Subject: Re: Problems with GEANE and trackbase
Posted by Sebastian Neubert on Tue, 08 Apr 2008 12:27:24 GMT

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.