Subject: Negative lambda masses after VtxFit
Posted by Jennifer Pütz on Tue, 05 Dec 2017 10:02:08 GMT
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Hi all,

I observed negative lambda masses after vertex fitting. Likewise, the mass distribution after the mass constraint fit is strange.
The mass distribution of the non-fitted lambda candidate seems to be fine. (See the attached plots!)
Is there anyone else observing this? I know that Albrecht has also unphysical masses for lambda.

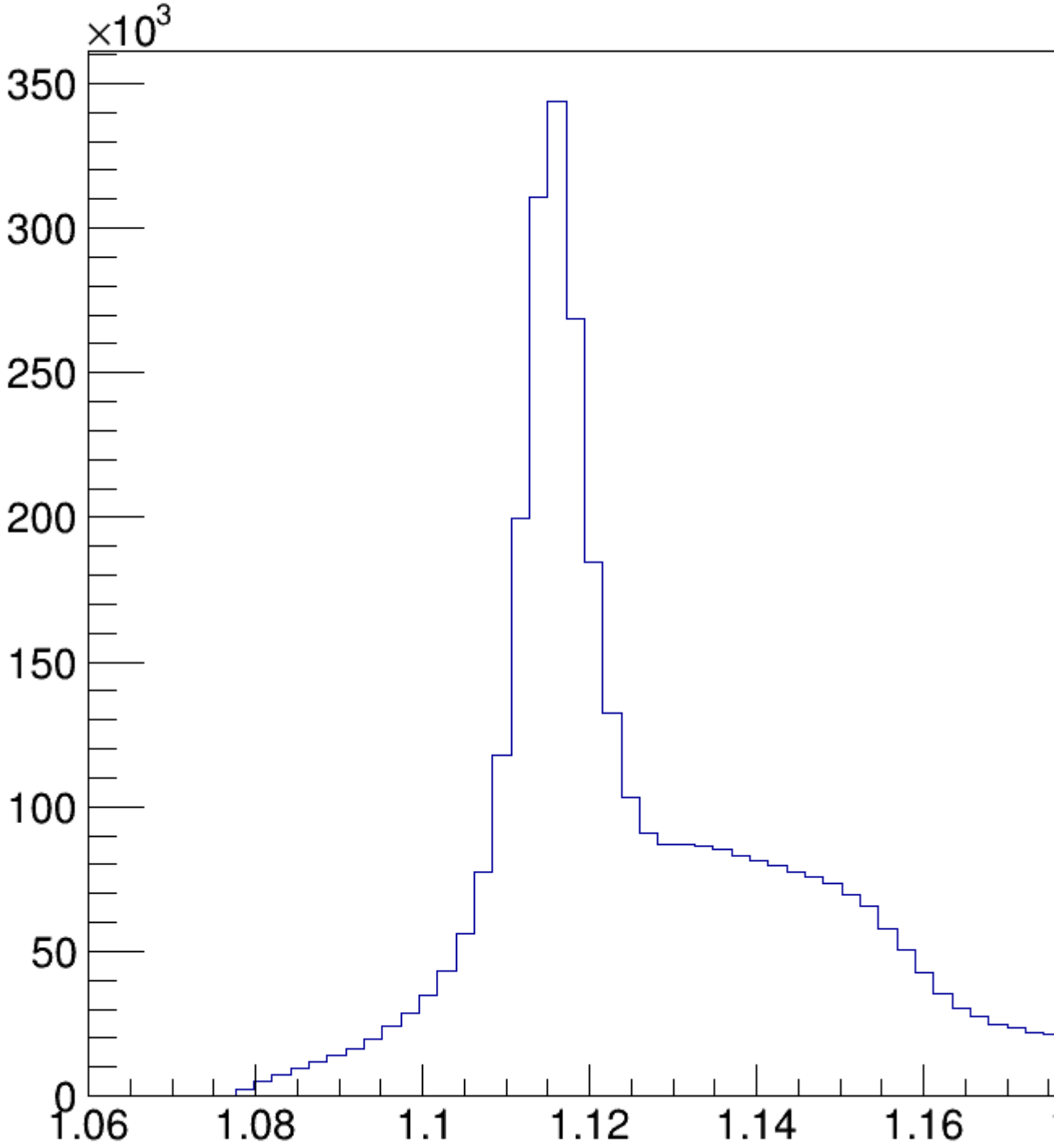
I am using the standard simulation macros (for the task),
PandaRoot trunk rev. 30210
FairRoot v17.03
FairSoft mar17
The production was made on Kronos. I attached also the Dec-File.

I also tried a different trunk version (rev 30202), but the problem is still observable.

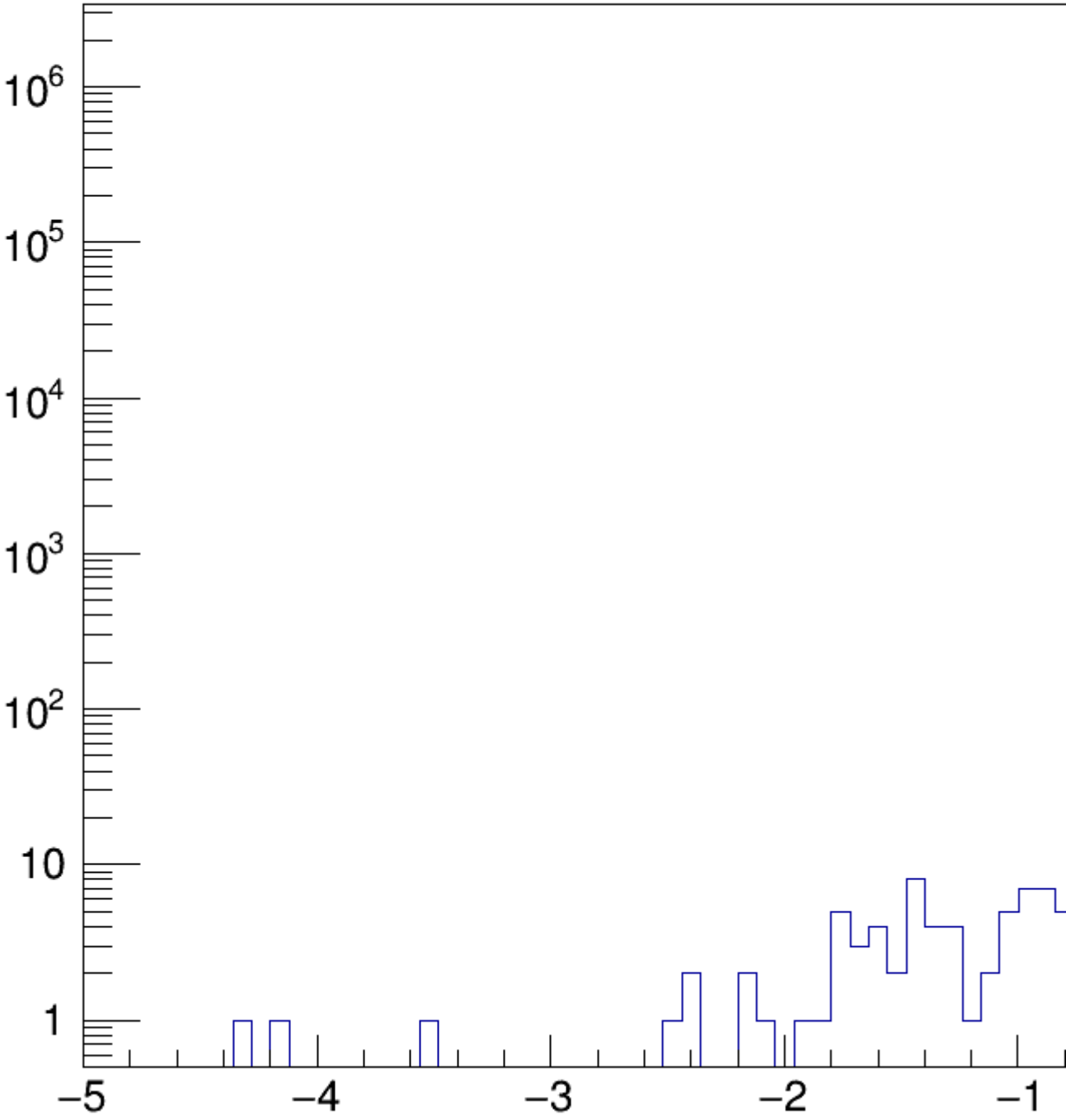
Best regards,
Jenny

File Attachments

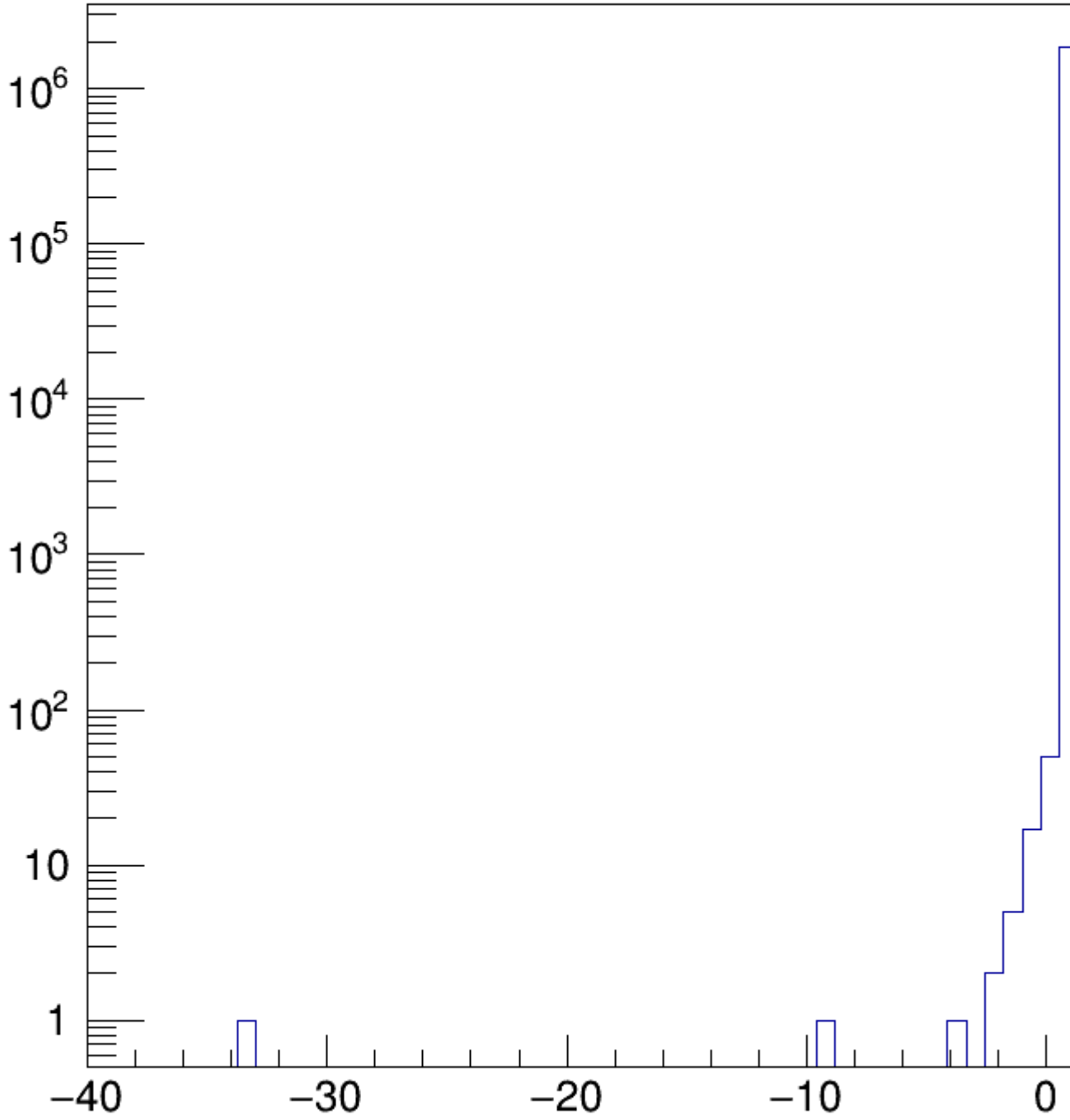
1) lambda0_mass.png, downloaded 1178 times



2) lambda0_mass_Vtxfit.png, downloaded 1192 times



3) lambda0_mass_Massfit.png, downloaded 1193 times



4) all.dec, downloaded 611 times

Subject: Re: Negative lambda masses after VtxFit
Posted by Jennifer Pütz on Tue, 09 Jan 2018 09:18:54 GMT
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Hi everyone,

I wish you a happy new year and I hope that all of you enjoyed your vacations.
Since my problem with the negative masses is still not solved, I would be very happy if anyone could also have a look at this problem

Cheers,
Jenny