

Updating from SimpleTracks to Trk::Tracks and TrackToCalo

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Introduction

- Yesterday, life was such an easy (Simple Tracks) game to play...
- But Trk::Tracks arrived and we got to move on.
- Also, the extrapolation to the end of the track, which was something easy to follow (CBNT_Track.FitEnd=TRUE) is not there anymore.
- Also, in SimpleTracks world we had Pt*charge.

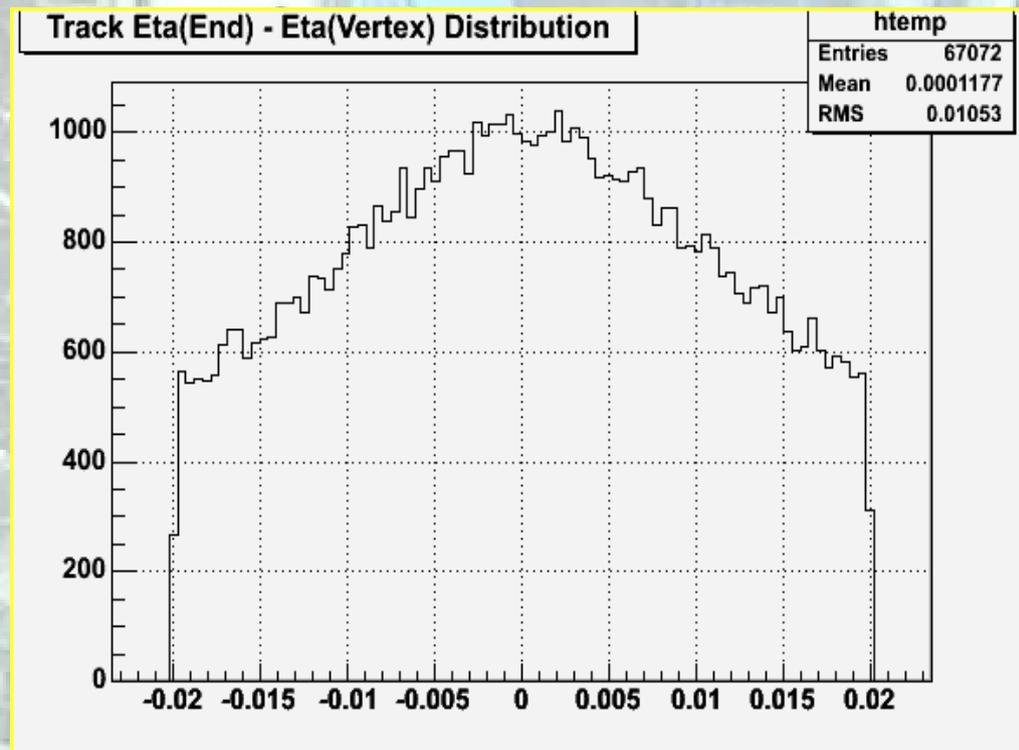
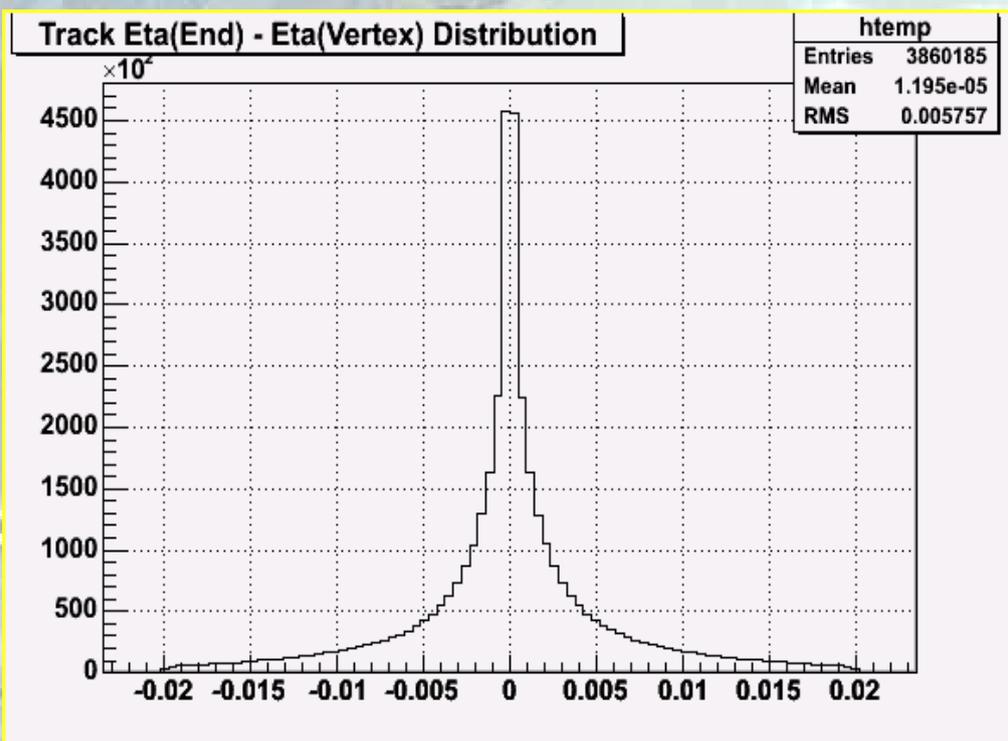
Datasets and offline versions

- Datasets come from the DC2 run 003007 (Z0->ee).
- Datasets reconstructed with 9.0.3 were digitized with 8.0.6 (DC2 production).
- Datasets reconstructed with 10.0.1 (+ tags) were digitized with 10.0.0.
- End of track substituted by TrackToCalo output.

Delta Eta Plots

Offline version 9.0.3

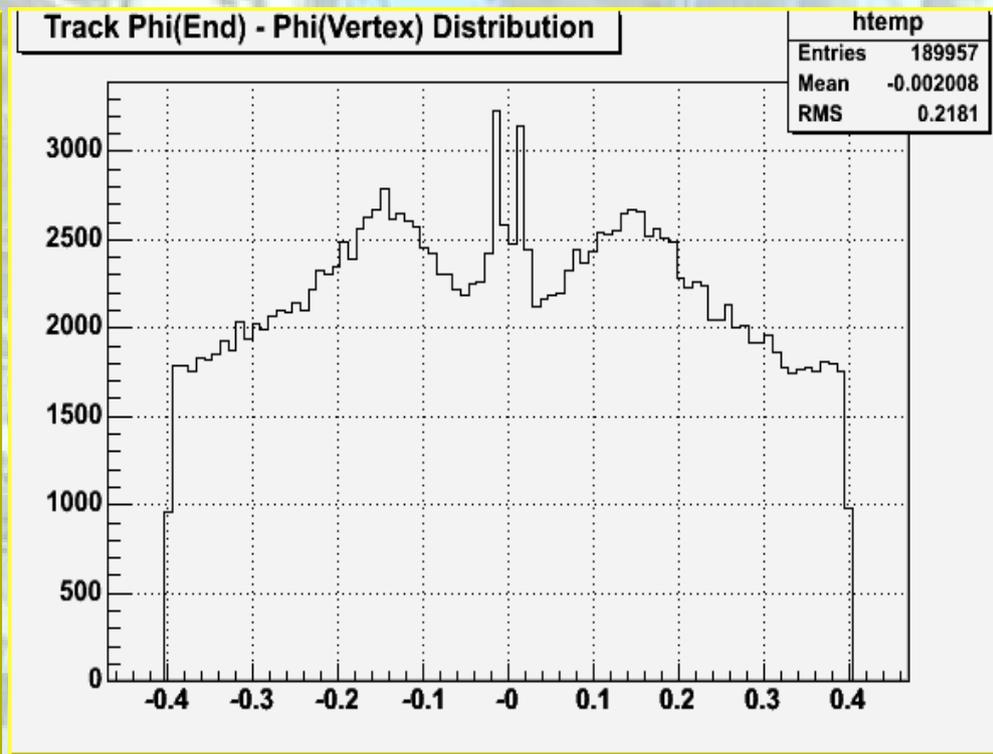
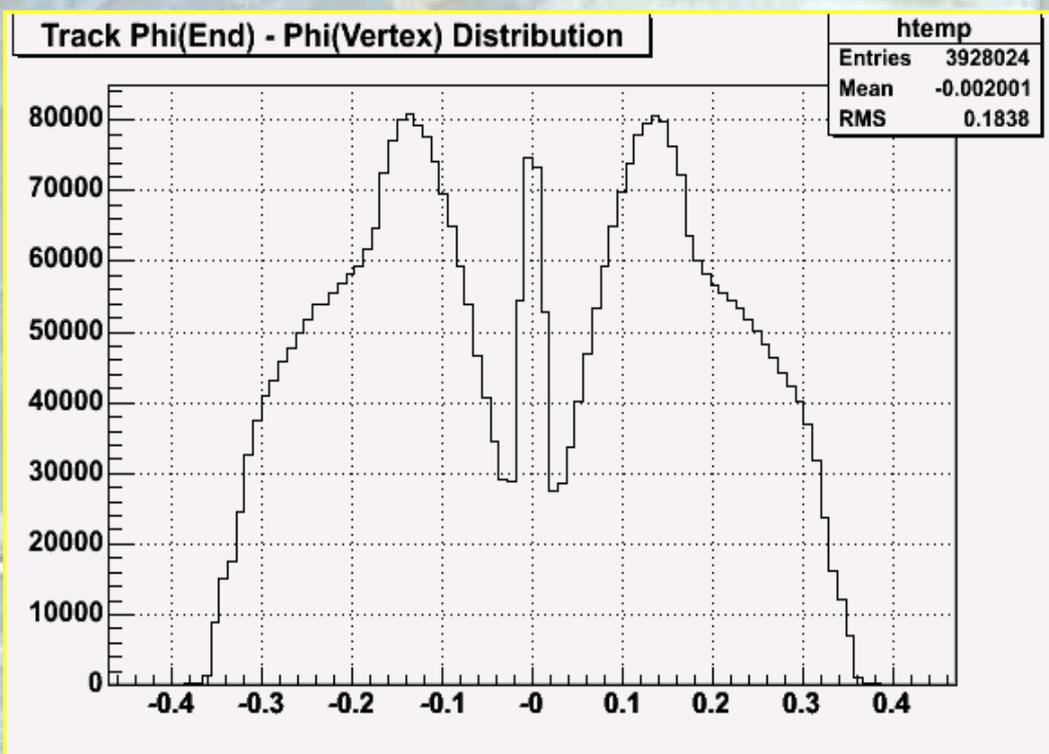
Offline version 10.0.1



Delta Phi Plots

Offline version 9.0.3

Offline version 10.0.1

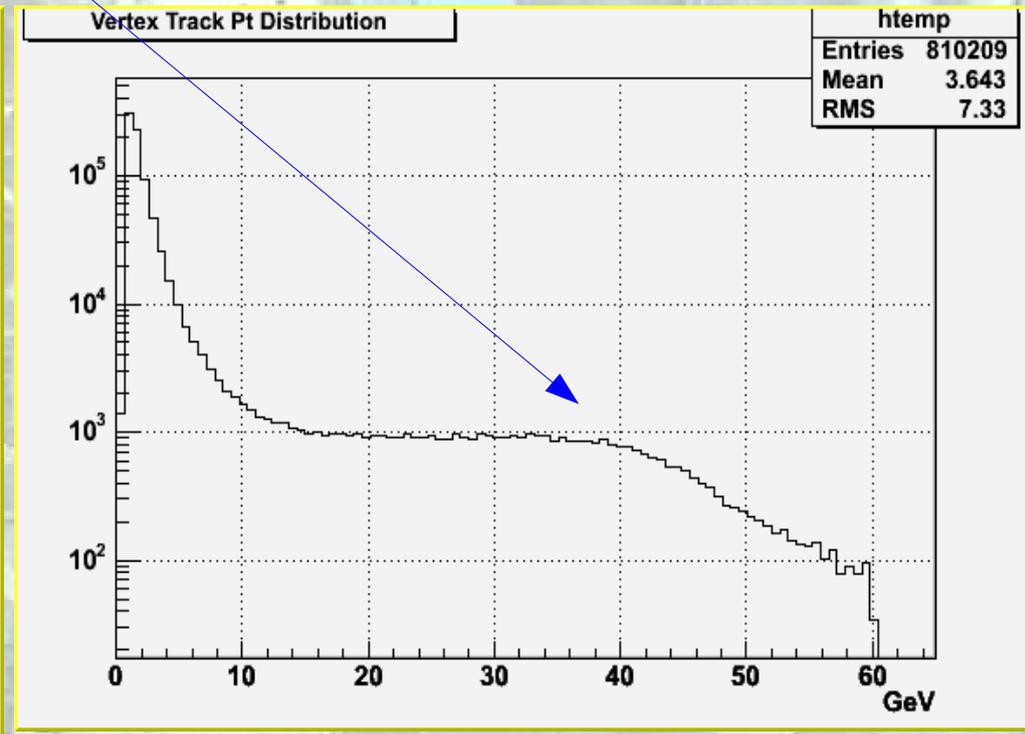
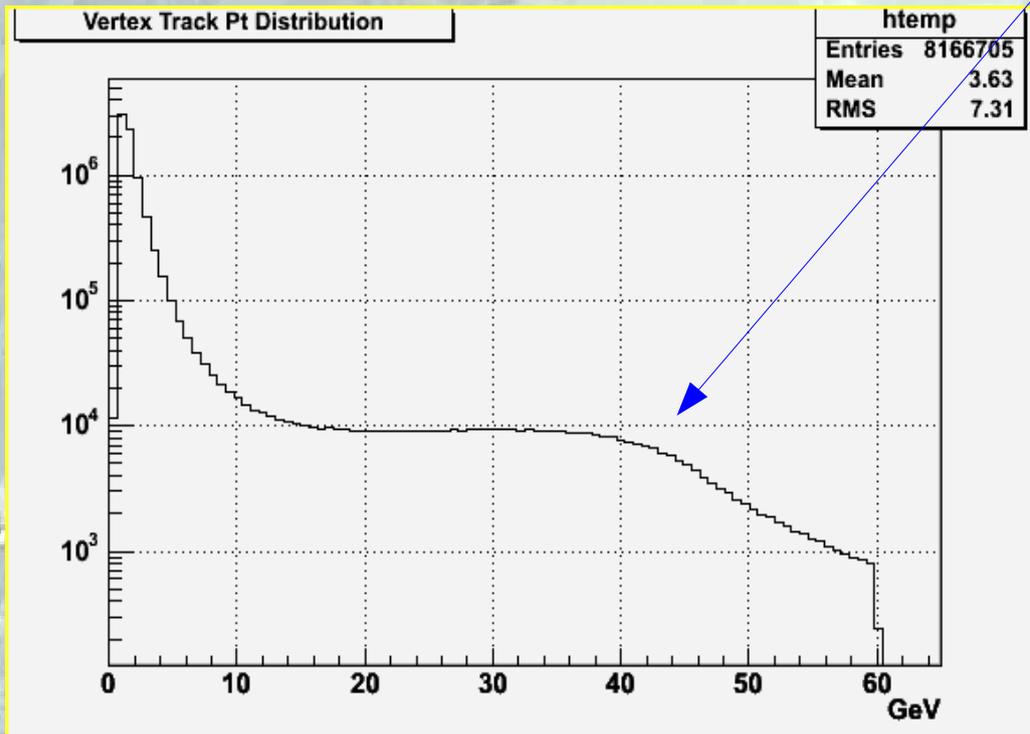


Pt Plots

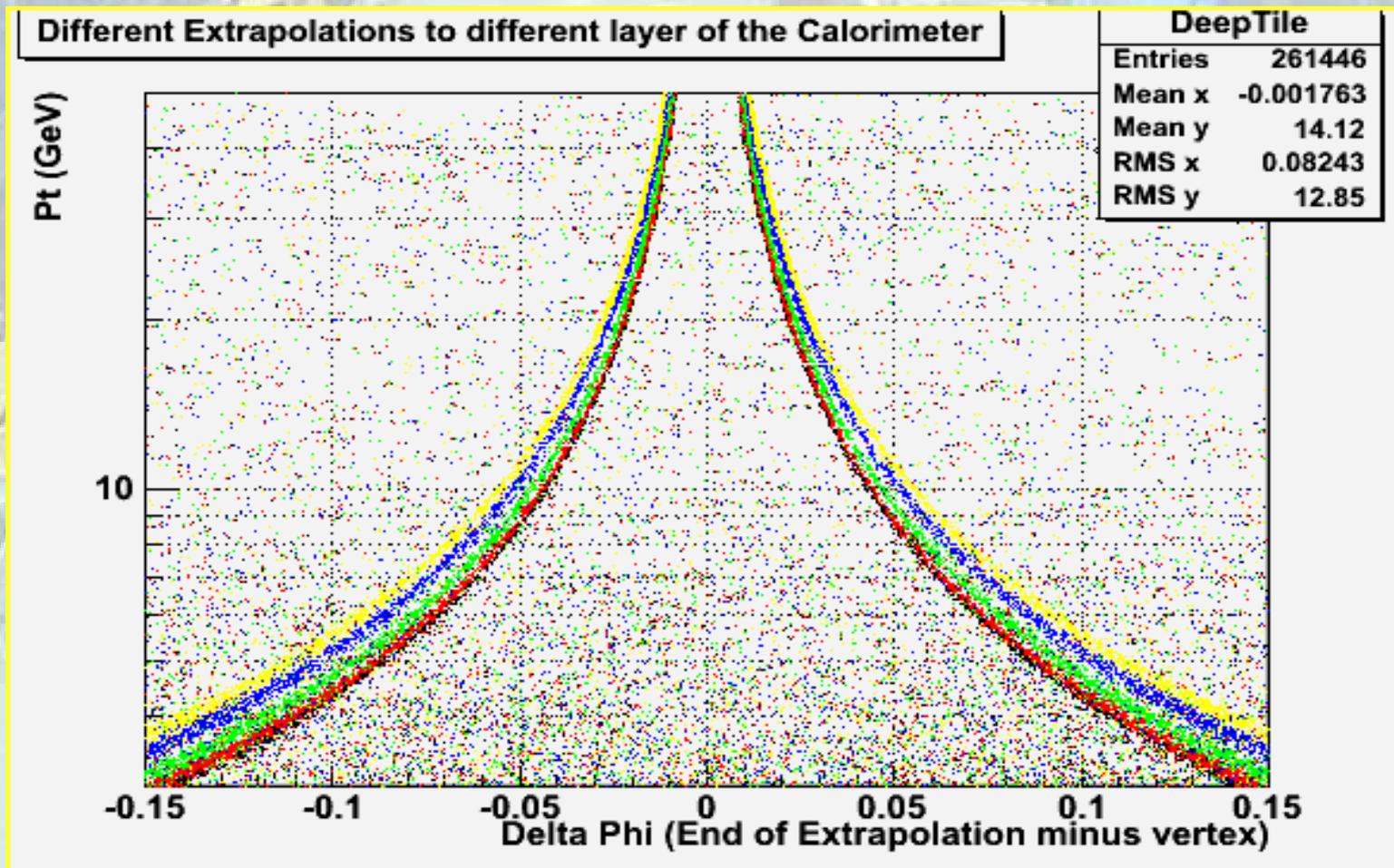
Offline version 9.0.3

Offline version 10.0.1

electrons from Z0's



Different results for different Impact (In the TrackToCalo sense) points



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Conclusions

- A new tool (TrackToCalo) is available and can be used to explore deeply the Inner Detector.
- Trk::Tracks also being used. Too much information was removed from SimpleTracks (Chi-Square, Separation between xKalman/iPat). We should have that back!
- TrackToCalo had some problems outside the barrel, but these look to be understood.

Don't forget

- New results (all the analysis related to 10.0.1, including tracks, magnetic field, clusters, Triggers) to be published at the web page :
<http://www.usatlas.bnl.gov/~damazio/log>