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Subject: Re: update stable branch...

Posted by [StefanoSpataro](#) on Fri, 29 Jan 2010 09:33:58 GMT

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Yesterday I have checked the qa macros, just to understand what is going good and what is wrong.

Here the list of wrong things:

a) DCH and forward EMC are overlapping. I don't know who is in the correct place, for sure I know that both DCH and FEMC geometries are obsolete. Maybe we could comment out the shashlick.

b) inside dipole geometry there are three overlaps

c) in my pc, sim\_complete\_tpc.C is stuck at event #6, and sometime it takes 300 seconds. Maybe the time there should be enlarged

d) Why in the reco\_complete\_tpc.C there are all the STT reconstruction tasks However they do not affect at all the reconstruction. I will correct it.

e) In several machines reco\_complete\_tpc.C fails, with the following error

Toggle Spoiler

```
### Empty Track. No hits/digis inside
```

```
-I- PndMvdPixelClusterTask: 25 Mvd Clusters and 25 Hits calculated.
```

```
Program received signal SIGFPE, Arithmetic exception.
```

```
[Switching to Thread -1208527168 (LWP 17466)]
```

```
0x03fb484c in PndGemTrackFinderOnHits::RemoveCloneTracks (this=0xa9a6b00,
nofRecoTracks=1) at /home/spataro/dart/trunk/gem/PndGemTrackFinderOnHits.cxx:433
433      if ( meanPhi[itr]/nofTS[itr] < 5. && iterTS.trackPhi > 355. ) { iterTS.trackPhi -= 360.; }
```

```
Current language: auto; currently c++
```

```
(gdb) bt
```

```
#0 0x03fb484c in PndGemTrackFinderOnHits::RemoveCloneTracks (this=0xa9a6b00,
nofRecoTracks=1)
```

```
at /home/spataro/dart/trunk/gem/PndGemTrackFinderOnHits.cxx:433
```

```
#1 0x03fb3a9c in PndGemTrackFinderOnHits::DoFind (this=0xa9a6b00, hitArray=0xb32a370,
trackArray=0xb47bb18)
```

```
at /home/spataro/dart/trunk/gem/PndGemTrackFinderOnHits.cxx:288
```

```
#2 0x03fbc00f in PndGemFindTracks::Exec (this=0xa9a3bf0, opt=0x72558e8 "") at
/home/spataro/dart/trunk/gem/PndGemFindTracks.cxx:145
```

I think this is due to a not protected division by zero. But why that number is zero...

f) fsim is crashing due to a "wrong" smearing of the vertex for neutral particles. I have sent a mail to Klaus.

Now words to the "experts"...

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