Subject: Re: Usage of Dirc in concord with certain detectors
Posted by donghee on Tue, 28 Jul 2009 16:11:32 GMT

Dear Dirc expert and Stefano,

I have tested to understand what is happening in the Dirc part.

I prepared two codes, one is including Dirc and
other one is excluding Dirc during the simulation using runSim.C
and runDigi.C

After digitization or hit producing, the final statistics in every part of any detectors are clearly
different in two cases.
But in principle, the hit in MVD or TPC detector must be same, regardless of using Dirc.

The reason is following.
If the Dirc task failed in the running MC, all information are thrown away even though other
detectors are correctly worked.

I can give you some number

without Dirc -> Entries of PndTpcDigi.fBits is 24577
with   Dirc -> Entries of PndTpcDigi.fBits is 8844

These two numbers must be 24577 in any case.
That means, despite Dirc is incompetent to judge,
the statistics are greatly influenced by this wrong decision in the Dirc session.
This is apparently misconcept!!!

Best wishes,
Donghee Kang