Quote:
Ok, it' s just a matter of names
Ok, but you can
If you have a look in the FairTrackParH.h, the comment at the beginning contains the 5 parameters:
q/p, lambda, phi, y_perp, z_perp
In the code the name of the parameters are:
fLm = lambda
fPhi = phi
fX_sc = x_perp
fY_sc = y_perp
fZ_sc = z_perp


It is a matter of names only if you know what those names mean (not my case)  And once they are also called in a different way, the amount of confusion in my mind increases.

However, it seems I do not need those parameters for my helix, even because all the defnitions are to move from one system to another, but what I need is how the position/momentum variates along the track.
I have found a document in internet that explains what I need, to characterize my track:

center of the helix (to calculate drho, and phi0)
radius of the helix (to calculate drho)
pt (to calculate k)
lambda

Of these 5 params, I have already lambda, pt, and the radius can be calculated from p. I am only missing the center of the helix, that can be calculated with the suggested method of Gianluigi.

I will try and cross my fingers hoping that it will work.