Subject: Re: Setting detector component colors in Geant (4)
Posted by asanchez on Fri, 17 Sep 2010 13:05:08 GMT
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Dear Johen, ere you are the script I'm using to put
colors to my detectors using geant4.

You only have to take a look into.

best regards
ALicia.

```
eventDisplay()
{
   // Load basic libraries
  gROOT->LoadMacro("$VMCWORKDIR/gconfig/rootlogon.C");
  rootlogon();
  gSystem->Load("libEve");
  gSystem->Load("libEventDisplay");
  gSystem->Load("libHypGe");
  gSystem->Load("librazhyp");
  gSystem->Load("libHyp");
  gSystem->Load("libTof");

  // -----   Reconstruction run   ----------------------------------------
  FairRunAna *fRun= new FairRunAna();
  //fRun->SetInputFile("points.x3872.jpsipipi.phsp.root");
 // fRun->SetInputFile("../qa/lhetrack/points_tpccombi.root");
  fRun->SetInputFile("/d/pndint02/asanchez/FOct09/sim_hypFSG41TCIPAxxbG.root ");/
/sim_with_vis.root");
//  fRun->SetInputFile("../drc/testrun1.root");
 // fRun->SetInputFile("../dsk/sim_dsk.g4native.root");
  fRun->SetOutputFile("tst.root");
 // fRun->LoadGeometry();



  FairRuntimeDb* rtdb = fRun->GetRuntimeDb();
  FairParRootFileIo* parInput1 = new FairParRootFileIo();
//  parInput1->open("../drc/testparams.root");
  parInput1->open("../hyp/SimG41TCIPAxxbGparams.root");//params_with_vis.root ");

  rtdb->setFirstInput(parInput1);


  FairEventManager *fMan= new FairEventManager();
  FairMCTracks *Track =  new FairMCTracks ("Monte-Carlo Tracks");
  // FairMCPointDraw *MvdPoints =   new FairMCPointDraw ("MVDPoint",kBlue,  kFul
lSquare);
//   FairMCPointDraw *EMCPoints =   new FairMCPointDraw ("EmcPoint",kOrange,  kF
ullSquare);
  FairMCPointDraw *TofPoint =    new FairMCPointDraw ("TofPoint",kYellow,  kFull
```

```
Square);
  FairMCPointDraw *TofSciFPoint= new FairMCPointDraw ("TofSciFPoint",kTeal, kFul
lSquare);
  FairMCPointDraw *MuoPoint =    new FairMCPointDraw ("HypPoint",kAzure, kFullSq
uare);
  // FairMCPointDraw *PndDrcPoint = new FairMCPointDraw ("PndDrcPoint",kViolet,
kFullSquare);
//   FairMCPointDraw *PndDchPoint = new FairMCPointDraw ("PndDchPoint",kPink, kF
ullSquare);
  FairMCPointDraw *PndTpcPoint = new FairMCPointDraw ("PndTpcPoint",kCyan,  kFul
lSquare);
 // FairMCPointDraw *PndSTTPoint = new FairMCPointDraw ("STTPoint",kMagenta, kFu
llSquare);


  fMan->AddTask(Track);

  // fMan->AddTask(MvdPoints);
//   fMan->AddTask(EMCPoints);
  fMan->AddTask(TofPoint);
  fMan->AddTask( TofSciFPoint);
  fMan->AddTask( MuoPoint);
  // fMan->AddTask( PndDrcPoint);
//   fMan->AddTask( PndDchPoint);
  fMan->AddTask( PndTpcPoint);
 // fMan->AddTask( PndSTTPoint);


  fMan->Init();
  char str[80];
   char str1[80];
   char str2[80];
   char  str3[80];

   TGeoNode* trk;
   TGeoNode* trl;
   TGeoNode* trab;
   TGeoNode* trsi;

  std::cout<<" gGeoM "<<gGeoManager<<std::endl;
  int k;

  TGeoVolume* top = gGeoManager->GetTopVolume();
  for(int i=0;i<4;i++)
    {


      sprintf(str,"stg0%d_1",i+1);
      std::cout<<" name "<<str<<std::endl;

      TGeoNode* trk = top->FindNode(str);
      cout<<" tr "<<trk<<endl;
```

```
     for(int j=0;j<20;j++){
  if(i==0)  k = j;
  if(i==1)  k = j+20;
  if(i==2)  k = j+40;
  if(i==3)  k = j+60;

  sprintf(str1,"stglay%d_1",k);
  TGeoNode* trl = trk->GetVolume()->FindNode(str1);
  //cout<<" trl "<<trl<<" name "<<str1<<endl;


  sprintf(str2,"stglAb%d_1",k);
  TGeoNode* tra = trl->GetVolume()->FindNode(str2);
  //cout<<" tra "<<tra<< " same "<<str2<<endl;
  tra->GetVolume()->SetLineColor(kYellow);
  sprintf(str3,"stglSi%d_1",k);
  TGeoNode* trs = trl->GetVolume()->FindNode(str3);
  //cout<<" tra "<<tra<< " same "<<str2<<endl;
  trs->GetVolume()->SetLineColor(kMagenta);
  //fMan->AddGlobalElement(tra[k]);
      }
    }


}
```