
Subject: [FIXED] PndAnalysis::McTruthMatch always returns false, again

Posted by [Simone Esch](#) on Tue, 23 Jul 2013 14:25:20 GMT

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Hi all,

i have again the problem that McTruthMatch always returns false, but at another level.

Now I try to match the whole decaytree of my Lambda LambdaBar decay.

What I do:

```
RhoCandList ppbarsystem;

ppbarsystem.Combine(lambda, lambdabar);
ppbarsystem.SetType(88888);

for(int b=0;b<ppbarsystem.GetLength();b++)
{
    if(theAnalysis->McTruthMatch(ppbarsystem[b],2,true))
    {
        // fill some histogram
    }
}
```

Output created:

```
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: 88888 and 2
daughters
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: 3122 and 2
daughters
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: 2212 and 0
daughters
Info in <PndMcTruthMatch::MctMatch>: accepted final state by PDG code (pdg=2212)
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: -211 and 0 daughters
Info in <PndMcTruthMatch::MctMatch>: accepted final state by PDG code (pdg=-211)
Info in <PndMcTruthMatch::MctMatch>: Particle 3122 reached level of matching, leaves, tree
topology and intermediate particle types are matched
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: -3122 and 2
daughters
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: -2212 and 0
daughters
Info in <PndMcTruthMatch::MctMatch>: accepted final state by PDG code (pdg=-2212)
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: 211 and 0 daughters
Info in <PndMcTruthMatch::MctMatch>: accepted final state by PDG code (pdg=211)
Info in <PndMcTruthMatch::MctMatch>: Particle -3122 reached level of matching, leaves, tree
topology and intermediate particle types are matched
```

Info in <PndMcTruthMatch::MctMatch>: rejected by not existing MC truth of daughter zero

This appears for all my llbar combinations.

Seems that the MCTruth tree is not build. Should this work and something is going wrong, or am I doing something wrong?

Best regards

Simone
