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Subject: Re: MisID vs Impurity

Posted by [Malgorzata Gumberidze](#) on Sat, 24 Nov 2012 20:37:10 GMT

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few more explanations:

But as usual, I have still few question to better understand your definition of impurity.

$pi\_imp = PID_{\{e\}} > X / pi\_all$

I can understand about the nominator, that is reconstructed true pion, which is tested MC true PID matching.

I'm wondering about the  $PID_{\{e\}} > X$ .

Is it "selected true pion after doing MC PID match and requiring PID probability"

or

"any kind of tracks just passed given probability condition"?

I am not clear for this which one have to be applied to see whatever impurity or misID.

in both case i select MC true pions.

$pi\_all$  - are all TRUE MC pions without any condition on PID

$PID_{\{e\}}$  - are TRUE MC pions with condition on PID of being electron

i hope that soon we will come to the common point with definitions

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