

Hi,

I have seen that in the constructors of FairTrackPar and GeaneTrackRep the charge is defined as integer and double respectively.

This leaves the following warning:

./../trunk/GenfitTools/trackrep/GeaneTrackRep/GeaneTrackRep.cxx:53: warning: passing 'double' for argument 5 to 'FairTrackParP::FairTrackParP(TVector3, TVector3, TVector3, TVector3, Int\_t, TVector3, TVector3, TVector3)' and not only, due to the following lines:

```
GeaneTrackRep::GeaneTrackRep(FairGeanePro* geane,
                             const GFDetPlane& plane,
                             const TVector3& mom,
                             const TVector3& poserr,
                             const TVector3& momerr,
                             double q,
                             int PDGCode)
: GFabsTrackRep(5, _geane(geane), _pdg(PDGCode), _backw(0)
{
    FairTrackParP
    par(plane.getO(),mom,poserr,momerr,q,plane.getO(),plane.getU(),plane.getV());(5th parameter
-> q).
```

I think both objects should use the same kind of variable, to be much less "error prone".

Indeed, the conversion from double to integer is dangerous:

```
int(0.9999999) = 0
```

I think this is quite important! Even other tracking codes should be changed to use a common standard for the particle charge, by substitution of all the current conversions (once fixed if it is better to use int or double).