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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 292 times
  - 2) [lambda0\\_mass\\_Vtxfit.png](#), downloaded 300 times
  - 3) [lambda0\\_mass\\_Massfit.png](#), downloaded 318 times
  - 4) [all.dec](#), downloaded 286 times
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