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Subject: Problems with TPC and genfit

Posted by [StefanoSpataro](#) on Tue, 05 Oct 2010 14:19:38 GMT

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Hi,

I have found new "troubles" with TPC code, after the last update this morning.

If I try the qa macros: macros/run/ sim/digi/reco\_complete\_tpc.C, the reco have these warnings:

```
PndTpcClusterFinderTask::Exec
```

```
number of digis: 1443
```

```
DEBUG: built sector map
```

```
DEBUG: digilist has 0 entries
```

```
DEBUG: digilist has 0 entries
```

```
DEBUG: digilist has 0 entries
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DEBUG: digilist has 0 entries
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DEBUG: digilist has 0 entries
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DEBUG: digilist has 0 entries
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DEBUG: digilist has 0 entries
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DEBUG: digilist has 0 entries
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```
DEBUG: digilist has 0 entries
```

```
DEBUG: digilist has 40 entries
```

```
DEBUG: digilist has 44 entries
```

```
DEBUG: digilist has 53 entries
```

```
DEBUG: digilist has 61 entries
```

```
DEBUG: digilist has 47 entries
```

and a final crash:

```
GFABsTrackRep::chi^2
```

```
97.85
```

```
+++++  
starting track2
```

```
49 hits in track 2
```

```
*** Number of clusters in track: 49 ***
```

```
starting fit
```

```
Calling processTrack
```

```
root.exe: /d/panda02/spataro/pandaroot/genfit/geometry/GFGeoMatManager.cxx:70: float
```

```
MeanExcEnergy_get(int): Assertion `Z>0&&Z<=MeanExcEnergy_NELEMENTS' failed.
```

If I try the macros in pid (run\_sim\_tpccomb\_pgun.C and run\_digi\_tpccombi.C) I have the following messages:

```
PndTpcSectorProcessor::process(): Digi buffer is empty!
```

```
PndTpcSectorProcessor::process(): Digi buffer is empty!
```

```
PndTpcSectorProcessor::process(): Digi buffer is empty!
```

```
PndTpcSectorProcessor::process(): Digi buffer is empty!
```

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PndTpcSectorProcessor::process(): Digi buffer is empty!
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```
PndTpcSectorProcessor::process(): Digi buffer is empty!
```

What's going wrong?

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Subject: Re: Problems with TPC and genfit  
Posted by [Felix Boehmer](#) on Thu, 07 Oct 2010 03:06:15 GMT  
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Hi Stefano,

there was a problem in genfit, which was fixed and checked in today (I am not sure if the version of the externals has been set correctly yet, but this was communicated in any case and should be done shortly).

The "warnings" are just debug output I put in to monitor the sector processors during the clustering. There is nothing to worry about here

I will remove them soon.

Cheers

Felix

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