## **Particle Identification Algorithm**

1) Find the momentum of each track in the event in MeV/c.

2) From the table determine how many photoelectrons and amount of ionization that was deposited in the TOP and CDC respectively.

3) From the graphs determine which particle species was most likely to produce this response.

4) If ambiguous (e.g. pion and muons) choose the one that is most likely occur in a BB event (apriori probability)

electron 6% muons 5% pions 73% kaons 15% protons 2%

Try it: Event-1 Track A p=450MeV/c 23 pe and 2.7 kV/cm mu, pi mu, pi, e

(ambiguous)

Track A = pion

