
Subject: Re: Lhe tracking results: reconstruction error for transverse momenta ≤ 1 GeV/c, all five partic

Posted by [David Pohl](#) on Wed, 24 Nov 2010 12:57:34 GMT

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Hi Stefano,

okay. This means that the Kalman task does not take the bremsstrahlung correctly into account?

The x-y plane plots for the LheHits are not too easy to judge.
I think to recognize circles is not easy for the human brain .

On the first view one can assume that the kaons for 200 MeV/c transverse momenta do not lie on a circle.
Especially in the outer regions:

Corresponding reconstructed transverse momenta:

For 300 MeV/c transverse momenta the kaon tracks do not look that bent:

Corresponding reconstructed transverse momenta:

For electrons it's an issue of the Kalman task I think:

Corresponding reconstructed transverse momenta:

Honestly I am at the moment quite busy with writing my thesis and have no time to do dedicated "bug search".

I just wanted to show this issue to inform the tracking experts.

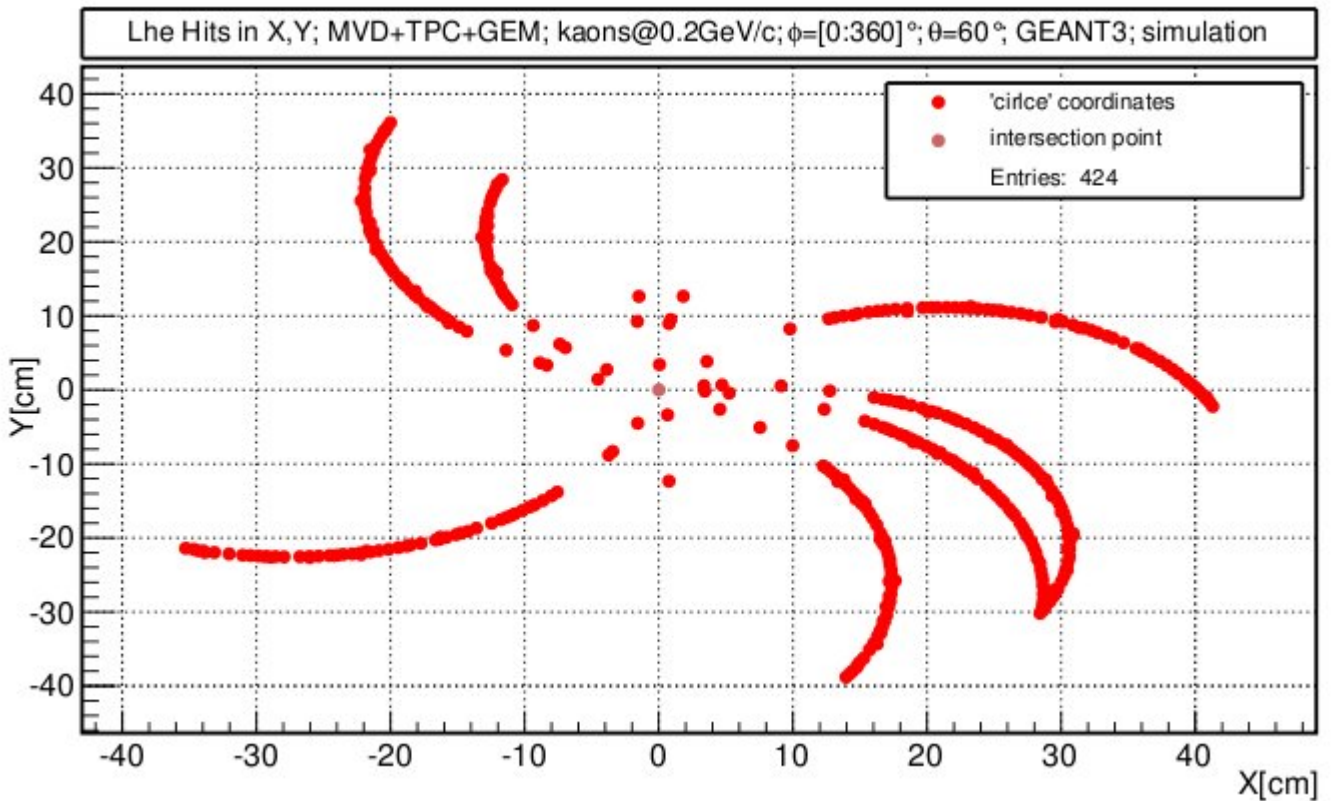
greetings,
David

p.s.: the plots in conformal mapping space are better to judge:
little bit bent

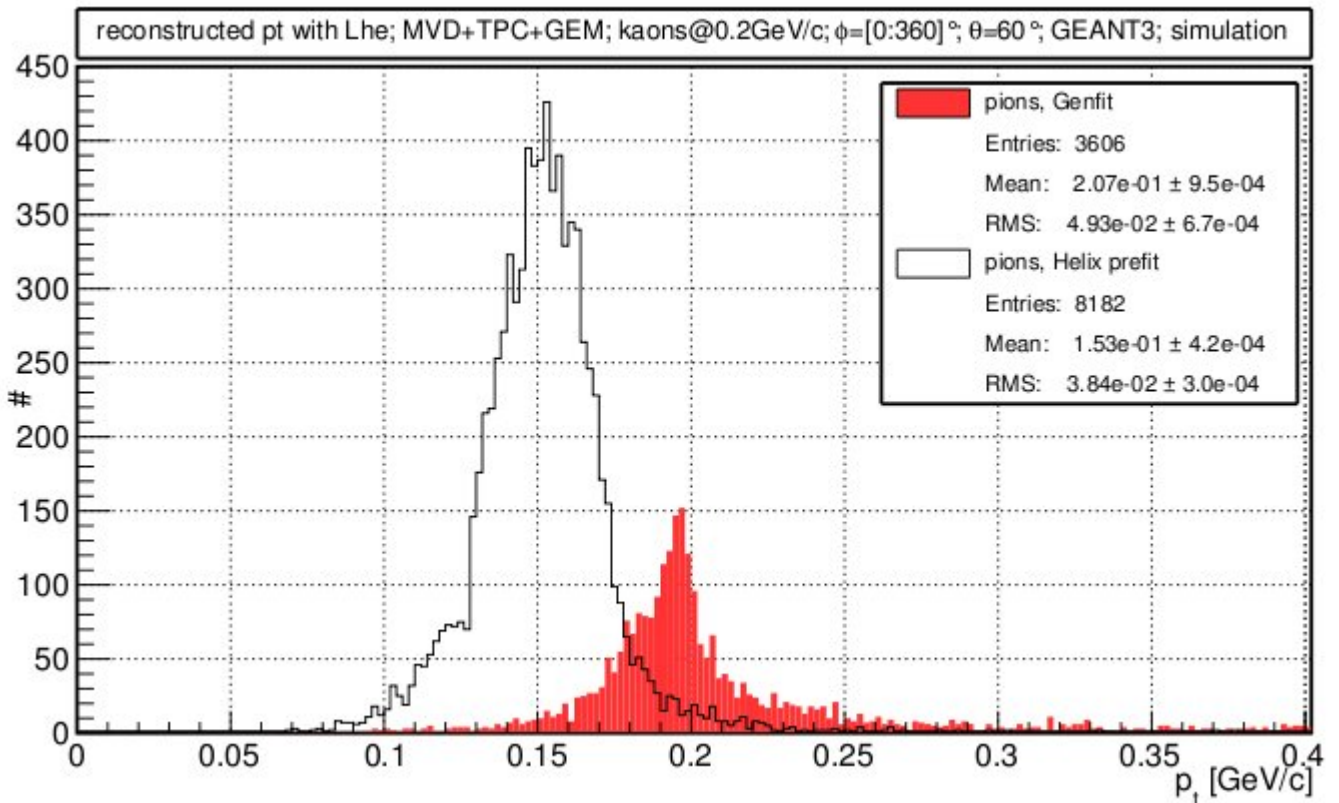
straight line

File Attachments

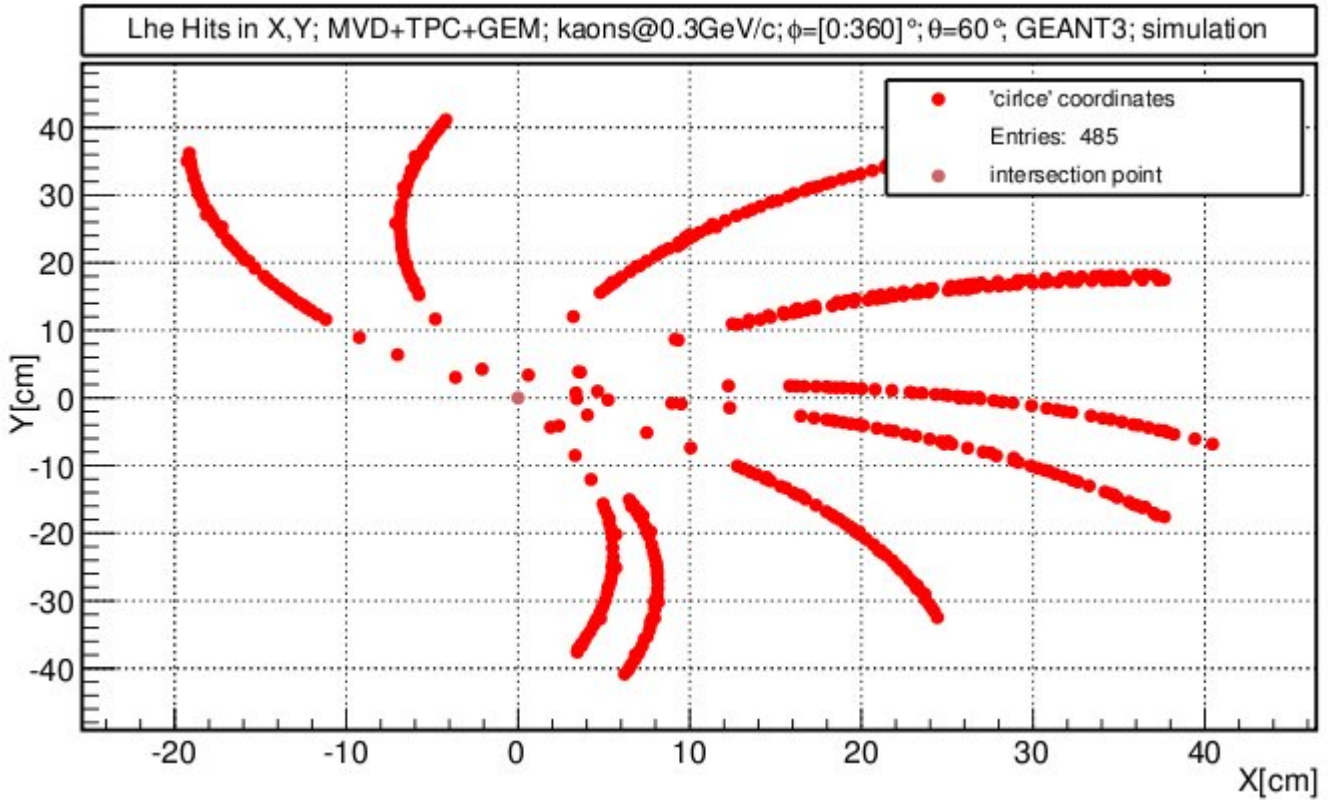
1) [LHEhelix_reco_tpc_200_kaons.jpg](#), downloaded 454 times



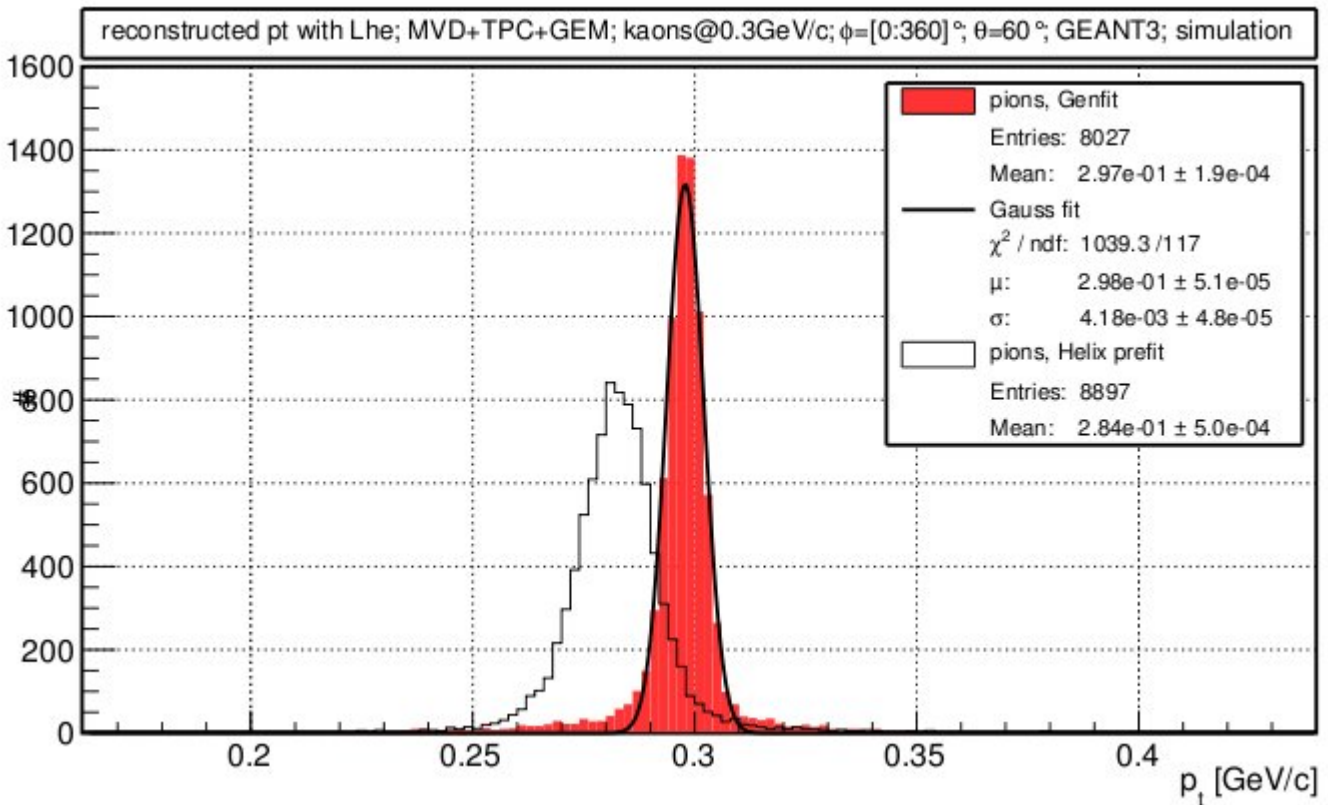
2) [pt_reco_tpc_200_kaons.jpg](#), downloaded 457 times



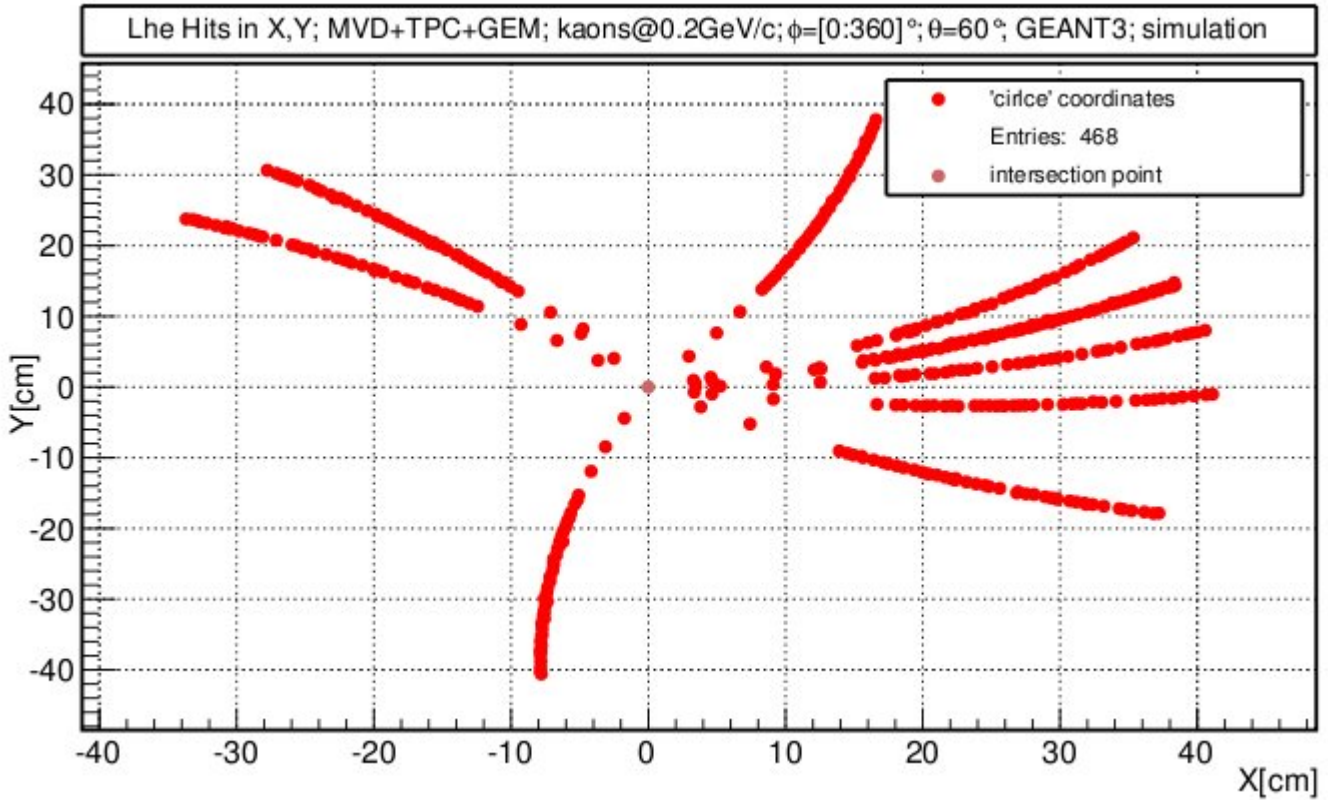
3) [LHEhelix_reco_tpc_300_kaons.jpg](#), downloaded 446 times



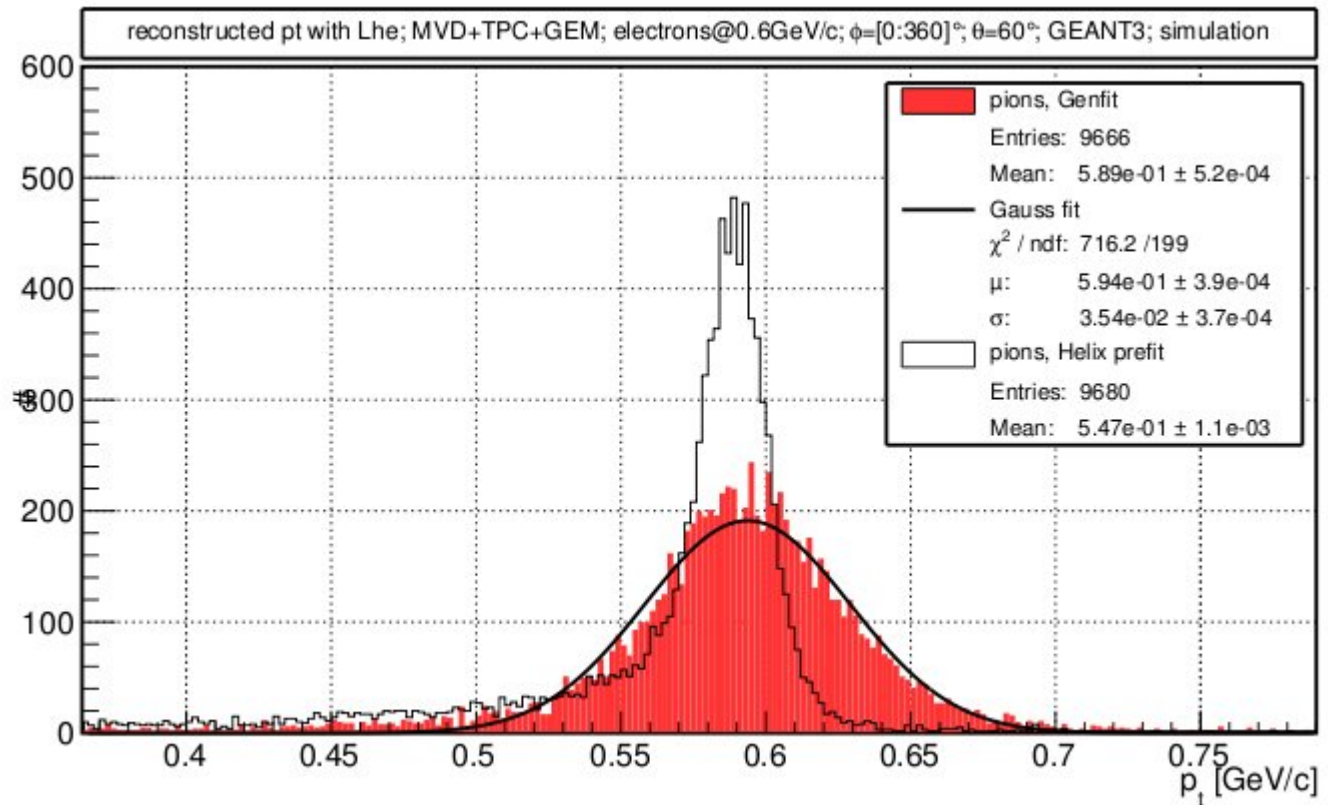
4) [pt_reco_tpc_300_kaons.jpg](#), downloaded 444 times



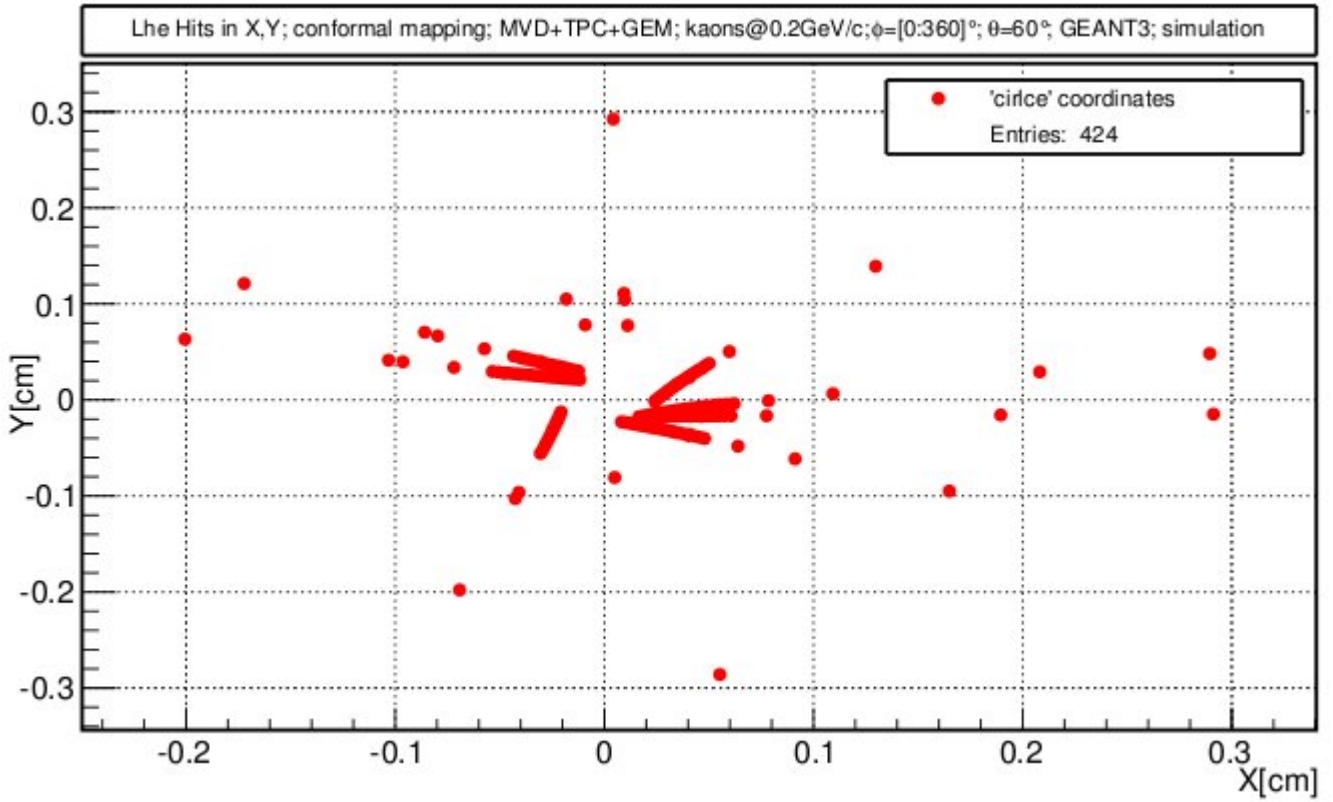
5) [LHEhelix_reco_tpc_600_electrons.jpg](#), downloaded 437 times



6) [pt_reco_tpc_600_electrons.jpg](#), downloaded 437 times



7) [LHEhelixConfMap_reco_tpc_200_kaons.jpg](#), downloaded 341 times



8) [LHEhelixConfMap_reco_tpc_300_kaons.jpg](#), downloaded 410 times

