Hi Johannes,
  thanks for your reply.

Quote:the GFKalman treats q/p as a free parameter (which can also change sign).
But in the RKTrackRep, the charge was fixed. I fixed this bug, and now the sign of the charge is set according to fState[0][0] in setData().
With your fix in the RKTrackRep, is the charge set to a fixed value along all the Kalman procedure, i.e. the Kalman is not allowed to change the sign of q/p anymore, or does the fix just set the final charge  back to the input one when the Kalman output has the wrong sign (after all the fitting procedure)?

Quote:I didn't check GeaneTrackRep yet, but maybe there is the same problem.
Are you looking also into GeaneTrackRep to check whether there is the problem or not? Just to know whether I have to investigate this by myself or not.
            Cheers,
             Lia.