Subject: Particle identification parameter for FairRutherfordPoint Posted by Raphael Cervantes on Tue, 11 Dec 2012 22:45:10 GMT View Forum Message <> Reply to Message

Hi guys,

I am currently using the rutherford example in Fairroot. I run run_rutherford.C and get test.mc.root. I would like to plot the particle hits on the detector as a function of theta for a particular particle, e.g. the theta distribution of photons. I plot these distributions with

root -I data/test.mc.root (in the rutherford macros folder)

cbmsim->Draw("FairRutherfordPoint.fEta>>h1","FairRutherfordPoint.fEta >-10 && FairRutherfordPoint.fEta<10")

where eta is the pseudorapidity and a function of theta.

I would like to just look at the eta distribution of the photons instead of the whole range of particles. I notice that the particle identification information is stored in MCTrack and not in FairRutherfordPoint. I thought of using the command cbmsim->Draw("FairRutherfordPoint.fEta>>h1","FairRutherfordPoint.fEta>-10 && FairRutherfordPoint.fEta<10 && MCTrack.fPdgCode==22") However, further analysis showed that this command does not actually plot the fairrutherfordpoint eta distribution of the photon particles. I believe is is because pdgCode is in a different branch from FairRutherfordPoint.

I now want to make pid information an intrinsic property of FairRutherfordPoint. What must I do to get the pdgCode from the MCTrack to the corresponding FairRutherfordPoint?

Page 1 of 1 ---- Generated from GSI Forum