Subject: Re: Wrong particle in FillList
Posted by Simon Reiter on Wed, 31 Jul 2013 17:35:35 GMT

Hi,
I'm not sure if it is corrected in the trunk, but I found something weird. While using the release APR13 I searched for pions and checked their pdg.

```
theAnalysis->FillList(mctrk, "McTruth");
theAnalysis->FillList(pions, "PionLooseCharged");

for(Int_t i=0;i<pions.GetLength();i++) {
  if (!mcm.MctMatch(pions[i], mctrk)){
    ...
  }
}
```

At ... I printed the McIdx of "pions", the PdgCode of "pions" and the "PdgCode" of mctrk.

McIdx: 2311 pdg: 211
McPdg of 2311: -211

McIdx: 174 pdg: 211
McPdg of 174: 1000010020
 .
 .
 .

While MctMatch is comparing the pdgcode of "pions[i]" and the one pointed to in mctrk, there shouldn't be any difference, if "McIdx" of "pions[i]" is set correctly. But there are plus-minus problems..
Additionally what is pdg 1000010020? This number is set by "McTruth"!!!

Is the default PID "PidAlgoIdealCharged" with MC information or not? And will this be corrected in the release?

Best regards,
Simon