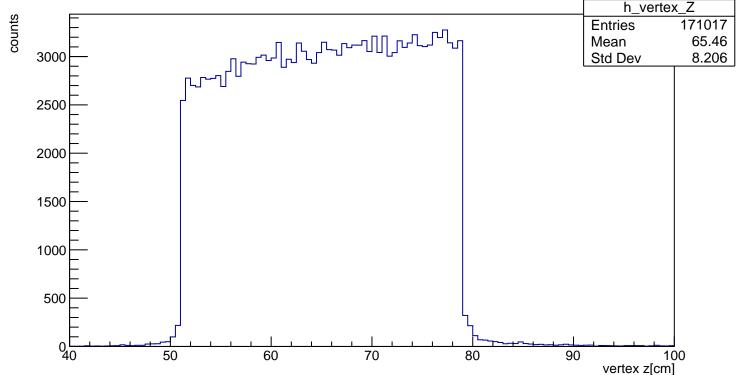
confidence level h_CL counts Entries 171017 0.3856 Mean Std Dev 0.3309 10⁴ 10³ 10^2 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 8.0 0.9 CL

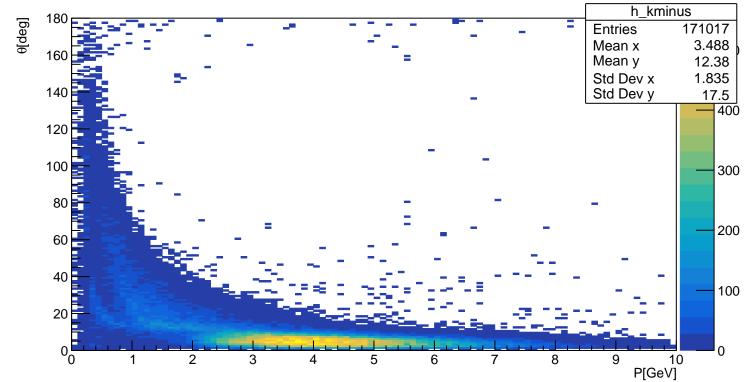
invariant mass of reconstructed Φ meson h_mass_phi counts Entries 171017 1.125 Mean Std Dev 0.05819 500 400 300 200 100 م_ل 8.8 0.85 0.95 1.15 $m_{\Phi}[GeV]$ 0.9 1.05 1.1

common vertex X and Y of kinematic fitting h_vertex_XY vertex y[cm] 171017 Entries 0.1458 Mean x Mean y -0.019470.2551 Std Dev x Std Dev y 0.2523 4000 0 3000 -22000 1000 -6 -6 vertex x[cm]

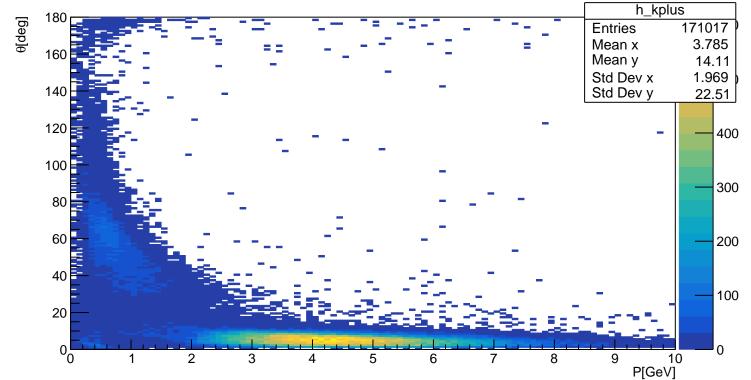
common vertex Z of kinematic fitting



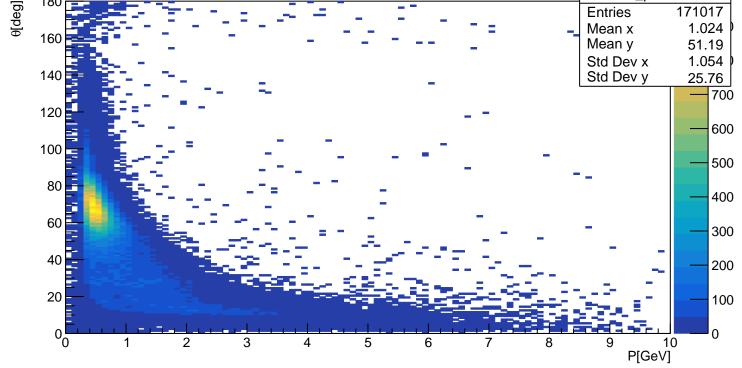
 θ vs P distribution of K



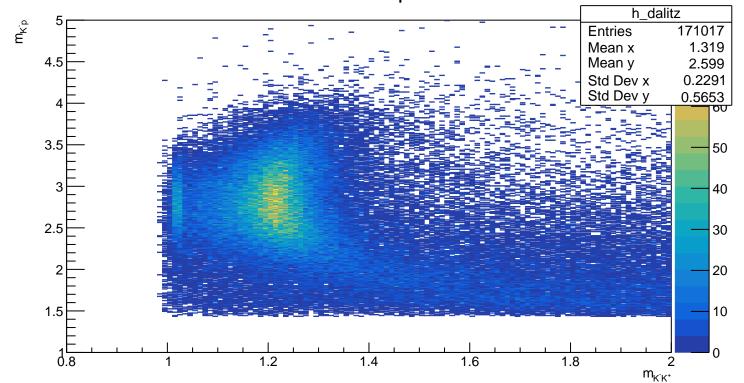
 θ vs P distribution of K⁺



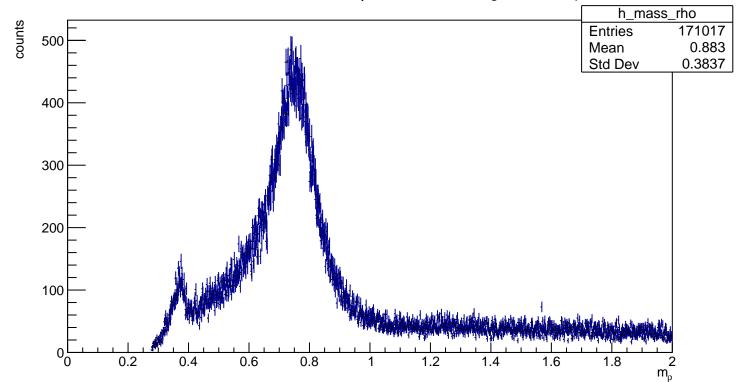
 θ vs P distribution of proton h_proton 180_F θ [deg] Entries 171017 1.024 Mean x 160 Mean y 51.19 Std Dev x 1.054 140 Std Dev y 25.76 700 120 600 100 500 80 400 60 300



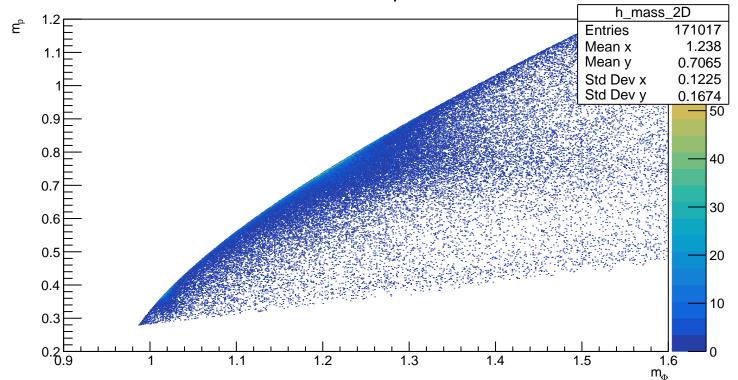
Dalitz-like plot



invariant mass of reconstructed ρ meson assuming kaons as pions



invariant mass of reconstructed ρ meson versus Φ meson



 $\Delta \, t$ of beam photons h_dt counts 40000 Entries 503239 0.06194 Mean Std Dev 10.89 35000 30000 25000 20000 15000 10000 5000 -10 -15 10 15 Δt

energy balance h_dE_ontime counts Entries 24674 0.0288 Mean 0.4163 Std Dev 6000 5000 4000 3000 2000 1000 -0.8 -0.6 -0.4 -0.2 0.2 0.4 0.6 8.0 dE[GeV]

