Subject: [FIXED] segfault in PndFsmMvdPid.cxx
Posted by Johan Messchendorp on Tue, 22 Apr 2014 17:55:22 GMT
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Hi Ralf & Klaus,

I justed noted a "trivial" segfault with my simulations related to the piece of code below in PndFsmMvdPid.cxx.
The problem is that the parameter "part" is not always setup properly, after which it sends random "part" to MeanEnergyLoss with segfault. For example, I am running some Lambda_c simulations (4122), which might give a crash when this particle is seen in the simulations.

Greets,

Johan.

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PndFsmResponse*
PndFsmMvdPid::respond(PndFsmTrack *t)
{
  PndFsmResponse *result=new PndFsmResponse();

  result->setDetector(this);
  bool wasDetected=detected(t);
  result->setDetected(wasDetected);

  if (wasDetected && fabs(t->charge())>1e-8)
  {
    //select particle
    PidType part;                              <=========
    switch(abs(t->pdt())) {
      case 2212:part=proton; break;
      case 321: part=kaon; break;
      case 211: part=pion; break;
      case 13:  part=muon; break;
      case 11:  part=electron; break;
    }

    //build random energy loss
    _momentum = t->p4().Vect().Mag();
    _energyloss = MeanEnergyLoss(part) + mpv(part) + _rand->Landau(0, width1(part)) +
_rand->Gaus(0, width2(part))*_dEdxResMulti;  <=====
...
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```