Subject: Re: cov[0][0] = 0 in Kalman.cxx
Posted by Susanna Costanza on Thu, 19 Jun 2008 13:03:41 GMT
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Thank you for your explanation about the use of exceptions!

I did some tests... What I see is that throwing away all the events in which cov[0][0] is null results in a considerable loss of efficiency.
Instead, if you skip just that particular hit in which the covariance matrix has that problem, GEANE propagates to the next hit and sometimes the track returns to the right path. The resulting Kalman rep is quite good and the efficiency is higher.

Ok, I agree that cov[0][0] should never be 0 and we will take a look in order to understand why there is this strange behaviour for some events...
In the meantime, do you think it's a so bad idea to "convert" the exception into a return, in order to save a bigger number of tracks?

Ciao,
Susanna