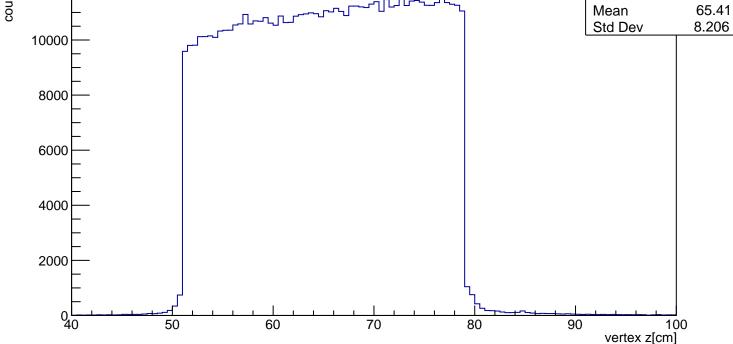
confidence level h_CL counts Entries 617699 Mean 0.4284 Std Dev 0.3222 10⁴ 0.1 0.2 0.3 0.4 0.5 0.6 0.7 8.0 0.9 CL

h_mass_phi 2000 counts/MeV 617699 **Entries** 1.125 Mean 1800 0.05803 Std Dev 1600 1400 1200 1000 800 600 400 200 8.0 0.85 0.9 0.95 1.05 1.1 1.15 m(K⁺K⁻)[GeV]

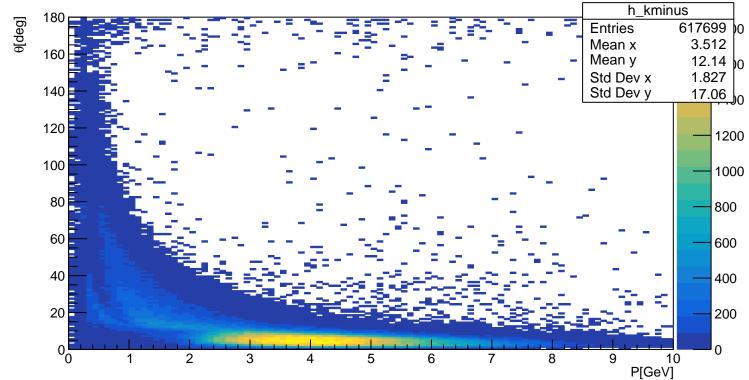
invariant mass of reconstructed Φ meson

common vertex X and Y of kinematic fitting h vertex XY 6 vertex y[cm] 617699 **Entries** 0.1431 Mean x Mean y -0.02155 00 Std Dev x 0.2457 0.2434 00 Std Dev y 16000 14000 12000 0 10000 8000 -2 6000 4000 2000 -6 -6 vertex x[cm]

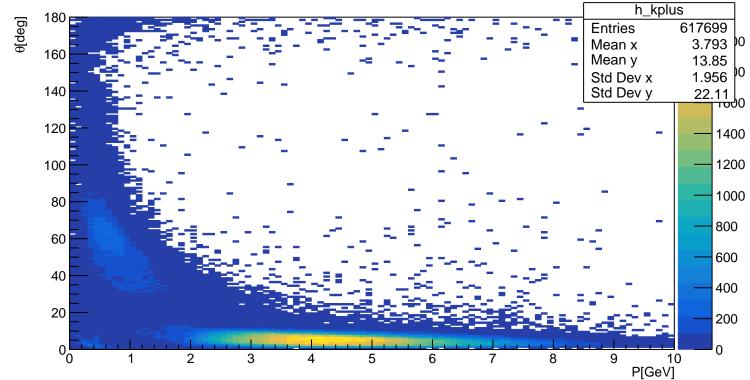
common vertex Z of kinematic fitting h_vertex_Z 12000 Entries 617699 Mean Std Dev 10000



 θ vs P distribution of K

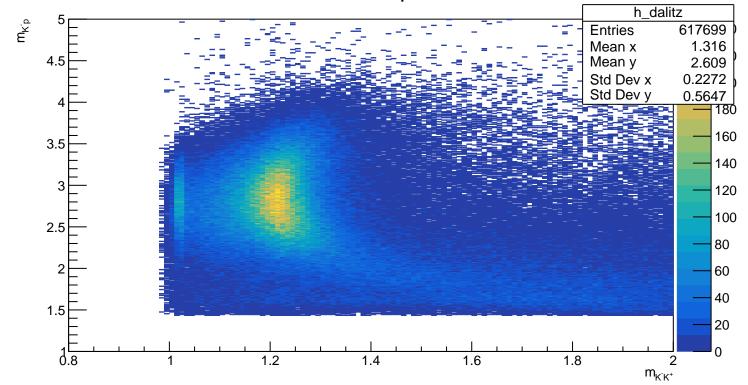


 θ vs P distribution of K⁺

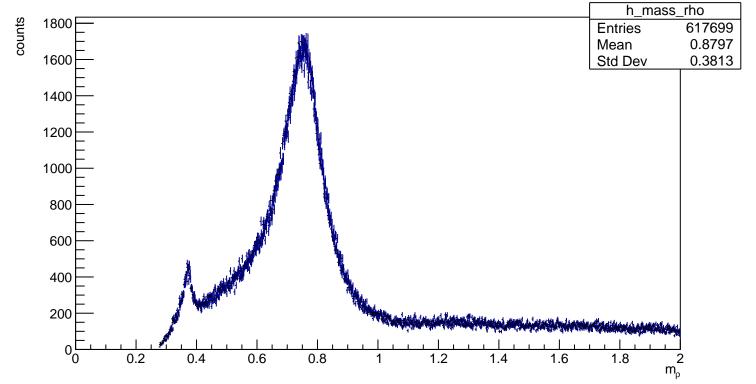


 θ vs P distribution of proton h_proton 180 θ [deg] Entries 617699 1.015 Mean x 160 51.45 Mean y Std Dev x 1.04 140 Std Dev y 25.48 2500 120 2000 100 80 1500 60 1000 40 500 20 00 5 6 P[GeV]

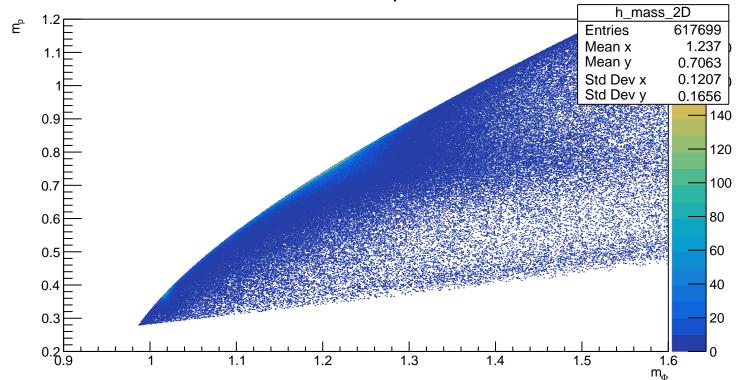
Dalitz-like plot



invariant mass of reconstructed $\boldsymbol{\rho}$ meson assuming kaons as pions



invariant mass of reconstructed ρ meson versus Φ meson



 $\Delta \, t$ of beam photons ×10³ h_dt counts Entries 1818838 140 0.02911 Mean 10.88 Std Dev 120 100 80 60 40 20 -10 -15 -5 10 15 Δt

energy balance h_dE_ontime counts 25000 F Entries 90292 0.0265 Mean 0.4104 Std Dev 20000 15000 10000 5000 -0.8 -0.2 -0.6-0.40.2 0.4 0.6 8.0 dE[GeV]

