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Subject: Re: Not set McMotherIdx

Posted by [Andreas Pitka](#) on Wed, 15 May 2013 08:26:16 GMT

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PndMcTruthMatch is doing something like the following

```
00075 // check whether the mothers of all daughters are the same
00076 for ( Int_t i=1; i<nd; ++i ) {
00077     Int_t dauidx = c.Daughter ( i )->GetMcIdx();
00078
00079     if ( mct[dauidx].GetMcMotherIdx() != mothidx ) {
00080         if(verbose) Info("PndMcTruthMatch::MctMatch","rejected by not matching mother
ids in daughters");
00081         return false;
00082     }
00083 }
```

where mct is the Monte Carlo RhoCandList. Without the MotherIdx set for the particles in the McTruth RhoCandList the PndMcTruthMatch is totally useless, since "Bool\_t PndMcTruthMatch::MctMatch ( RhoCandidate& c, RhoCandList& mct, Int\_t level, bool verbose )" returns false all the time.

The problem is not getting the McTruth for a final state particle, but knowing for example if a D0 candidate is made of the tracks belonging to the Monte Carlo Daughters.

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