Subject: PID macro
Posted by donghee on Mon, 30 Jul 2012 13:07:32 GMT
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Hi,

I'm wondering about an example code under PANDAroot/macro/pid/pid_check.C

A probability with name of flux is introduced
Quote:
PndPidProbability *flux = new
PndPidProbability(239+237,114+101,2282+2375,35+42,517+1052);

Where do this numbers comes from ?

Best regards,
Donghee

Subject: Re: PID macro
Posted by StefanoSpataro on Mon, 30 Jul 2012 13:14:59 GMT
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If you check the slides in my PID talk at the computing week you will find the answer.

Subject: Re: PID macro
Posted by donghee on Mon, 30 Jul 2012 13:55:19 GMT
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Hi Stefano,

Numbers are motivated from the sucessfully reconstructed multiplicity(yields) using 2000 events of DPM at 6 GeV/c antiproton beam.

If I want to have more precise numbers for instance 5 or 15 GeV/c case, then I should have slightly different numbers, that have to be studied, right?

And all numbers introduced with this particular yields will be normalized by summation of alel values, when I calling a function
GetXxxPidProb(), right?

If I'm wrong, please correct me.

Thank you, stefano!
Donghe

Subject: Re: PID macro
Posted by StefanoSpataro on Mon, 30 Jul 2012 14:21:00 GMT
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I think at the present stage of the code you can also skip to use the flux, probability should be enough to separate different particles.
In more realistic case, flux will change according to energy and also to cuts, and inside the prob function you will have the normalized value.