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Subject: Re: TPC dE/dx

Posted by [Stefano Spataro](#) on Tue, 08 Mar 2011 16:16:59 GMT

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Felix Boehmer wrote on Tue, 08 March 2011 17:03Hi

Just some comments:

The cluster amplitude is defined after the FrontEnd and given in ADC channels! It is calculated from the analogue signal amplitude (on the pad) using some parameters:  $ADC\_amp = Sig\_amp / (adcmax/adcmaxcount)$  (See PndTpcFrontend).

Ok, now I understand why the numbers do not match.

Quote:

You have to be very careful when defining the dx - a lot of effects are at work here (clustering!). The best approach is to use the actual track fit, as it is done in the task that I sent you a while ago

I know, this was just the first test, but it seems somehow to work and it is very fast. Using track extrapolation would improve a bit the resolution (even if I would not aspect huge improvements), but it will take much more computing time. I will see if I will be able to implement this updated version, however at least we have now a starting point working with PndTrack/PndPidCandidate.

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