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Subject: Re: use MC particle hypothesis in PndRecoKalmanTask

Posted by [Stefano Spataro](#) on Wed, 30 Oct 2013 15:31:32 GMT

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You need to add the mc track associator for the forward ideal tracker and to uncomment the correlated line in the kalman task:

```
PndFtsTrackerIdeal* trackFts = new PndFtsTrackerIdeal();
trackFts->SetRelativeMomentumSmearing(0.05);
trackFts->SetVertexSmearing(0.05, 0.05, 0.05);
trackFts->SetTrackingEfficiency(1.);
trackFts->SetTrackOutput("FtsIdealTrack");
fRun->AddTask(trackFts);
```

```
->PndMCTrackAssociator* trackMCfwd = new PndMCTrackAssociator();
->trackMCfwd->SetTrackInBranchName("FtsIdealTrack");
->trackMCfwd->SetTrackOutBranchName("FtsIdealTrackID");
->fRun->AddTask(trackMCfwd);
```

```
PndRecoKalmanTask* recoKalmanFwd = new PndRecoKalmanTask();
recoKalmanFwd->SetTrackInBranchName("FtsIdealTrack");
->recoKalmanFwd->SetTrackInIDBranchName("FtsIdealTrackID");
recoKalmanFwd->SetTrackOutBranchName("FtsIdealGenTrack");
recoKalmanFwd->SetBusyCut(50); // CHECK to be tuned
recoKalmanFwd->SetIdealHyp(kTRUE);
//recoKalmanFwd->SetNumIterations(3);
fRun->AddTask(recoKalmanFwd);
```

Remember to switch on the idealhyp also for the barrel kalman task:

```
recoKalman->SetIdealHyp(kTRUE);
```

The default macros in macro/run have such modification (but idealhyp set to kFALSE)

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