Subject: An option in the PID selector Posted by donghee on Sat, 08 Dec 2012 20:45:48 GMT View Forum Message <> Reply to Message

Dear PID users,

I'm wondering how can I use the option "Variable" in PndAnaPidSelector.

In my analysis macro, I have introduced a electron selector Quote: PndAnaPidSelector PIDelectron("PIDelectron"); PIDelectron.SetSelection("ElectronVeryLooseMinus");

The parameter of "VeryLoose" indicate the value of 0.1 into the selection as a set value. I would like to test and make a tuning this global PID cut value from 0.01 to 0.5 for each particle.

I have seen there are an option "Variable" for this purpose in PndAnaSelectorPar.cxx and I assume that one can adjust directly the input value in the analysis macro.

but I couldn't find the function, what I can control parameter. How can I set the value with PndAnaPidSelector?

Thank you for your help, Donghee

Subject: Re: An option in the PID selector Posted by StefanoSpataro on Sat, 08 Dec 2012 21:50:57 GMT View Forum Message <> Reply to Message

Check the end of macros/params/all.par

Subject: Re: An option in the PID selector Posted by donghee on Sat, 08 Dec 2012 22:35:36 GMT View Forum Message <> Reply to Message

Hi Stefano,

I'm talking about the way, that I control parameters in analysis level. If I change the value in all.par then will follow changing the value in my analysis macro? How does it work?

Donghee

Hi,

I'm interested in those parameters, too. What is the "variable" set for? And what is used if I use "Best" in FillList?

Simon

Subject: Re: An option in the PID selector Posted by StefanoSpataro on Fri, 07 Jun 2013 18:04:00 GMT View Forum Message <> Reply to Message

variate -> you can modify macro/params/pidana.par and all.par to set your own settings there. Best -> the particles which has the highest probability.

Subject: Re: An option in the PID selector Posted by Simon Reiter on Fri, 07 Jun 2013 18:18:02 GMT View Forum Message <> Reply to Message

But isn't the value to insert the probability? Because I got better results with VeryTight than with Best. And with better results I mean less wrong detected particles.

Subject: Re: An option in the PID selector Posted by StefanoSpataro on Fri, 07 Jun 2013 18:39:28 GMT View Forum Message <> Reply to Message

VeryTight means prob > 0.90.

Best is just the pio with the highest probability. This means that if your track has 0.25 probability being electron, 0.20 being a muon, 0.20 being a pion,0.20 being a kaon, 0.15 being a proton, it will be set as electron, even if with a poor probability. Beast is not the best selection, is only setting the best hypothesis for such track.

Page 2 of 2 ---- Generated from GSI Forum