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Subject: Re: Conversion of track parameters

Posted by [Lia Lavezzi](#) on Wed, 15 Jul 2009 14:42:04 GMT

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Hi,

after testing the changes I uploaded to svn the new versions of the FairTrackPar\* classes.

1) In FairTrackParP/H, there are two new constructors:

FairTrackParP(FairTrackParH \*helix, TVector3 dj, TVector3 dk, Int\_t &ierr)

and

FairTrackParH(FairTrackParP \*parab, Int\_t &ierr)

which allow the user to create a parabola from an helix, by setting also the unit vector which span the plane, (and an helix from a parabola) without directly calling FairGeaneUtil functions. The transformation is not always possible, the problematic cases are flagged in FairGeaneUtil by the IERR flag, so I kept it also here and I printed an error message.

2) In FairTrackPar, Stefano, I added your two functions to easily get momentum and position in MARS (master reference system) as a 3-vector.

Obviously if you find that something does not work as it should, please tell me!

Ciao,  
Lia.