
Subject: Re: One question about tracking efficiency
Posted by [Stefano Spataro](#) on Thu, 22 Apr 2010 09:26:12 GMT
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Hi,

I have found a bug in the EvtGen reader, that maybe could affect your analysis.
EvtGen manual says that the vertex position is expressed in mm, but PndEvtGenGenerator is giving the position to the VMC as cm.

I have modified PndEvtGenGenerator, to use is you should update your "pgenerator" folder, and then rerun your simulation (not evtgen, but from the "sim" macros up to the end).

This could explain maybe your problem. In your event, particles 3 4 and 5 are emitted at 6 mm from the vertex, but if they are propagated as 6cm, then the track finder will fail.

In this case, you should modify in your sim macro:

FairEvtGenGenerator -> PndEvtGenGenerator

Could you please try and let me know if it improves your results?
Fair stays with the old code, while Pnd should be the fixed one.
(crossing our fingers).
