
Subject: Re: Vertex fitters' problems

Posted by [L. Zotti](#) on Fri, 21 Jun 2013 16:43:34 GMT

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Dear Ralf,

thanks for your helping.

Looking in your analysis macro, I found you just missed one "break" at line 273. Actually with this modification, I got some better results from the ChiVtx fitter.

Moreover, cleaning the sample looking at the FitStatus flag, I got the following resolution:

PndChiVtxFitter x:32um y:52um z:138

PndVtxPRG (full) x:61um y:60um z:103um

PndVtxPRG (fast) x:60um y:61um z:103um

Plots for PndChiVtxFitter:

Plots for PndKinVtxFitter:

Plots for PndVtxPoca

Plots for PndVtxPRG

1)fast:

2)full:

Still to be understood why resolution are different in x and y for the PndChiVtxFitter.

Do you think this results are reliables?

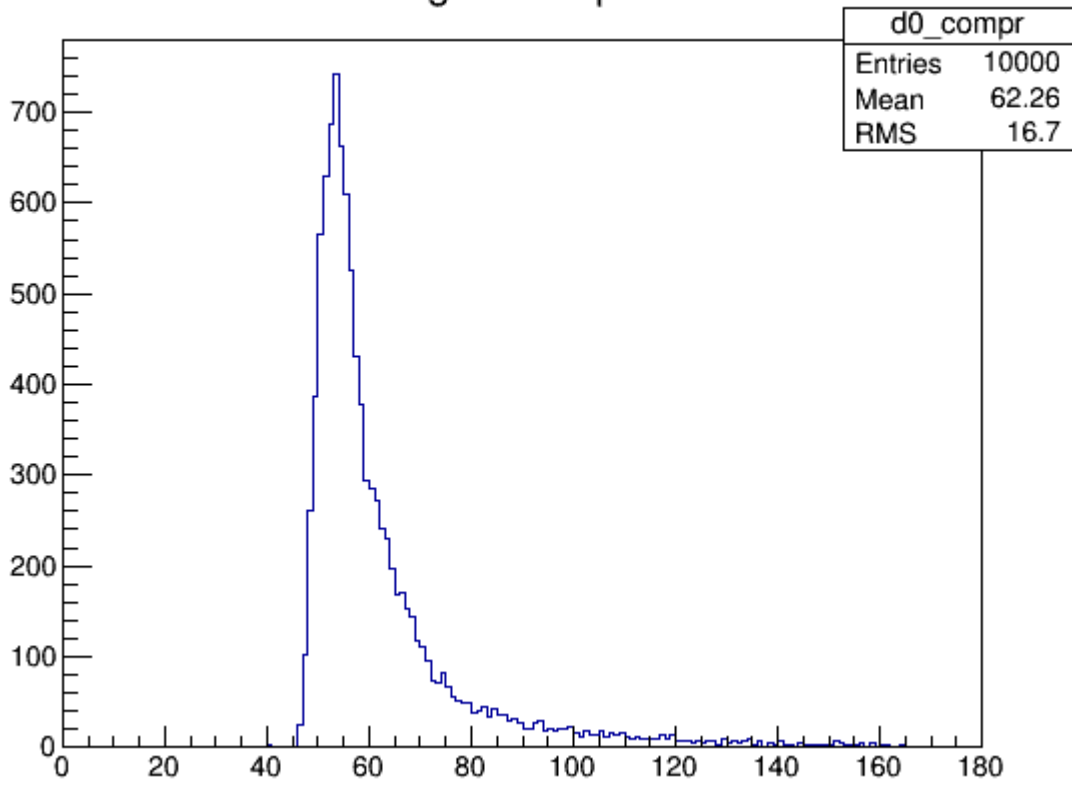
The KinVtxFitter and the Poca one still give strange results.

For what concern the kinematics, actually the kaons and the pions from the d0-meson are well separated in angle, how you can see here:

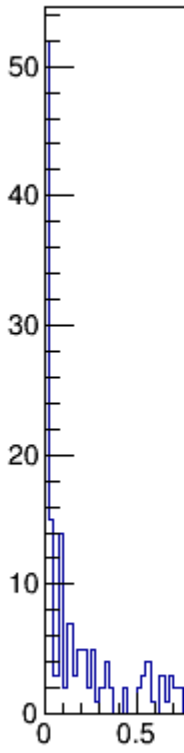
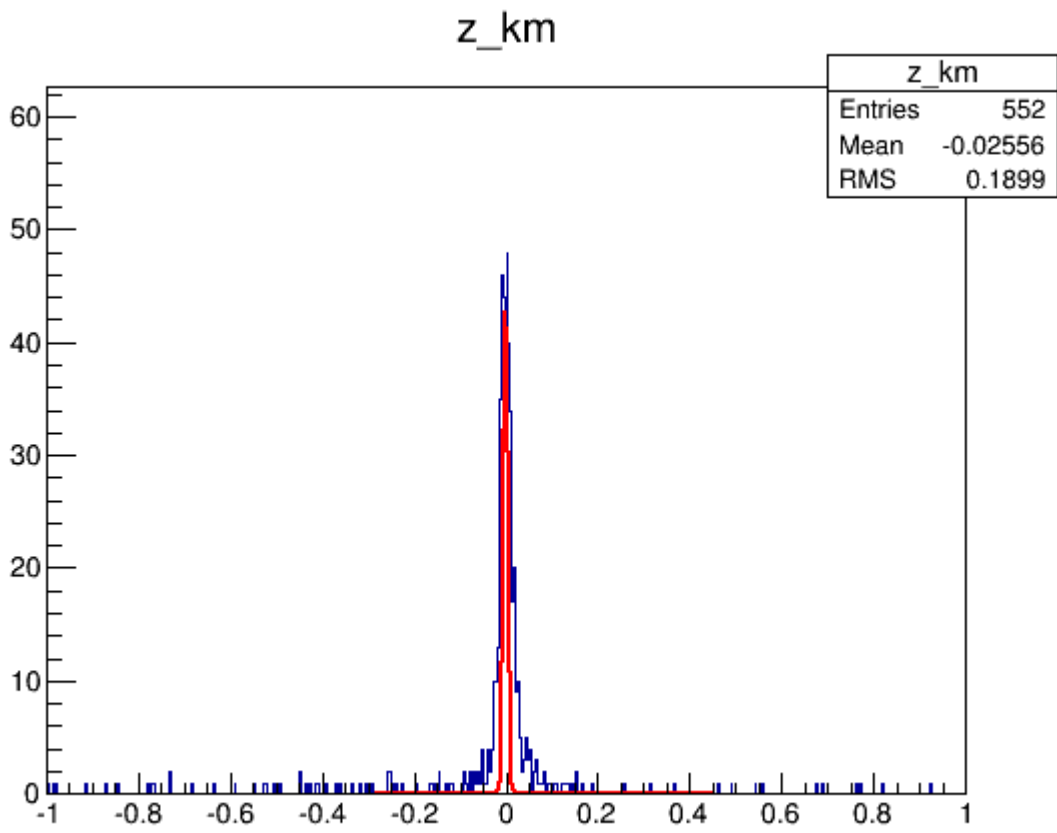
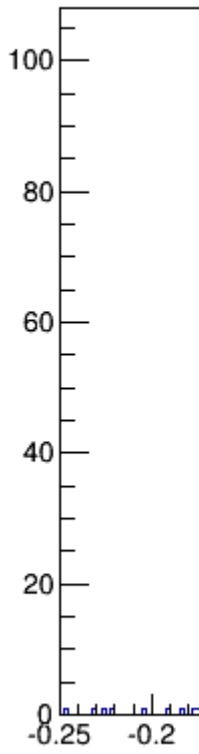
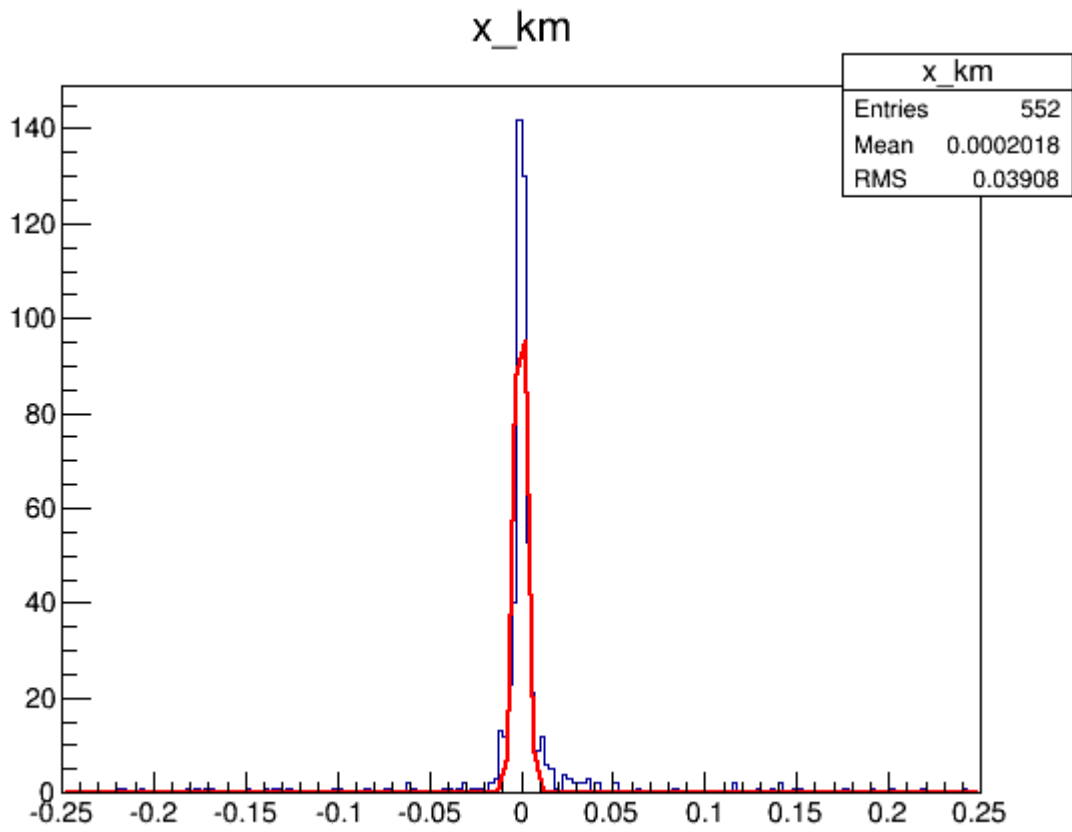
File Attachments

1) [opening_angle.png](#), downloaded 636 times

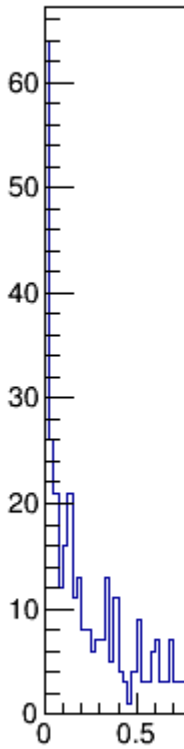
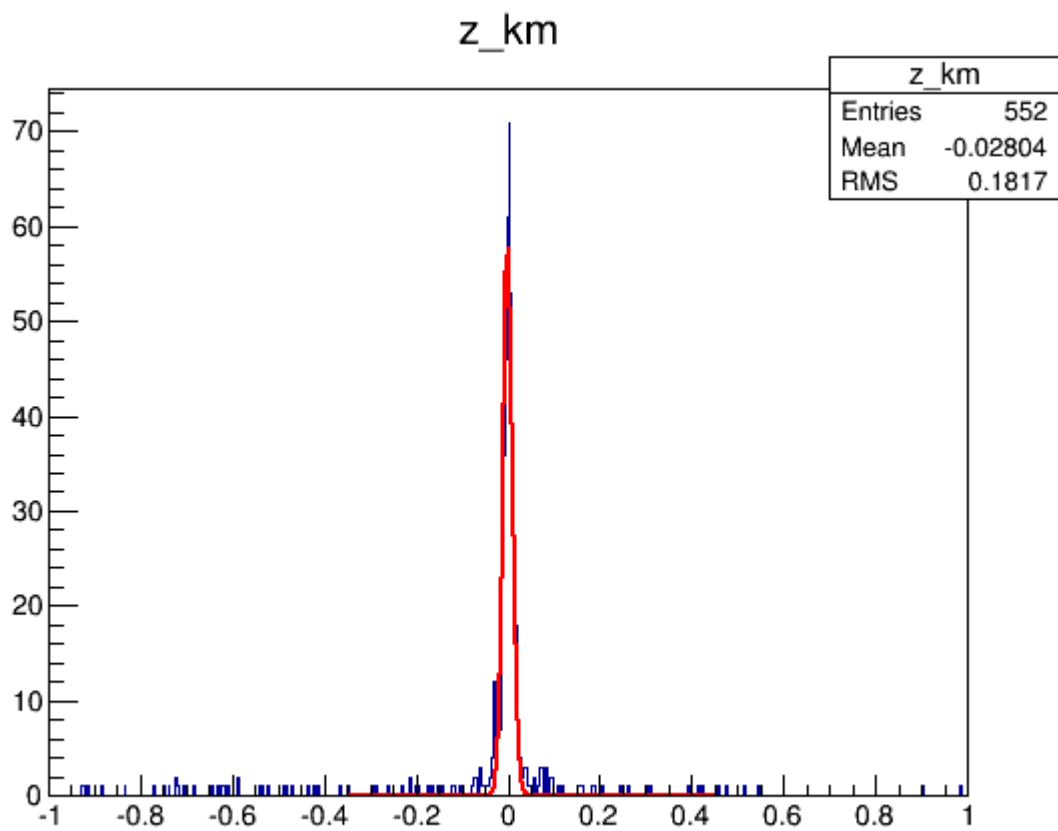
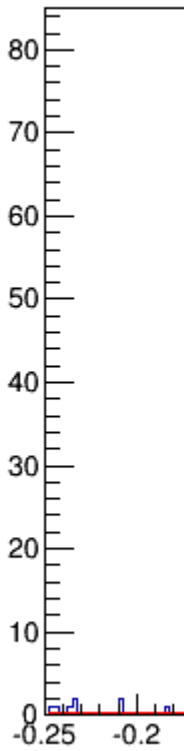
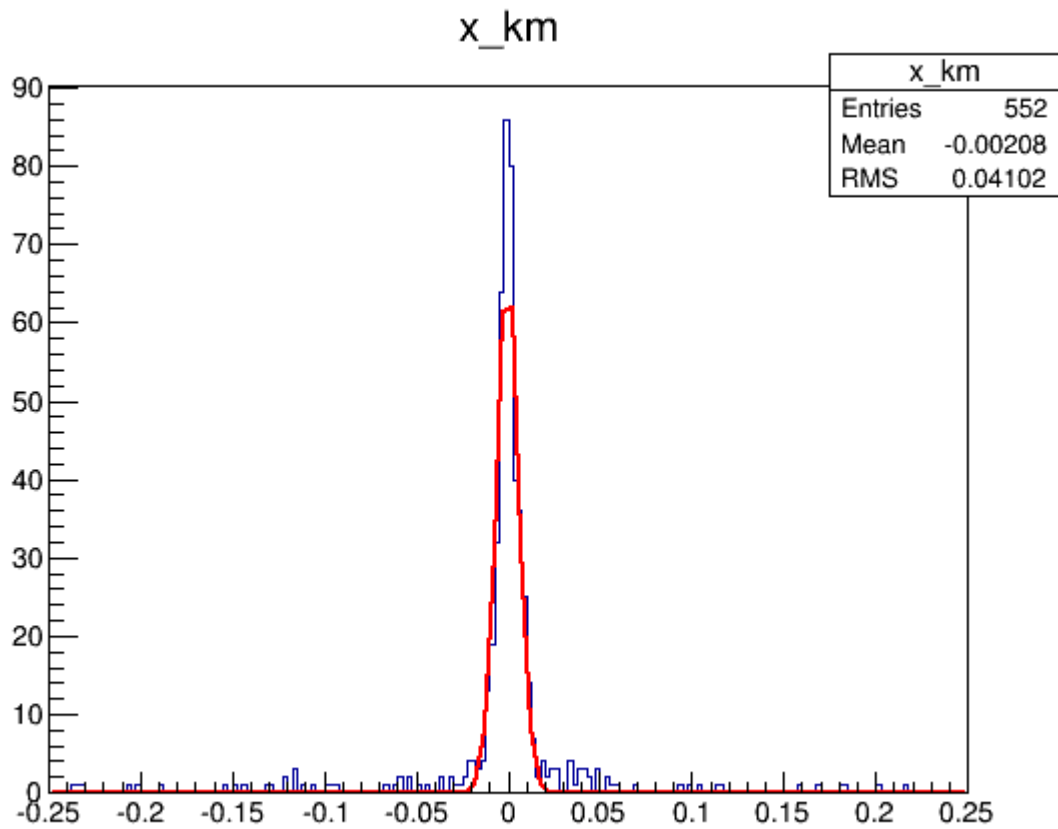
angle k- vs pi+



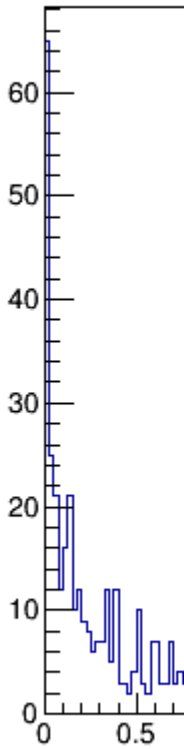
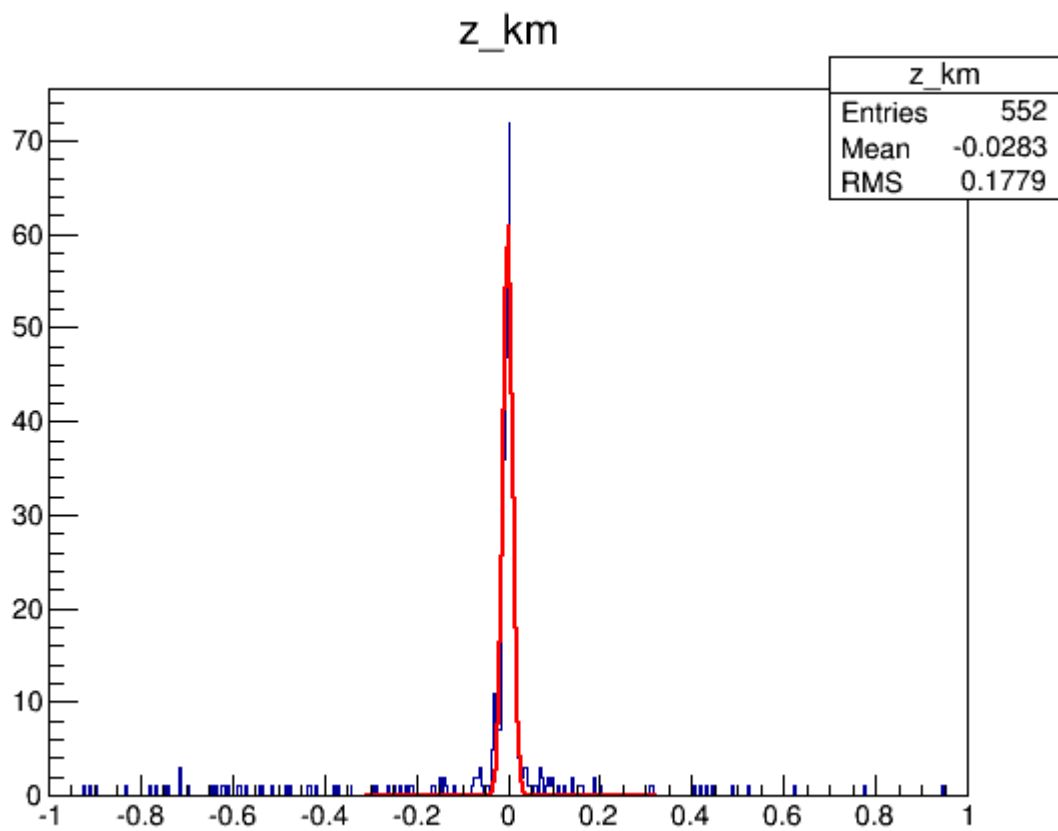
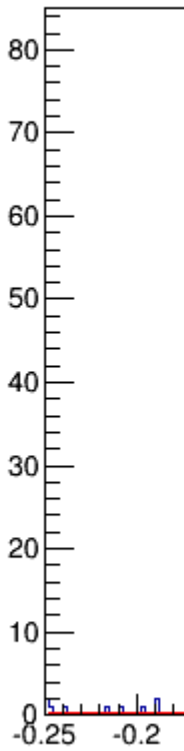
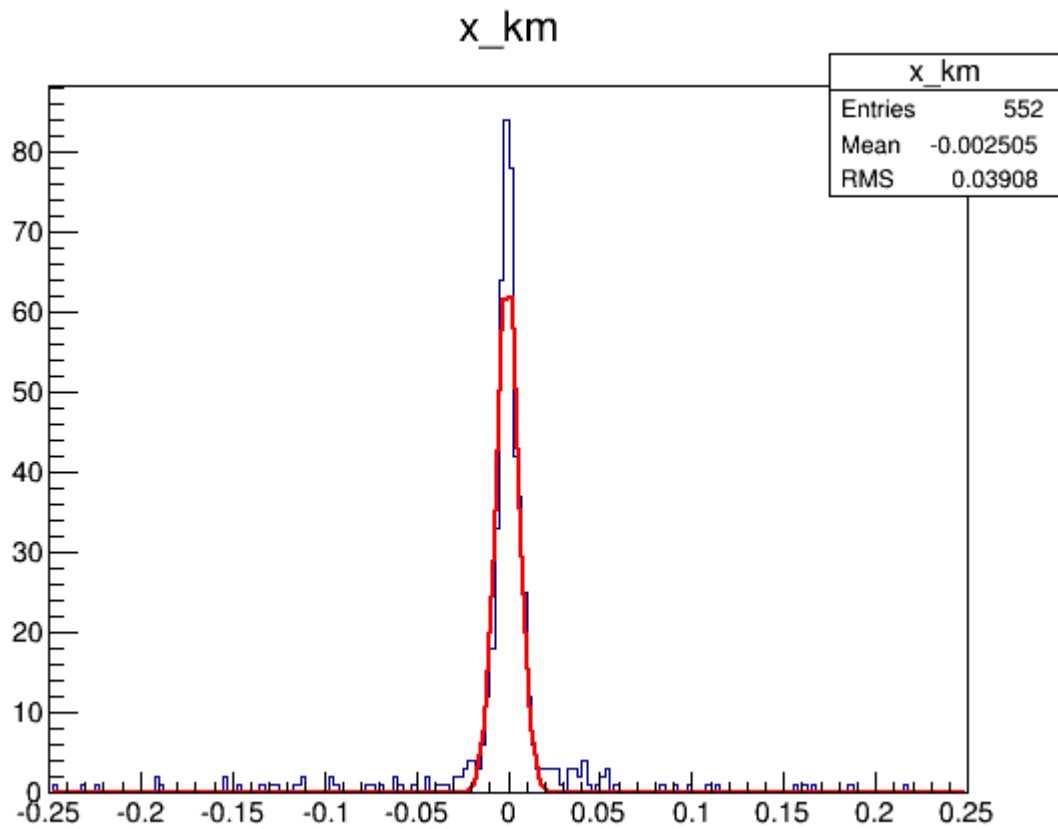
2) [ChiVtx.png](#), downloaded 628 times



3) [FastVtx.png](#), downloaded 628 times

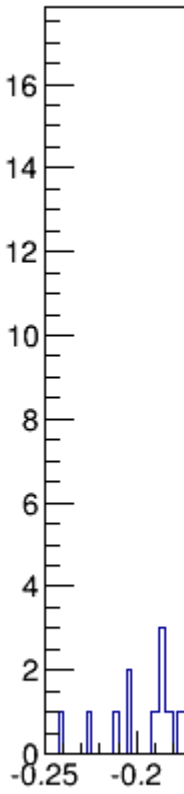
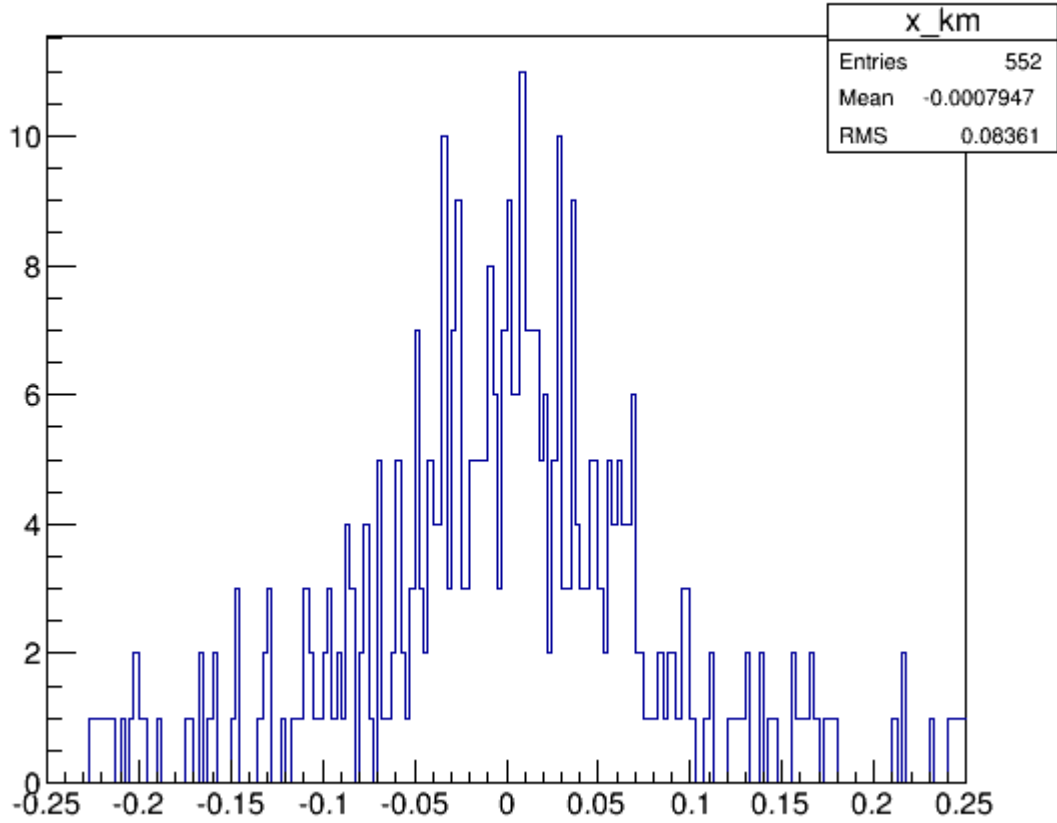


4) [FullVtx.png](#), downloaded 616 times

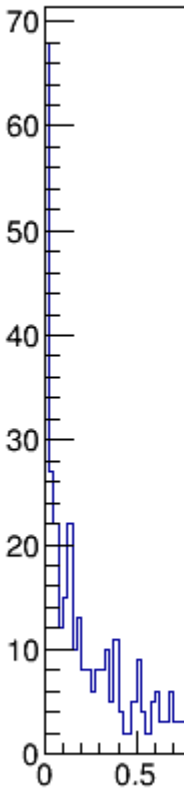
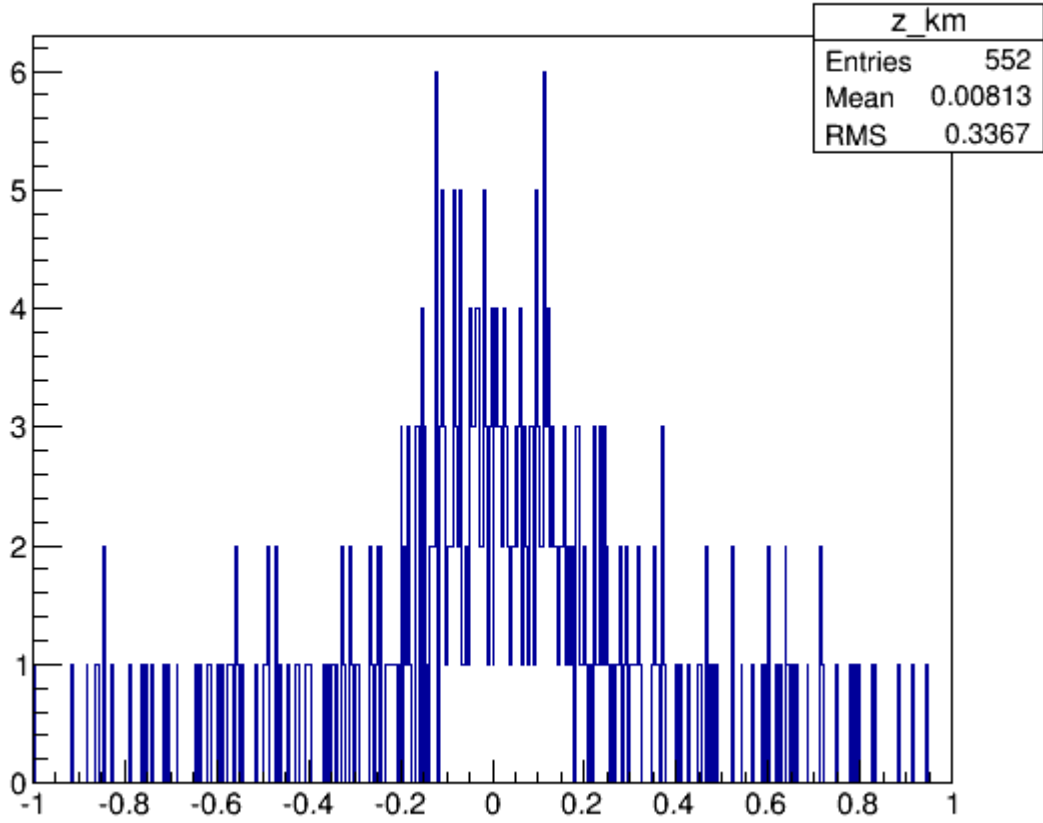


5) [KinVtx.png](#), downloaded 613 times

x_km

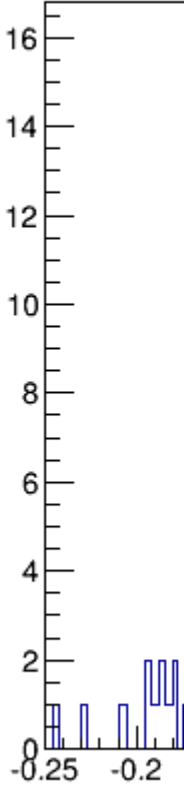
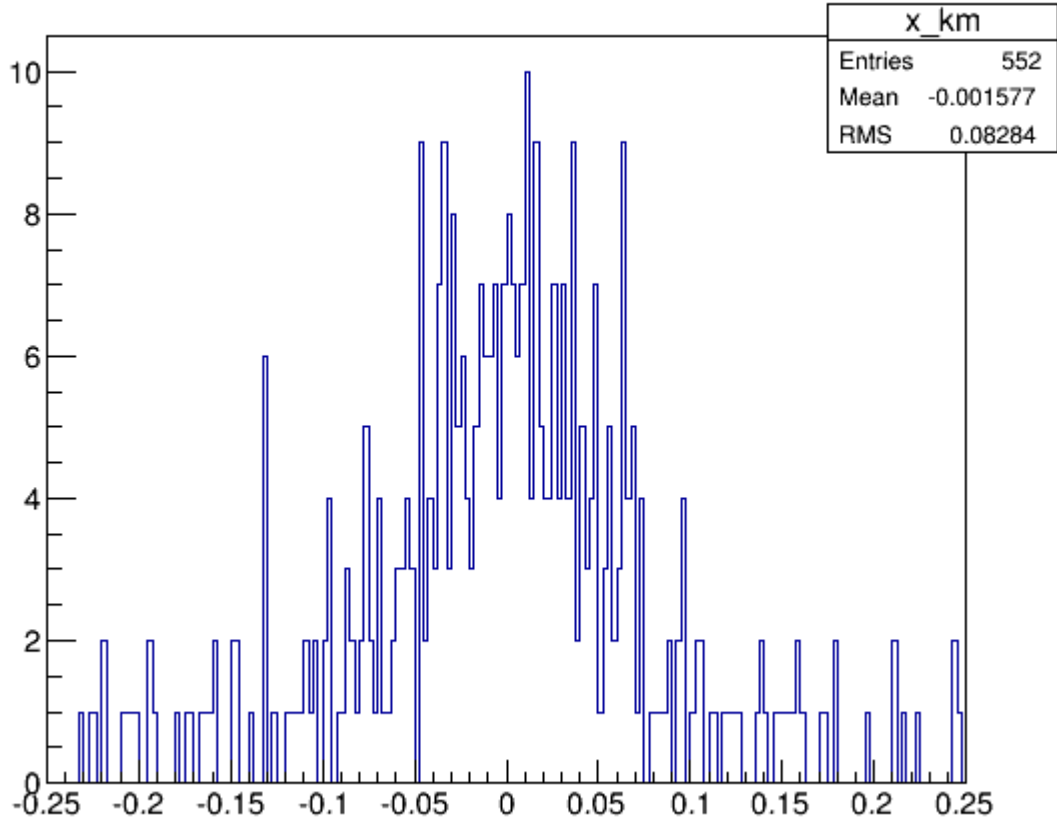


z_km



6) [PocaVtx.png](#), downloaded 616 times

x_km



z_km

