Subject: Re: Tutorial macro - tut_pid.C - crash due to kSigFloatingException
Posted by Lia Lavezzi on Fri, 30 Aug 2013 09:20:08 GMT
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Hi,
I made some tests yesterday and I asked Elisabetta to check the results with her events too and it results that the problem of geane is actually due to a track with momentum 0.
To be more clear: before the propagation there is a check on the "last" momentum, to be sure it is > 0, but afterwards the "first" momentum is fed into geane for the propagation. As pointed out also by Stefano, sometimes the first and last points have very different momenta and, in the case of the crash, the first momentum is 0 and so geane crashes.

Moreover in the test I made I get for the track failing in propagation:
first pos = (26.930000,65.389999,190.124405)
first mom = (0.000000,0.000000,0.000000)
last pos = (26.930000,65.389999,190.124405)
last mom = (0.628132,1.180328,3.604733)
So the first and last positions coincide (also, at a very high z, even though in the track cand list there are also mvd hits associated).

The track has flag = -1, so it could be easily skipped just by requesting that if(track->GetFlag() < 0) continue;

Is it possible to add this line to skip wrongly fitted tracks? Is there a reason why we decided not to skip them?

Regards,
Lia.