

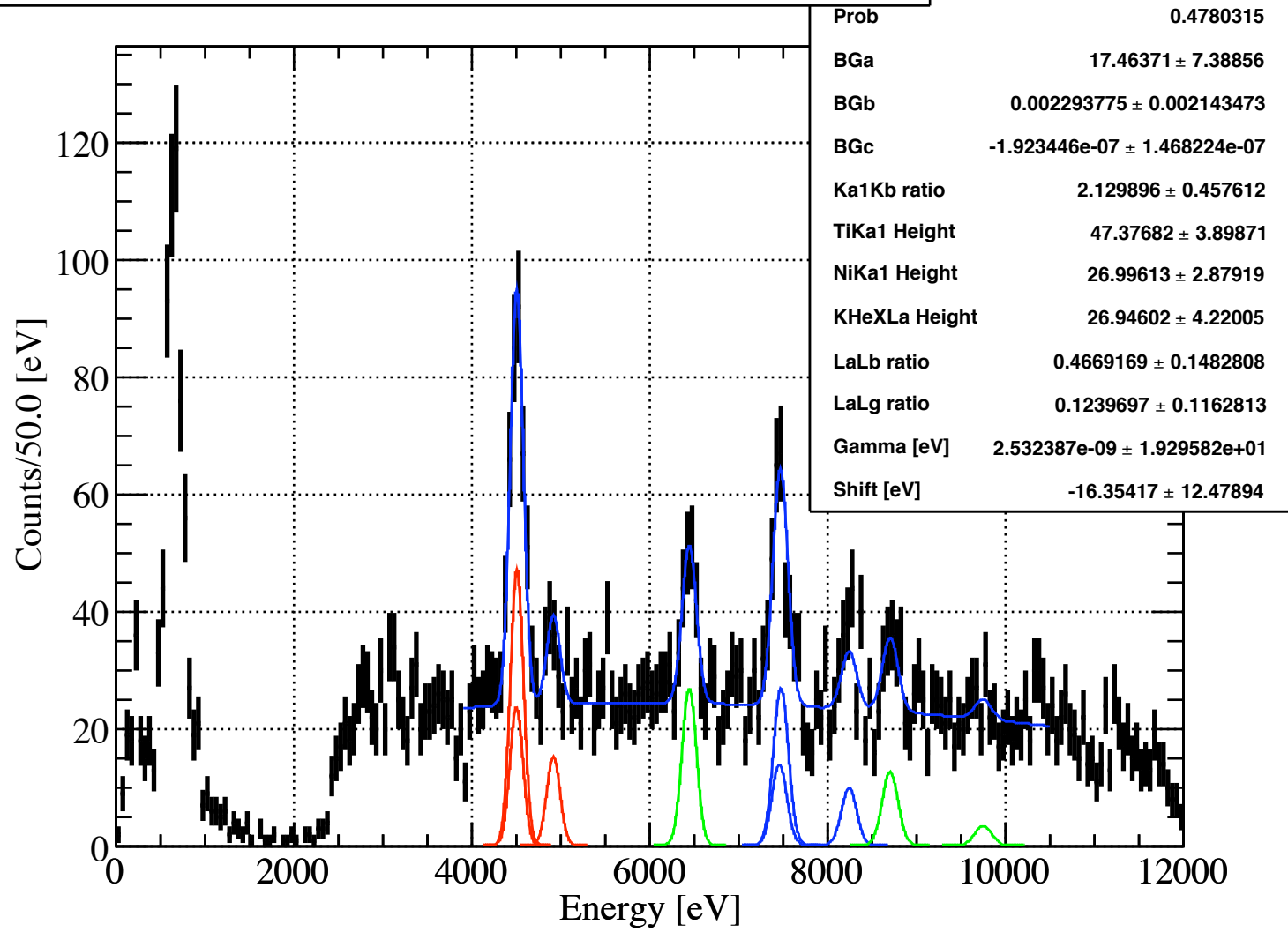
## Subsets study (2)

The subsets of the 2nd cycle have a convergence for the shift of KHeX La energy (in the report on 6th/July/2006). But the statistics of the first three subsets are very low, so their fit results are not reliable. Especially the low statistics influence the background structure under the KHeX La and the center of the peak can change. Here, the spectra of the difference with vertex cuts and without vertex cuts data are shown.

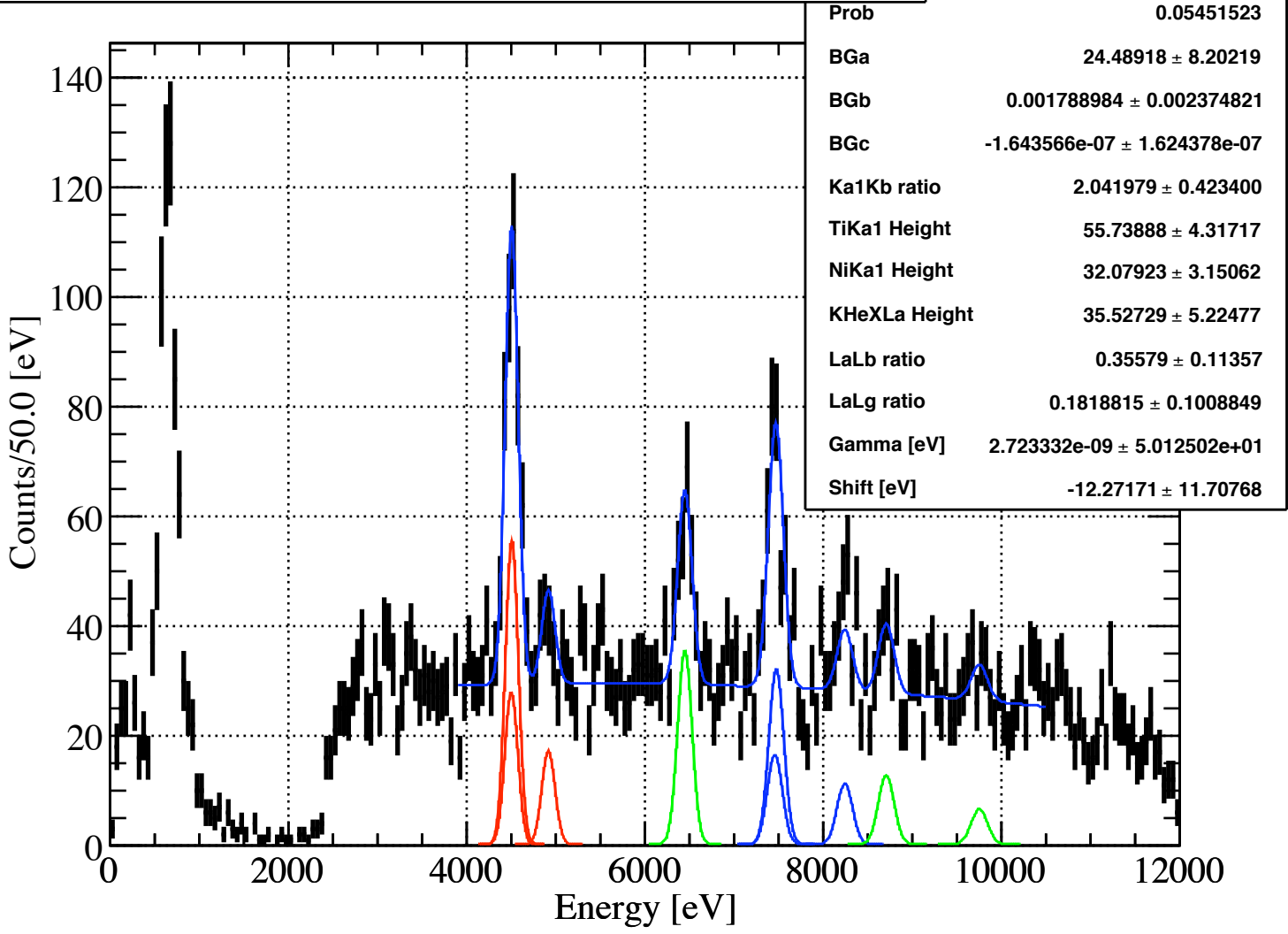
1st cycle the difference of  
w/ vertex cuts and w/o them.

# e549 cycle1 divide5 noise fix mean fixed fit

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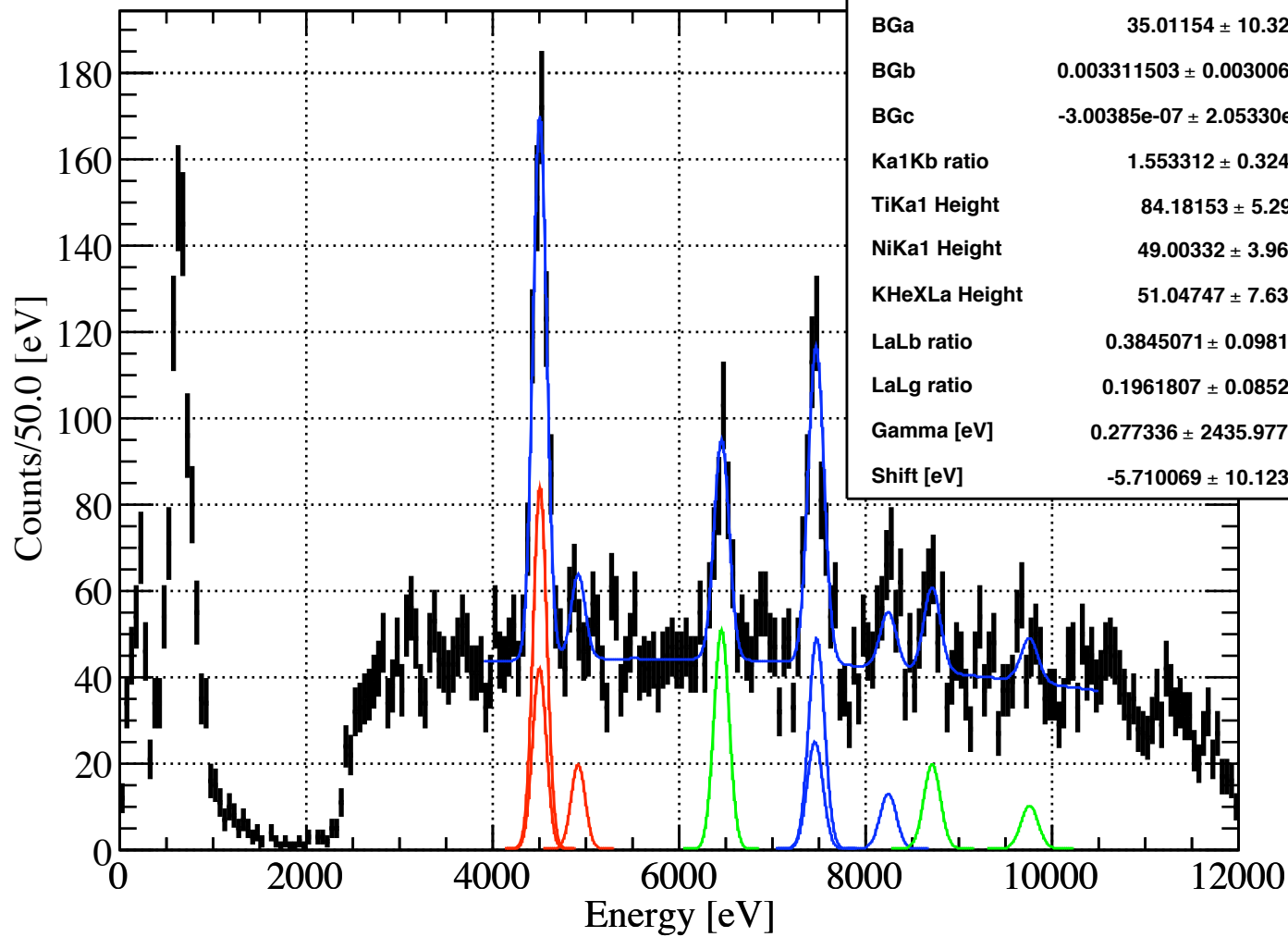
**e549 cycle1 divide4 noise fix mean fixed fit** 146.924 / 121



# e549 cycle1 divide3 noise fix mean fixed fit

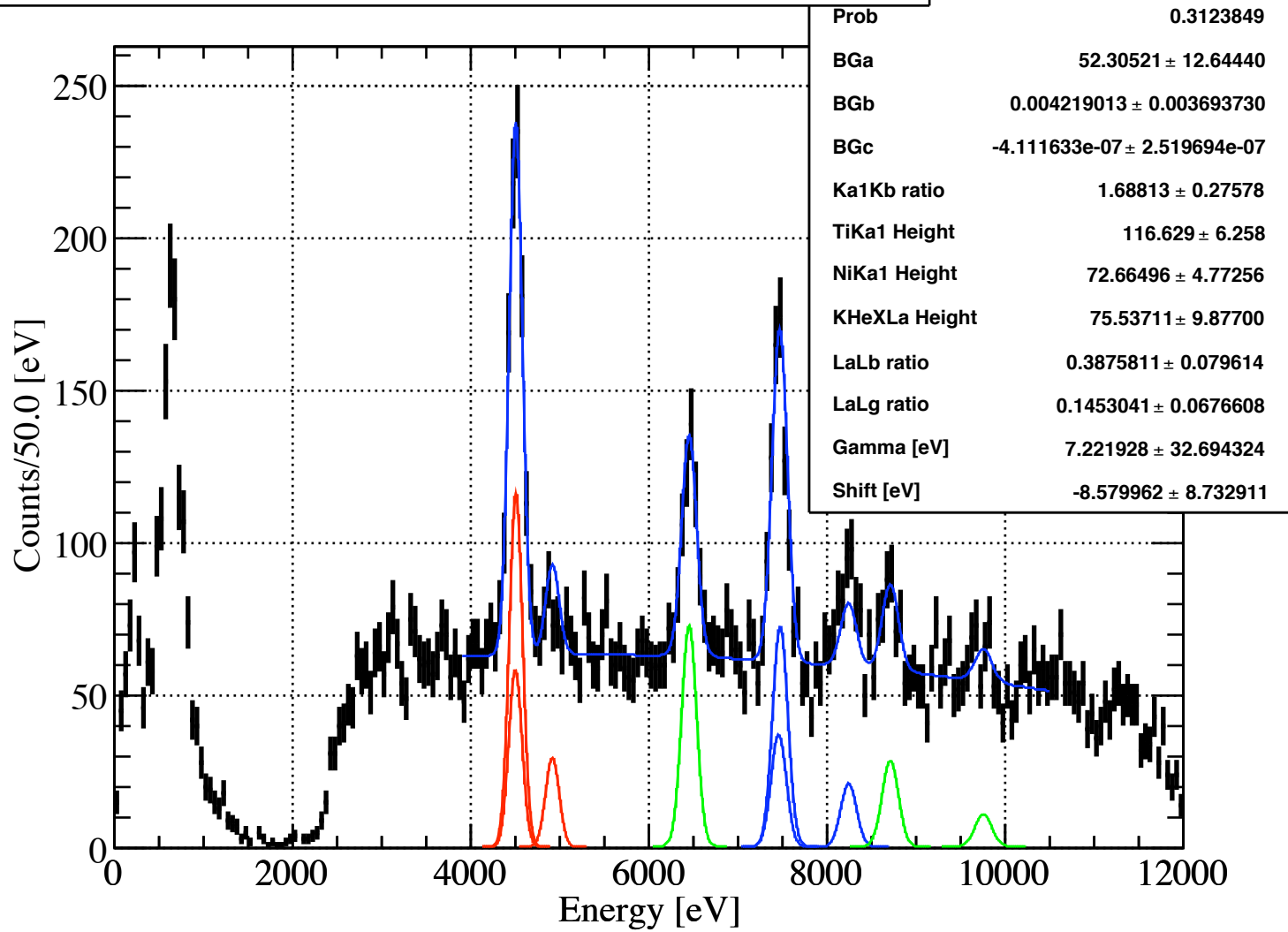
147.2165 / 121

Prob	0.05271451
BGa	$35.01154 \pm 10.32453$
BGb	$0.003311503 \pm 0.003006090$
BGc	$-3.00385e-07 \pm 2.05330e-07$
Ka1Kb ratio	$1.553312 \pm 0.324233$
TiKa1 Height	$84.18153 \pm 5.29831$
NiKa1 Height	$49.00332 \pm 3.96438$
KHeXLa Height	$51.04747 \pm 7.63897$
LaLb ratio	$0.3845071 \pm 0.0981513$
LaLg ratio	$0.1961807 \pm 0.0852670$
Gamma [eV]	$0.277336 \pm 2435.977295$
Shift [eV]	$-5.710069 \pm 10.123652$



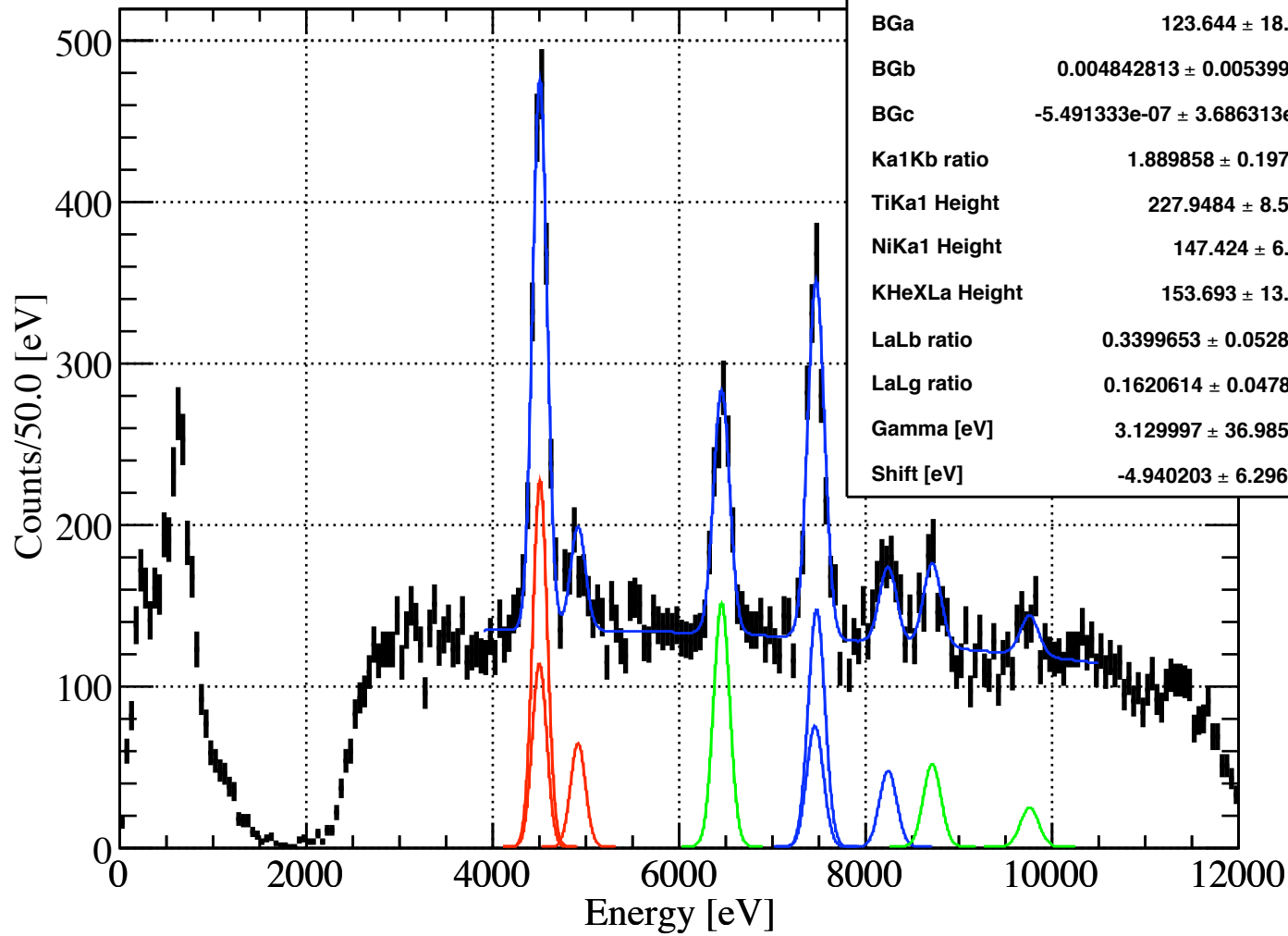
# e549 cycle1 divide2 noise fix mean fixed fit

128.0784 / 121



**e549 cycle1 divide1 noise fix mean fixed fit**

134.7308 / 121

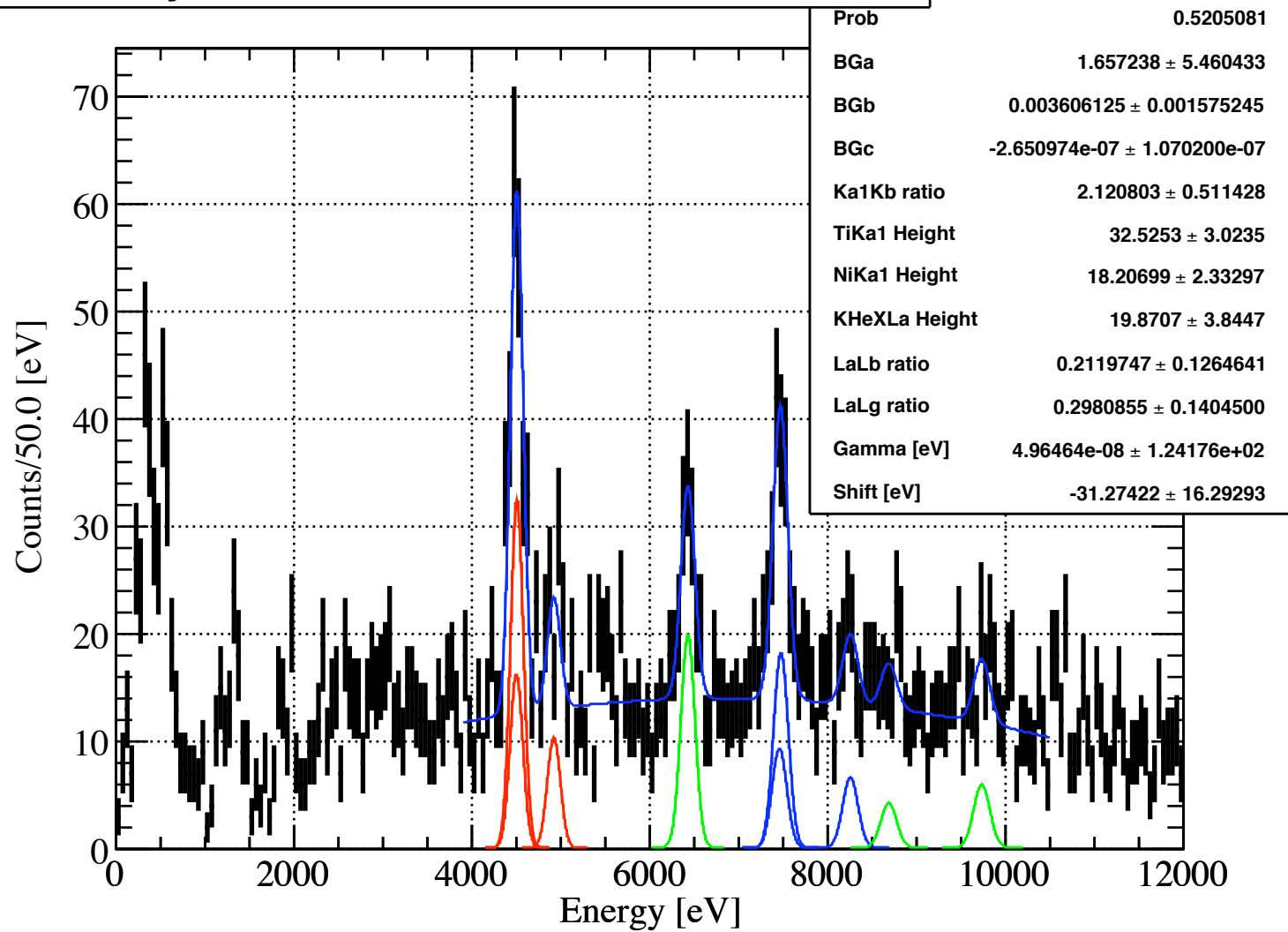


2nd cycle the difference of  
w/ vertex cuts and w/o them.



# e549 cycle2 divide5 noise fix mean fixed fit

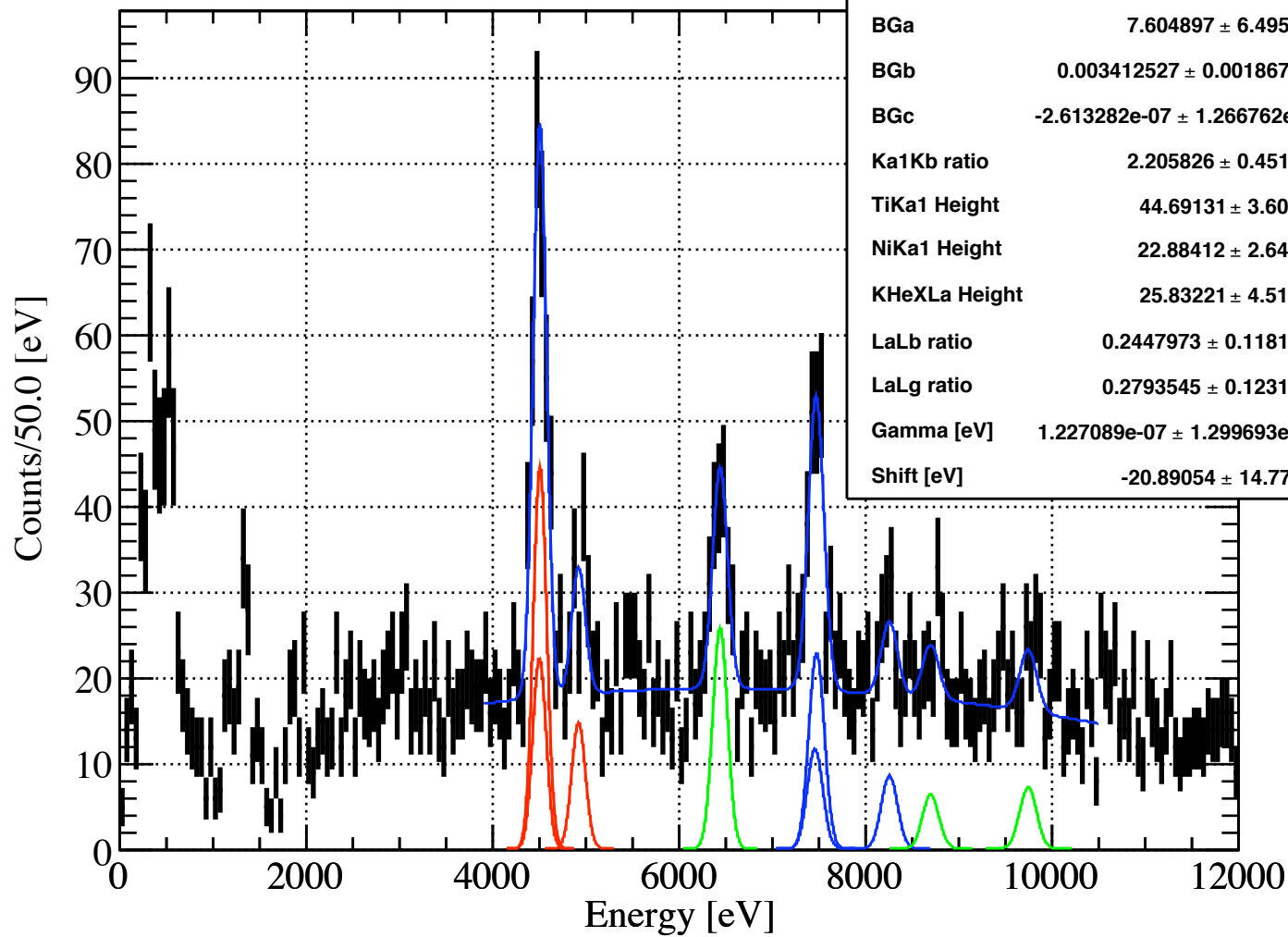
119.5383 / 121



# e549 cycle2 divide4 noise fix mean fixed fit

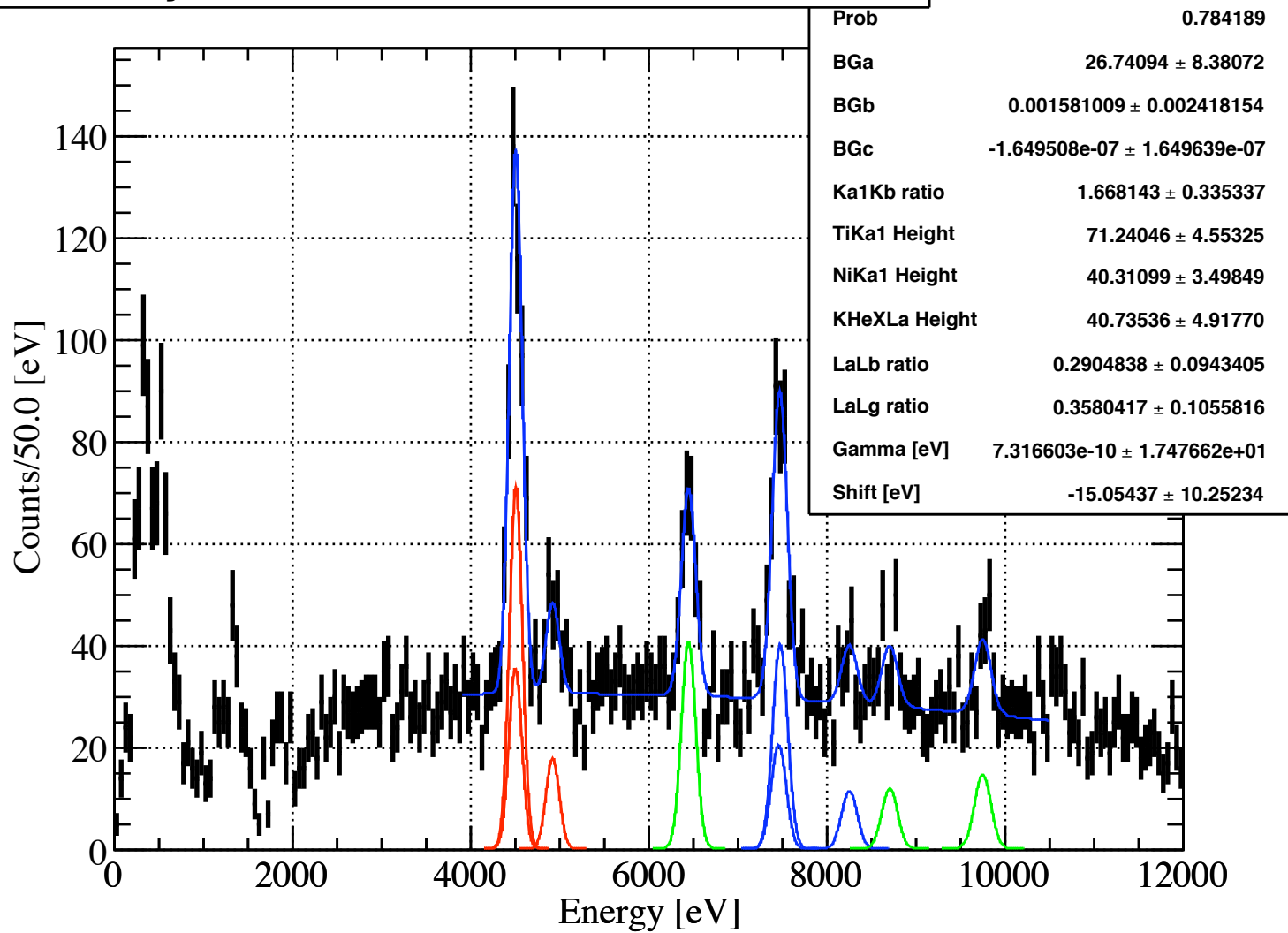
121.1386 / 121

Prob	0.4793536
BGa	$7.604897 \pm 6.495106$
BGb	$0.003412527 \pm 0.001867610$
BGc	$-2.613282e-07 \pm 1.266762e-07$
Ka1Kb ratio	$2.205826 \pm 0.451946$
TiKa1 Height	$44.69131 \pm 3.60518$
NiKa1 Height	$22.88412 \pm 2.64234$
KHeXLa Height	$25.83221 \pm 4.51287$
LaLb ratio	$0.2447973 \pm 0.1181244$
LaLg ratio	$0.2793545 \pm 0.1231406$
Gamma [eV]	$1.227089e-07 \pm 1.299693e+02$
Shift [eV]	$-20.89054 \pm 14.77021$



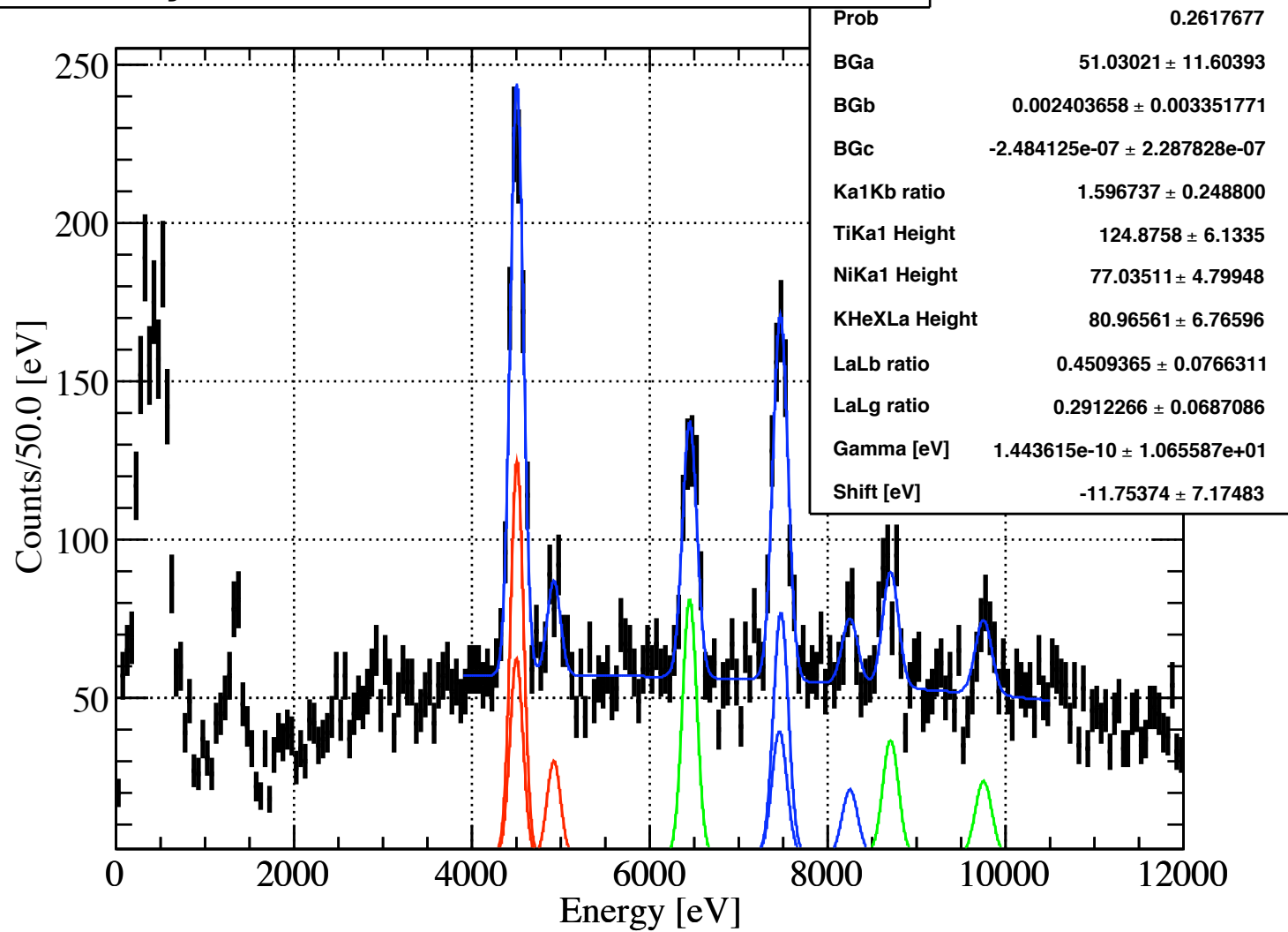
# e549 cycle2 divide3 noise fix mean fixed fit

108.5481 / 121



# e549 cycle2 divide2 noise fix mean fixed fit

130.4986 / 121



**e549 cycle2 divide1 noise fix mean fixed fit**

133.0236 / 121

