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Subject: Re: Changes in PndTpcRiemannTrackingTask  
Posted by [Johannes Rauch](#) on Tue, 26 Jul 2011 12:07:44 GMT  
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Quote:Then you have a found track with a charge sign as input to the Kalman and AFTER the Kalman fit you can have that the charge has changed sign, right?

Yes.

Quote:Since the Kalman changes the sign at runtime, could it happen that the charge associated to the last hit (last params I mean) has opposite sign with respect to the one of the first hit?

When smoothing is not turned on, the track has only one state, and therefore only one charge.

I don't know what happens with smoothing turned on.

But what I saw in my display ist that usually in the second iteration the Kalman flips the charge if necessary. So with 3 iteration the charge should be consistent for all hits.

cheers,

Johannes

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