
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("librazhyps");
  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_hypFSG41TCIPAxG.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/SimG41TCIPAxGparams.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, kFullSquare);
  // FairMCPointDraw *EMCPoints = new FairMCPointDraw ("EmcPoint",kOrange, kFullSquare);
  FairMCPointDraw *TofPoint = new FairMCPointDraw ("TofPoint",kYellow, kFull
```

```

Square);
FairMCPointDraw *TofSciFPoint= new FairMCPointDraw ("TofSciFPoint",kTeal, kFullSquare);
FairMCPointDraw *MuoPoint = new FairMCPointDraw ("HypPoint",kAzure, kFullSquare);
// FairMCPointDraw *PndDrcPoint = new FairMCPointDraw ("PndDrcPoint",kViolet, kFullSquare);
// FairMCPointDraw *PndDchPoint = new FairMCPointDraw ("PndDchPoint",kPink, kFullSquare);
FairMCPointDraw *PndTpcPoint = new FairMCPointDraw ("PndTpcPoint",kCyan, kFullSquare);
// FairMCPointDraw *PndSTTPoint = new FairMCPointDraw ("STTPoint",kMagenta, kFullSquare);

```

```
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]);
    }
}
}

```