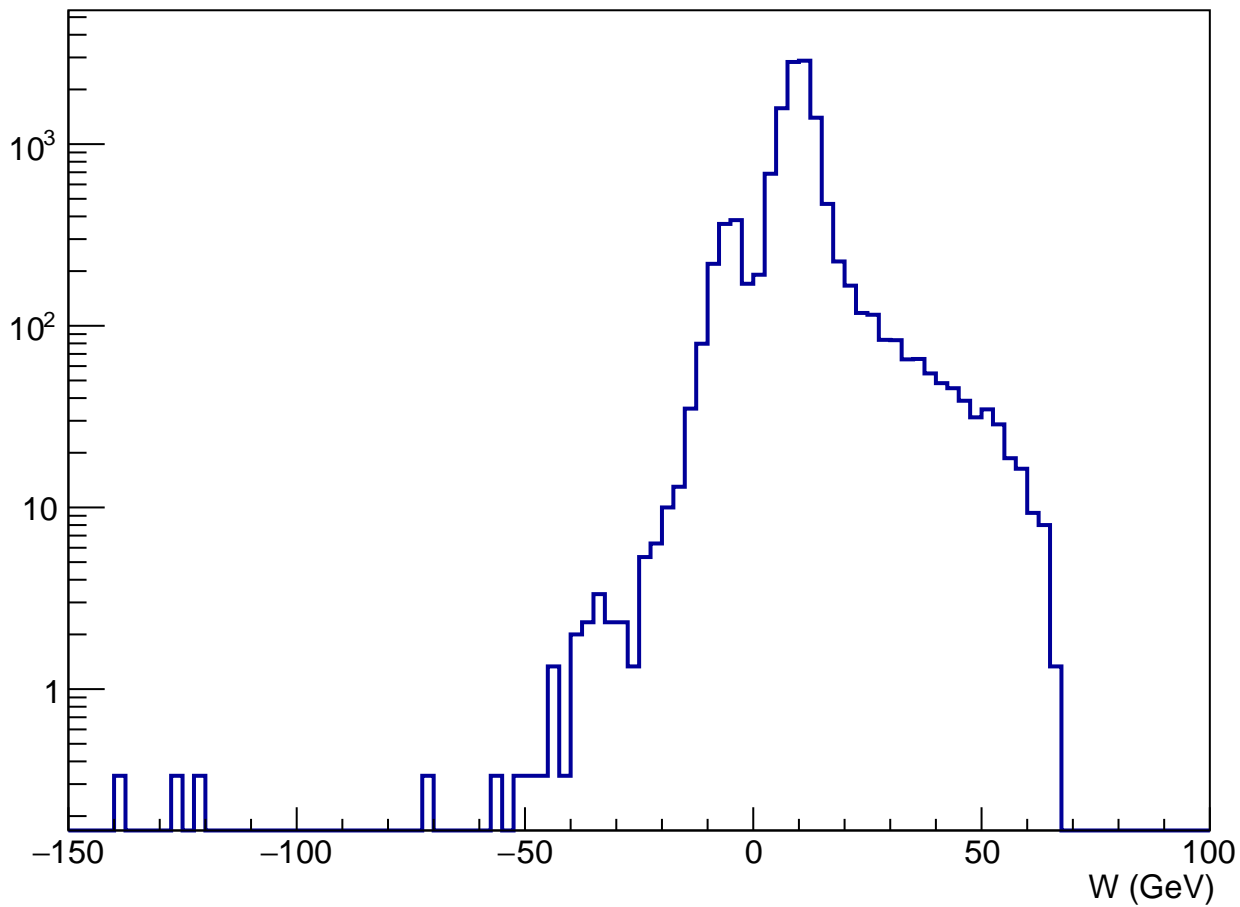
$-t_{\text{rec_pT}}$ vs Q^2 rec distribution



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



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



Total missing mass distribution

