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Subject: Re: Problems with GEANE and trackbase  
Posted by [Sebastian Neubert](#) on Tue, 08 Apr 2008 12:27:24 GMT  
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Hi!

In CbmTrackParP (SD system) I found this inconsistency (at least it is an inconsistency with my understanding):

```
TVector3 positionsd = util.FromMARSToSDCoord(TVector3(fX, fY, fZ), forigin, fiver, fjver,
fkver);
  fU = positionsd.X();
  fV = positionsd.Y();
  fW = positionsd.Z();
```

The SD system is defined in such a way, that v and w span the detector plane. However this should correspond to x and y when I define a Detectorplane like this:

```
DetPlane plane(TVector3(0.0,0.0,0.0),TVector3(1.,0.,0.),TVector3(0.,1.,0.));
```

Looking to the paper by Andrea and Pablo it is clear to me that this is indeed connected to the SP representation where the beam IS a special direction and is assumed to be the x-axis instead of the z-axis as we have in PANDA.

Ideas how to solve this are most welcome!

Cheers!  
Sebastian.

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