
Subject: Re: Bug in PndPidEmcBayesAssociatorTask?
Posted by [Ronald Kunne](#) on Fri, 03 Feb 2012 15:52:08 GMT
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The problem seems to be that the Lateral Moment = 0, for the EMC cluster, which is strange.

Andreas Pitka wrote on Fri, 03 February 2012 14:15 LATin=0

I can't change the code, but you can cure it by changing lines 205-209 of
trunk/pid/PidClassifier/PndPidEmcBayesAssociatorTask.cxx :

```
// trafo that spreads out the parameters
pp = rangePconst0 + rangePconst1 * TMath::Log10(ppin);
Z20 = -TMath::Log10(1-z20in);
Z53 = -TMath::Log10(z53in);
LAT = -TMath::Log10(LATin);
```

into

```
// trafo that spreads out the parameters
if( ppin<0.000001) ppin=0.000001;
if(z20in>0.999999) z20in=0.999999;
if(z53in<0.000001) z53in=0.000001;
if(LATin<0.000001) LATin=0.000001;

pp = rangePconst0 + rangePconst1 * TMath::Log10(ppin);
Z20 = -TMath::Log10(1-z20in);
Z53 = -TMath::Log10(z53in);
LAT = -TMath::Log10(LATin);
```

This checks for zeroes in all four logarithms.

Friendly greetings,
Ronald Kunne
