Subject: Fast Simulation- neutral particle
Posted by Lu Cao on Mon, 31 Mar 2014 14:24:37 GMT

Hi all,

I try to do fast simulation with this decay chain: pbp->Ds+ Ds-; Ds- ->K+K-pi-; Ds+ ->e+ nv eta; eta->pi+pi-pi0 (gamma gamma). From the examples in macro/scrut, I got some problems for simulating the neutral channel:
1) in simulation macro:
  // generate electro-magnetic / hadronic split offs in the EMC? switch off when running w/o EMC
  Bool_t enableSplitoff   = kFALSE;

  //enable the producing of parametrized neutral (hadronic) split offs
  if (enableSplitoff)
    fastSim->EnableSplitoffs(BaseDir+"/fsim/splitpars.dat");
From the comments there, if I understand correctly, the "enableSplitoff" seems should be switched on for eta->pi+pi-pi0 (gamma gamma). I tried kTRUE, but it crashed.

2) in analysis:
 // *** name of the only PidAlgo TClonesArray in fsim
 TString pidalg = "PidChargedProbability";

Does it mean no neutral algorithm in fast simulation? then, how to fill the neutral list?

Thanks in advance.

Lu