
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[iplus].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",pidalgs);  
...  
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- ... -> ...
