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

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
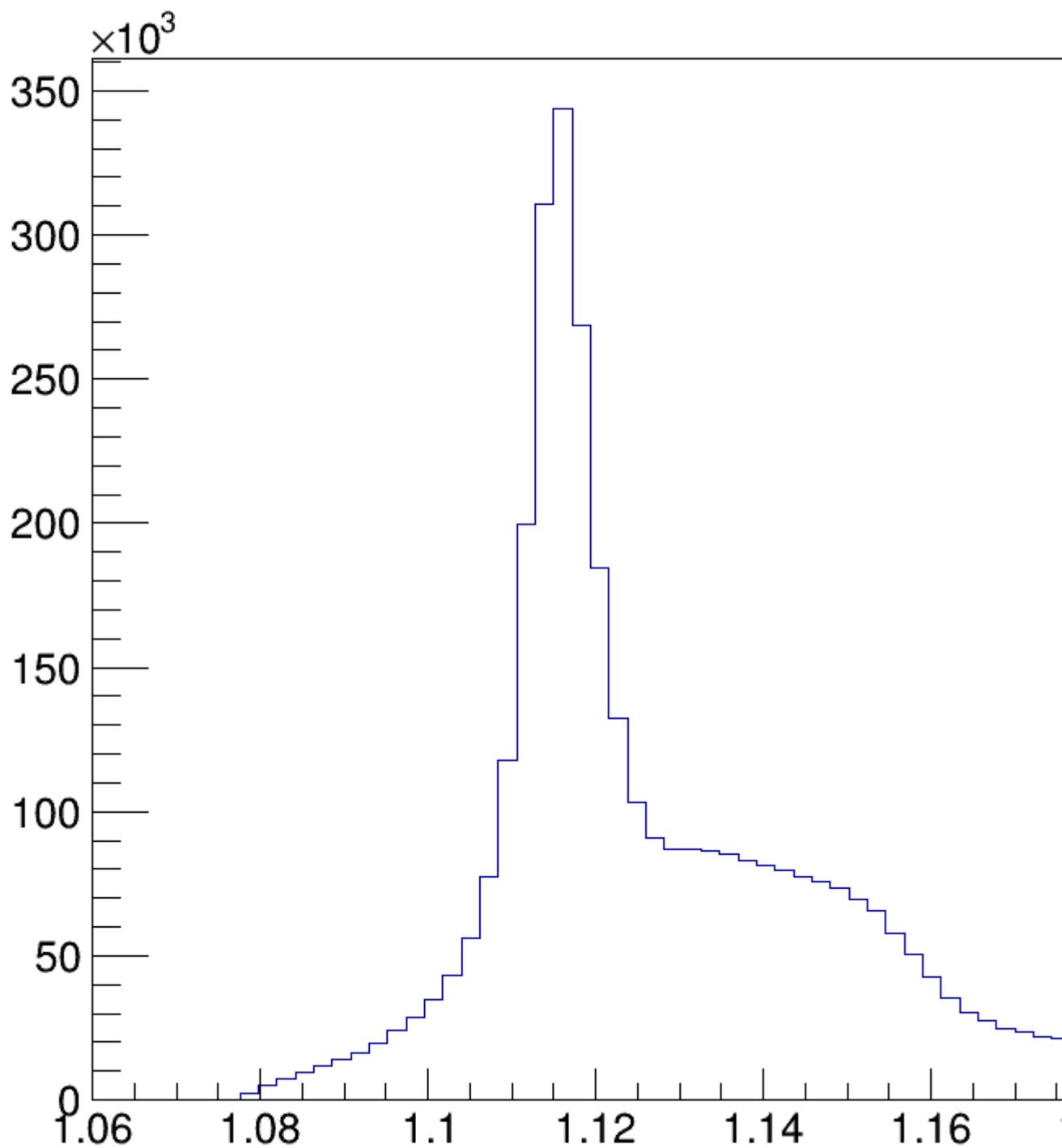The production was made on Kronos. I attached also the Dec-File.

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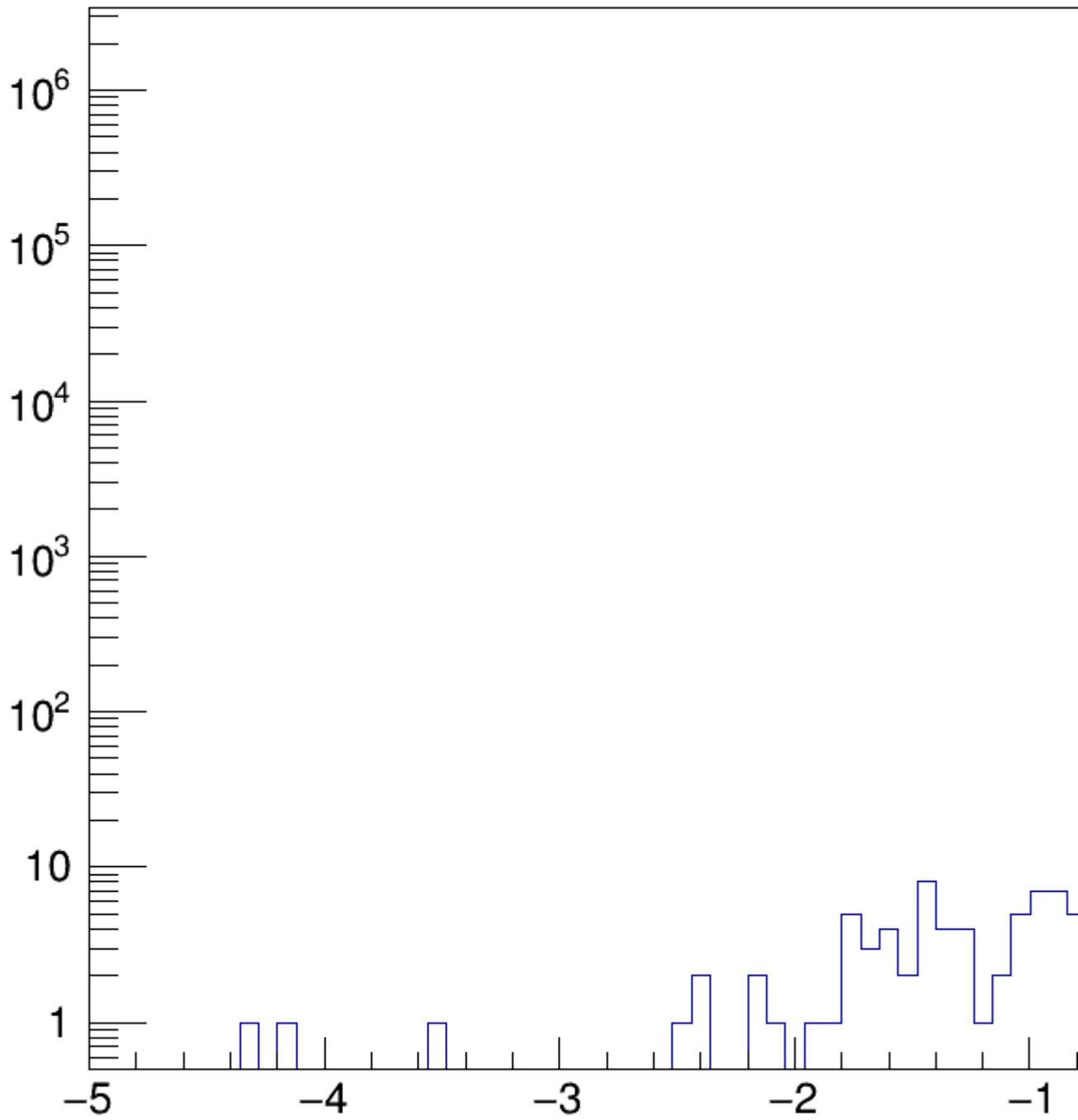
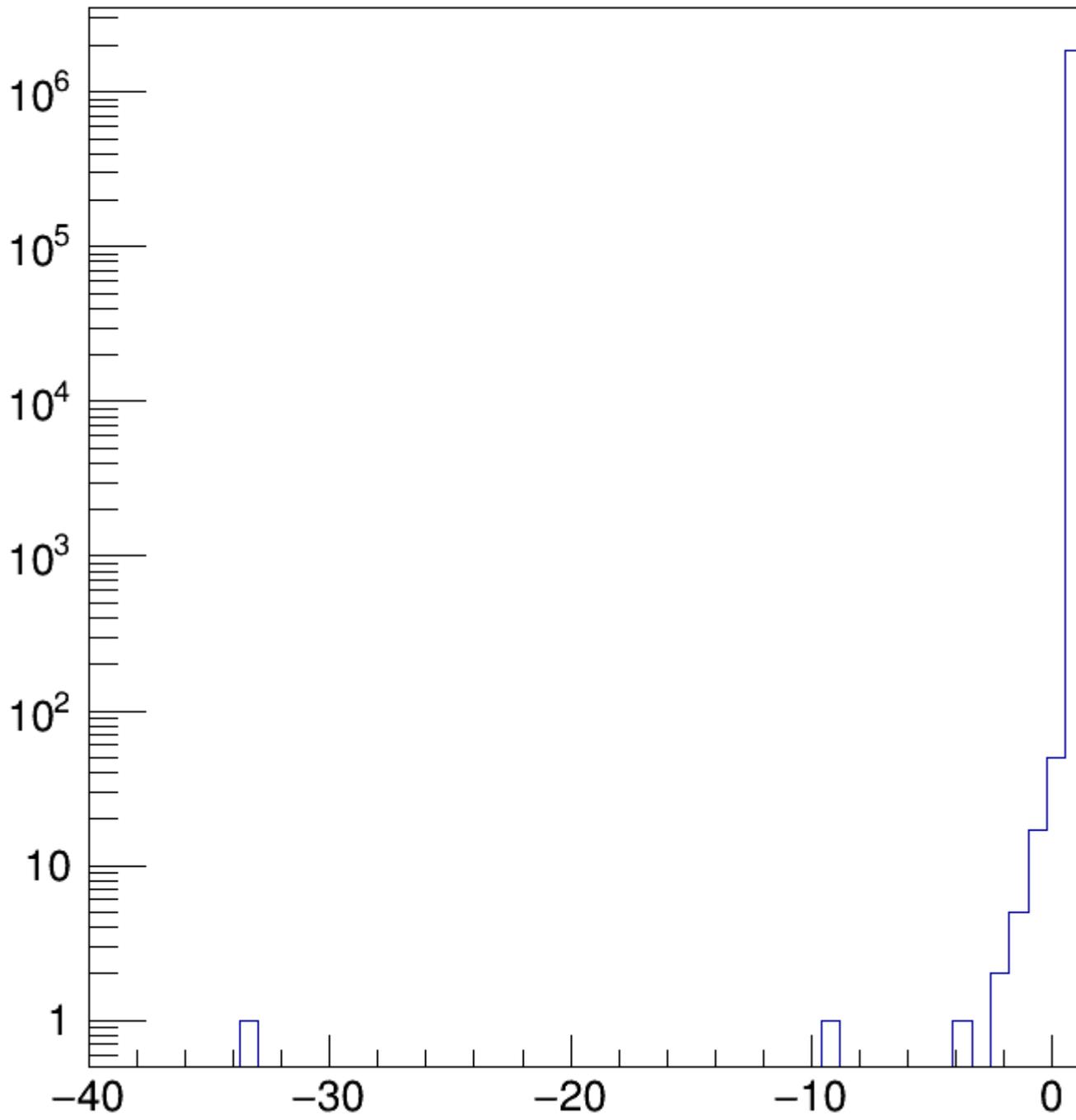Best regards,
Jenny

File Attachments
1) lambda0_mass.png, downloaded 917 times

2) lambda0_mass_Vtxfit.png, downloaded 930 times

3) lambda0_mass_Massfit.png, downloaded 932 times

4) all.dec, downloaded 529 times