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Subject: Re: Ideal Tracking Tasks

Posted by [Stefano Spataro](#) on Thu, 21 Mar 2013 17:50:35 GMT

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Hi Ralf,

I have added a ideal reconstruction macro under pandaroot/macro/run/recoideal\_complete.C

I put there:

```
PndSttMvdGemTrackingIdeal* trackStt = new PndSttMvdGemTrackingIdeal();
trackStt->SetRelativeMomentumSmearing(0.05);
trackStt->SetVertexSmearing(0.05, 0.05, 0.05);
trackStt->SetTrackingEfficiency(1.);
trackStt->SetTrackOutput("SttMvdGemIdealTrack");
fRun->AddTask(trackStt);
```

What I find strange is that if I run muons (13) at 1 GeV, with a momentum smearing of 5%, once I plot:

```
cbmsim.Draw("-1./SttMvdGemIdealTrack.fTrackParamLast.fQp>>aa(200,-1.5,0.5)","SttMvdGemIdealTrack.fRefIndex==0")
```

I obtain a width of 37 MeV instead of 50. Vertices seem fine.

Could you please check also in your case?

The second thing I found is that half of the track are failing with the kalman, which sounds a bit strange. But this I could check more deeply later.

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