Subject: Helix and FairTrackParH
Posted by StefanoSpataro on Wed, 22 Jul 2009 15:37:02 GMT
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Hello,
I would like to understand the helix parameters used in FairTrackParH, which are different from the ones present in the old-style PndTpcLheTrack.

Could somebody write, according to our "standard" definition of helix parameters, how our track is represented?
The helix parameters are: x0, y0, z0, lambda, phi, charge (even if it is q/p in FairTrackParH).
How can I know the following functions?

x = x(s)
y = y(s)
z = z(s)
px = px(s)
py = py(s)
pz = pz(s)

I have checked some tracking papers but without founding this representation. This is very important for fast correlation inside the barrel.

Thanks in advance.