Dear Stefano,

I wrote the routines that change references. The systems are   defined in:
http://www.pv.infn.it/~rotondi/tracking.pdf
and explained in the routine comments.

If you want to avoid the direct use of these, I will think
about with Lia and we will try to solve.

As a last remarks, remember that the helix and parabola labels are
meaningless: the tracking is always made by using helix pieces!
The SC system is the transverse system, with momentum perp to
the reference plane (is called helix); the SD system has the   reference plane coincident with
that of the detector (it is called
for misterious reasons parabola)

best regards
Alberto