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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 these numbers come from ?

Best regards,  
Donghee

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Subject: Re: PID macro

Posted by [Stefano Spataro](#) 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.

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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 successfully 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 all values, when I call a function  
GetXxxPidProb(), right?

If I'm wrong, please correct me.

Thank you, stefano!  
Donghee

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Subject: Re: PID macro

Posted by [Stefano Spataro](#) 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.

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