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Subject: PID arrays in Fast Sim

Posted by [Klaus Götzen](#) on Thu, 10 Apr 2014 09:38:07 GMT

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Hi,

in the newest version of fsim also the individual PID arrays can be accessed. Available arrays are

PidChargedProbability : combination of all  
ScEmcPidFSPProbability : EMC forward spectrometer  
ScEmcPidFwCapProbability : EMC forward endcap  
ScEmcPidBarrelProbability : EMC barrel  
ScEmcPidBwCapProbability : EMC backward endcap  
DrcBarrelProbability : Barrel DIRC  
DrcDiscProbability : Disc DIRC  
MvdPidProbability : MVD  
SttPidProbability : STT  
RichProbability : RICH  
ScMdtPidBarrelProbability : MUO barrel  
ScMdtPidForwardProbability : MUO endcap

Usage is as before, e.g.

```
theAnalysis->FillList(pidall, "Charged", "PidChargedProbability");  
theAnalysis->FillList(pidemc, "Charged",  
"ScEmcPidFSPProbability;ScEmcPidFwCapProbability;ScEmcPidBarrelProbability;ScEmcPidB  
wCapProbability");  
theAnalysis->FillList(piddrc, "Charged", "DrcBarrelProbability");  
theAnalysis->FillList(piddisc, "Charged", "DrcDiscProbability");  
Best,  
Klaus
```

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Subject: Re: PID arrays in Fast Sim

Posted by [Lu Cao](#) on Fri, 09 May 2014 14:21:05 GMT

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Hi Klaus,

is the ideal PID available in fast simulation now?

Best regards,  
Lu

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Subject: Re: PID arrays in Fast Sim

Posted by [Ralf Kliemt](#) on Fri, 09 May 2014 14:32:37 GMT

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Hi Lu.

Yes.

Ralf

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Subject: Re: PID arrays in Fast Sim

Posted by [Lu Cao](#) on Fri, 09 May 2014 14:36:01 GMT

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Hi Ralf,

Thanks. What's the name of it? PidIdealProbability?

Best,

Lu

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Subject: Re: PID arrays in Fast Sim

Posted by [Ralf Kliemt](#) on Fri, 09 May 2014 14:43:12 GMT

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Hi.

You'll find it with "IdealPidProbability".

Cheers

Ralf

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Subject: Re: PID arrays in Fast Sim

Posted by [Lu Cao](#) on Fri, 09 May 2014 14:54:13 GMT

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Hi Ralf,

one further question: is it same for the neutral particle?

Best,

Lu

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Subject: Re: PID arrays in Fast Sim

Posted by [Lu Cao](#) on Fri, 09 May 2014 15:11:41 GMT

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opps,something looks incomplete...

[INFO ] The number of entries in chain is 2000

[INFO ] Branch: IdealPidProbability not found in Tree

[INFO ] Branch: IdealPidProbability not found in Tree

Warning in <PndAnaPidCombiner::PndAnaPidCombiner::ReadTCA(>: No  
"IdealPidProbability" array found.

\*\*\* Break \*\*\* segmentation violation

Best,  
Lu

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Subject: Re: PID arrays in Fast Sim  
Posted by [Ralf Kliemt](#) on Mon, 12 May 2014 07:43:10 GMT  
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Hi Lu.

Does the branch exist in your file? Check with the TBrowser in root.  
Is your fsim up to date? I introduced the automatic ideal PID in the fastsim a week ago.

Cheers  
Ralf

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Subject: Re: PID arrays in Fast Sim  
Posted by [Lu Cao](#) on Mon, 12 May 2014 08:24:57 GMT  
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Hi Ralf,

It works now after I update to #24883.  
Thanks for helping.

Best,  
Lu

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