Pt plots and decay chain

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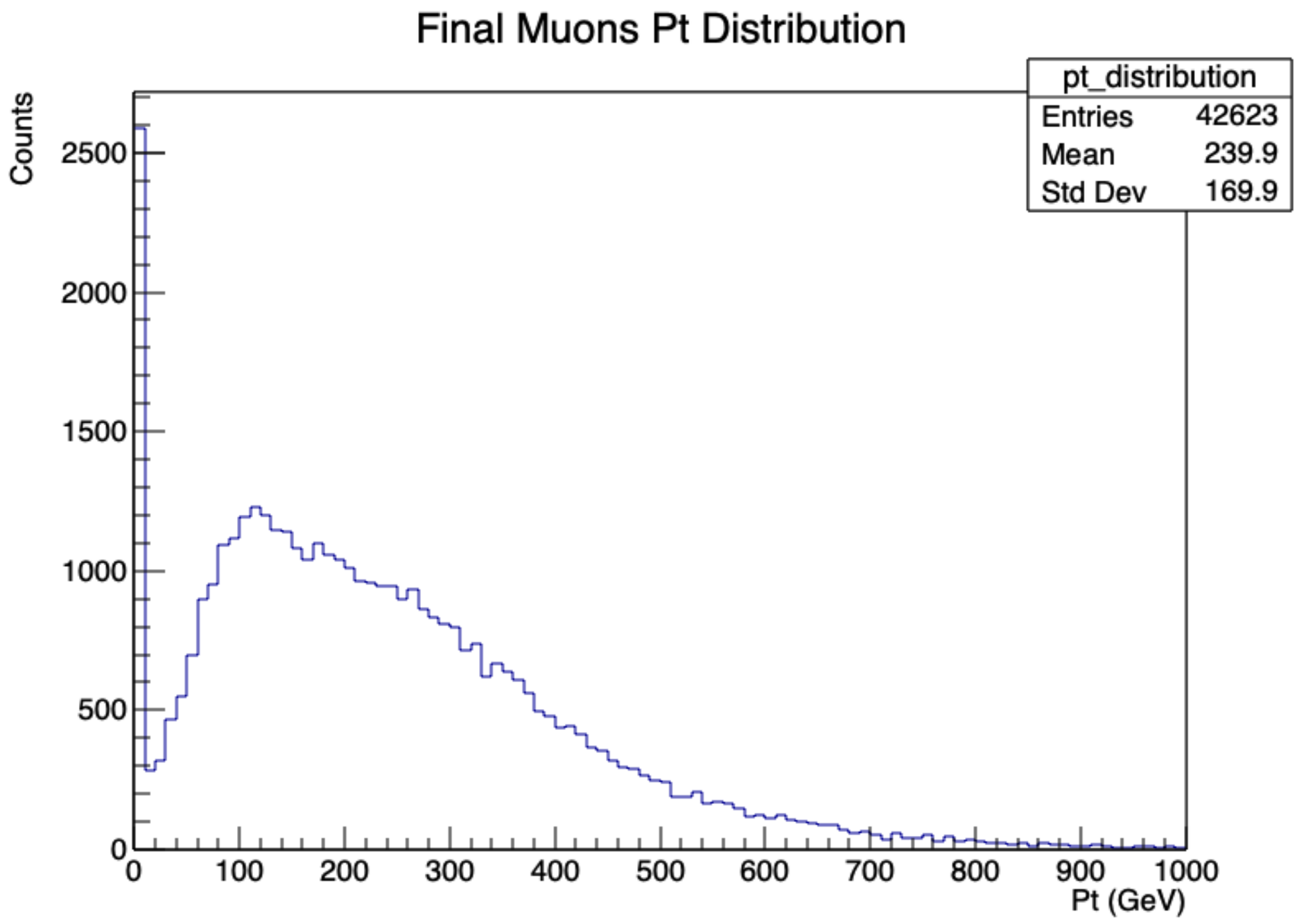
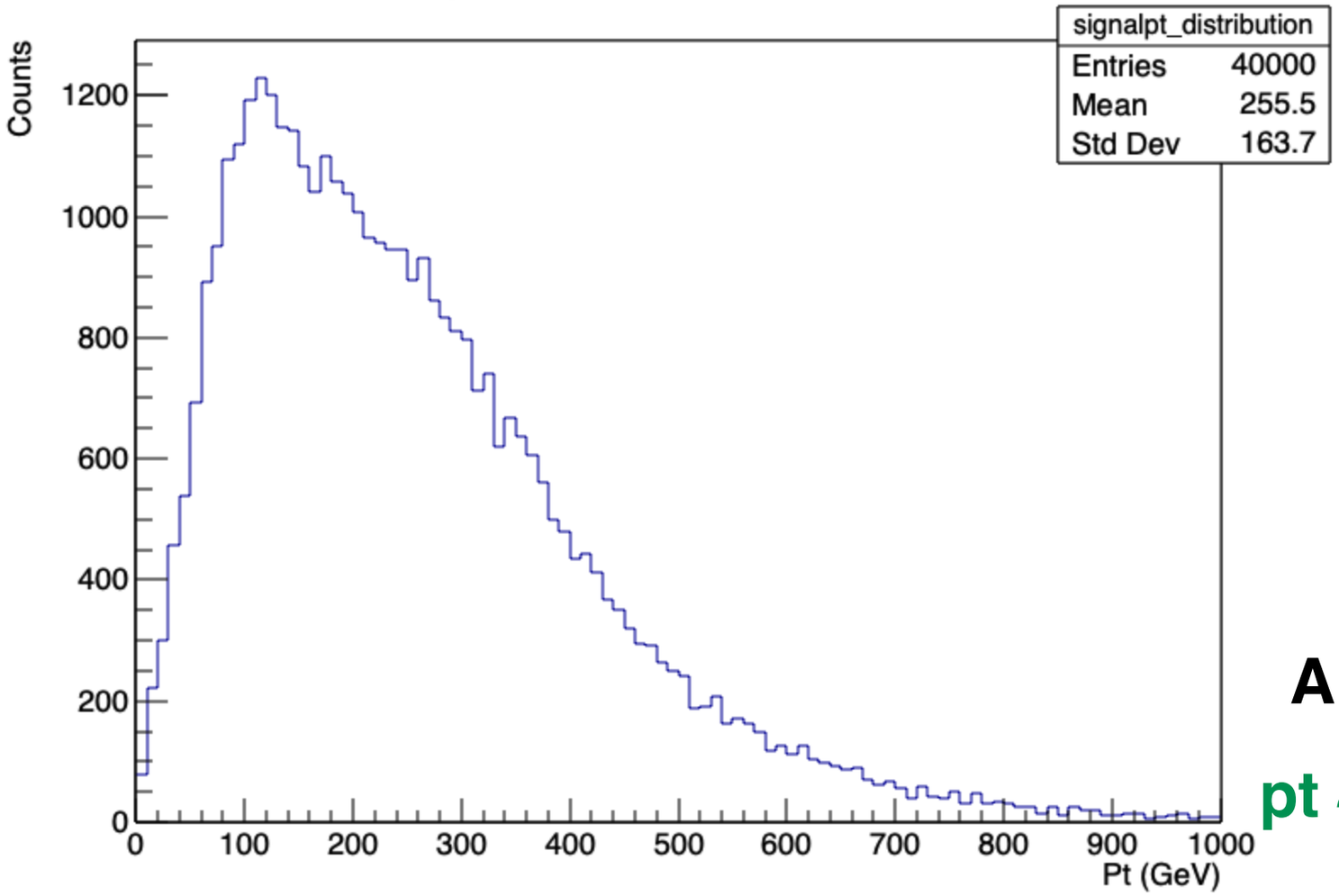
All final status muons,

“final” means they have status of 1

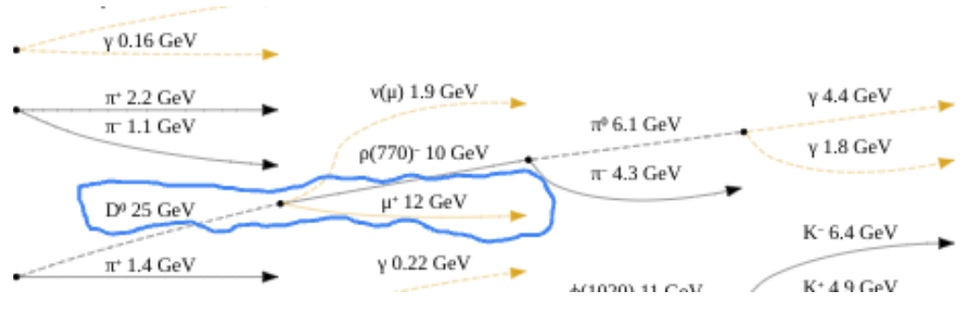


Signal muons,

“signal” means they are “final" status and produced by a smuon decay



An event with low pt final muon



Produced by a meson

A single (anti) muon, not a pair

pt ~ 1 GeV, total energy ~12 GeV

Only 40000 entries

No peak at zero GeV

All unexpected particles come from photon interactions

Details here:

https://tiny.utk.edu/decayprodcuts

An event with photon, emitted by a muon coming from a smuon decay, the photon itself pair-produce e- e+