
Subject: Simulation for lambda-lambda bar benchmark chennai

Posted by [Ajay Kumar](#) on Tue, 09 Oct 2012 15:24:19 GMT

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Hi Panda Routers,

I want to simulate lambda-lambda bar benchmark channel for my analysis.
In simulation macro I am having following sub detectors with this order:-

```
// Create and add detectors
//-----
FairModule *Cave= new PndCave("CAVE");
Cave->SetGeometryFileName("pndcave.geo");
fRun->AddModule(Cave);

FairModule *Magnet= new PndMagnet("MAGNET");
//Magnet->SetGeometryFileName("FullSolenoid_V842.root");
Magnet->SetGeometryFileName("FullSuperconductingSolenoid_v831.root");
fRun->AddModule(Magnet);

FairModule *Dipole= new PndMagnet("MAGNET");
Dipole->SetGeometryFileName("dipole.geo");
fRun->AddModule(Dipole);

FairModule *Pipe= new PndPipe("PIPE");
fRun->AddModule(Pipe);

FairDetector *Stt= new PndStt("STT", kTRUE);
Stt->SetGeometryFileName("straws_skewed_blocks_35cm_pipe.geo");
fRun->AddModule(Stt);

FairDetector *Mvd = new PndMvdDetector("MVD", kTRUE);
// Mvd->SetGeometryFileName("Mvd-2.1_FullVersion.root");
Mvd->SetGeometryFileName("Mvd-2.1_AddDisks_FullVersion.root");
fRun->AddModule(Mvd);

PndEmc *Emc = new PndEmc("EMC",kTRUE);
Emc->SetGeometryVersion(2);
Emc->SetStorageOfData(kFALSE);
fRun->AddModule(Emc);

PndMdt *Mu0 = new PndMdt("MDT",kTRUE);
Mu0->SetBarrel("fast");
Mu0->SetEndcap("fast");
Mu0->SetMuonFilter("fast");
Mu0->SetMdtMagnet(kTRUE);
Mu0->SetMdtMFIron(kTRUE);
fRun->AddModule(Mu0);

FairDetector *Gem = new PndGemDetector("GEM", kTRUE);
Gem->SetGeometryFileName("gem_3Stations.root");
fRun->AddModule(Gem);
```

```
PndDsk* Dsk = new PndDsk("DSK", kTRUE);  
Dsk->SetGeometryFileName("dsk.root");  
Dsk->SetStoreCerenkovs(kFALSE);  
Dsk->SetStoreTrackPoints(kFALSE);  
fRun->AddModule(Dsk);
```

```
PndDrc *Drc = new PndDrc("DIRC", kTRUE);  
Drc->SetGeometryFileName("dirc_I0_p0.root");  
Drc->SetRunCherenkov(kFALSE); // for fast sim Cherenkov -> kFALSE  
fRun->AddModule(Drc);
```

```
FairDetector *Fts= new PndFts("FTS", kTRUE);  
Fts->SetGeometryFileName("fts.geo");  
fRun->AddModule(Fts);
```

Now the Questions goes like as:-

Should I put any more subdetectors in my sim macro?

Does the order of implementation of detectors matters?

Thanks
