
Subject: Re: Reproduce the result of Pos (Bormio2012) 018

Posted by [Ralf Kliemt](#) on Fri, 28 Mar 2014 09:59:46 GMT

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Hello nakulphy,

nakulphy wrote on Fri, 28 March 2014 10:49 the root files that are created during the simulations such as sim_complete.root, simparams.root, etc...

how to study these files ?

What do you want to study? Is it detector performance of the individual subsystems? Then you will have to dig into the sim, reco and pid files.

Is it particle physics, i.e. studying the detected results of a specific event generator input (e.g. "your" channel), then you don't need to worry about those files and go on with analysis.

nakulphy wrote on Fri, 28 March 2014 10:49 and what is the meaning of beam gradient which is created during the sim_complete.C ? which is given below.

```
**** GTRIGI: IEVENT=    9 IDEVT=    9 Random Seeds =   123456      0
[INFO ] FairPrimaryGenerator: (Event 9) 8 primary tracks from vertex (-0.189898, 0.091527,
0.224391 ) with beam gradient (0.000000, 0.000000) Event Time = 0.000000 (ns)
POINT EXECUTION *****
```

This is output of the framework (event generator interface) during simulation. We don't use sophisticated beam properties, yet, so it's nothing to worry about.

Cheers

Ralf Kliemt