Subject: Re: Digitization and Reconstruction in Fairroot to new detectors Posted by Raghav Kunnawalkam on Thu, 28 Jun 2012 14:57:49 GMT View Forum Message <> Reply to Message

## Hi Stefano

I am kinda confused as to where and how to define my read outs. For example say that i have a barrel tracker that is a cylinder from z = -10 to z = +10, with radius say 5 to 10 with all having the same units.

Now say that in the real world, my barrel tracker (Batr) has read outs every 1 unit in radius and 5 degree in theta and phi. So i have like a little section with r = 5 to 6, and theta = 0 to 5 and phi = 0 to 5 inside which i cannot differentiate between hits.

I am very confused as to which class actually does my digitization. from my reading since yesterday and what you told i see that it is the hit along with hit producer that creates the data that i need.

I think that these are the steps that i need to follow, Please correct me if i am wrong.

1. First i create the following classes for my detector

FairBatr.cxx, FairBatrContFact.cxx, FairBatrGeo.cxx, FairBatrGeoPar.cxx, FairBatrPoint.cxx, FairBatrHit.cxx, FairBatrHitProducer.cxx, FairBatrDigi.cxx, FairBatrDigiProducer.cxx, ( if i want to do reco after this then i also add some more classes)

- 2. create the readouts in FairBatrHit, just like there are mdtdigibox and mdtdigistrip
- 3. Inside FairBatrHitProducer, in the Exec function do the actual digitization. this is exactly what i am confused about.
- 4. pretty much after part 2 i am confused.

Thanks a lot for all your help

Cheers Raghav

Page 1 of 1 ---- Generated from GSI Forum