Subject: Re: Bug in PndEmcHitProducer Posted by M.Babai on Wed, 14 Apr 2010 09:40:14 GMT View Forum Message <> Reply to Message

Hi!,

This problem is now solved and the corrected code is available in trunk. In the original code the following was declared and used without proper initialization:

map<Int\_t, Float\_t> fTrackEnergy; map<Int\_t, Float\_t> fTrackTime; //time of first point map<Int\_t, std::vector <Int\_t> > fTrackMcTruth; //McTruth fTrackEnergy.clear(); fTrackTime.clear(); fTrackMcTruth.clear(); ...... point = (PndEmcPoint\*) fPointArray->At(iPoint); fTrackEnergy[point->GetDetectorID()] += point->GetEnergyLoss(); point\_time=point ->GetTime(); if (point\_time < fTrackTime[point->GetDetectorID()])

fTrackTime[point->GetDetectorID()] = point\_time;

In the lines above we can see a comparison and a "+=" operation on not initialized member of the map which has(might have) an undefined state.

Another point, which is (in this case) a matter of taste and beauty, is the declaration of:

PndEmcPoint\* point = NULL;

map<Int\_t, Float\_t>::const\_iterator p;

outside the loop. In this case they are not leading into wrong computations but potentially they can, as their values are changed inside the loop.

Greets,

/M

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