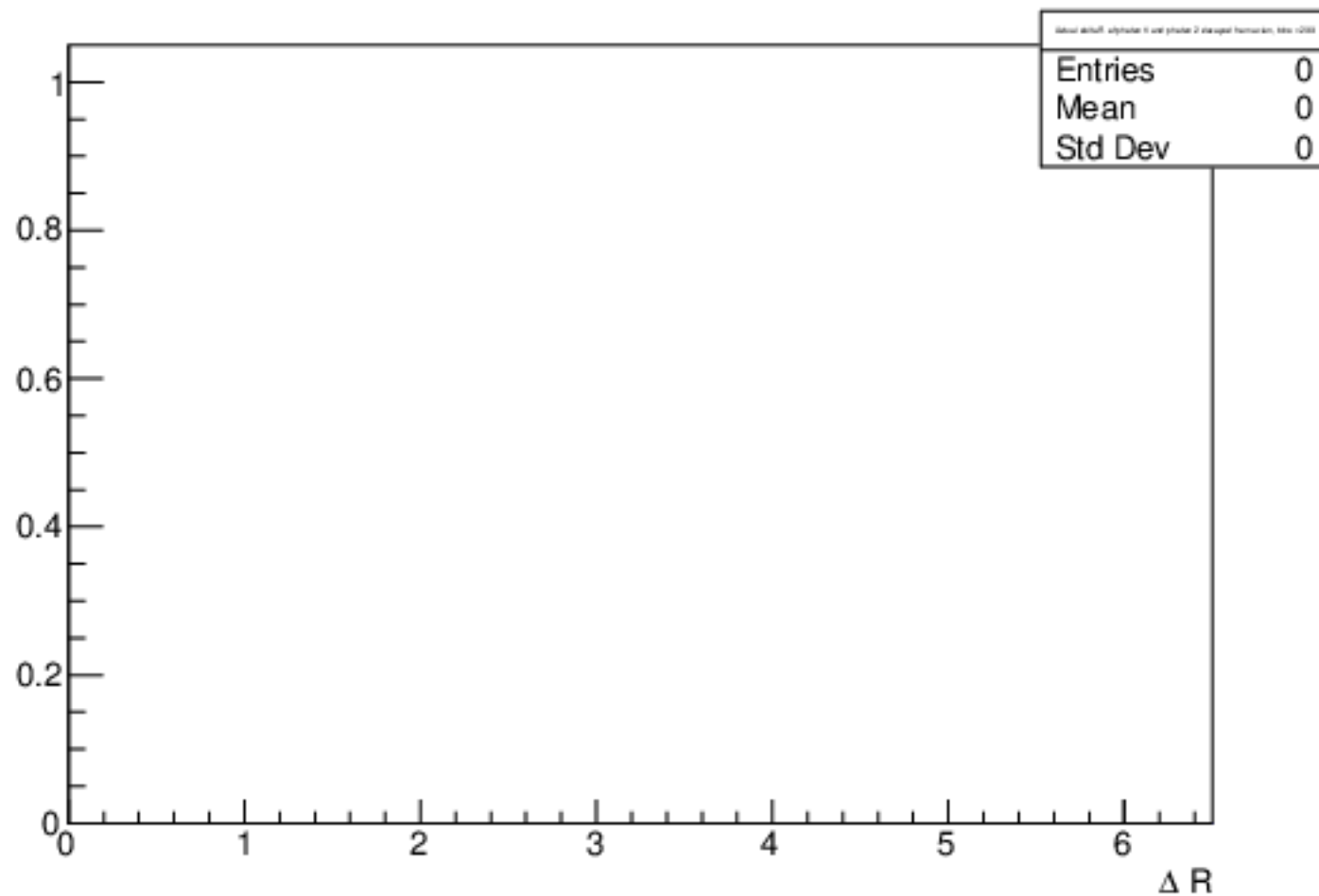
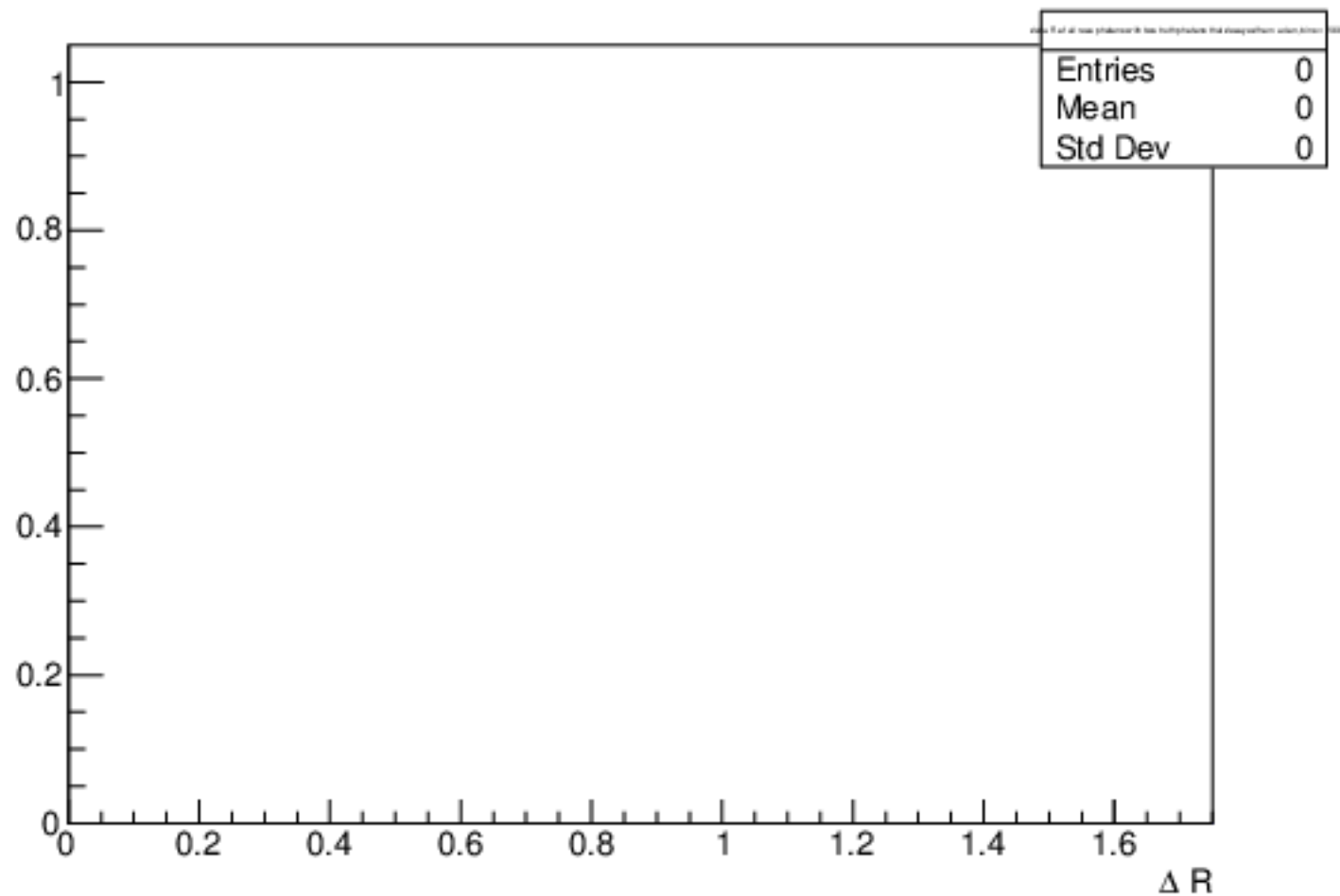


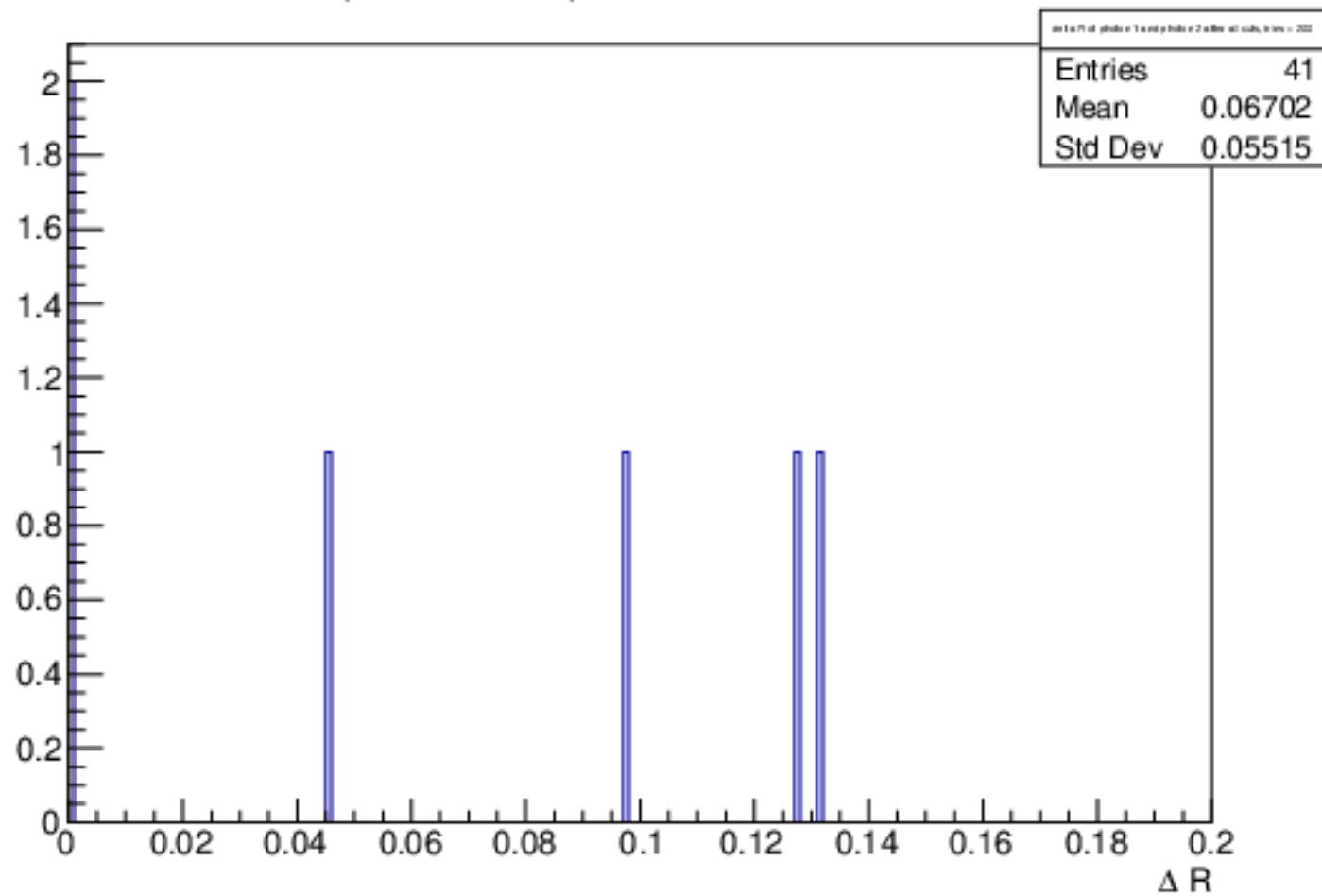
Actual delta R of photon 1 and photon 2 decayed from axion, bins = 200



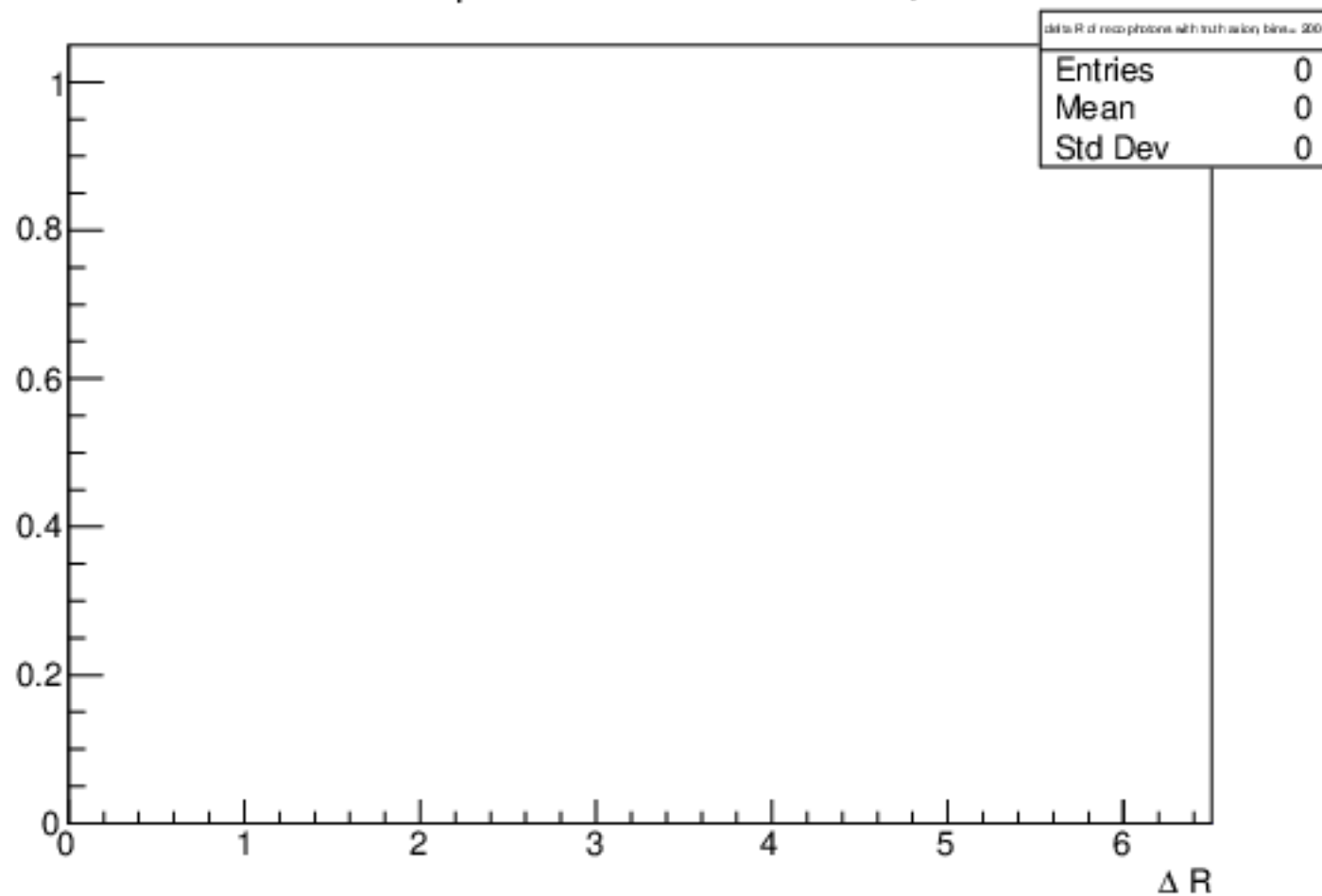
delta R of all reco photons with two truth photons that decayed from axion, bins = 200



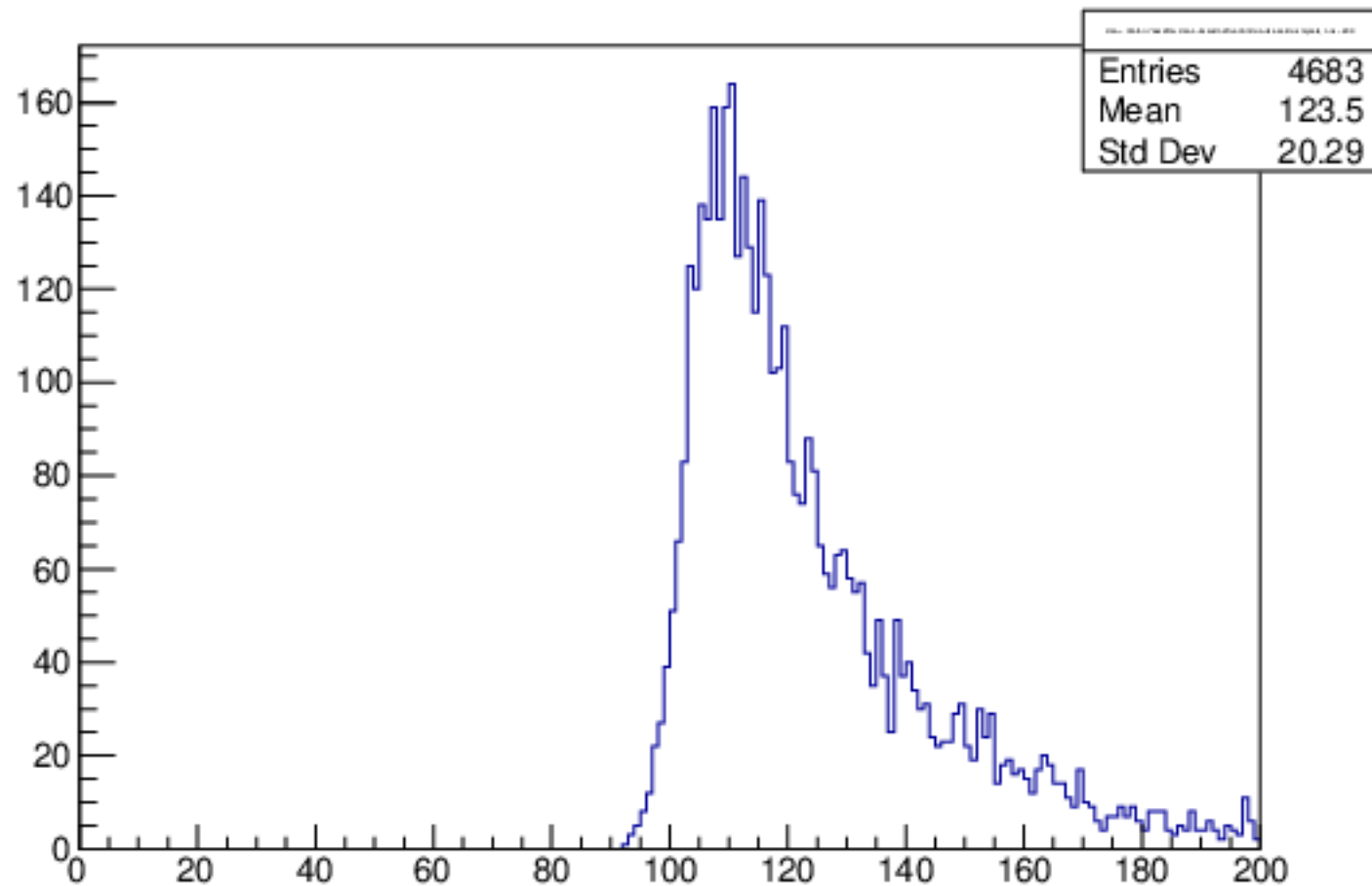
delta R of photon 1 and photon 2 after all cuts, bins = 200



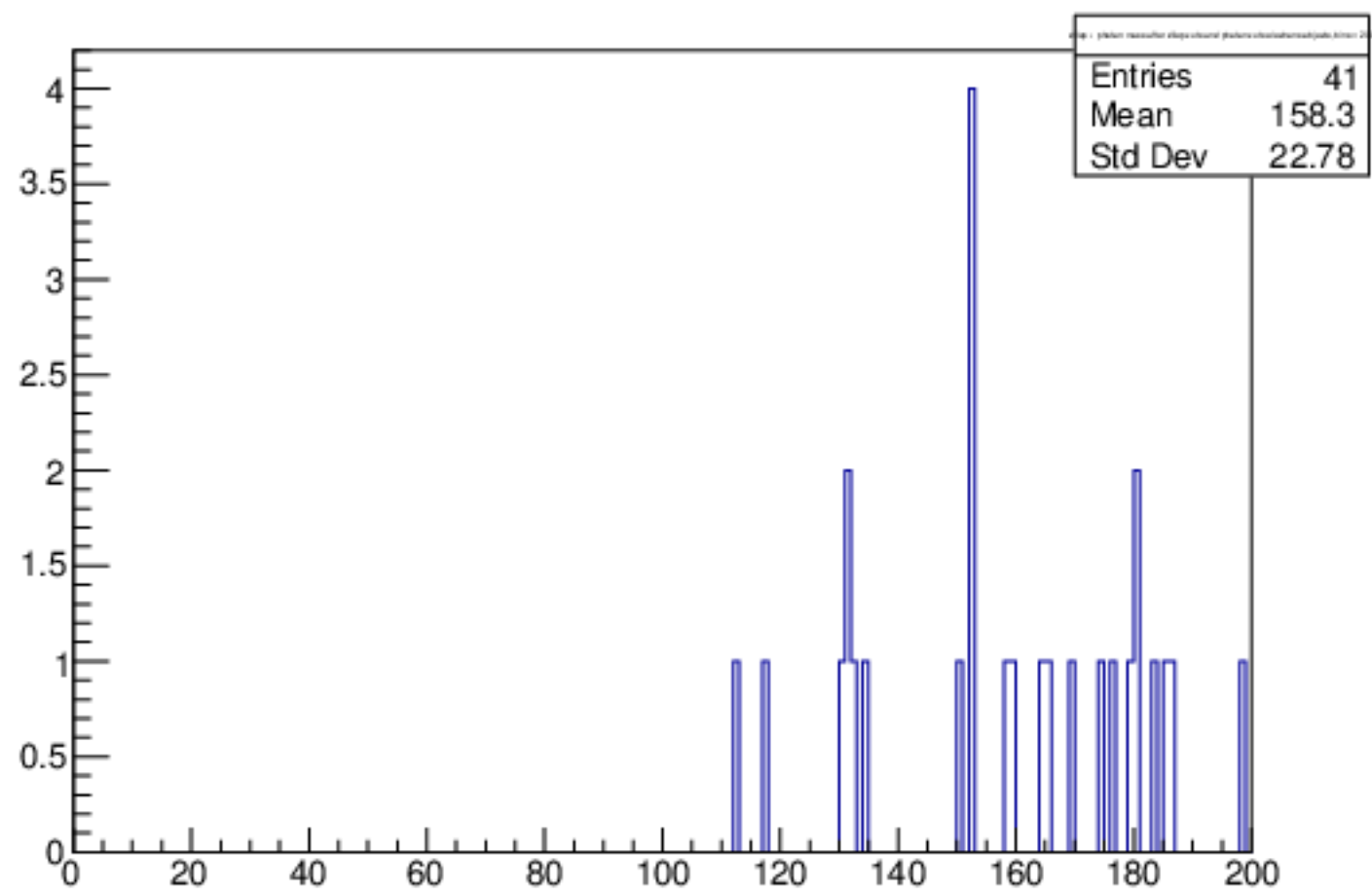
delta R of reco photons with truth axion, bins = 200



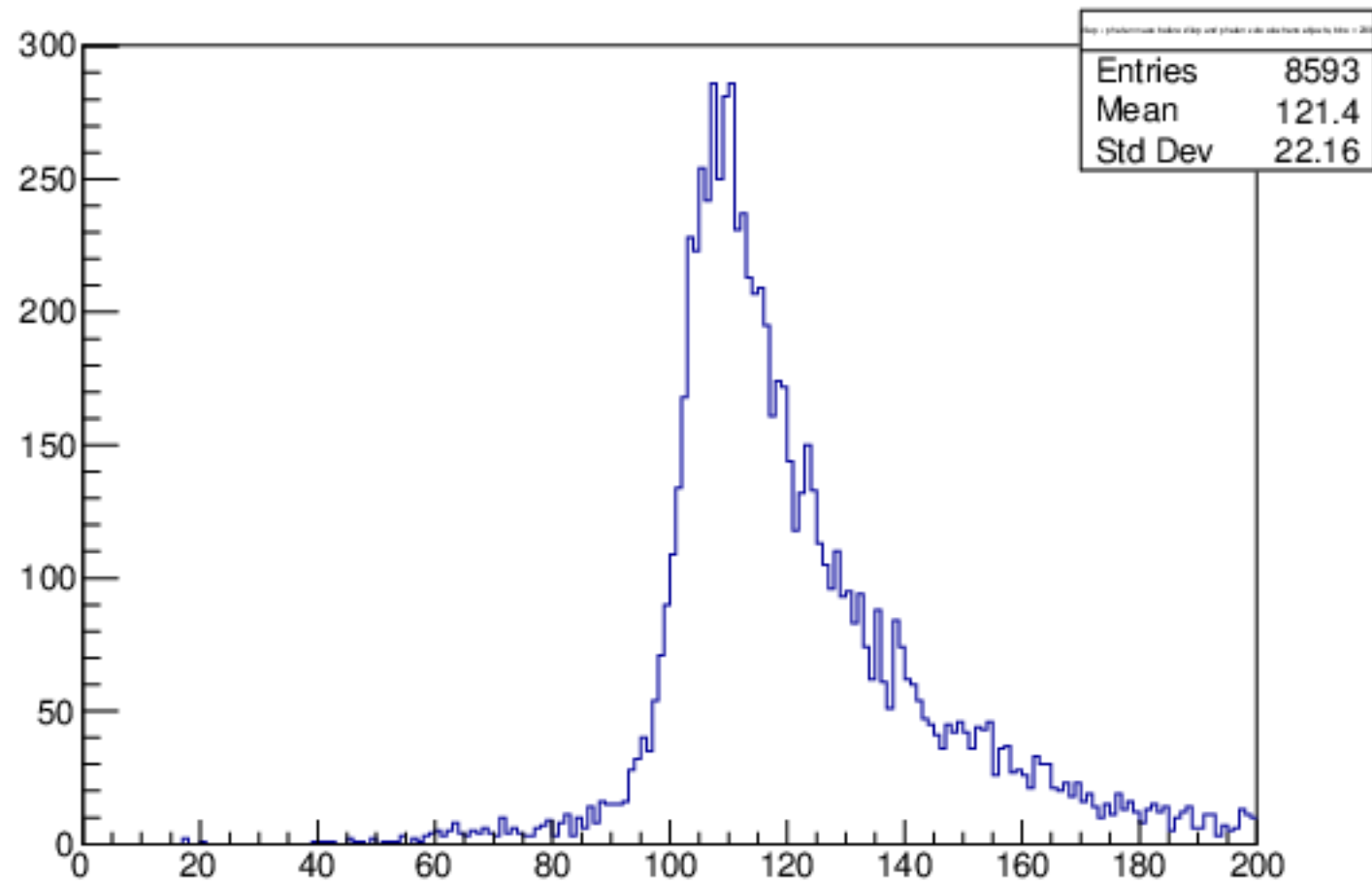
dilep + photon mass after dilep cuts and before photon cuts electrons objects, bins = 200



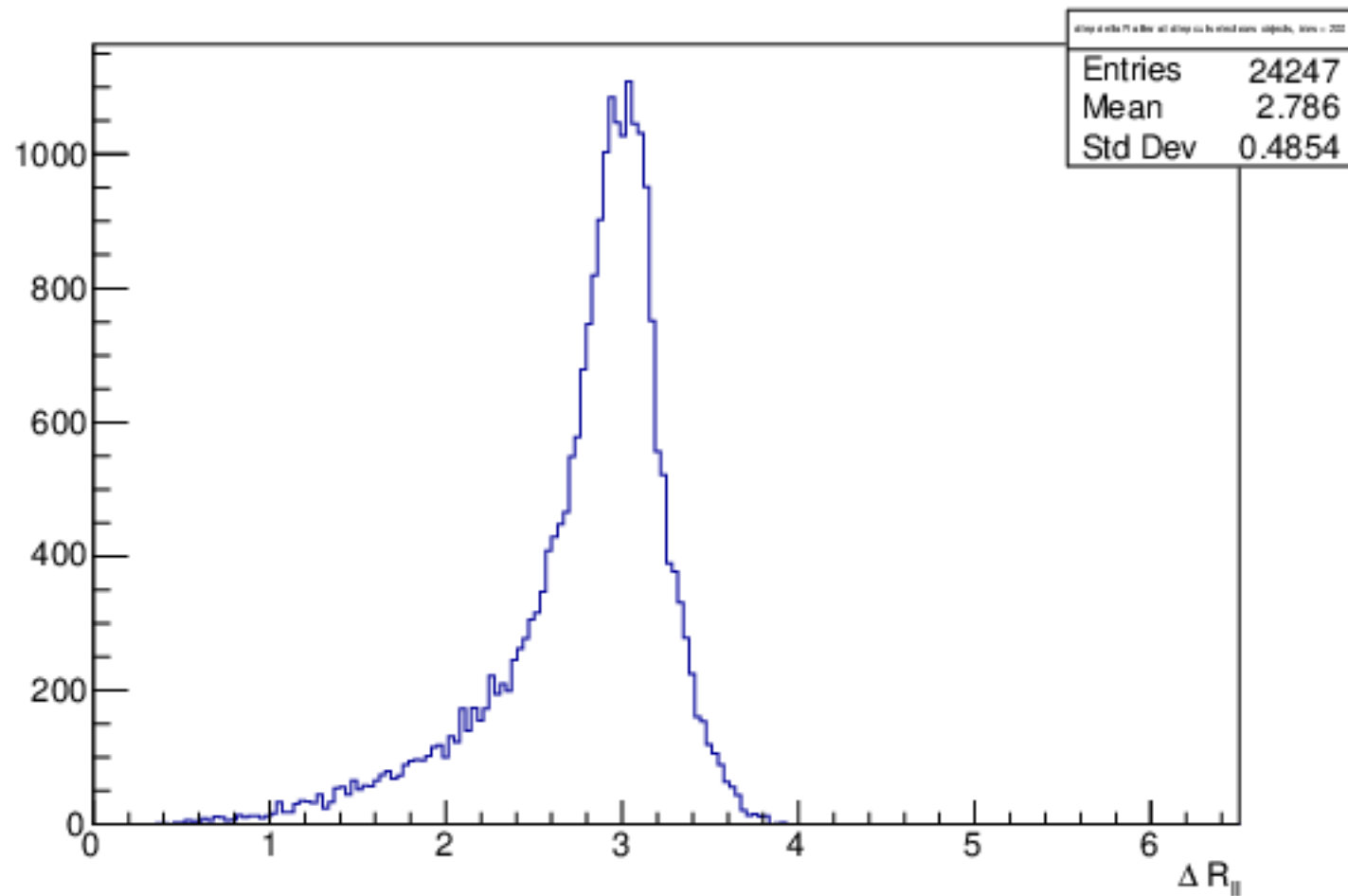
dilep + photon mass after dilep cuts and photon cuts electrons objects, bins = 200



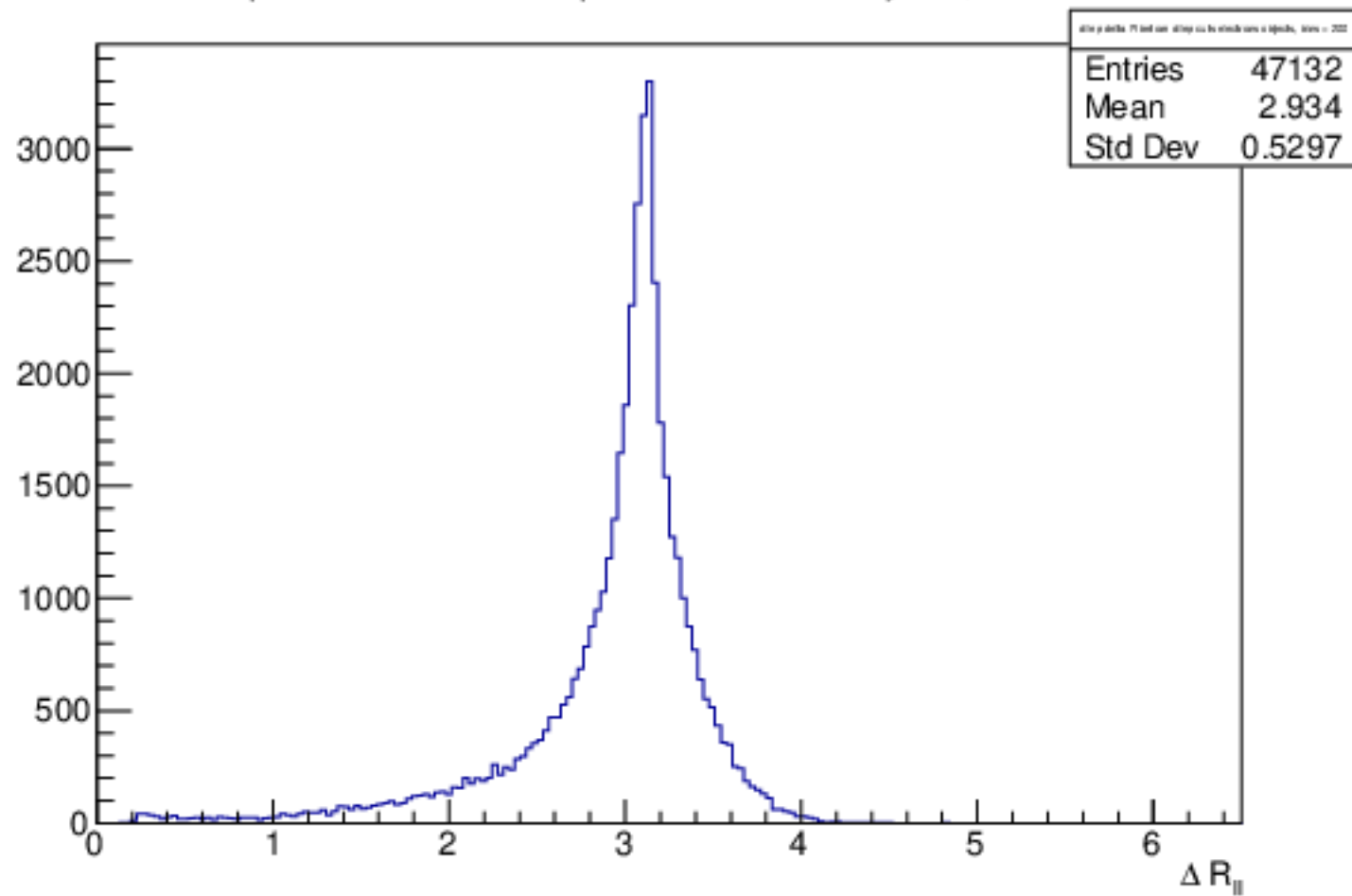
dilep + photon mass before dilep and photon cuts electrons objects, bins = 200



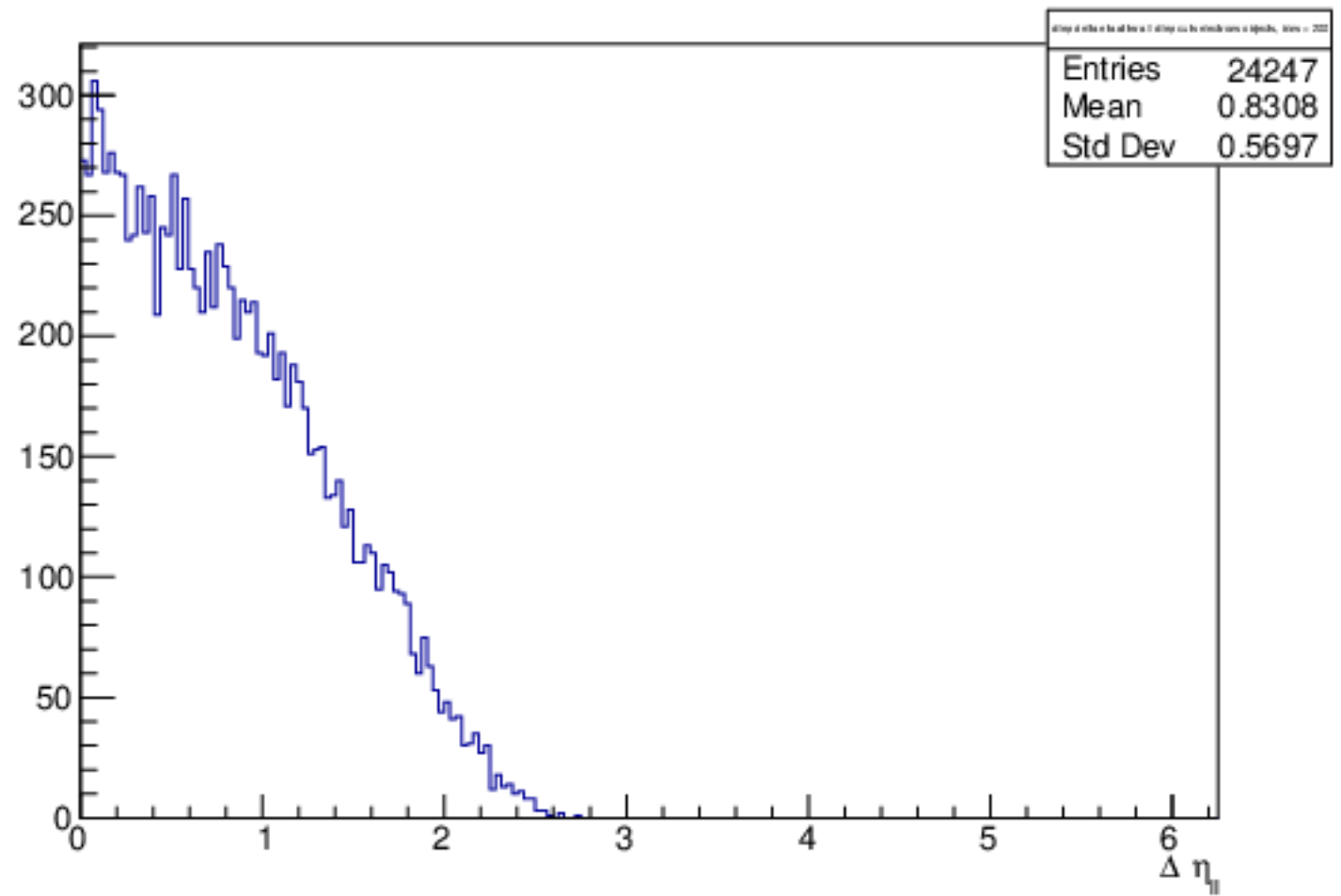
dilep delta R after all dilep cuts electrons objects, bins = 200



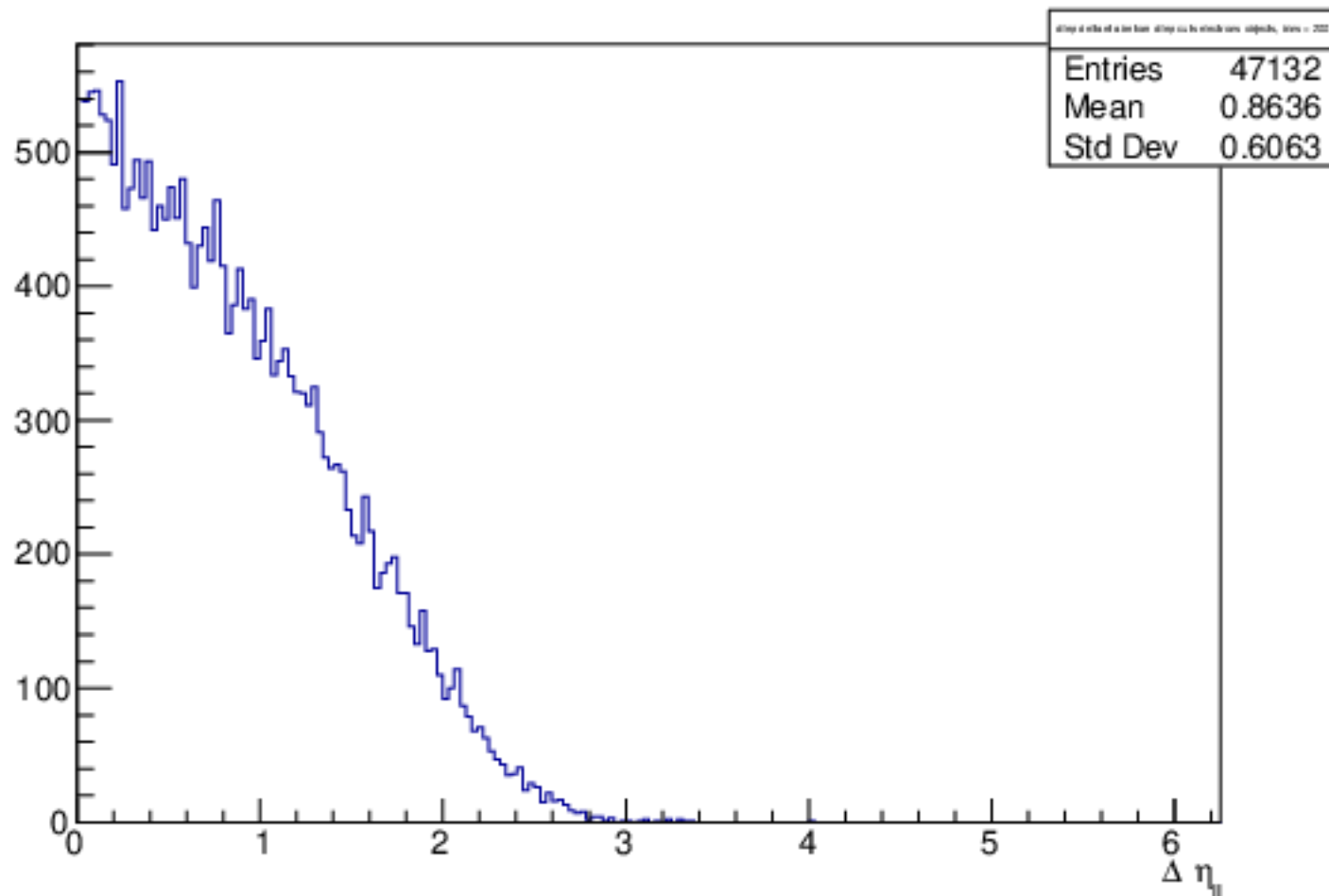
dilep delta R before dilep cuts electrons objects, bins = 200



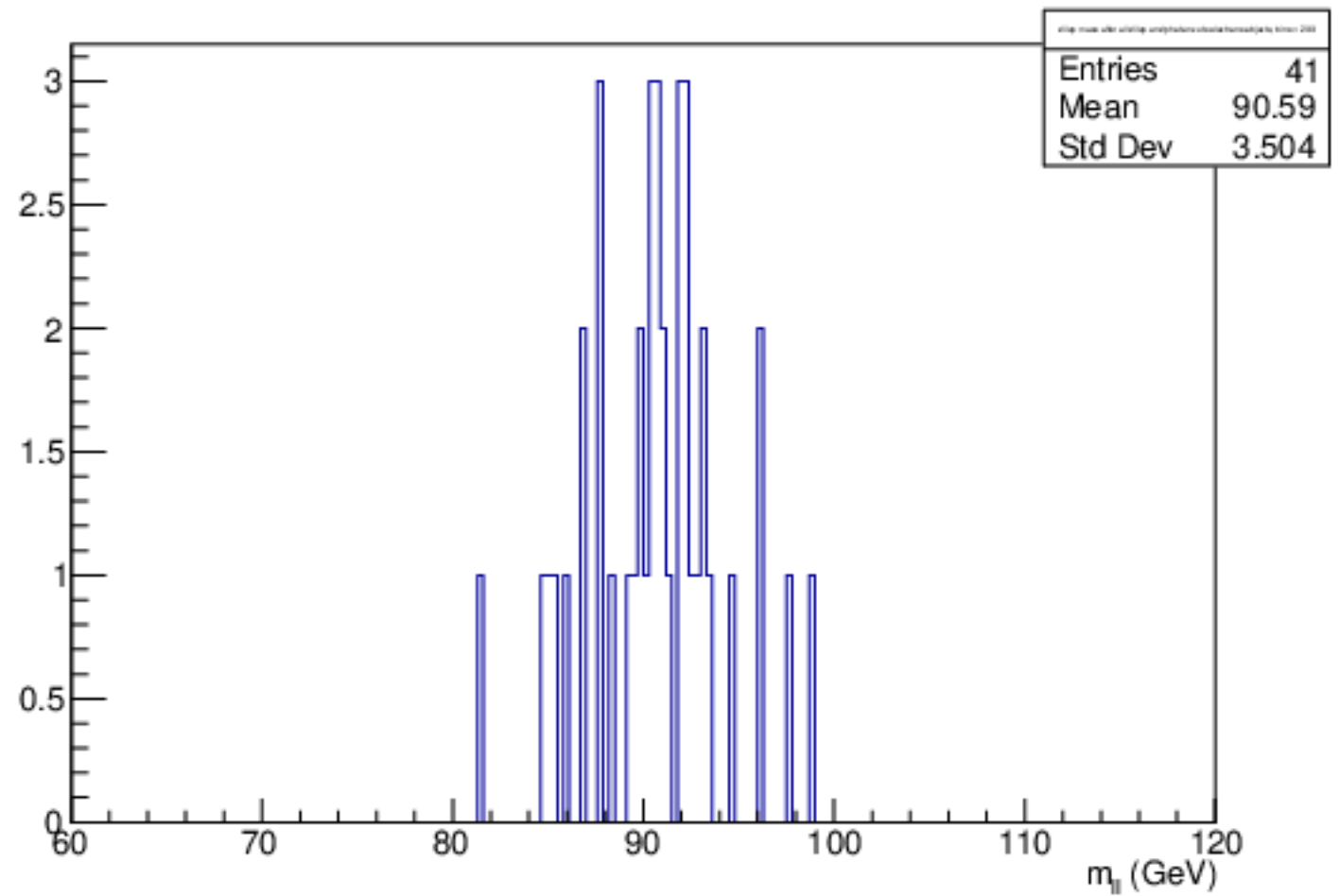
dilep delta eta after all dilep cuts electrons objects, bins = 200



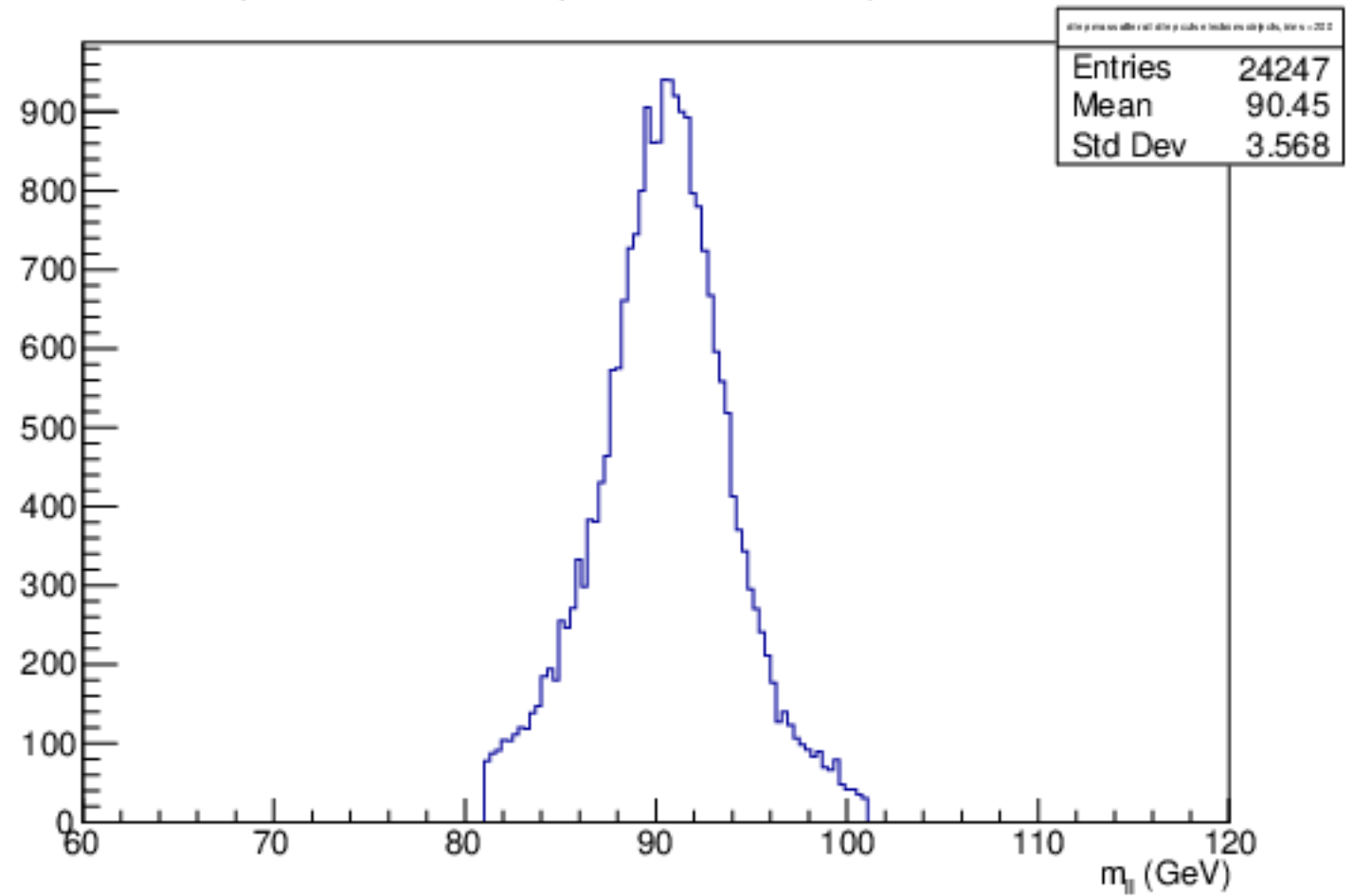
dilep delta eta before dilep cuts electrons objects, bins = 200



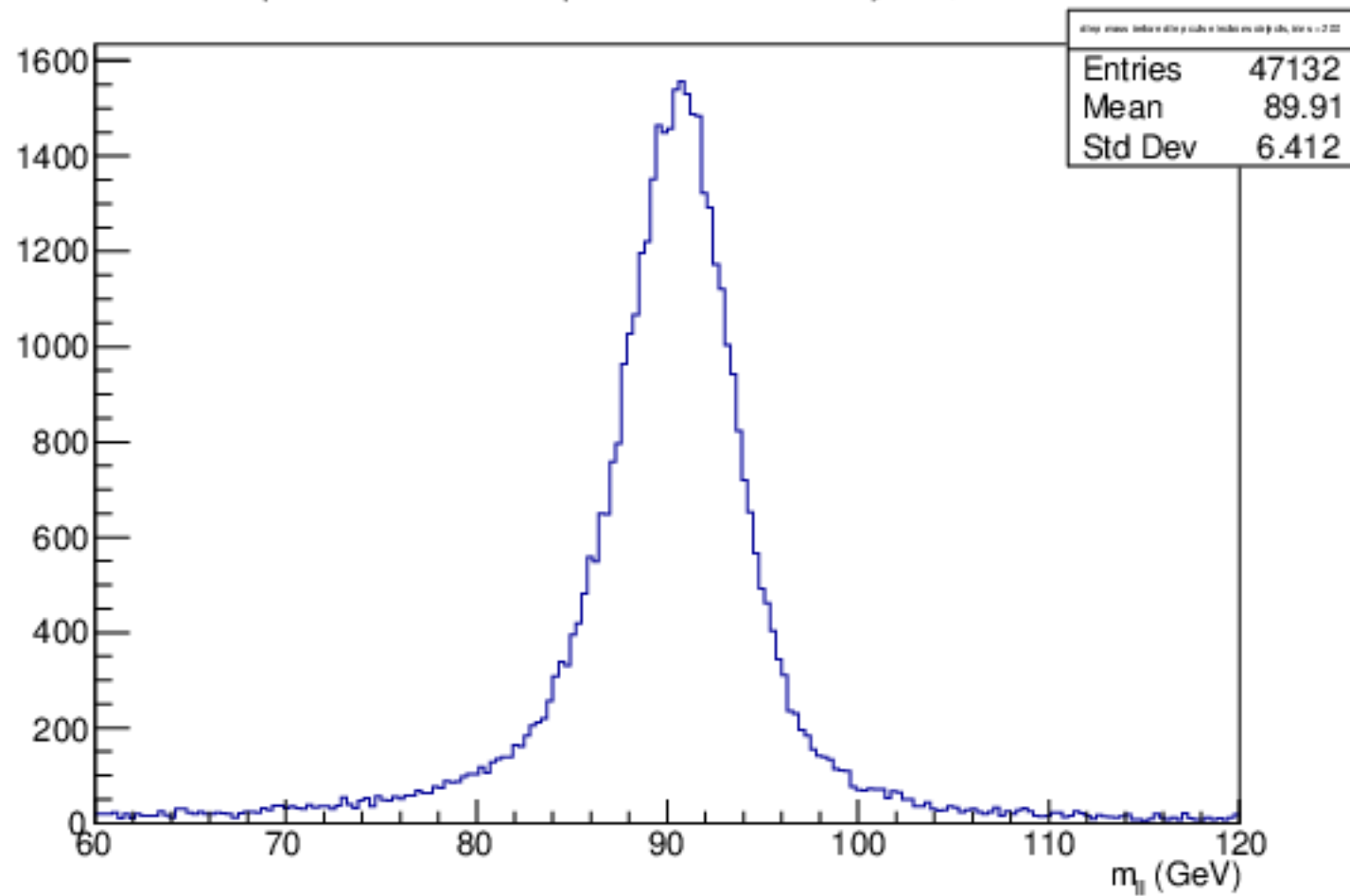
dilep mass after all dilep and photon cuts electrons objects, bins = 200



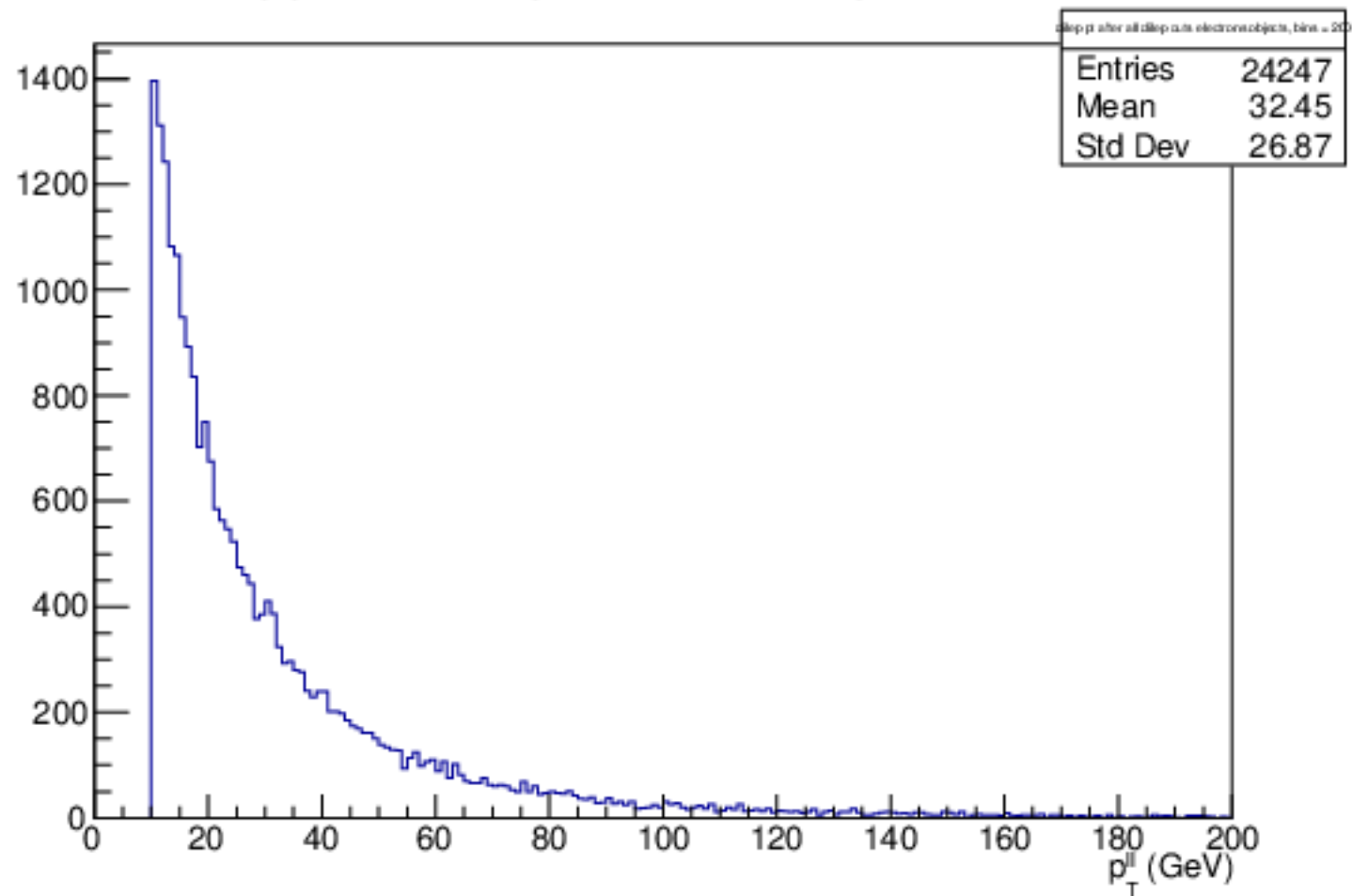
dilep mass after all dilep cuts electrons objects, bins = 200



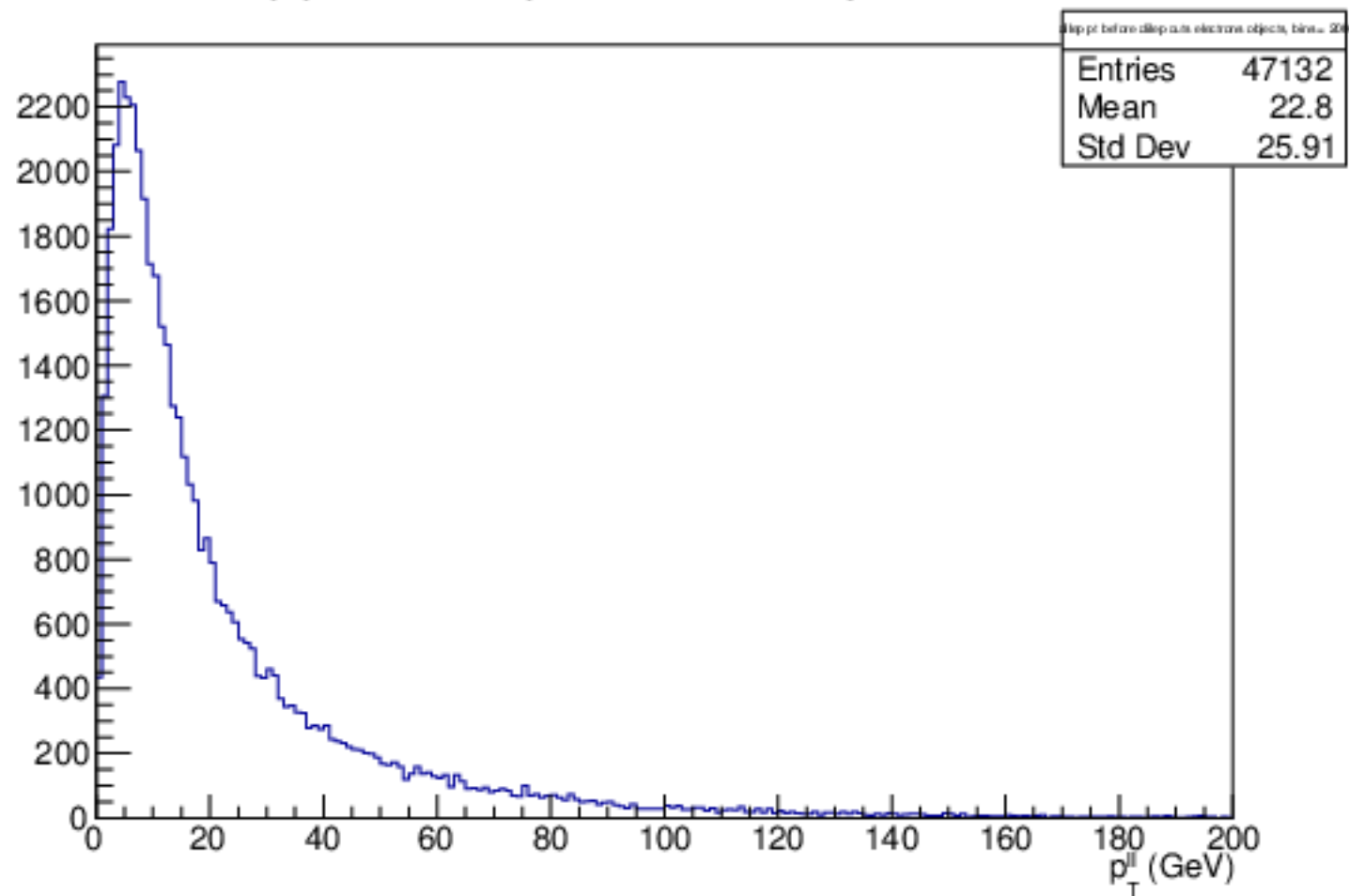
dilep mass before dilep cuts electrons objects, bins = 200



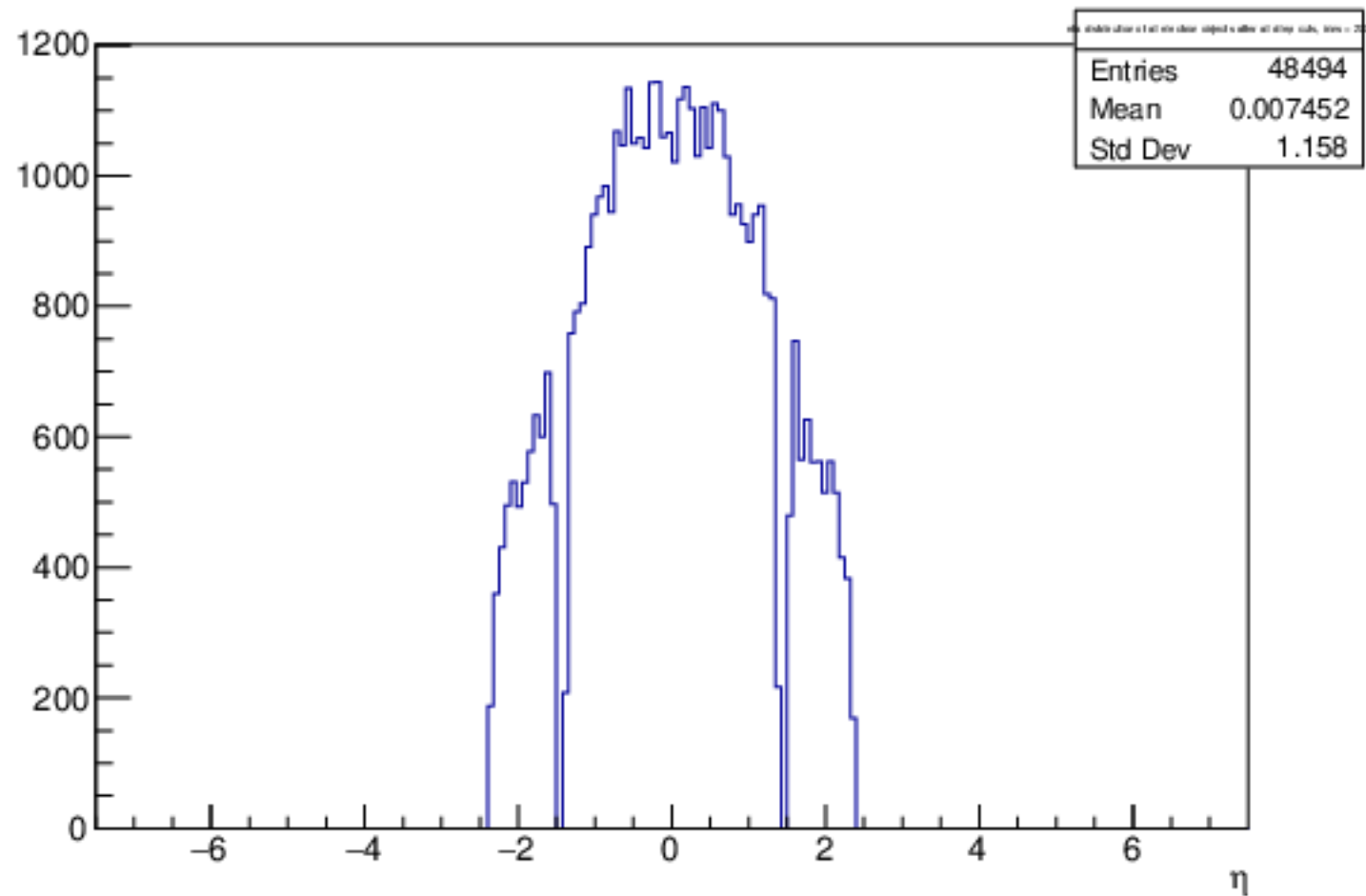
dilep pt after all dilep cuts electrons objects, bins = 200



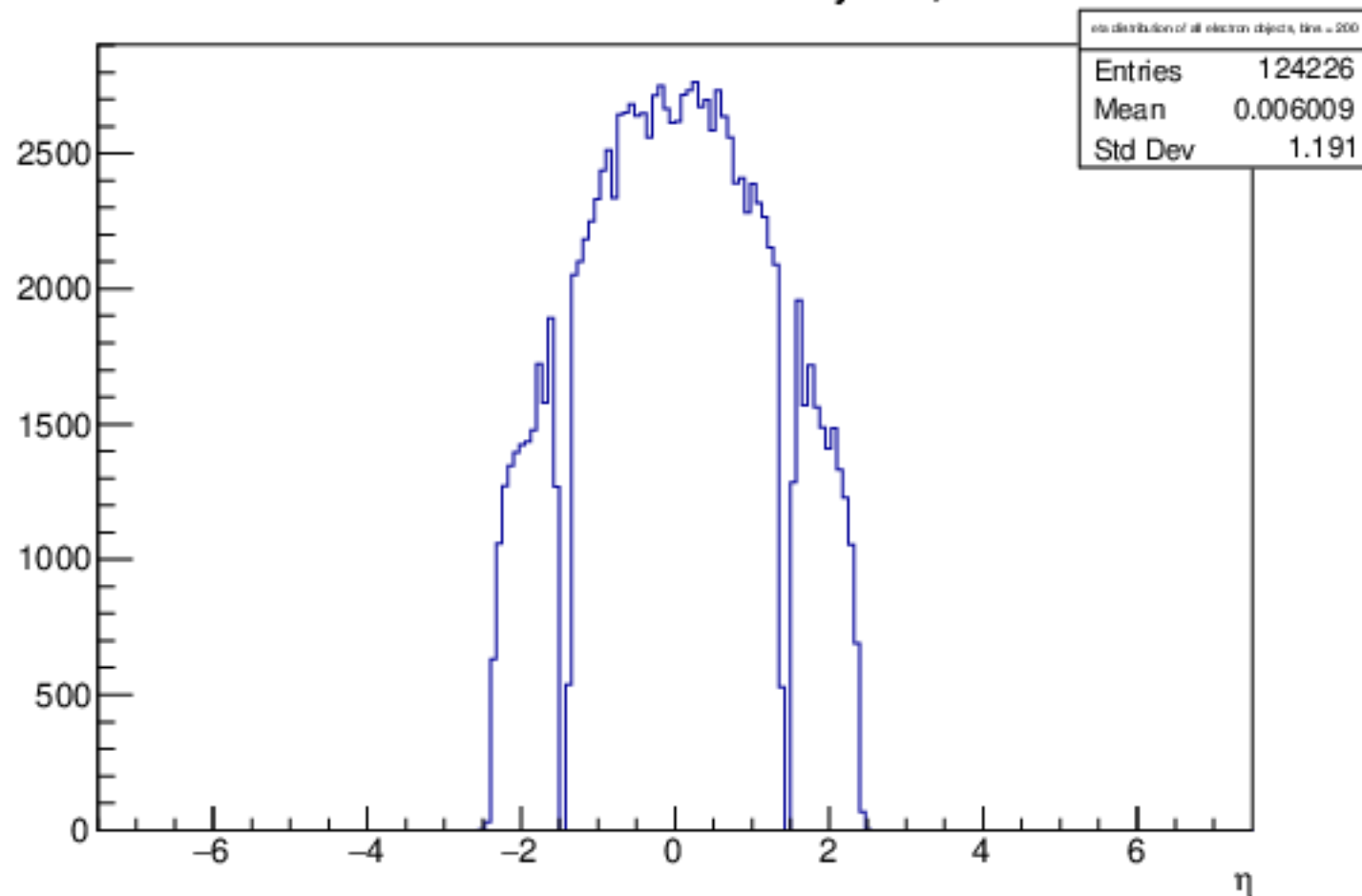
dilep pt before dilep cuts electrons objects, bins = 200



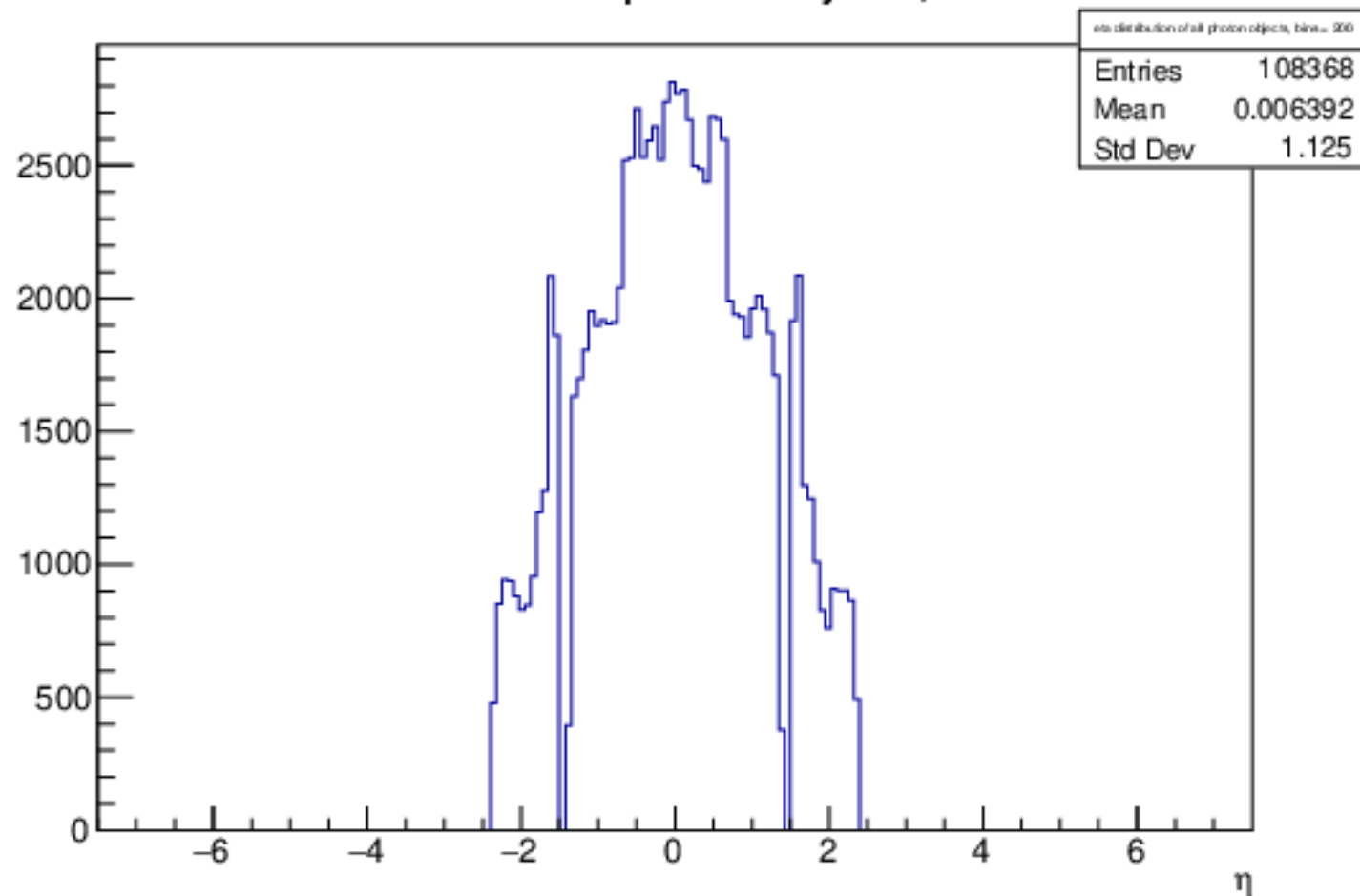
eta distribution of all electron objects after all dilep cuts, bins = 200



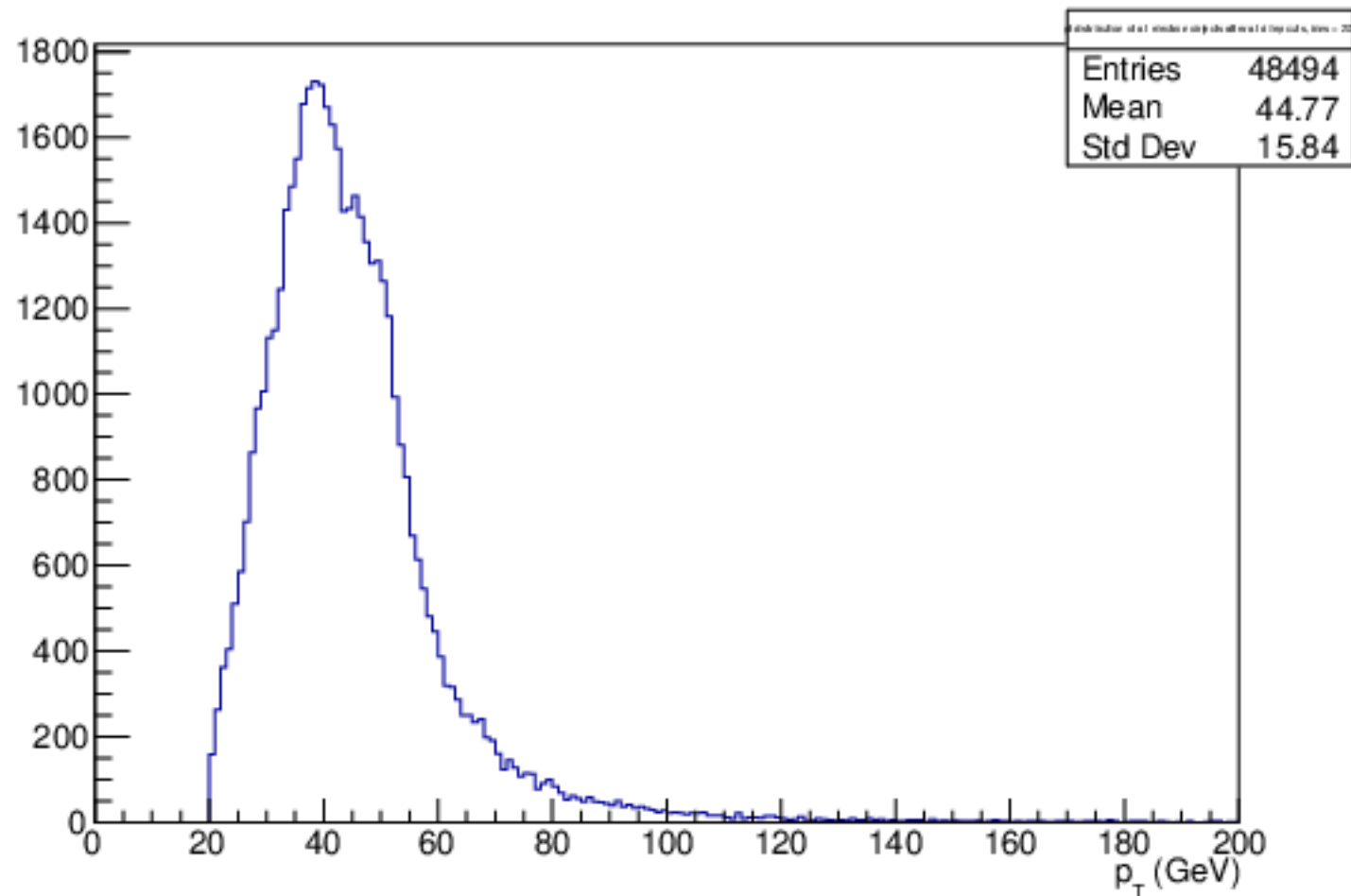
eta distribution of all electron objects, bins = 200



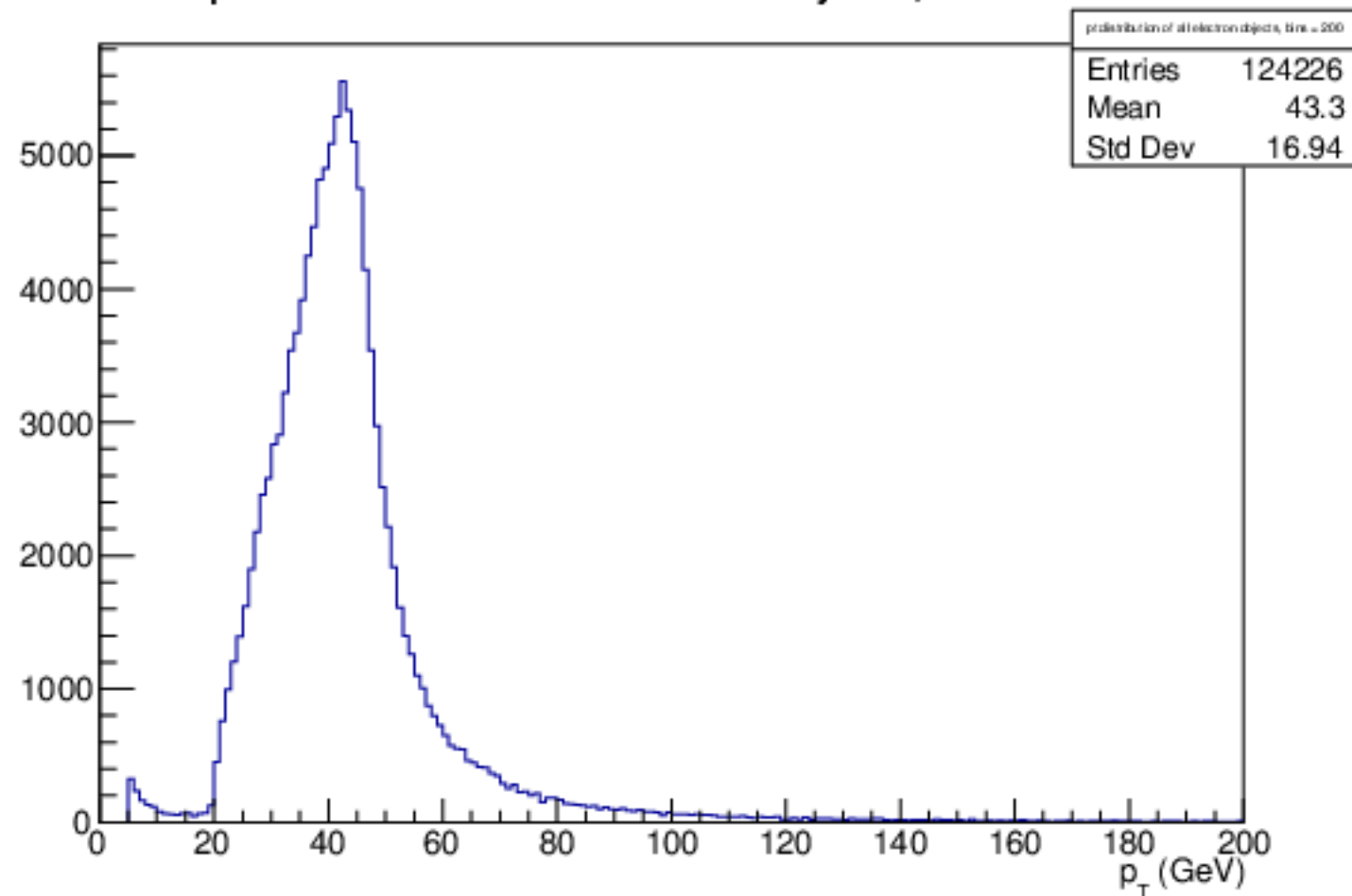
eta distribution of all photon objects, bins = 200



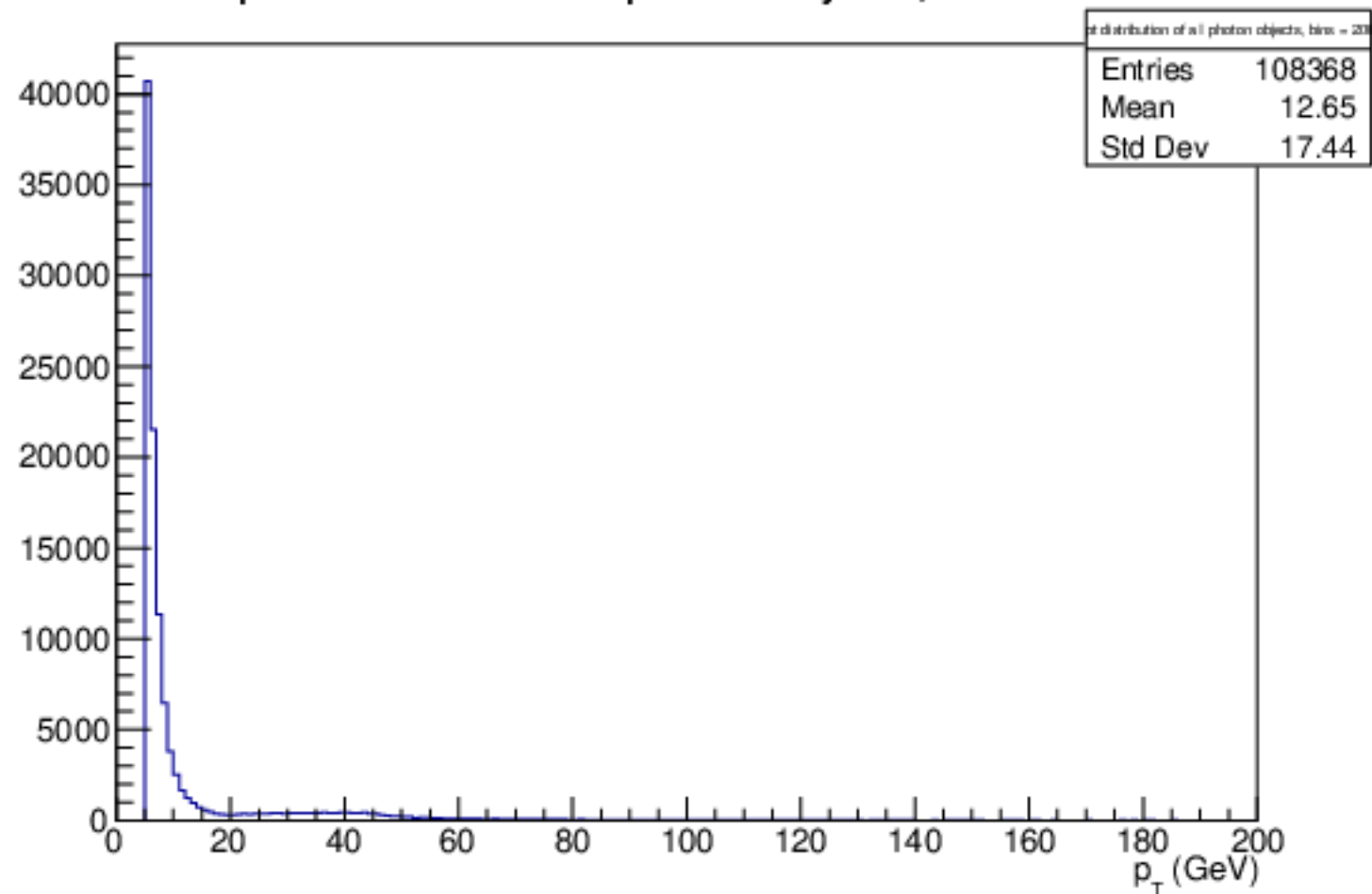
pt distribution of all electron objects after all dilep cuts, bins = 200



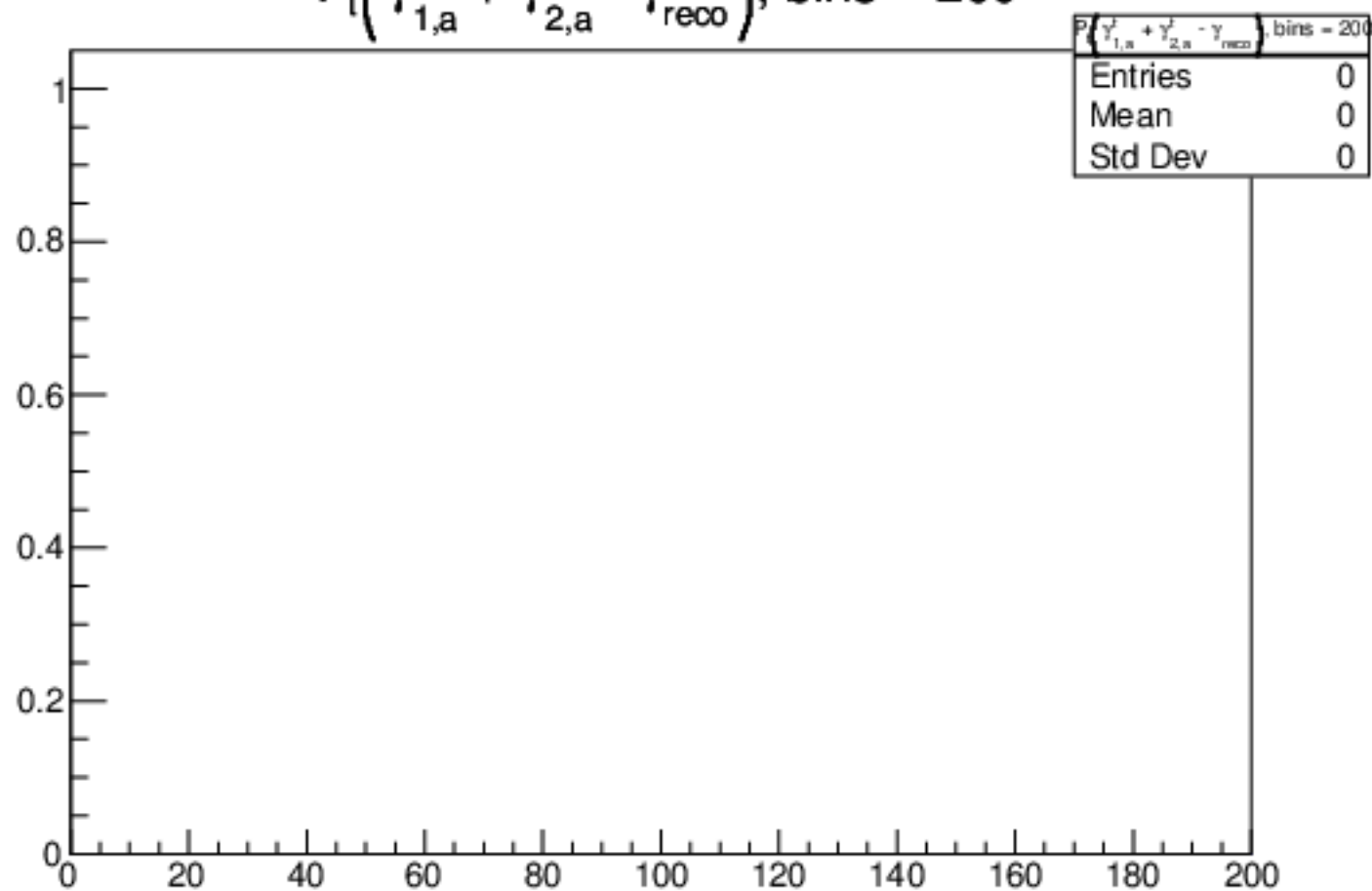
pt distribution of all electron objects, bins = 200



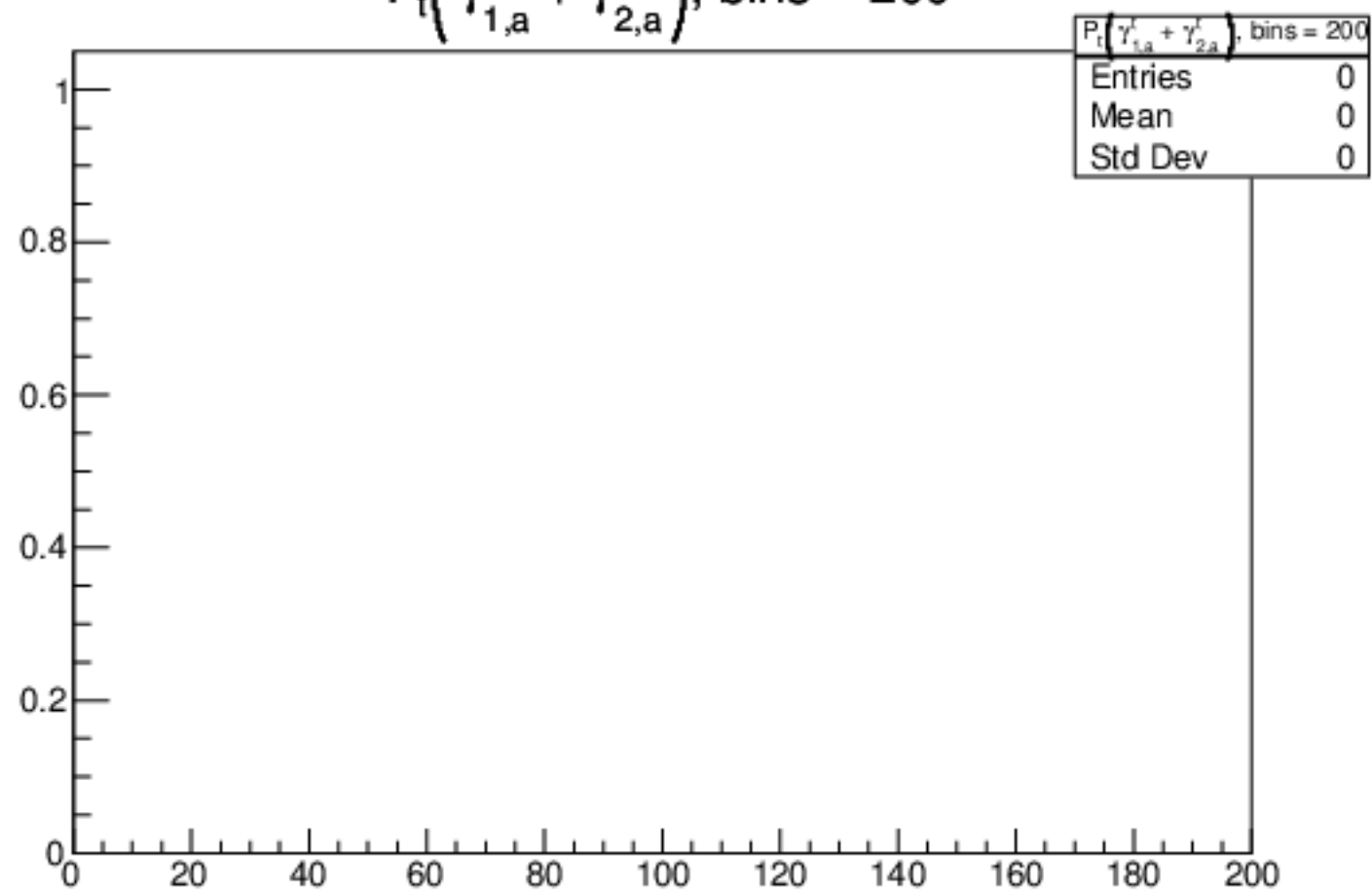
pt distribution of all photon objects, bins = 200



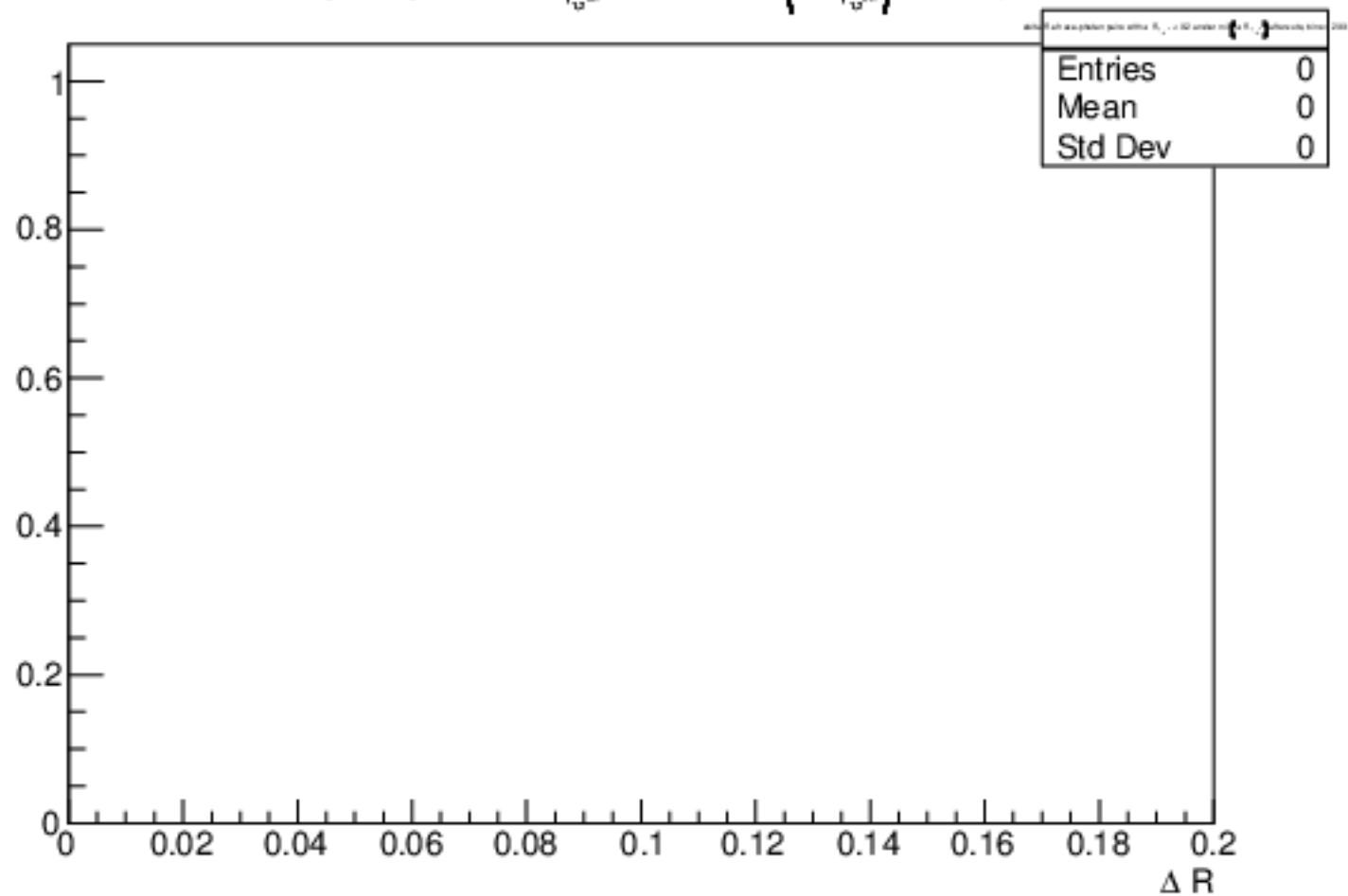
$$P_t(\gamma_{1,a}^t + \gamma_{2,a}^t - \gamma_{reco}), \text{ bins} = 200$$



$P_t(\gamma_{1,a}^t + \gamma_{2,a}^t)$, bins = 200



delta R of reco-photon pairs with $\Delta R_{\gamma,\gamma} < 0.2$ and/or $\min\{\Delta R_{\gamma,\gamma}\}$ after cuts, bins = 200



delta R of reco-photon pairs with $\Delta R_{\gamma_{1,2}^{\text{reco}}} < 0.2$ and/or $\min\{\Delta R_{\gamma_{1,2}^{\text{reco}}}\}$, bins = 200

