
Subject: Re: Using Rho without MC info
Posted by [Ralf Kliemt](#) on Wed, 16 Sep 2015 14:37:53 GMT
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Hi Marcel,

As far as the Analysis & Rho side is concerned, try the patch in the spoiler below. Basically now it tries to create MC Cands even if we have no MC Track array. This results in a message for each event. With the patch that message won't appear.

```
As the pi0 combinations go:
RhoCandList gammas, pi0s;
while (theAnalysis->GetEvent() && i++<nevt){
  theAnalysis->FillList(gammas, "Neutral");
  pi0s.Combine(gammas,gammas);
  ...
}
```

Cheers!
Ralf

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```
=====
--- PndAnalysis.cxx (revision 28526)
+++ PndAnalysis.cxx (working copy)
@@ -143,13 +143,13 @@

    if ( ! fMcTracks && fVerbose ) {
        std::cout << "-W- PndAnalysis::Init(): No \"MCTrack\" array found. No MC info available."
<< std::endl;
-    }
+    } else {
+        fBuildMcCands = true;
+        fMcCands = new TClonesArray ( "RhoCandidate" );
+        // next line commented by KG, 07/2012
+        fRootManager->Register ( "PndMcTracks","PndMcTracksFolder", fMcCands, kFALSE );
+    }

- fMcCands =new TClonesArray ( "RhoCandidate" );
-
- // next line commented by KG, 07/2012
- fRootManager->Register ( "PndMcTracks","PndMcTracksFolder", fMcCands, kFALSE );
- fBuildMcCands = true;
    }

    fChainEntries = ( fRootManager->GetInChain() )->GetEntries();
@@ -440,18 +440,17 @@
{
    int i;
    // Make Monte-carlo truth candidates by the reconstructed particles up to the initial state (if
available)
```

```
- if ( !fMcCands ){
-   Warning("PndAnalysis::BuildMcCands","No array to store candidates...");
-   return;
- }
+ if ( !fBuildMcCands ) {
+   if(fVerbose) Info("PndAnalysis::BuildMcCands","No mc to build...");
+   return;
+ }
+ if ( !fMcCands ){
+   Warning("PndAnalysis::BuildMcCands","No array to store candidates...");
+   return;
+ }
+ if ( fMcCands->GetEntriesFast() != 0 ) {
+   fMcCands->Delete();
+ }
-
- if ( fMcTracks == 0 ) {
-   Error ( "BuildMcCands","MC track Array does not exist." );
-   return;
- }
```
