
Subject: Re: Usage of Dirc in concord with certain detectors

Posted by [donghee](#) on Wed, 29 Jul 2009 08:39:19 GMT

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Dear PANDA colleague,

find attached the MC scripts and small mount of data produced by pseudo-DVCS events generator with exclusive electron + gamma + anti-proton particle.
Anti-proton goes to very forward direction, responding detector should be dch or lumi and partly gem. electron has mostly an opposite direction, i.e, backward direction.
Gamma is distributed in the forward and central part of spectrometer.

There are 2 main scripts as you can expect: runMC.C and runDigi.C

Quote:

```
pandaroot/macro>tar -xvzf dvcs.tar.gz  
pandaroot/macro>root runMC.C  
pandaroot/macro>root runDigi.C
```

I would like to confirm two things.

At First:

In the runMC.C, the Dirc part is located at the end in order to store all detector information. If you move dirc part into the middle part of the runMC script, then the MC info. of detectors, which are calling below the dirc part, could not record anymore when you go to digitization. The output can produce but content should be empty!
Therefore I suggested that you have to put Dirc part at the end of script.

Second :

As I already mentioned.
If you try to run simulation and digitization without Dirc and with Dirc, you can find the different result in both output.
Please open your digi output, and have a look any detector info.
Both statistics should be different.

Best wishes,
Donghee Kang

File Attachments

1) [dvcs.tar.gz](#), downloaded 449 times
