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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,

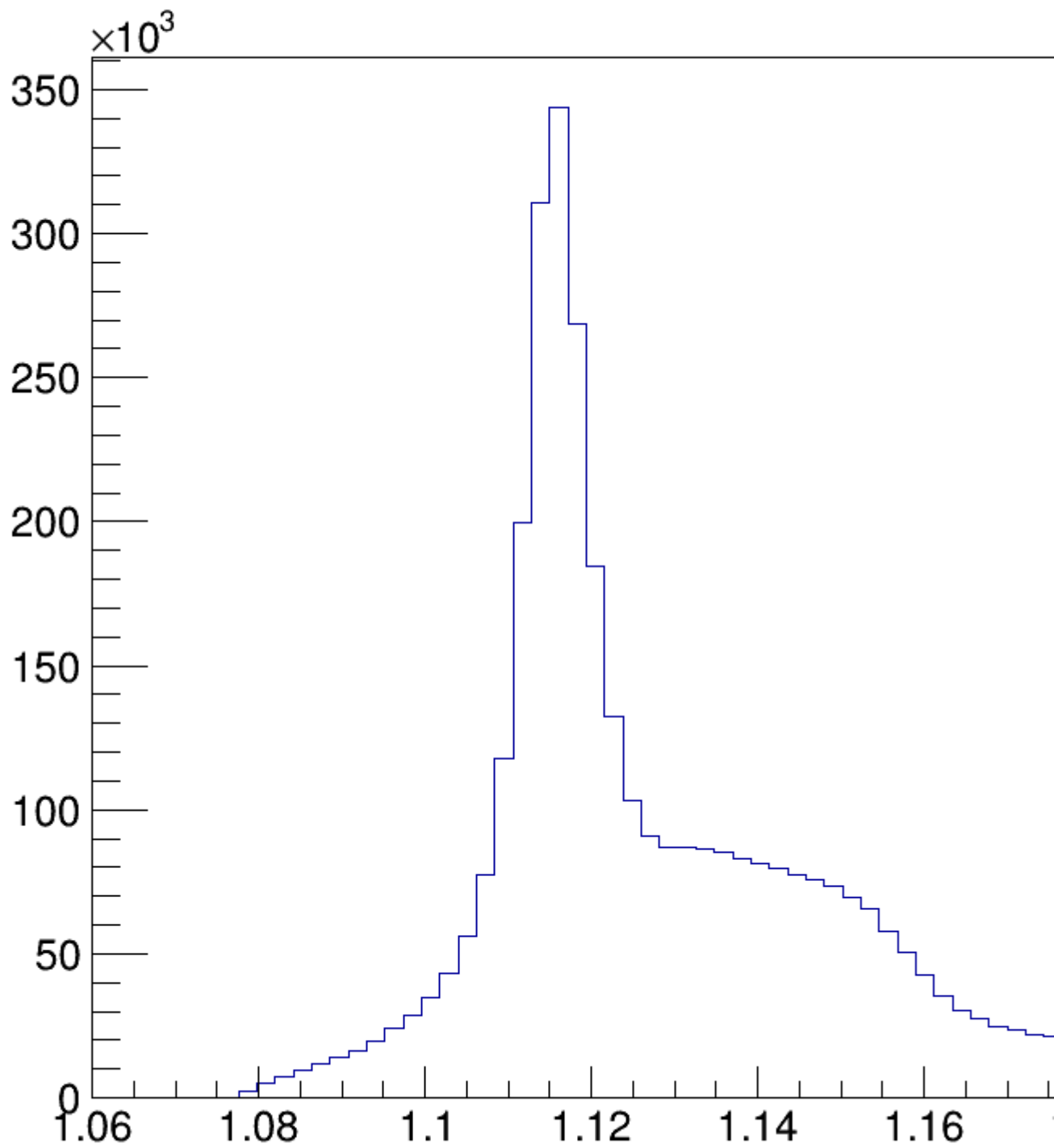
Jenny

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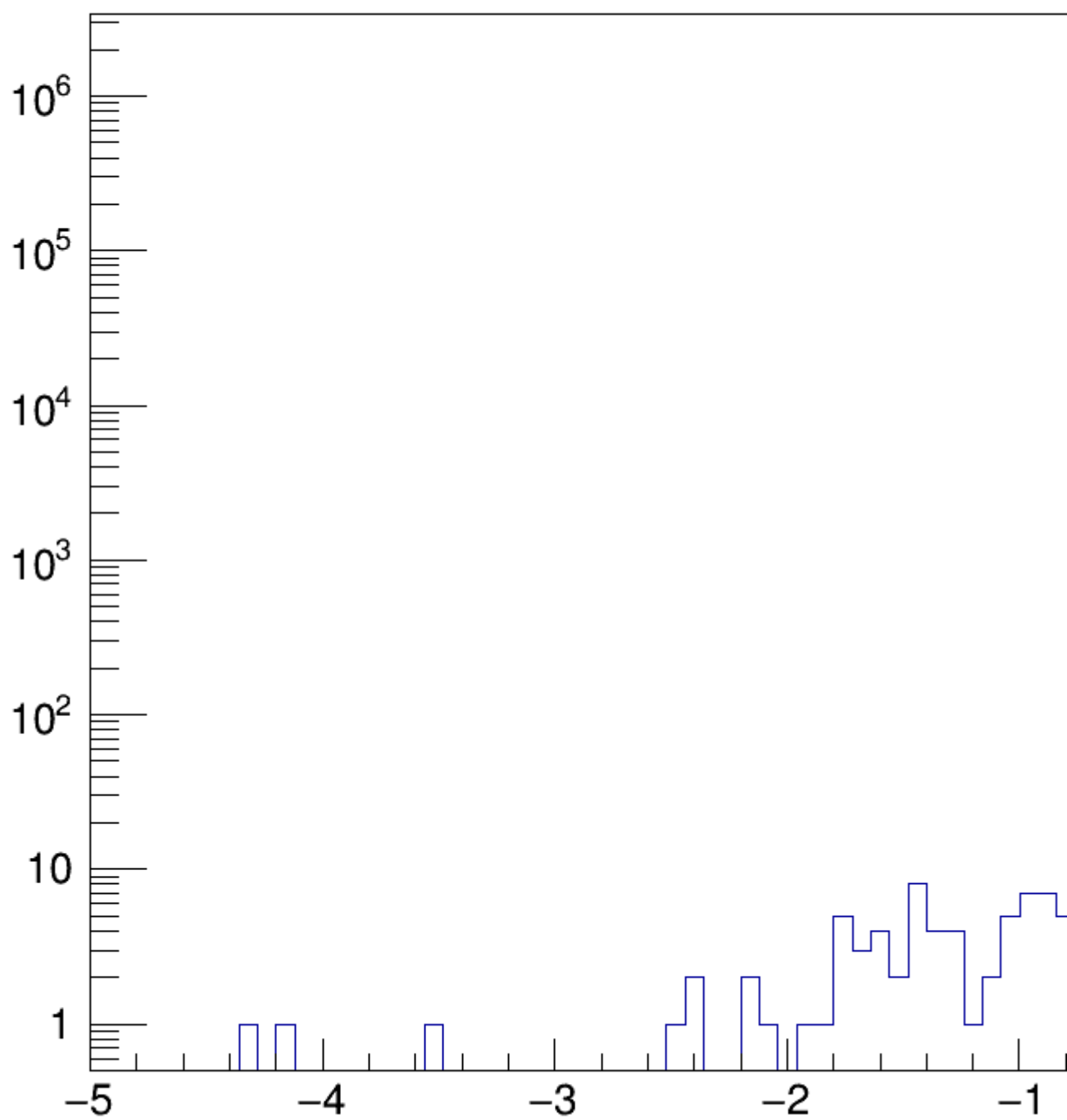
#### File Attachments

1) [lambda0\\_mass.png](#), downloaded 807 times

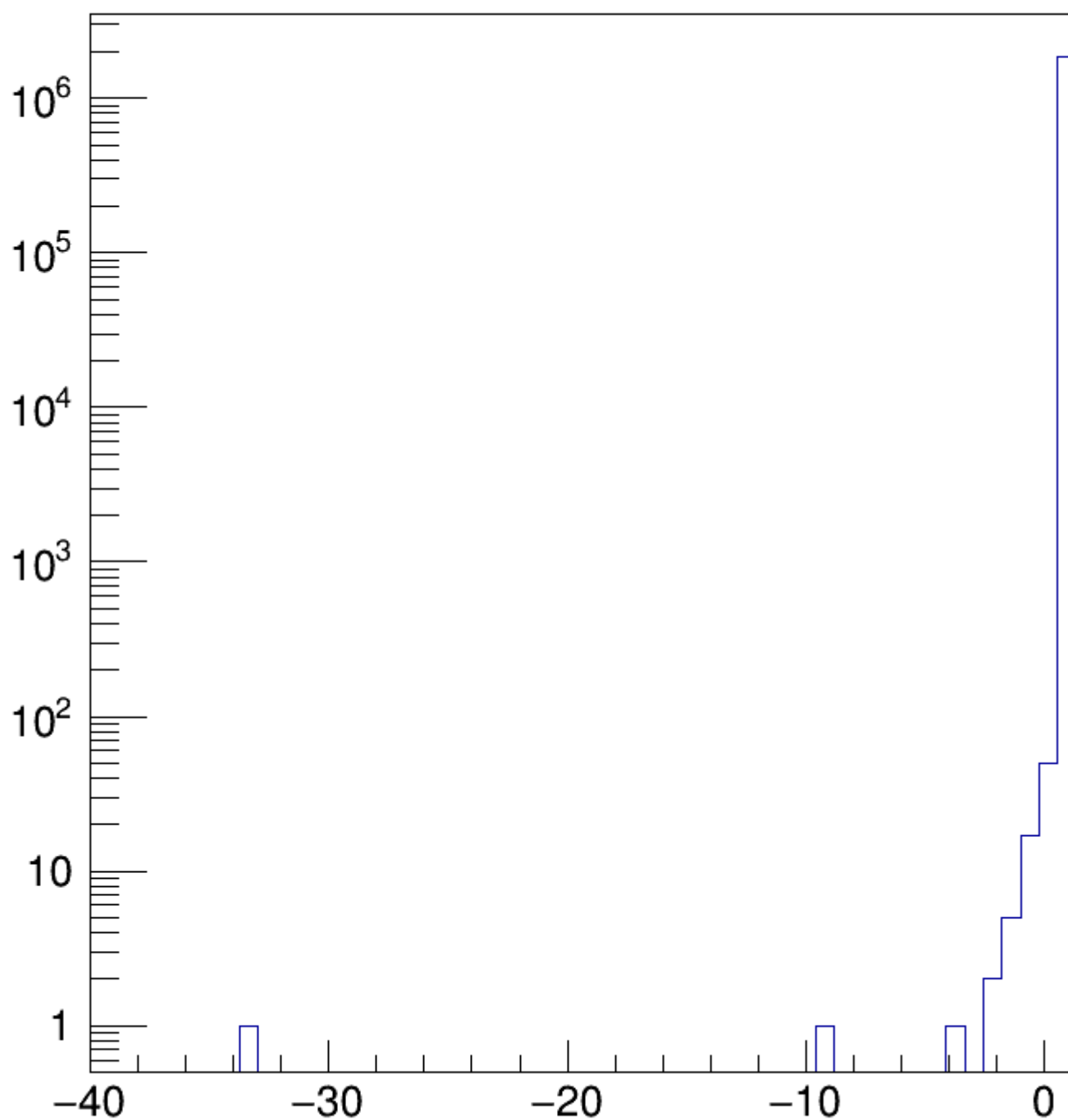
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2) [lambda0\\_mass\\_Vtxfit.png](#), downloaded 821 times



3) [lambda0\\_mass\\_Massfit.png](#), downloaded 840 times



4) [all.dec](#), downloaded 505 times

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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

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