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Subject: Re: TPC dE/dx

Posted by [Felix Boehmer](#) on Tue, 08 Mar 2011 16:03:13 GMT

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Hi Stefano,

very cool that you look into this!

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).

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

Cheers

Felix