
Subject: Broken FairLinks?

Posted by [Marcel Tiemens](#) on Thu, 26 May 2016 12:42:43 GMT

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This is basically a follow-up on my last post on the sorting of objects.

Here's the situation: After having created EmcCluster objects, I shuffle them around and store them in newly formed groups in a new Tree. To get to some of the cluster properties, I need access to the base digis. However, Tobias pointed out to me that the EmcCluster only saves the integer of the position in the TClonesArray but not the event. Therefore, the standard way to access the digis cannot be used for the clusters in the new groups. He suggested to use `EmcCluster::GetLinksWithType("EmcDigi")` and then use `FairRootManager::GetCloneOfLinkData(...)`, which I tried, but then the following happens:

I try to access the links using

```
FairMultiLinkedData digiLinks =  
clu->GetLinksWithType(FairRootManager::Instance()->GetBranchId("EmcDigi "));
```

with `clu` a pointer to an `EmcCluster`, but then `digiLinks.GetNlinks()` returns 0 for the `PndEmcMakeCluster` task, and sometimes 1 for `PndEmcMakeClusterOnline` (my own task), which uses `cluster->AddLink(FairLink("EmcDigi",i))`; instead of the more complicated scheme `PndEmcMakeCluster` uses. So it doesn't look like it finds any links.

For the one it does sometimes find, it says that "FairLink (0/206/8/1/1)to EmcDigi delivers null" or "FairLink (-1/-1/7/1/1)to EmcDigi delivers null", depending on whether I use the branch with sorted digis or the normal one.

I'm using a modified version of the `PidCorrelator` task, adding as input files the sim file, digi file, original cluster file (including the sorted clusters), and regrouped cluster file. Only the regrouped cluster file has a branch called "EmcCluster".
