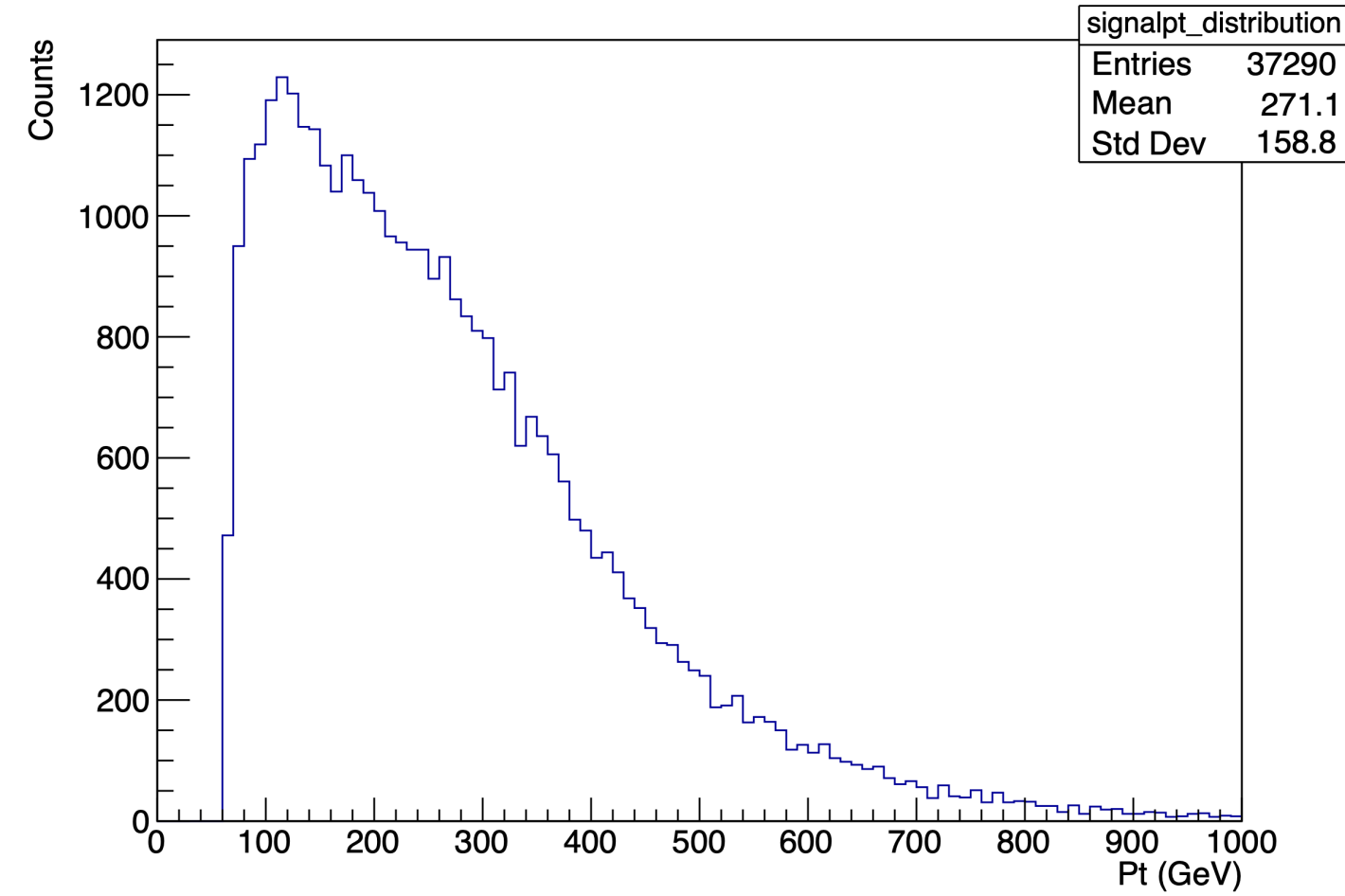
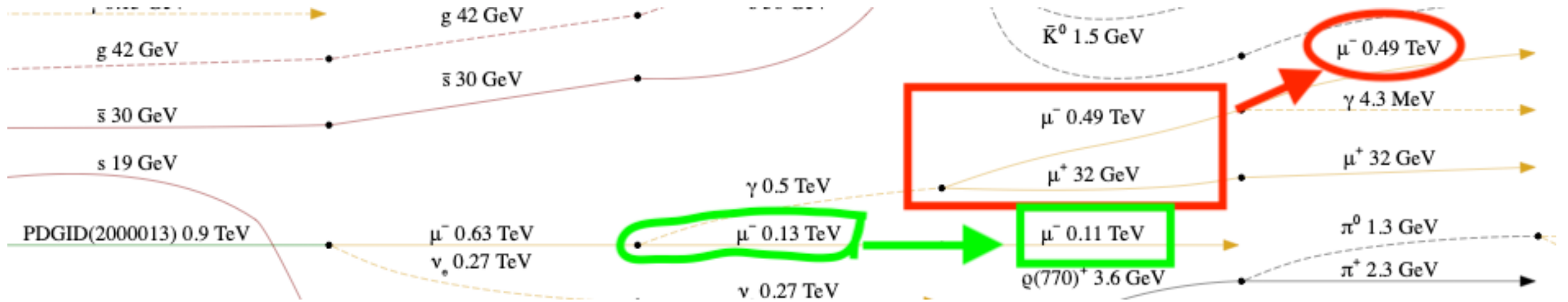
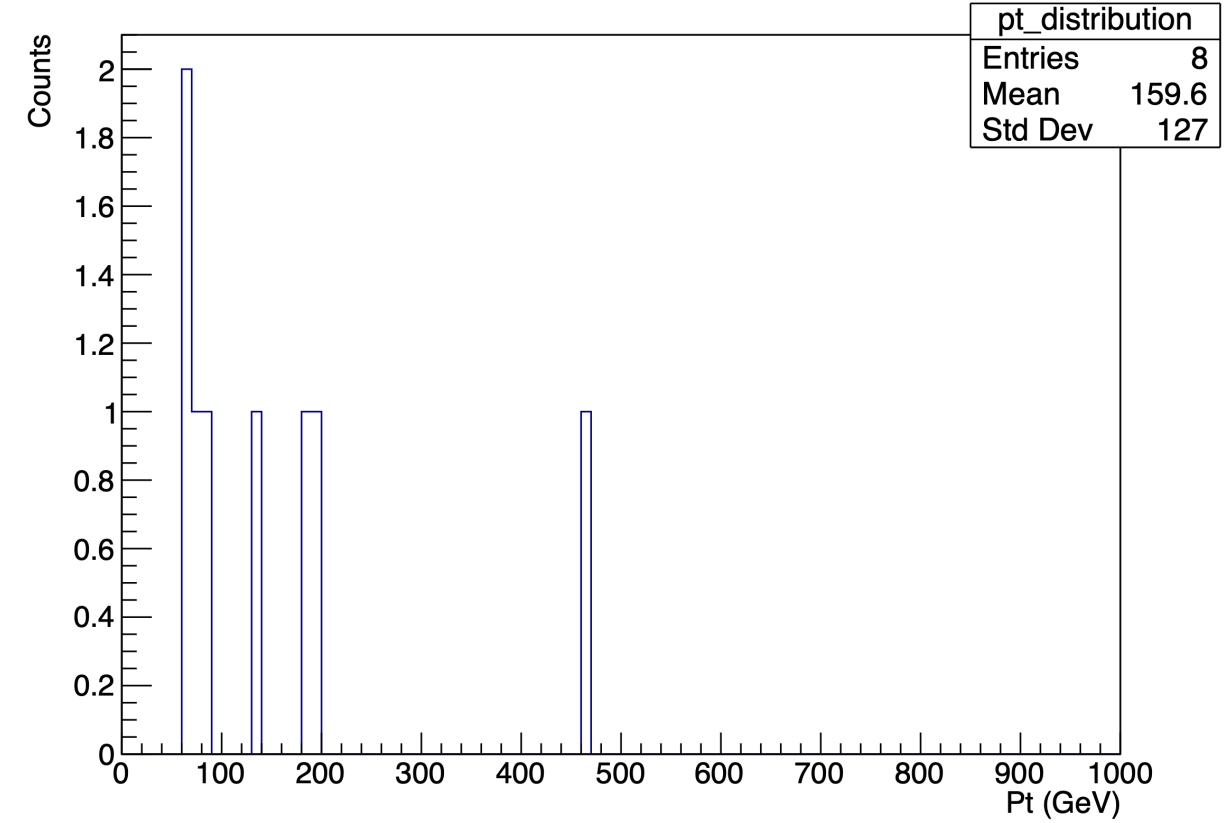


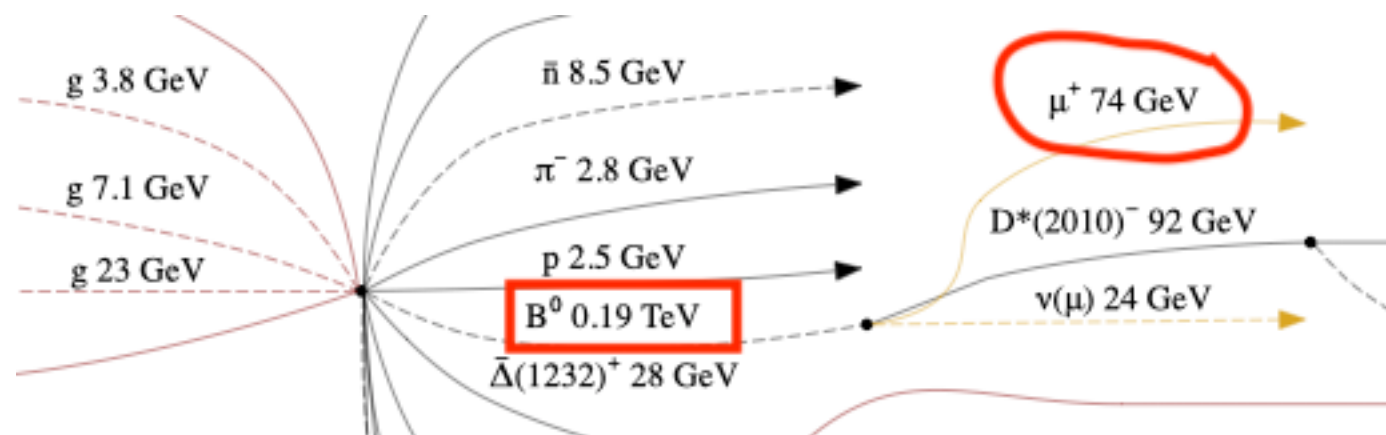
Smuons produced Muons Pt > 65 GeV Distribution



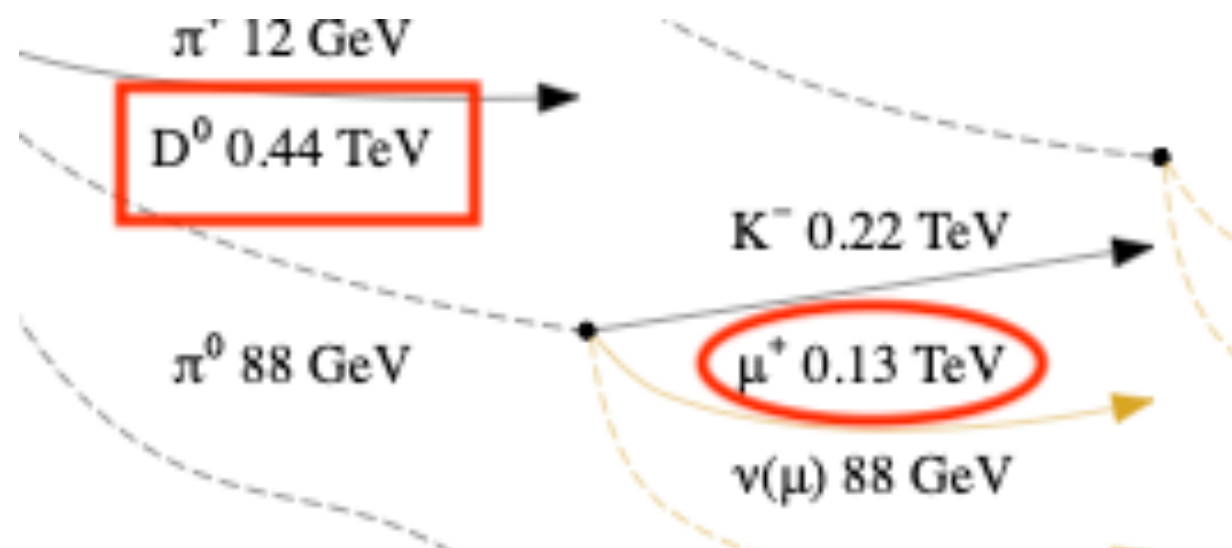
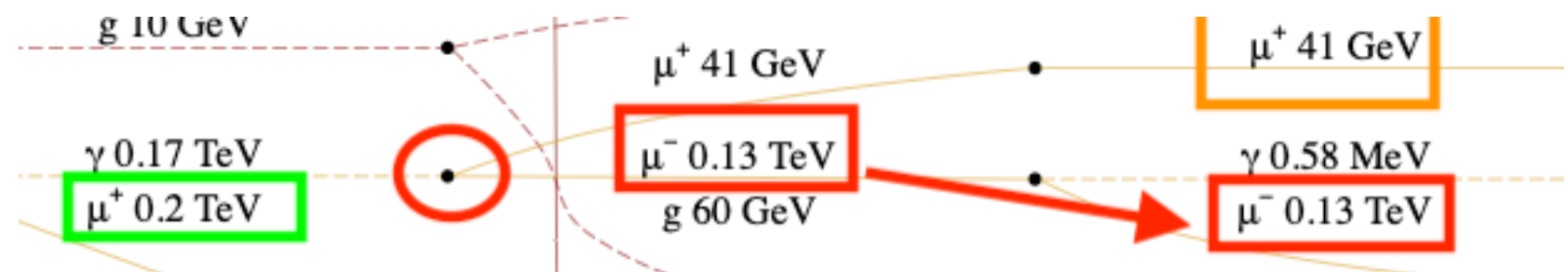
Other Signal Muons Pt > 65 GeV Distribution



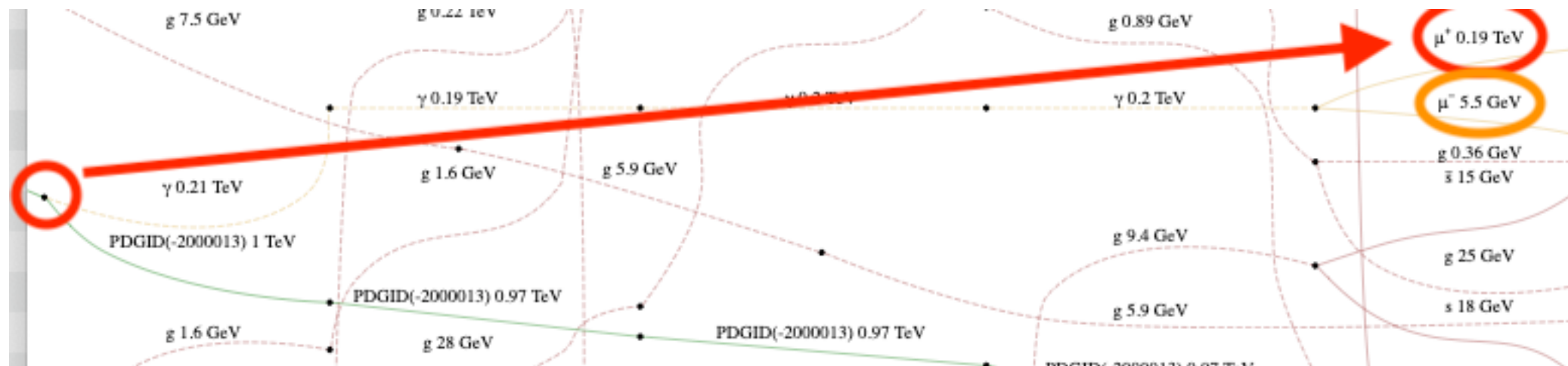
Other events with muons of $P_t > 65$ GeV



Pair-production



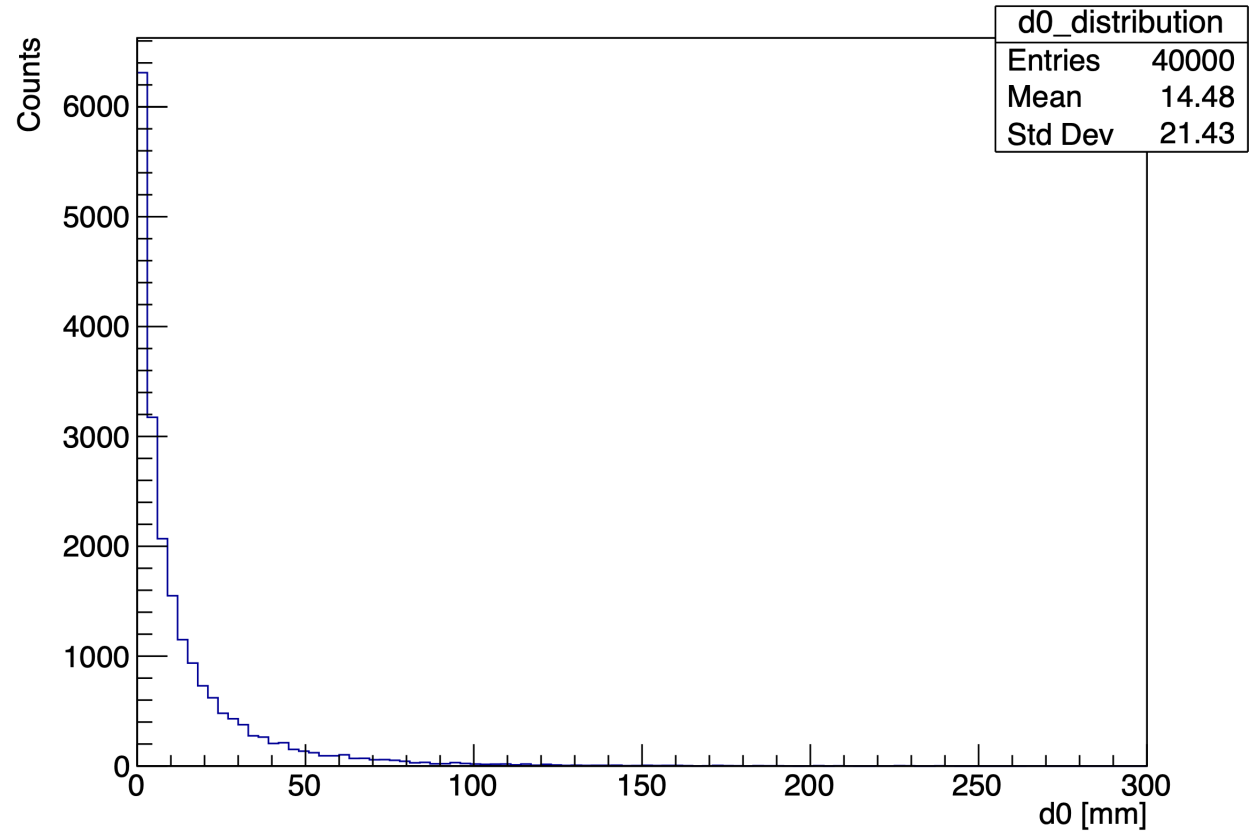
This one is produced by a photon emitted by the anti-smuon itself during showering



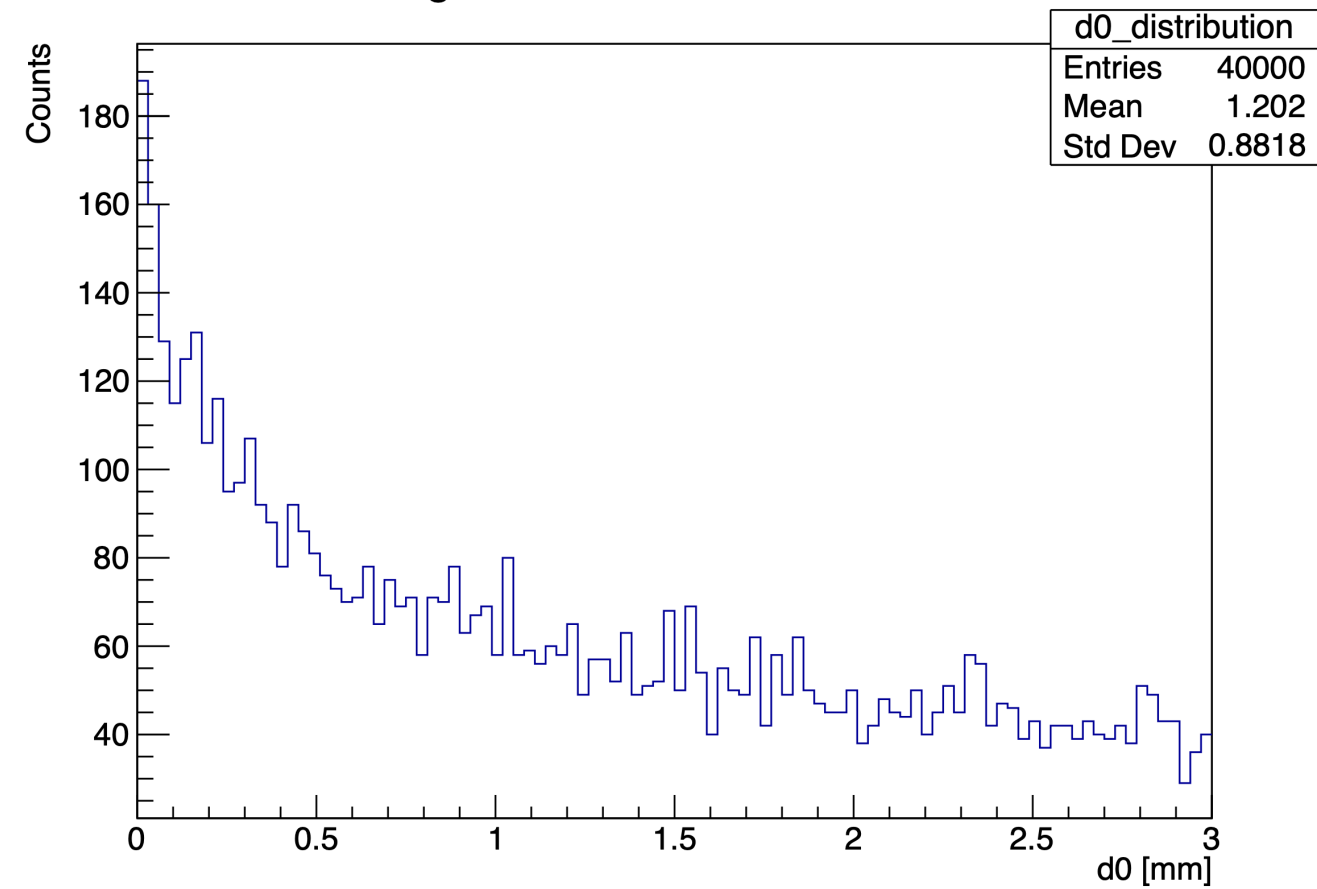
A closer look



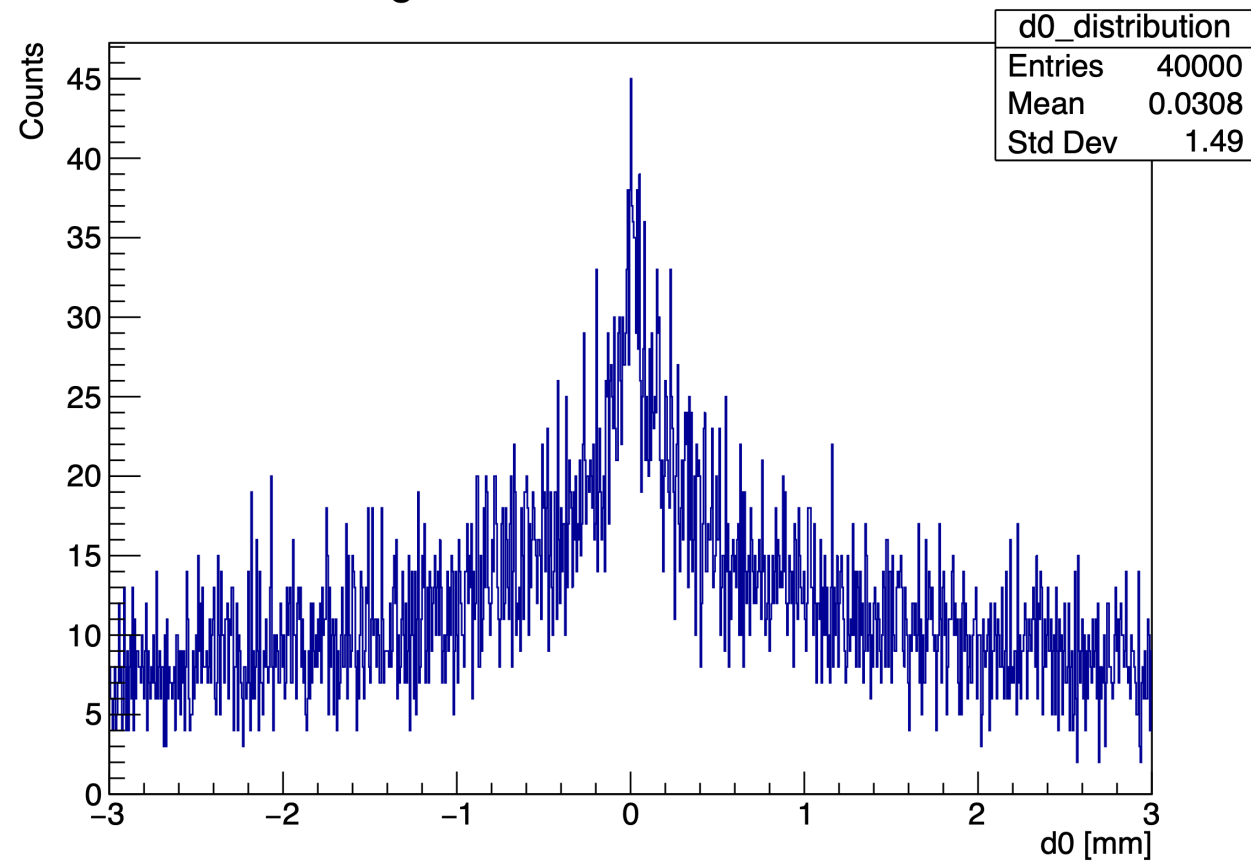
Signal muons d0 Distribution



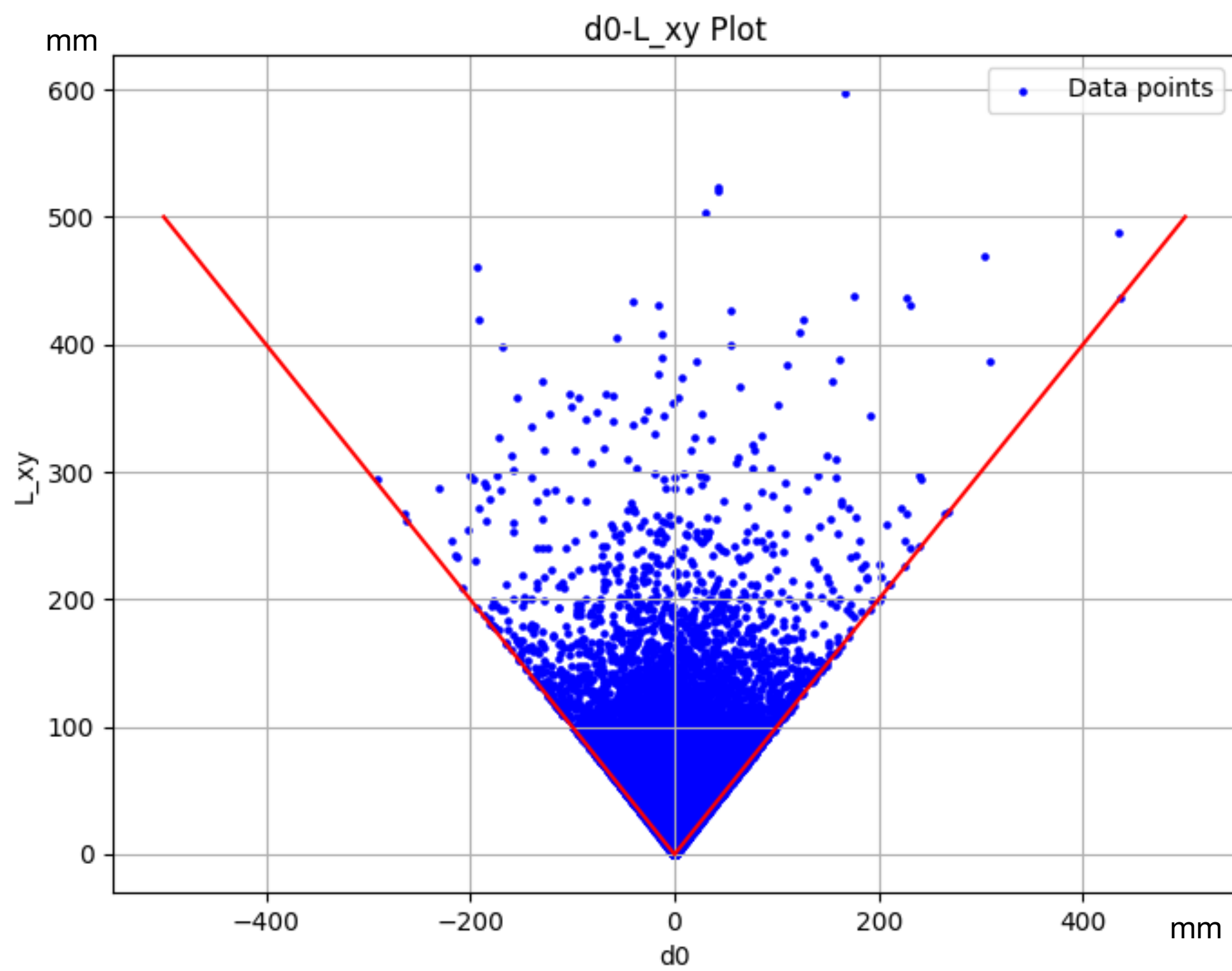
Signal muons d0 Distribution



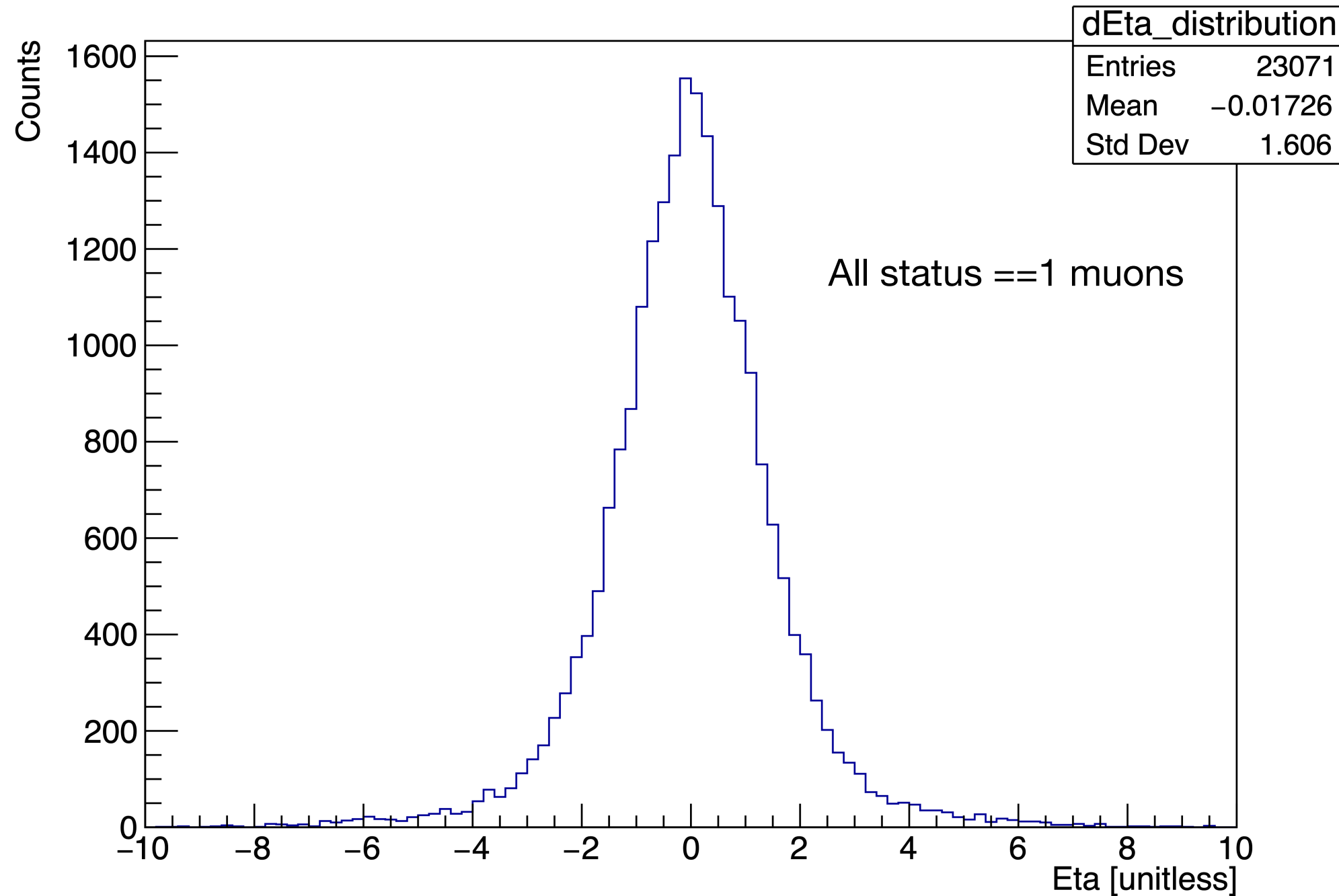
Signal muons d0 Distribution



Smuon-produced muons (status==1)



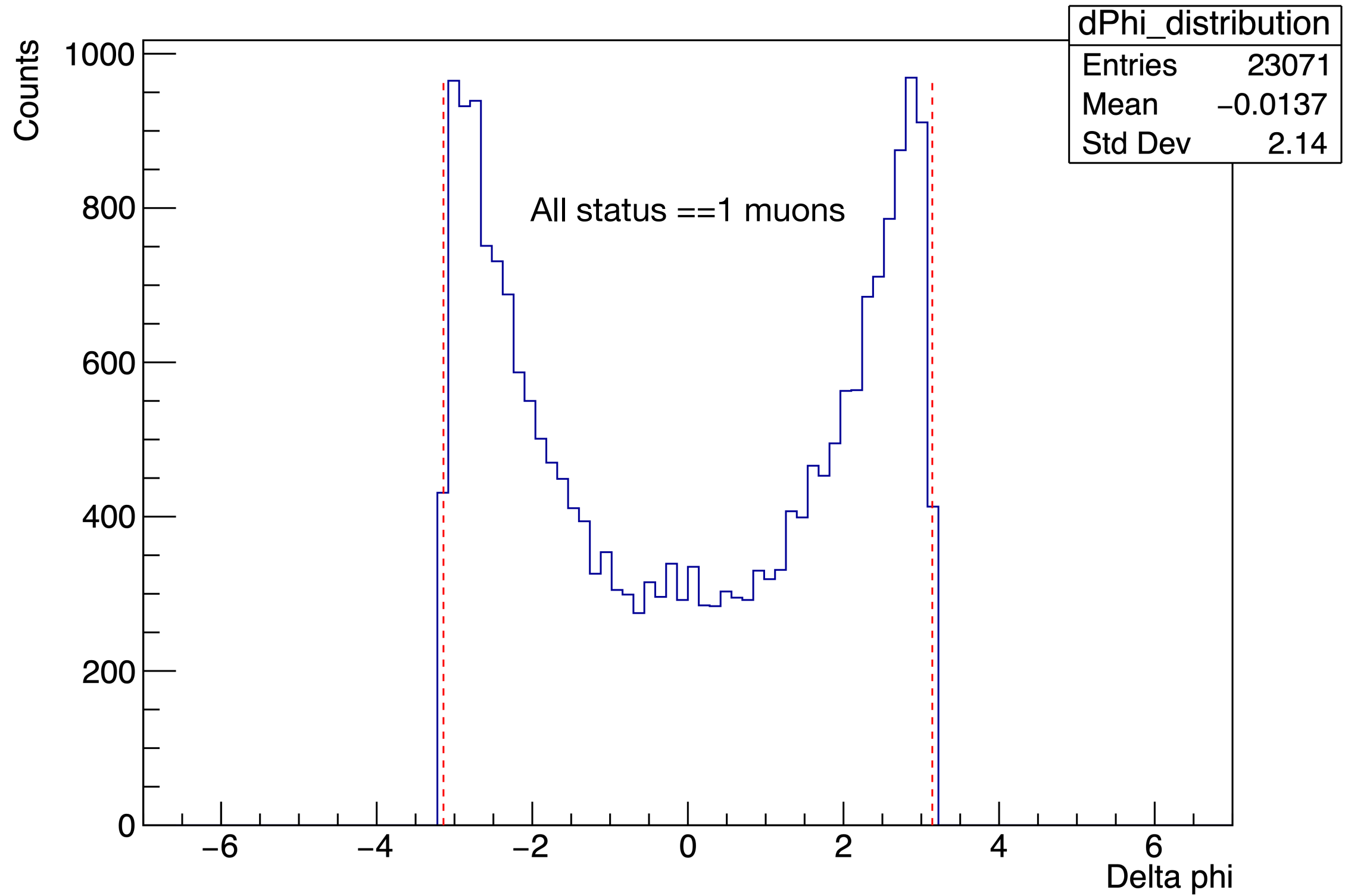
Delta Eta Distribution



Delta eta peaks around zero

$$\Delta\eta = \eta_A - (-\eta_A) = \pm 2\eta_A$$

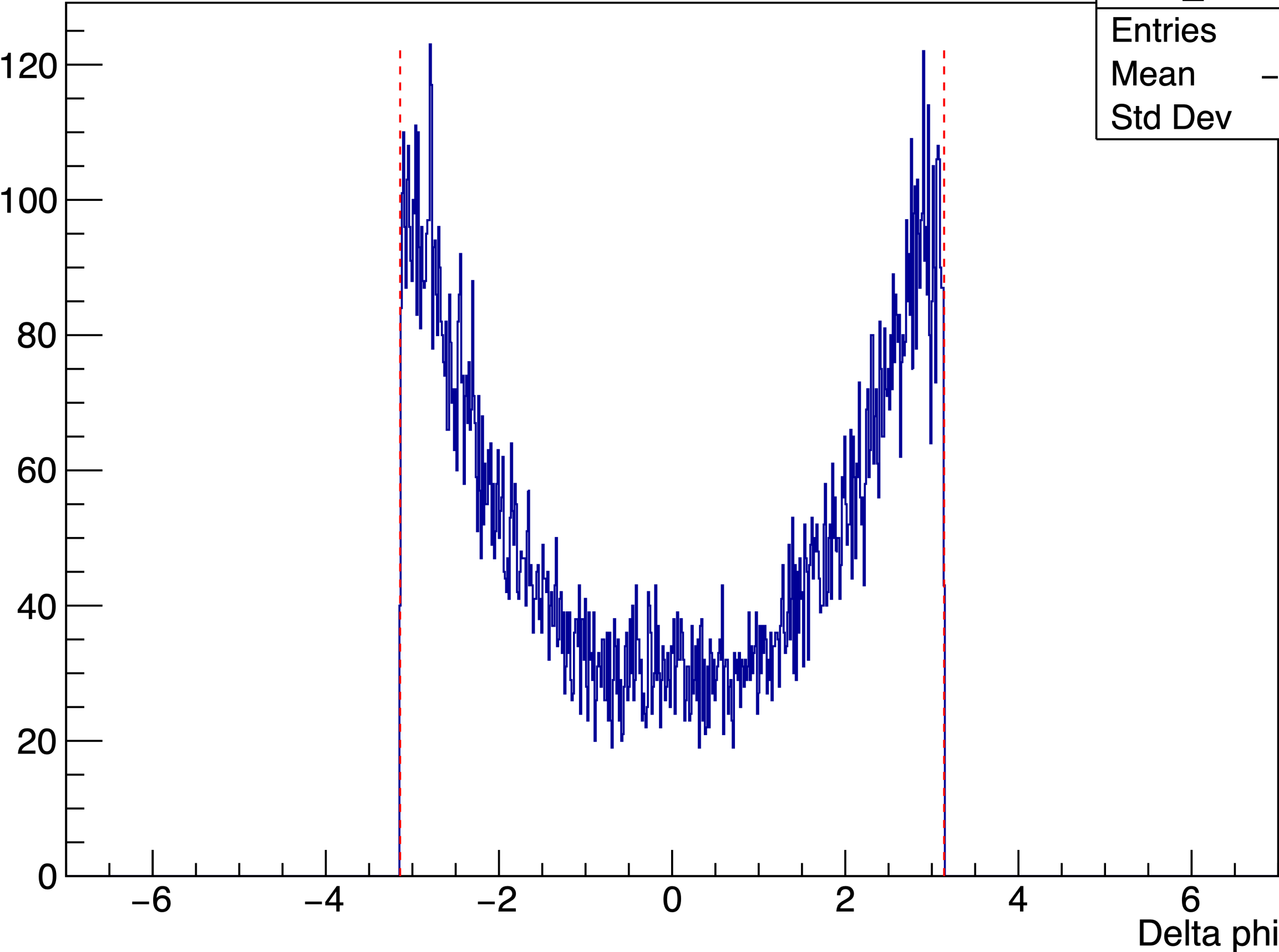
Delta Phi Distribution



Delta phi peaks around $\pm\pi$

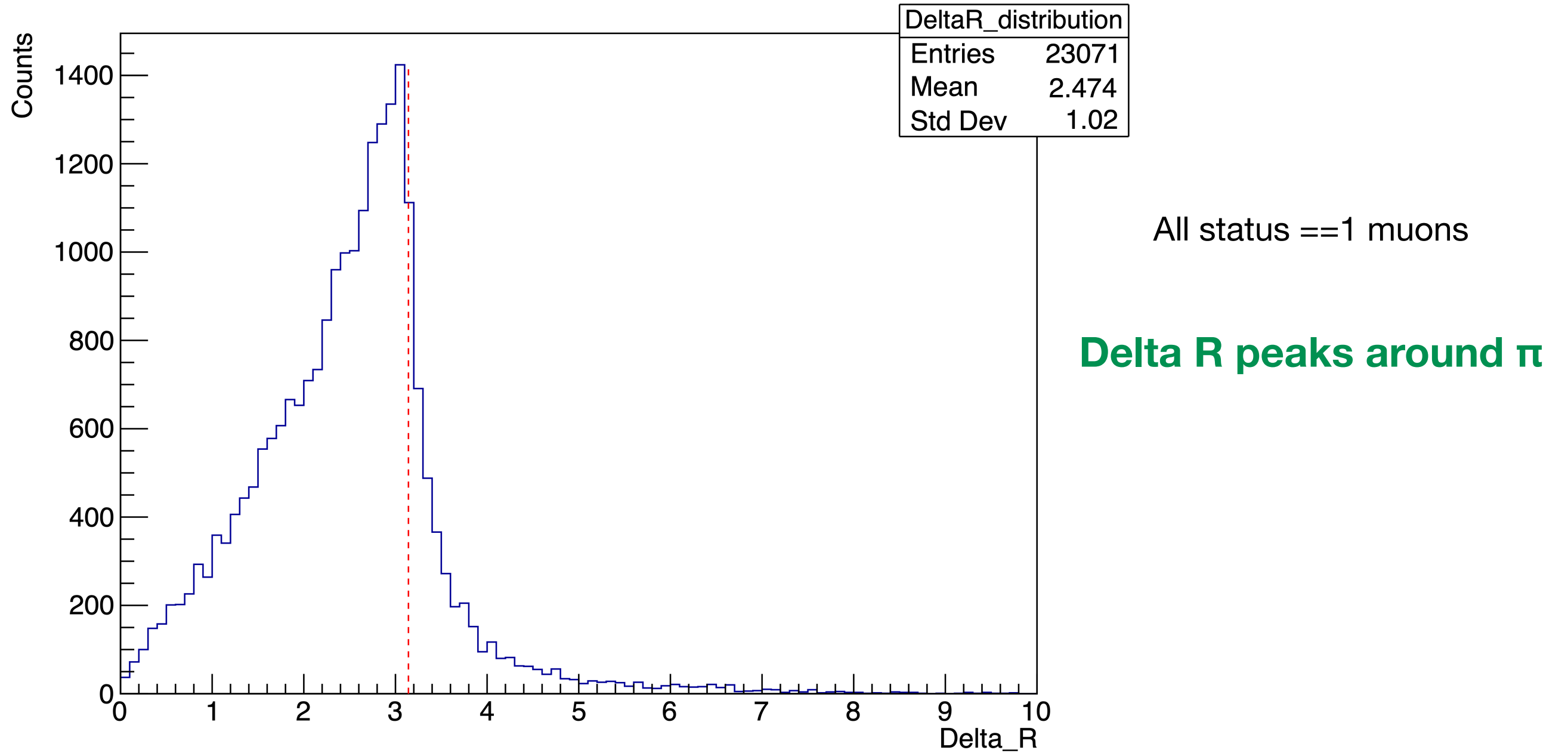
Delta Phi Distribution

Counts



| dPhi_distribution | |
|-------------------|---------|
| Entries | 23071 |
| Mean | -0.0137 |
| Std Dev | 2.14 |

Delta R Distribution



$$\Delta R = \sqrt{\Delta\eta^2 + \Delta\phi^2}$$