
Subject: Re: Update Notes

Posted by [Simon Reiter](#) on Thu, 25 Jul 2013 21:40:40 GMT

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Hi,

I'm trying to rewrite my macros to trunk and need some changes. But I got to a point I'm not sure about. I'm checking the mother candidate after using McTruthMatch(RhoCandidate). I'm checking for primary pions directly from pbarpsystem (McIdx=0 or PdgCode=88888). But I want to use the code for my dpm background too, so (since rel apr13) there is no pdgcode for the first particle(just the McIdx=-1). Therefore I used GetMcMotherIdx() and checked if it's lower than zero, like this:

```
int motherId = mctrk[piplus[piplus].GetMcIdx()].GetMcMotherIdx();
if(motherId<0 || mctrk[motherId].PdgCode()==88888) {
```

So my question is now: Is mother set or not for primary pions?

```
theAnalysis->FillList(mctrk, "McTruth");
theAnalysis->FillList(piplus, "PionLoosePlus",pidalgor);
...
for (Int_t iplus=0;iplus<piplus.GetLength();++iplus){
  if (theAnalysis->McTruthMatch(piplus[iplus])){
    pidpiplus.Add(piplus[iplus]);
    RhoCandidate *mother = piplus[iplus]->TheMother();
    if(!mother || mother->PdgCode()==88888) {    <-----
      truepiplus.Add(piplus[iplus]);
    } else {
      falsepiplus.Add(piplus[iplus]);
    }
  }
}
```

Simon

PS: decay is: pbarpsystem ->pi+ pi- ... -> ...
