Subject: update EMC geometry
Posted by Dima Melnychuk on Thu, 22 Sep 2011 15:05:10 GMT
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Hi all,

I have just added another version of emc geometry which combines
new version of forward endcap emc_module3_2011_new.root with root version of shashlyk.

Geometry version is 20 and corresponding version of EmcMapper 11, i.e. the following should be used in simulation macro

```
PndEmc *Emc = new PndEmc("EMC",kTRUE);
Emc->SetGeometryVersion(20);
```

and if EmcMapper should be initialised in macro to use some EMC classes:

PndEmcMapper::Init(11);

Dima

Subject: Re: update EMC geometry
Posted by Dima Melnychuk on Fri, 23 Sep 2011 15:18:29 GMT
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Hi all,

I have modified Emc Mapper to simplify procedure to add new versions of modules.

For example for the recent update of forward endcap geometry in PndEmcMapper the constructor should be implemented, which include only mapper for this module

PndEmcMapperGeo3RootV2::PndEmcMapperGeo3RootV2()

and then it is combined in Init() method with other module using Add() method

```
_instance = new PndEmcMapperGeo12Dat();
_instance->Add(new PndEmcMapperGeo3RootV2());
_instance->Add(new PndEmcMapperGeo4Root());
_instance->Add(new PndEmcMapperGeo5Root());
```

In addition I modified slightly PndEmc::SetGeometryVersion() method which defines available EMC geometries.
I removed some geometry options which I consider completely obsolete and made the geometry which should be used by default (
"emc_module12.dat","emc_module3_2011_new.root","emc_module4_StraightGeo24.4.root
","emc_module5_fsc.root")
as a version 1.

I.e. in simulation macro it should be called

```
PndEmc *Emc = new PndEmc("EMC",kTRUE);
Emc->SetGeometryVersion(1);
```

and corresponding EmcMapper version is 1.

The same geometry without shashlyk has version 2.

Dima

Subject: Re: update EMC geometry
Posted by StefanoSpataro on Fri, 23 Sep 2011 15:25:20 GMT
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Very nice,
but for the mapper maybe it could be better if the value would be written in the param file once the geoemtry is created, and automatically loaded in digi/reco/pid/analysis from it.
Don't ask me if this can be done easily in the framework...
