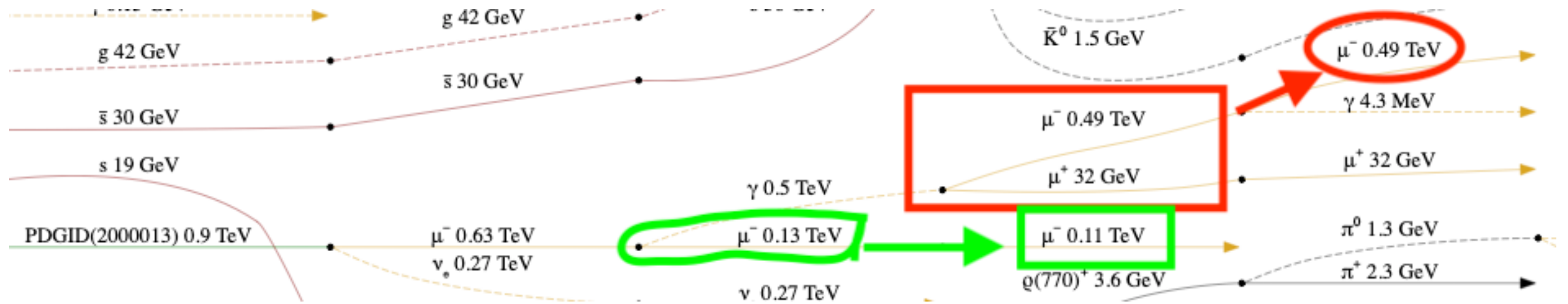
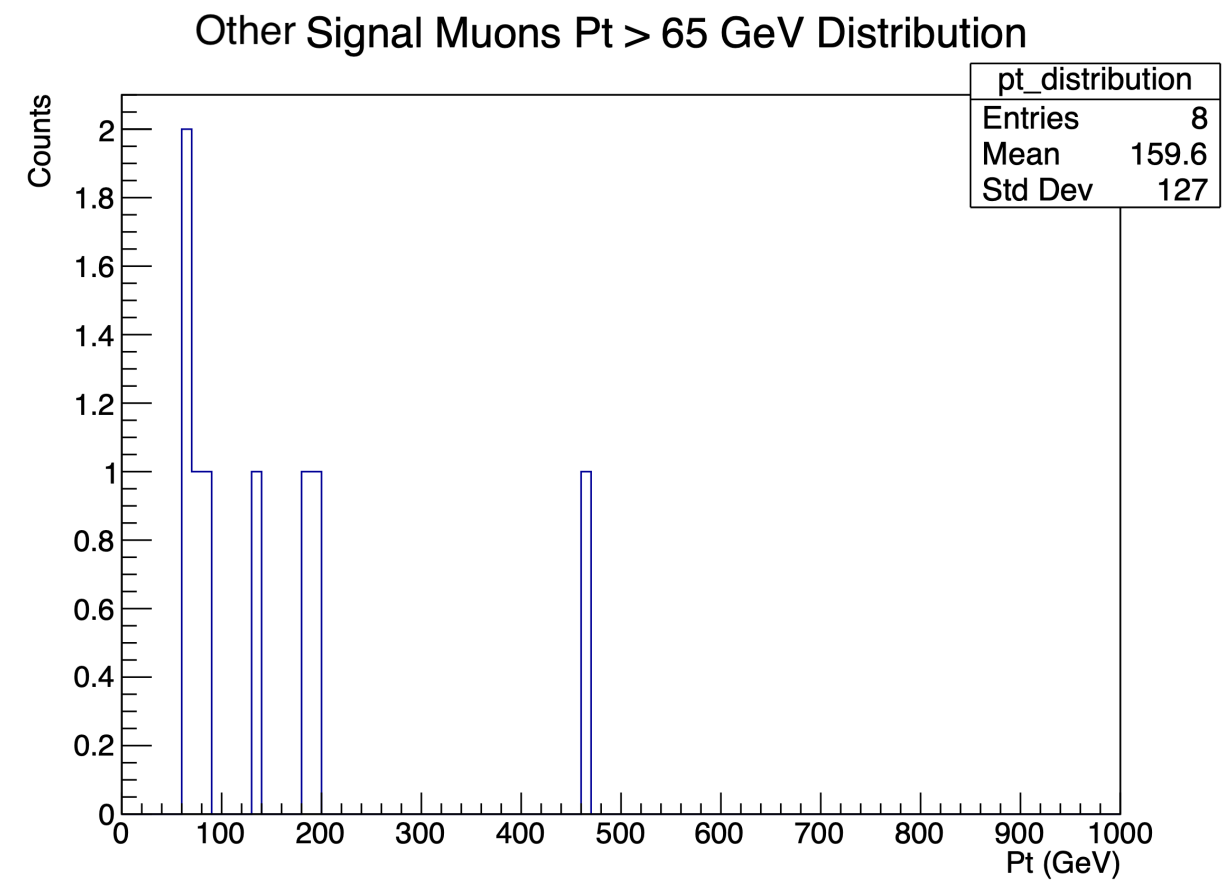
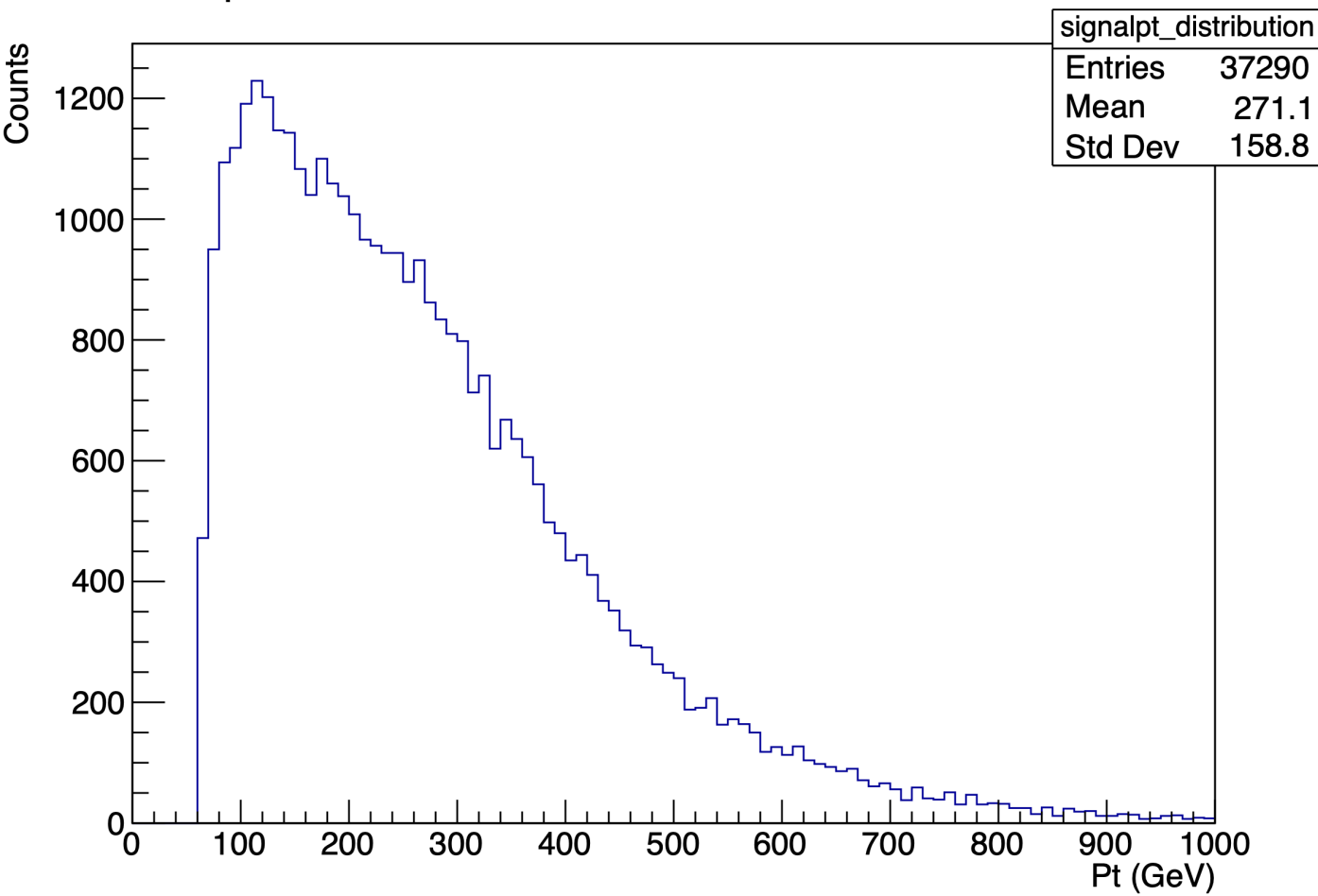


Alaa Weekly Update July 28th

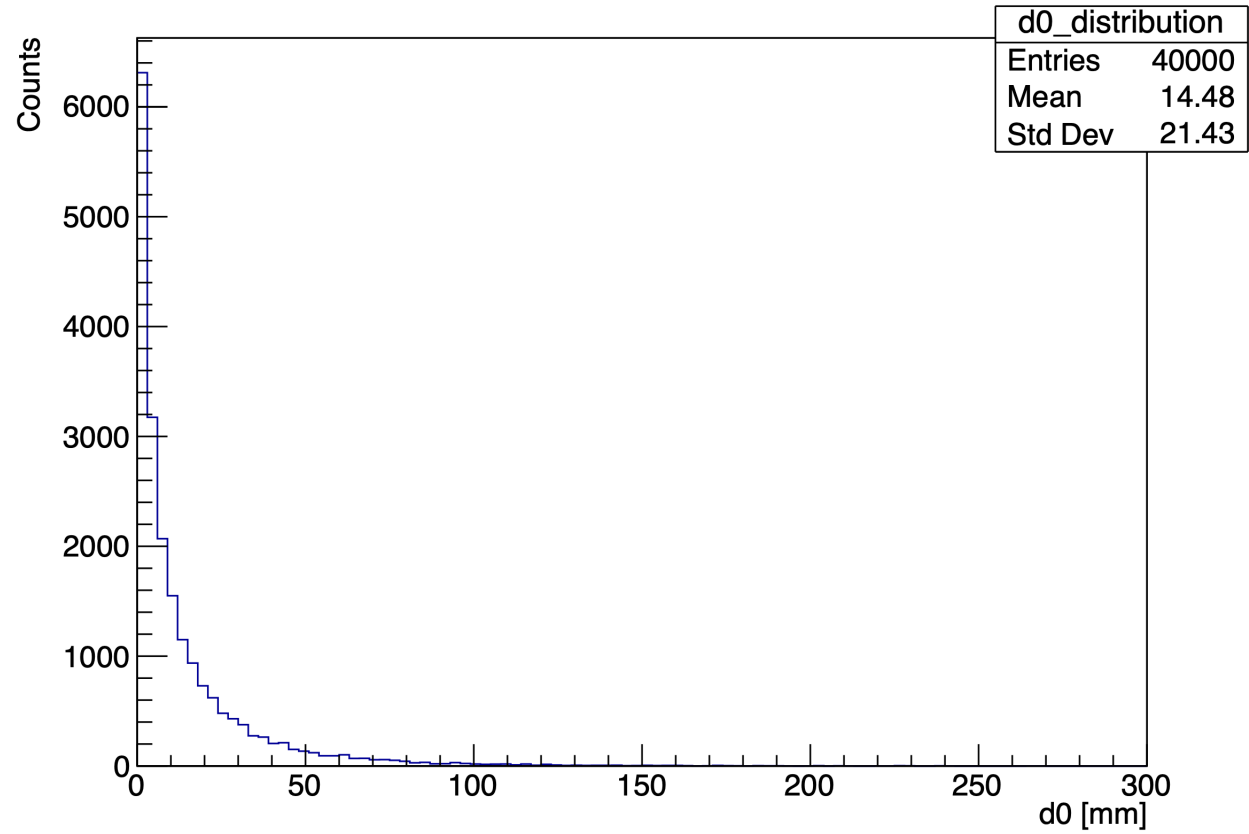
Last week minutes:

- Update plots to show non-signal muons and signal muons:
 - updated eta and pt plots ✓
- Calculate deltaphi, deltaeta, deltaR, d0 ✓
- Make cuts and compare to paper acceptance:
 - Validating d0, deltaR, deltaphi, and deltaEta plots first

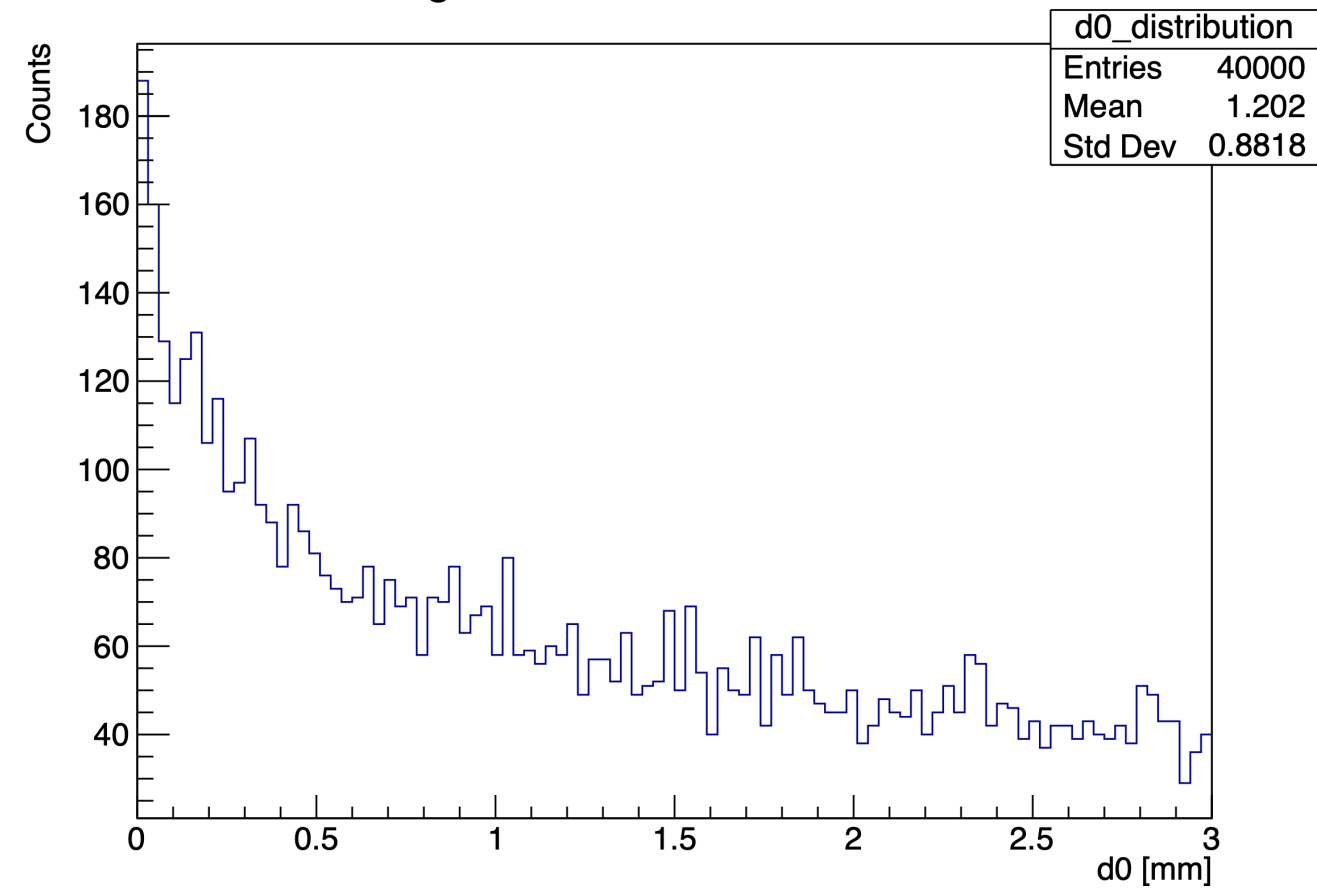
Smuons produced Muons $P_t > 65$ GeV Distribution



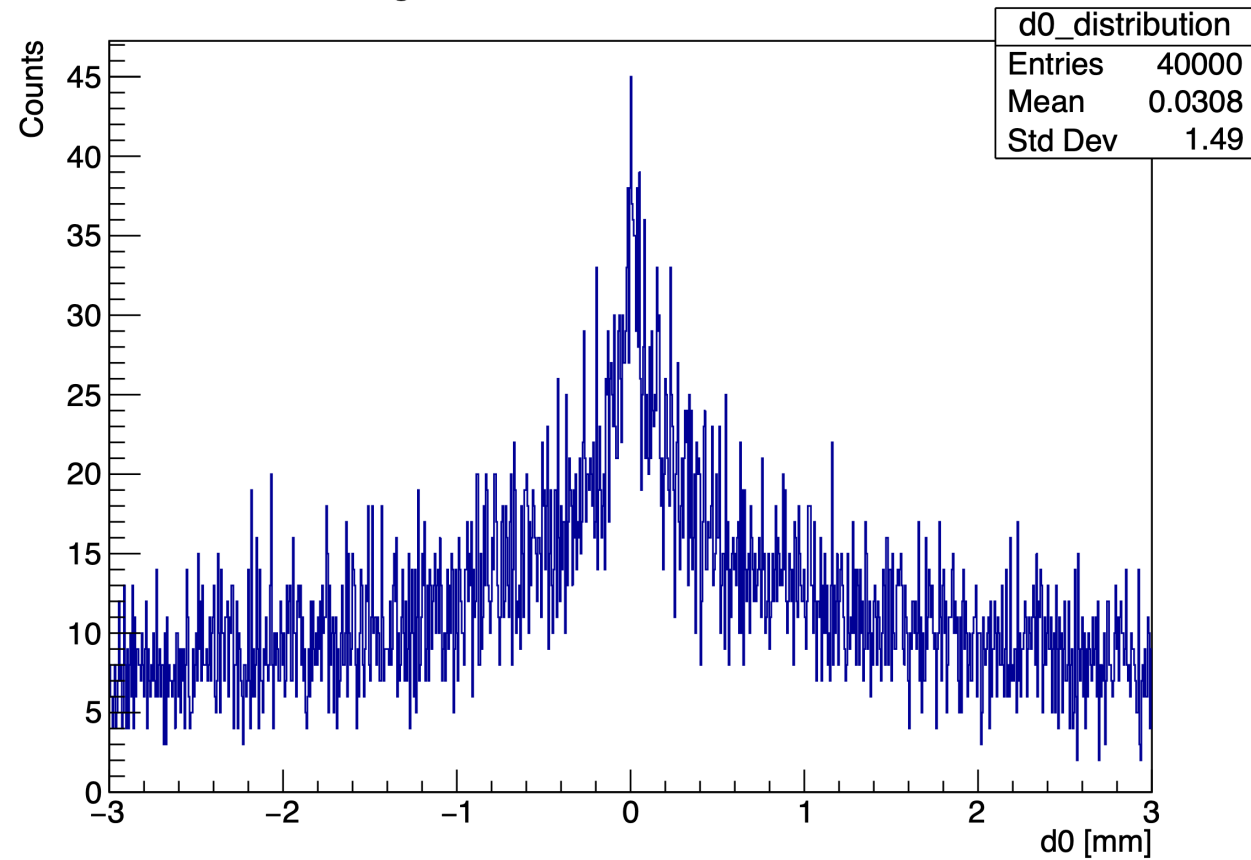
Signal muons d0 Distribution



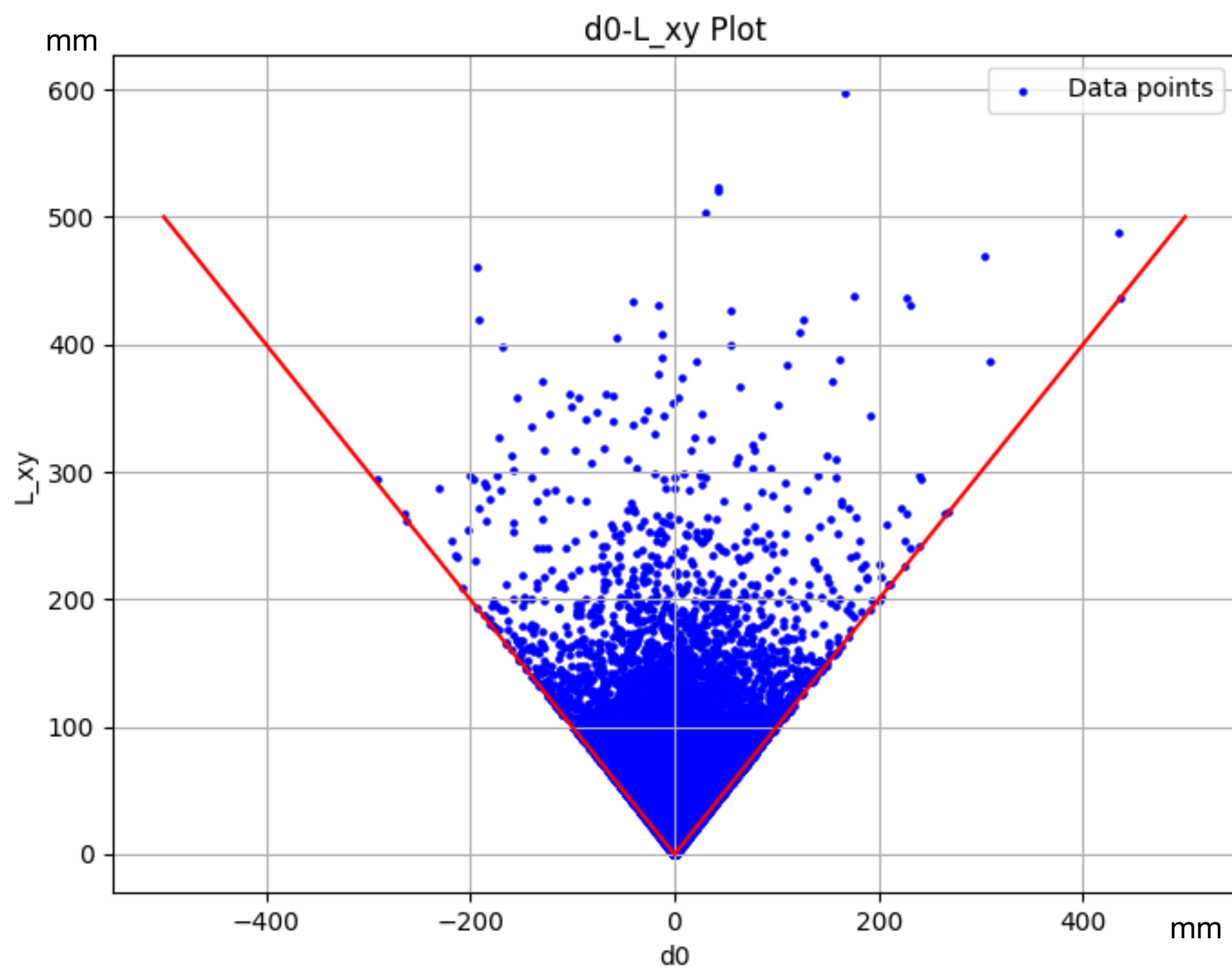
Signal muons d0 Distribution



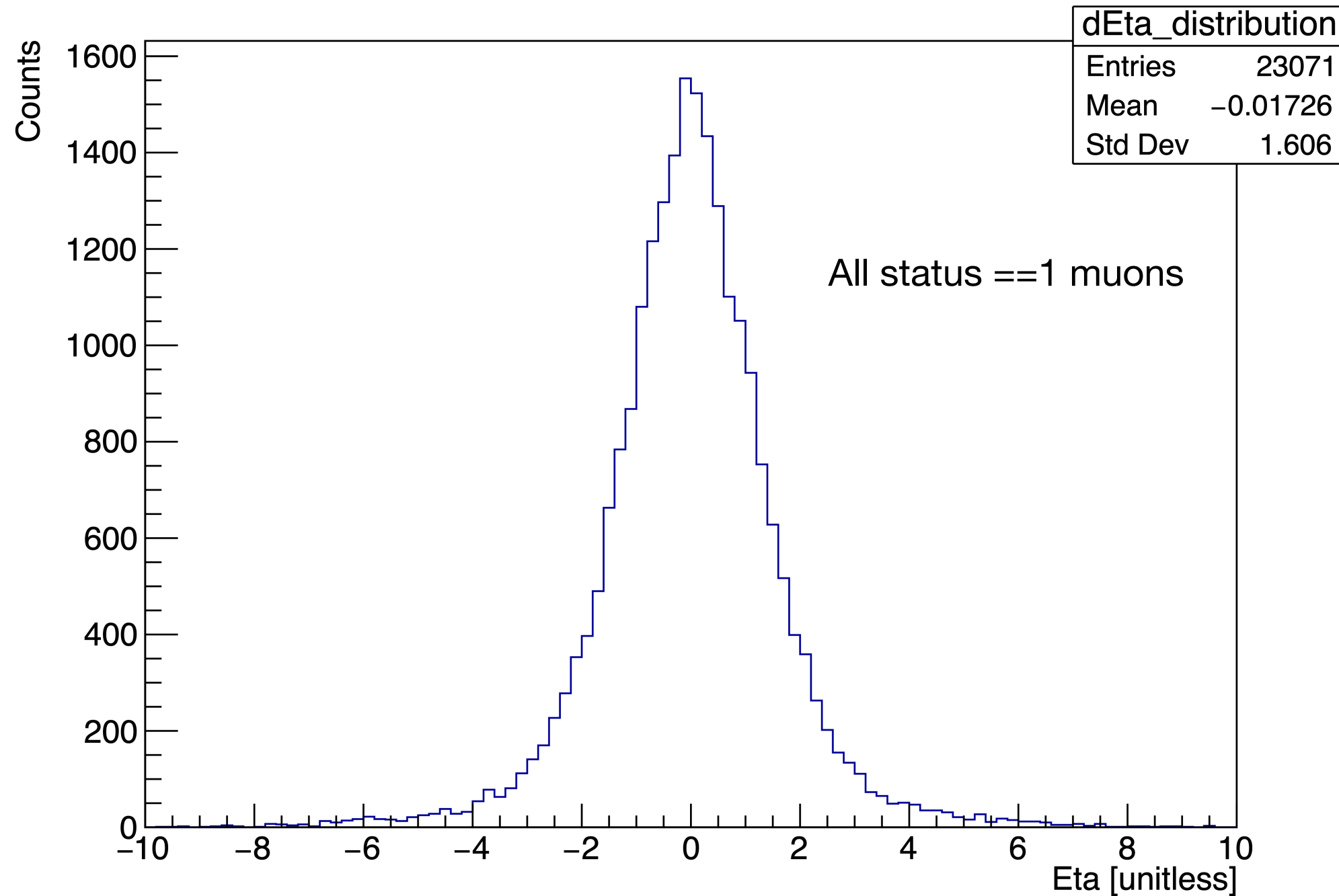
Signal muons d0 Distribution



Smuon-produced muons (status==1)



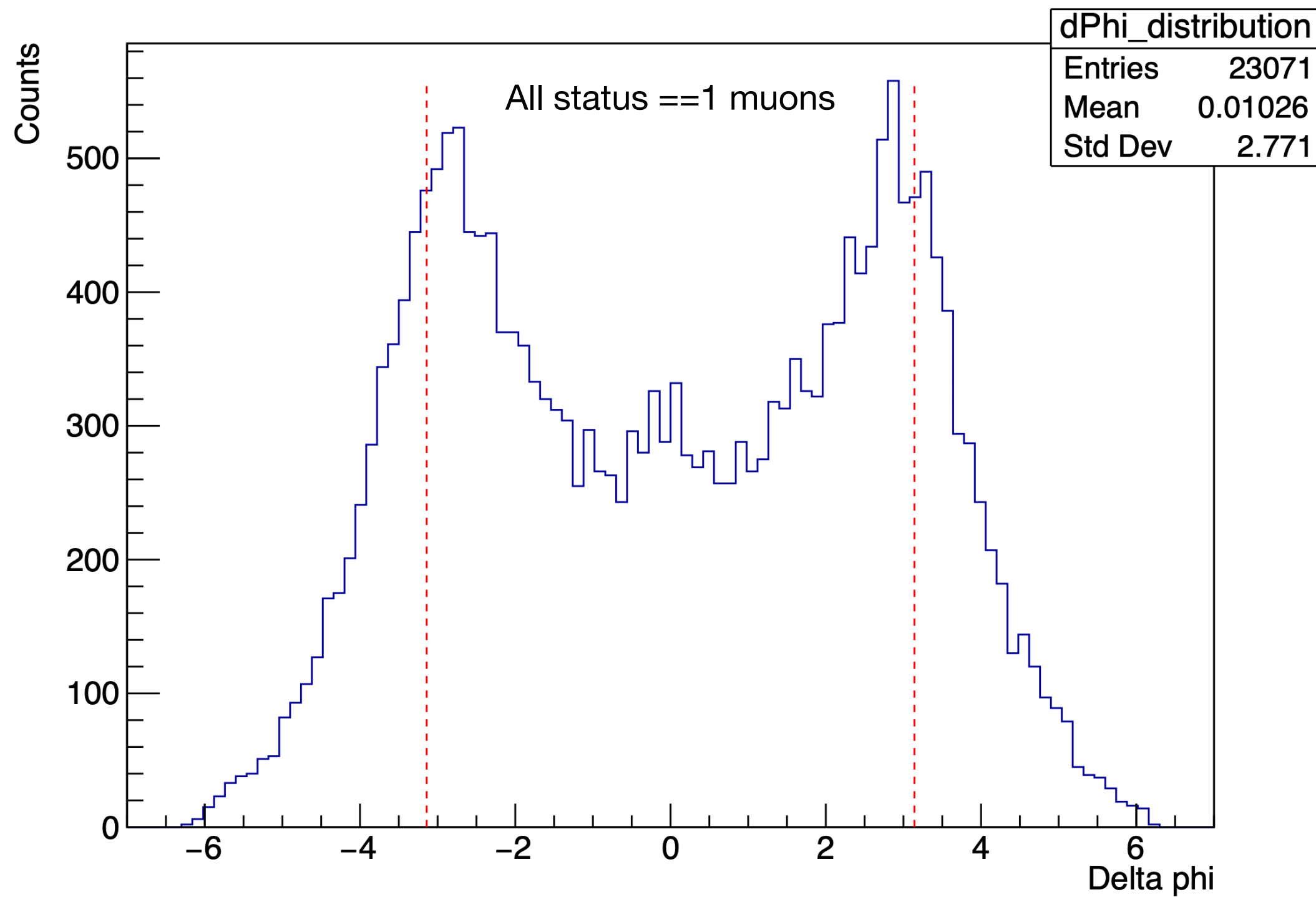
Delta Eta Distribution



Delta eta peaks around zero

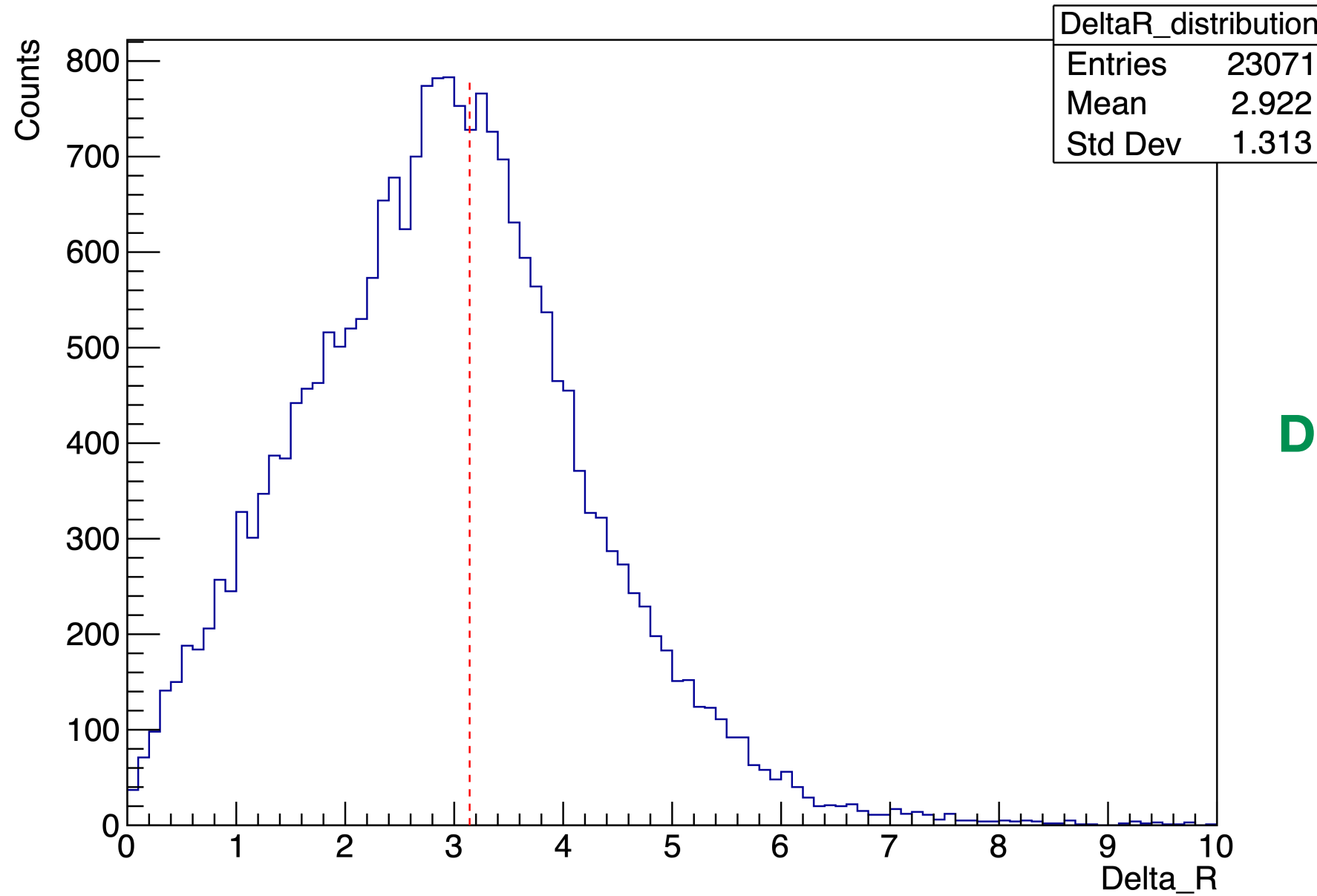
$$\Delta\eta = \eta_A - (-\eta_A) = \pm 2\eta_A$$

Delta Phi Distribution



Delta phi peaks around $\pm\pi$

Delta R Distribution



All status ==1 muons

Delta R peaks around π

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