
Subject: GenaeTrackRep DetPlane

Posted by [asanchez](#) on Mon, 25 May 2009 09:34:51 GMT

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Dear Lia and Susanna,

I have one more question related to how one should define the DetPlane in order to use geanetrakrep.

So far i know (please correct me if i'm wrong)

In Geane coordinates system, the direction of the propagation is the X-axis, right??.

I have seen that in (stt case) PndSttPatternRecoTask2.cxx class, you define the Detector plane in the Y--Z projection so as to have the beam in the x--direction.

```
176      TVector3 u(0.,1.,0.);
177      TVector3 v(0.,0.,1.);
178      DetPlane pl(StartPos,u,v);
179
180      AbsTrackRep* rep = 0;
181      GeaneTrackRep *grep = new
GeaneTrackRep(fPro,pl,StartMom,StartPosErr,StartMomErr,fCharge,pdg)
;
```

Is that general for all detectors, i mean, if one wants to use GeaneTrackRep representation, should the detplane be defined also in the Y--Z projection?

I say that, because for example, in the LSLTrackRep, the detplane is defined as beeing in the X--Y projection.

```
    TVector3 u(1.,0.,0.);
    TVector3 v(0.,1.,0.);
```

Thank you in advance,
ALicia Sanchez.