
Subject: Re: Question on GeaneTrackRep.

Posted by [Sebastian Neubert](#) on Tue, 10 Mar 2009 09:26:43 GMT

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Dear colleagues,

I thought about this issue for some time at several occasions in the past and I always came to the conclusion, that there is no failsafe way to handle this ambiguity. From the measured hits alone one cannot tell in which direction the particle was going. The most general way is to fit both hypotheses.

One could make some tentative assumptions based on the general topology (most tracks come from the IP) but this is not general.

In my view it is a question that cannot be solved in the fitter! The direction of the track has to be decided upon during pattern recognition.

The hits have to be sorted along the track before the fitting! This has always been pointed out. It is also part of the pattern recognition (and not the easiest one).

Cheers!
Sebastian.