# Status around the fitting code

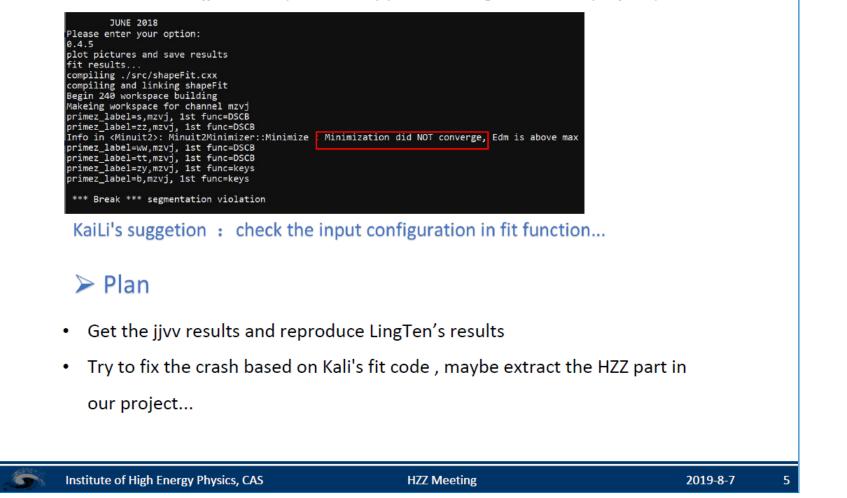
-- recently, taking over and starting to look the code

-- the code (I am checking) is under higzz/calculate

09/19/2019

#### ➢ Problem

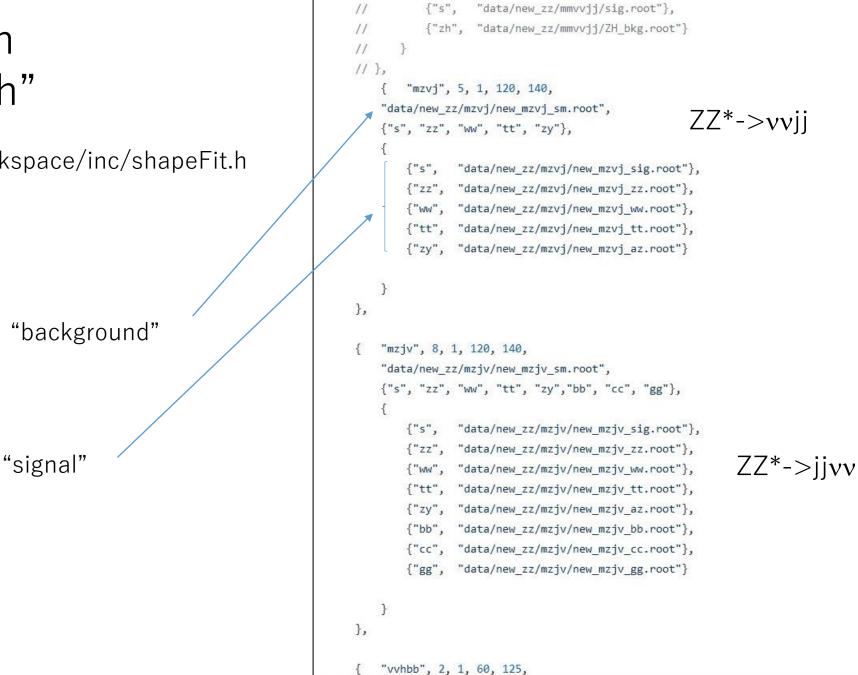
Crash when fit vvjj result... (fit code copy from Zhang Kaili in HZZ project )



Borrow a slide from Tao. The same error messages I got

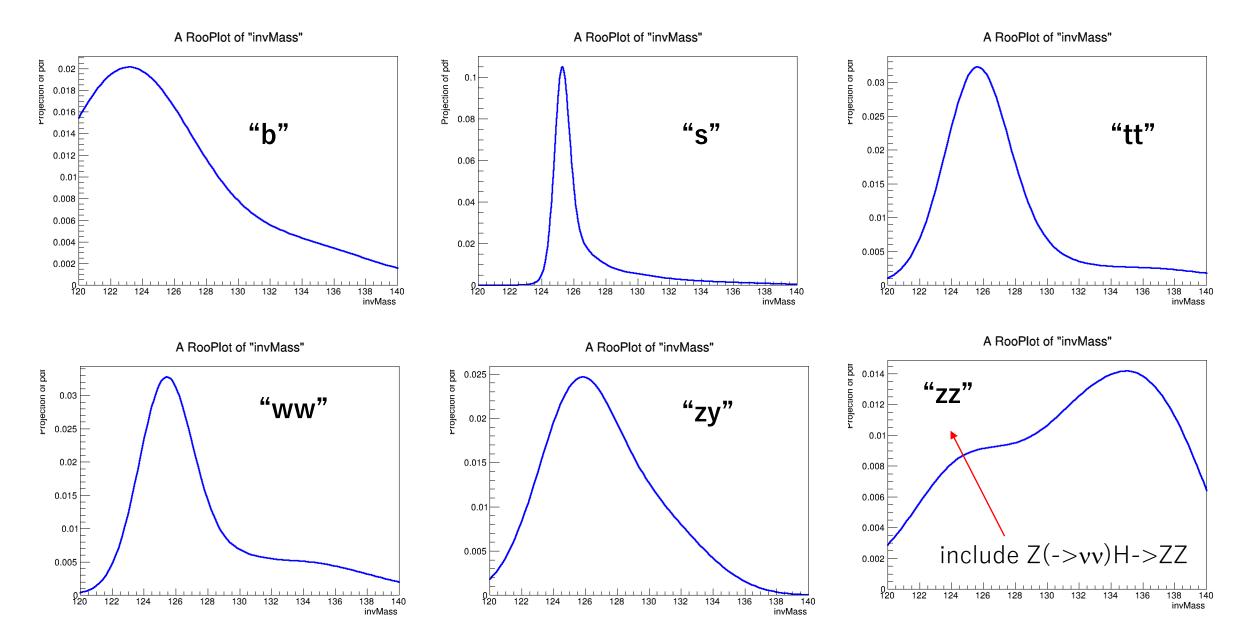
### Settings in "shapefit.h"

higzz/calculate/workspace/inc/shapeFit.h

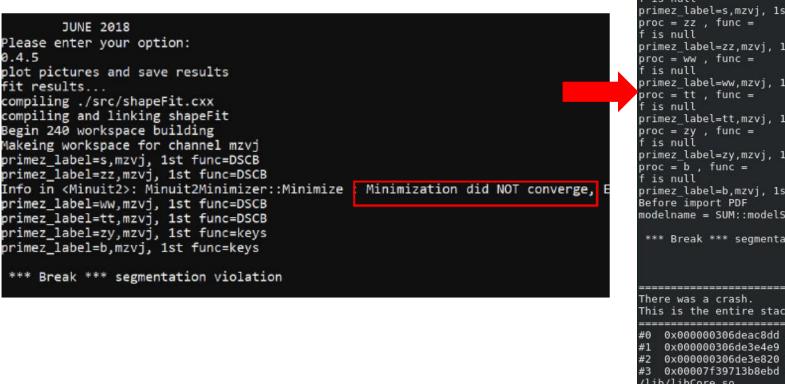


	[1mRooFit v3.60 Developed by Wouter Verkerke and David Kirkby[0m Copyright (C) 2000-2013 NIKHEF, University of California & Stanford University All rights reserved, please read http://roofit.sourceforge.net/license.txt				
Makeing workspace for channel mzvj minimize Finished status:0 RooFitResult: minimized FCN value: -27.4109, estimated distance to minimum: 2.05813e-05 covariance matrix quality: Full, accurate covariance matrix Status : MINIMIZE=0					
	Floating Parameter I	[nitialValue	FinalValue +/-	Error	GblCorr.
	ratio sigL sigR signal_mean		4.7876e-01 +/- 8.3165e-01 +/- 2.4062e-01 +/- 3.4883e+00 +/- 1.2528e+02 +/- -1.5907e+00 +/- 8.2415e-01 +/-	2.15e-01 3.62e-01 2.69e+00 1.05e-01 1.09e+00	
	minimize Finished status:-1 RooFitResult: minimized FCN value: -123.143, estimated distance to minimum: 99007.3 covariance matrix quality: Full matrix, but forced positive-definite Status : MINIMIZE=-1				
	Floating Parameter I	InitialValue	FinalValue +/-	Error	GblCorr.
	mRes ratio sigL sigR signal_mean tailAlpha tailN	9.0000e-01 3.0000e+00 3.0000e+00 1.2500e+02	2.5742e+00 +/- 9.7668e-01 +/- 1.0014e-01 +/- 7.9837e+00 +/- 1.2476e+02 +/- -6.6789e-04 +/- 3.8764e-01 +/-	2.88e-03	<pre><none> <none> </none> </none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></none></pre>
	minimize Finished				

## PDF (obtained from "keys" option)



# Change the fitting function to the PDF for "zz"



-bash-4.1\$ ./job/run.sh compiling ./src/shapeFit.cxx compiling and linking shapeFit Begin 240 workspace building Makeing workspace for channel mzvj proc = s , func = is null primez label=s,mzvj, 1st func=DSCB primez label=zz,mzvj, 1st func=exp2 primez label=ww,mzvj, 1st func=DSCB primez label=tt,mzvj, 1st func=DSCB primez label=zy,mzvj, 1st func=keys primez label=b,mzvj, 1st func=keys modelname = SUM::modelSB(n s\*pdf s,n zz\*pdf zz,n ww\*pdf ww,n tt\*pdf tt,n zy\*pdf zy,n b\*pdf b \*\*\* Break \*\*\* segmentation violation This is the entire stack trace of all threads: #0 0x000000306deac8dd in waitpid () from /lib64/libc.so.6 #1 0x000000306de3e4e9 in do system () from /lib64/libc.so.6 #2 0x000000306de3e820 in system () from /lib64/libc.so.6 #3 0x00007f39713b8ebd in TUnixSystem::StackTrace() () from /cvmfs/sft.cern.ch/lcg/releases/l /lib/libCore.so #4 0x00007f39713bb624 in TUnixSystem::DispatchSignals(ESignals) () from /cvmfs/sft.cern.ch/ lc6-gcc62-opt/lib/libCore.so <signal handler called>

but, the segmentation fault happens after that. seems around handling ROO workspace and related. (coding problem ?)