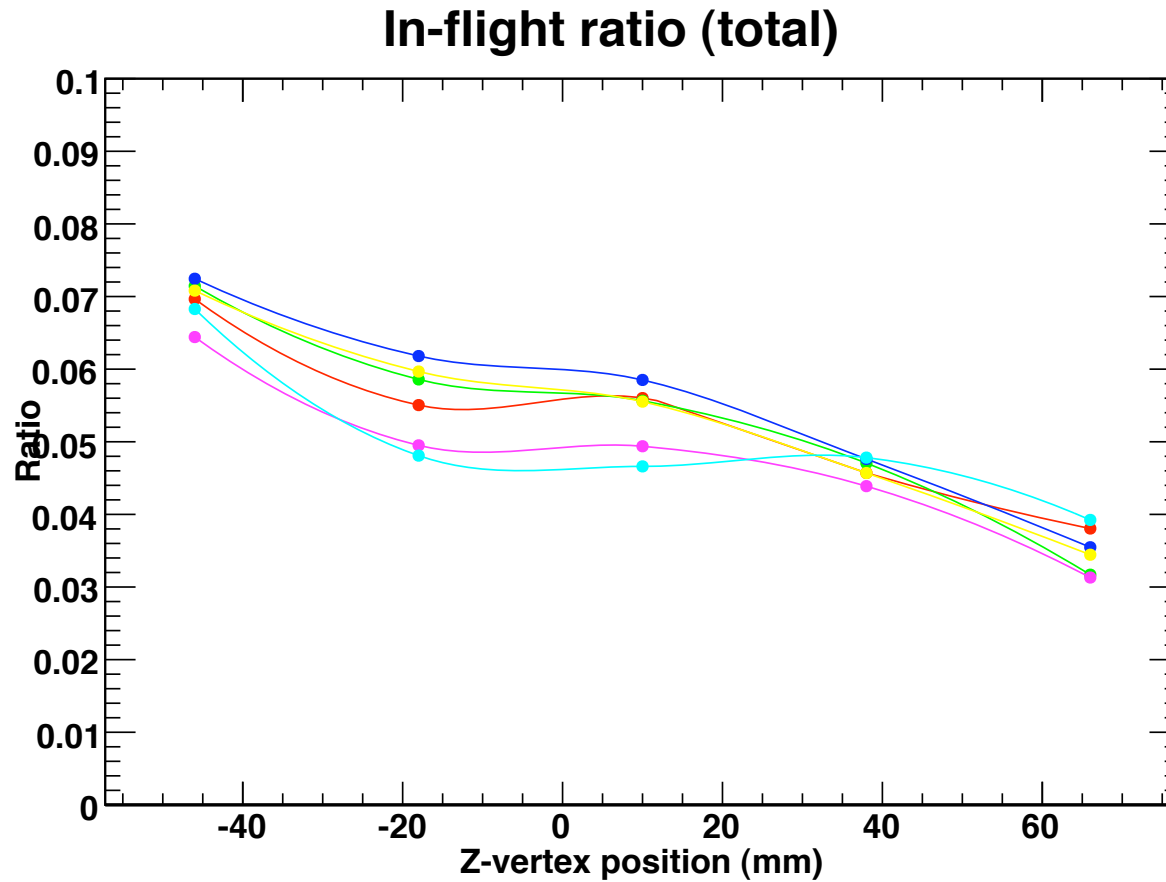


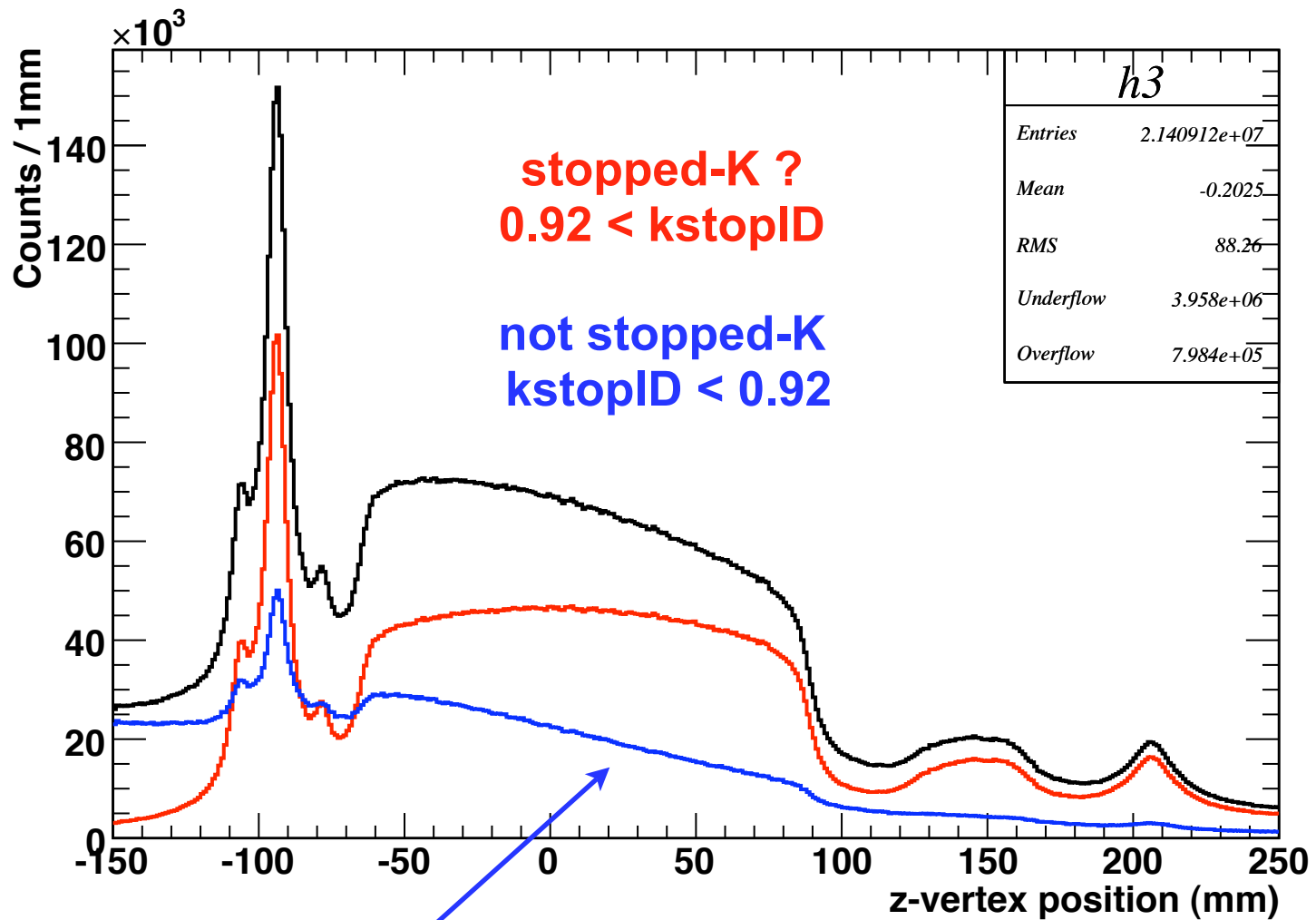
(Continue)

This tendency is not reasonable ?



Counts

run 419-500

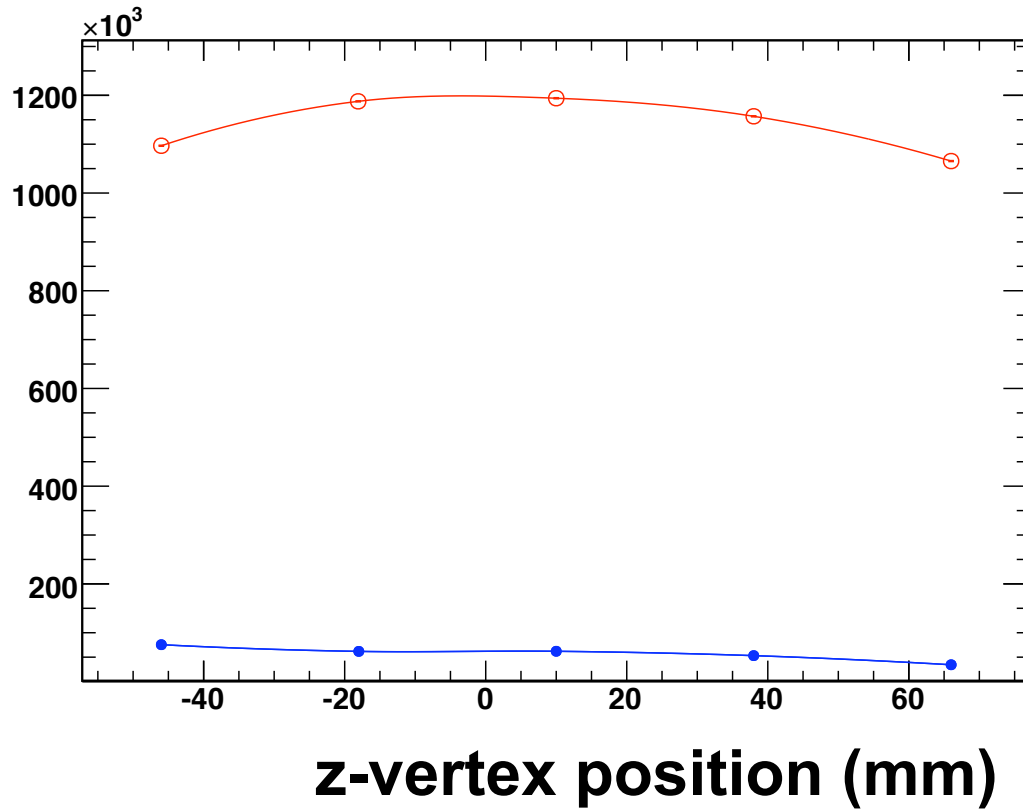


in-flight reaction + decay
events has a negative slope

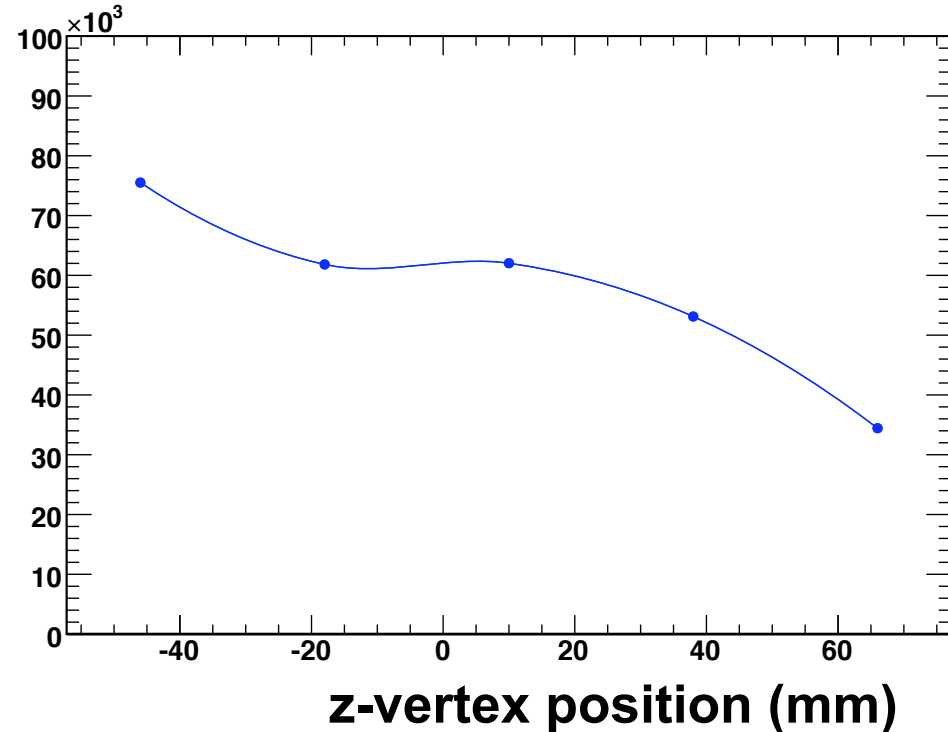
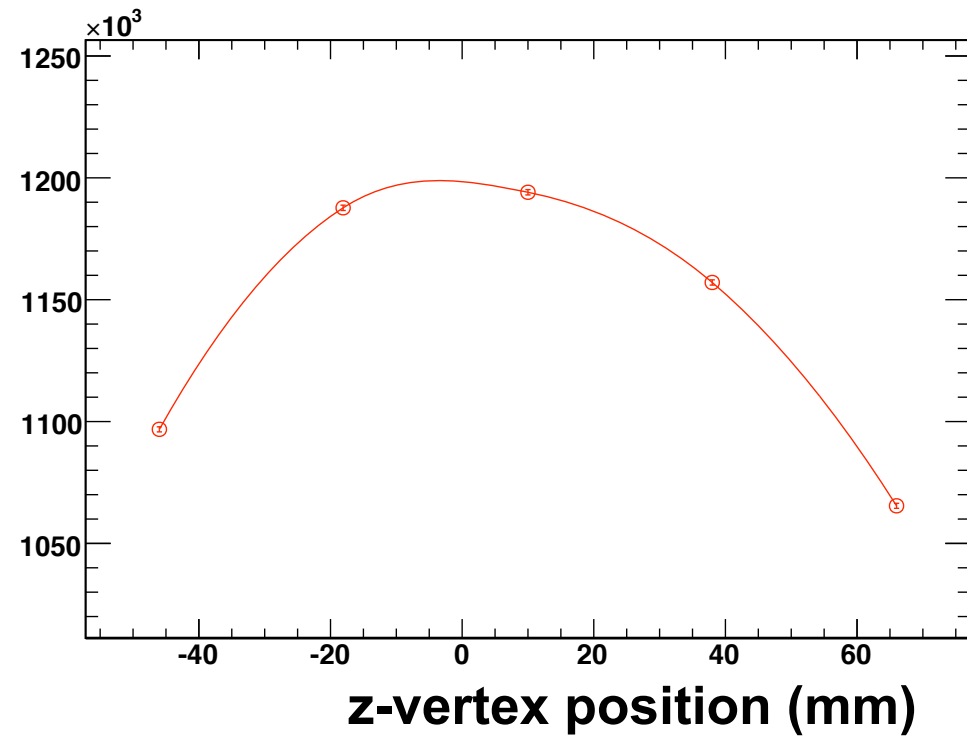
Counts

run 419-500

$0.92 < kstopID < 1.1$



this negative slope is a reasonable possibility (how about simulation...?)

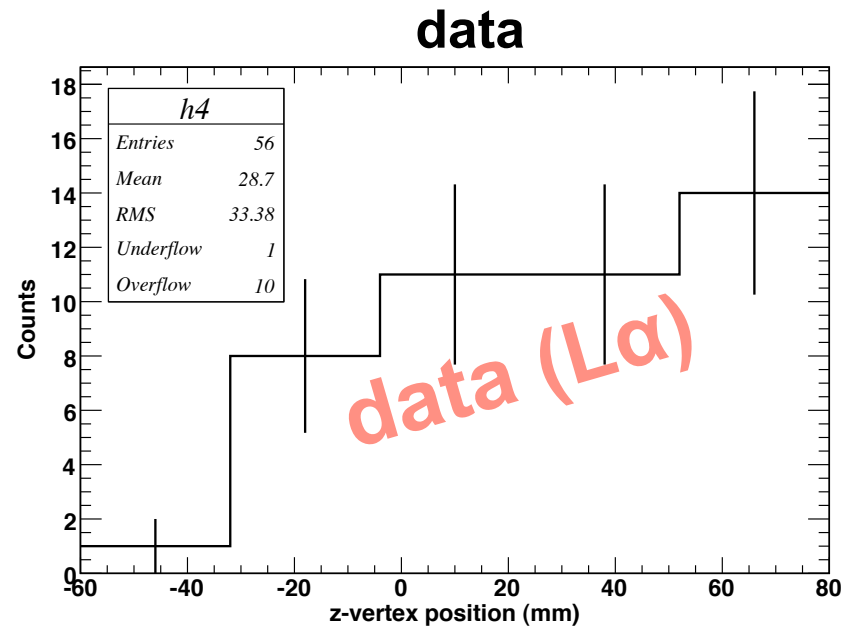
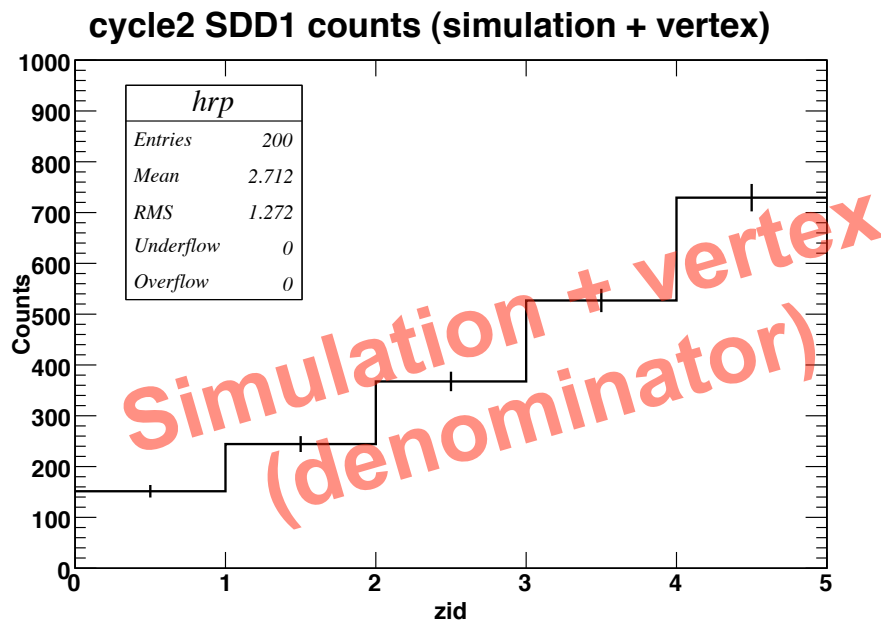


Direct comparison of the counts of L α x-ray between simulation and data

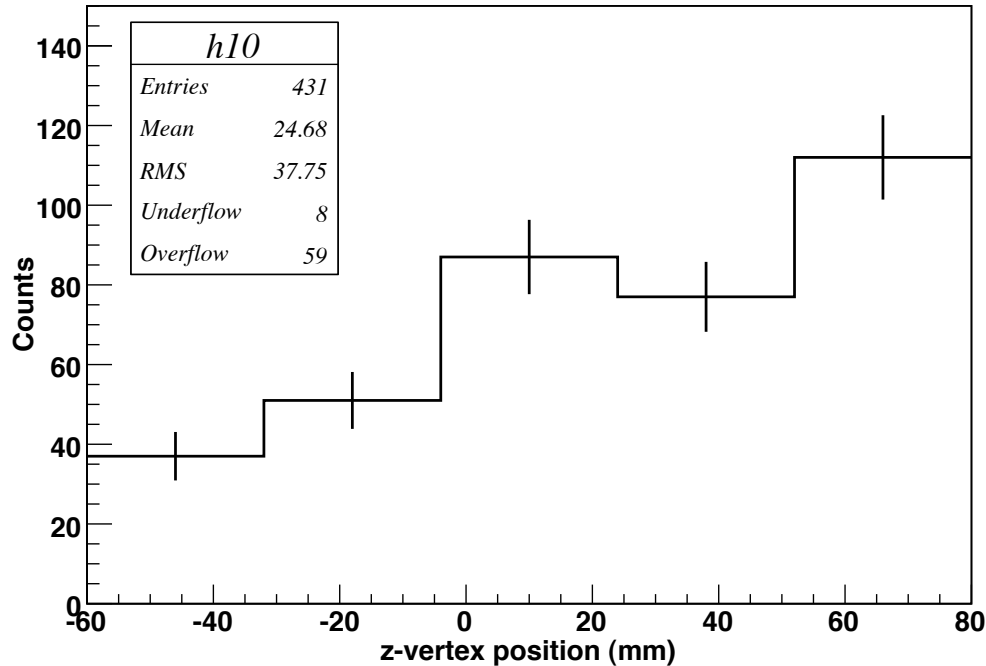
simulation + vertex : counts estimated by simulated efficiencies and number of vertices

data : tightly selected L α energy region ($6.4 < E < 6.5$)

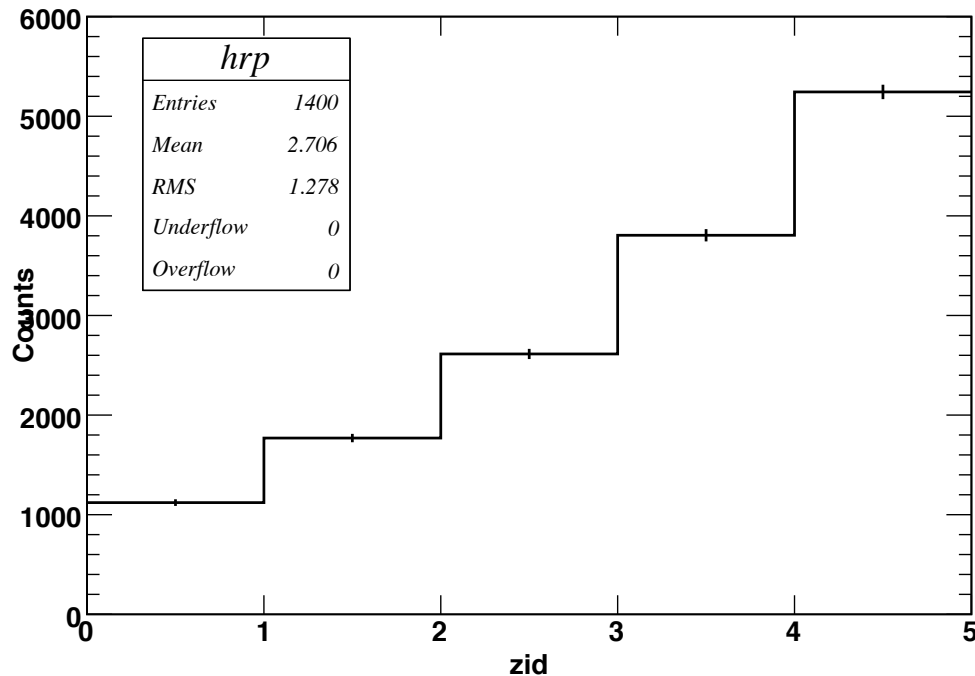
※ if you want to calculate the yield, you have to product a factor



data

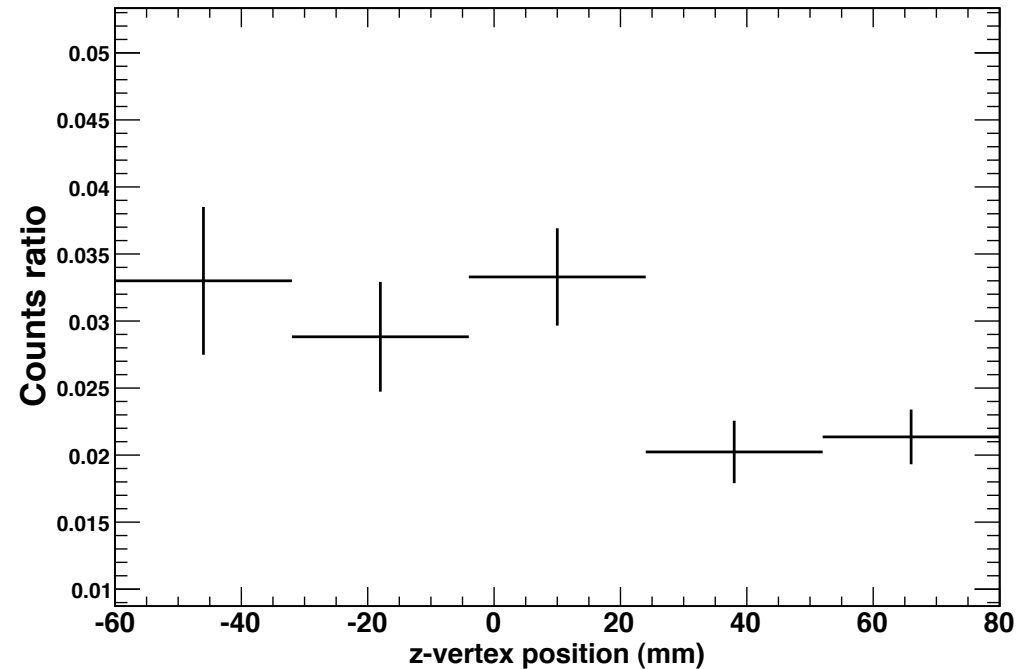


cycle2 total counts (simulation + vertex)



Cycle2 total SDDs

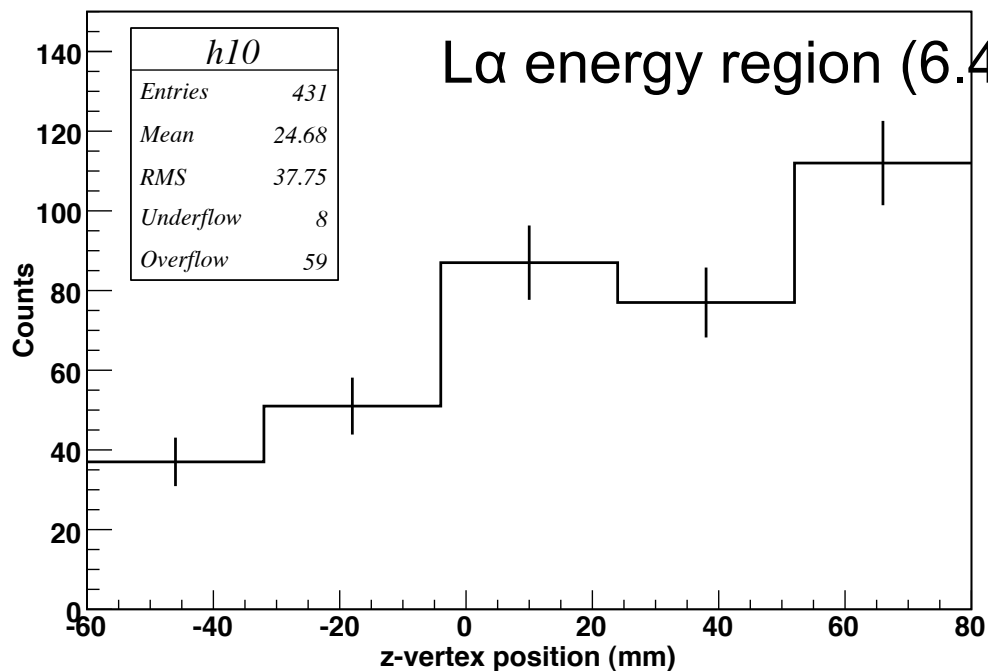
Counts ratio (data / simulation)



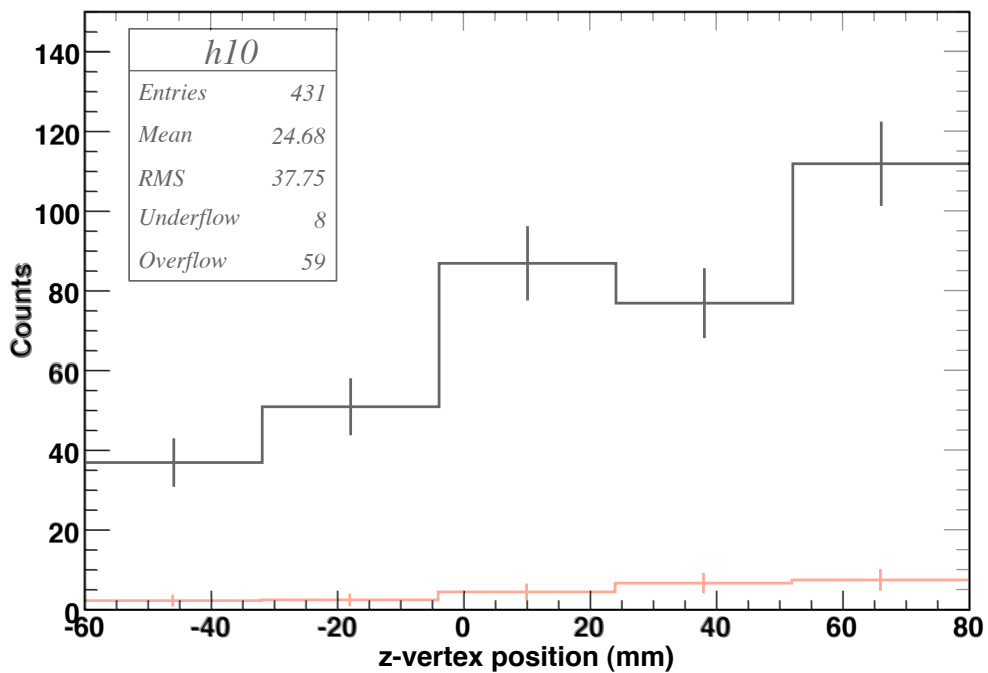
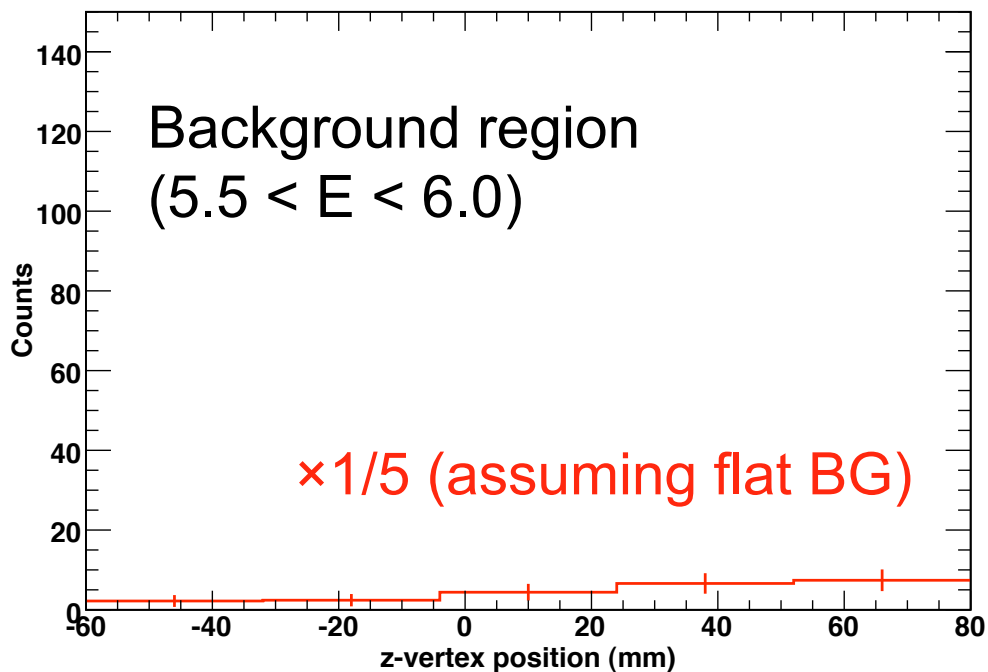
※ Since the data required the condition of $6.4 < E < 6.5$ keV, if you want to calculate the yield, you have to **product a factor**

※ this results include in-flight contaminations and the background under L-alpha peak.

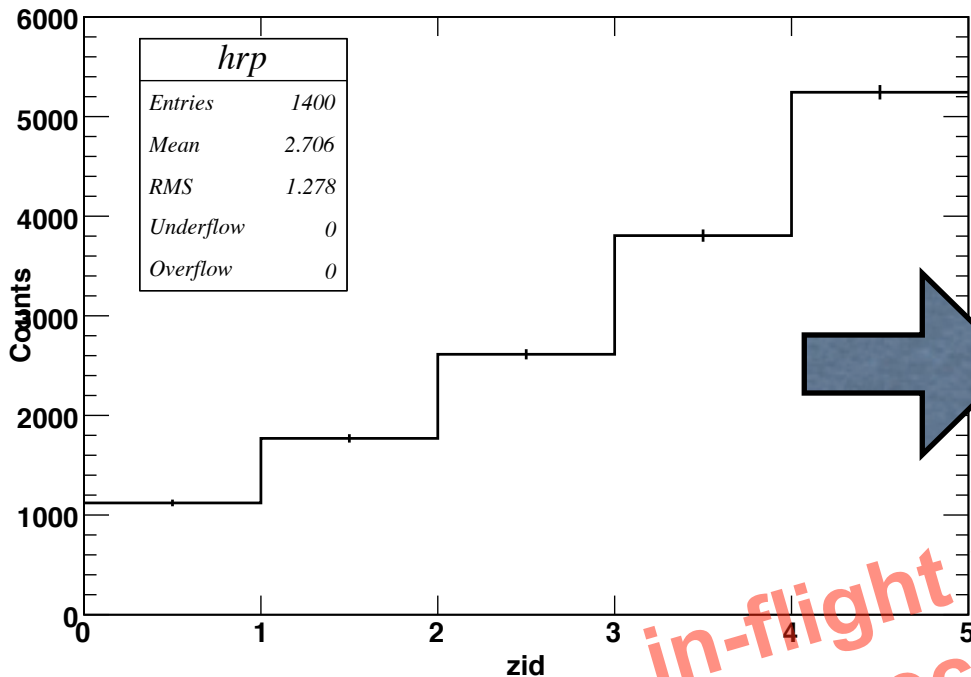
$L\alpha$ energy region ($6.4 < E < 6.5$)



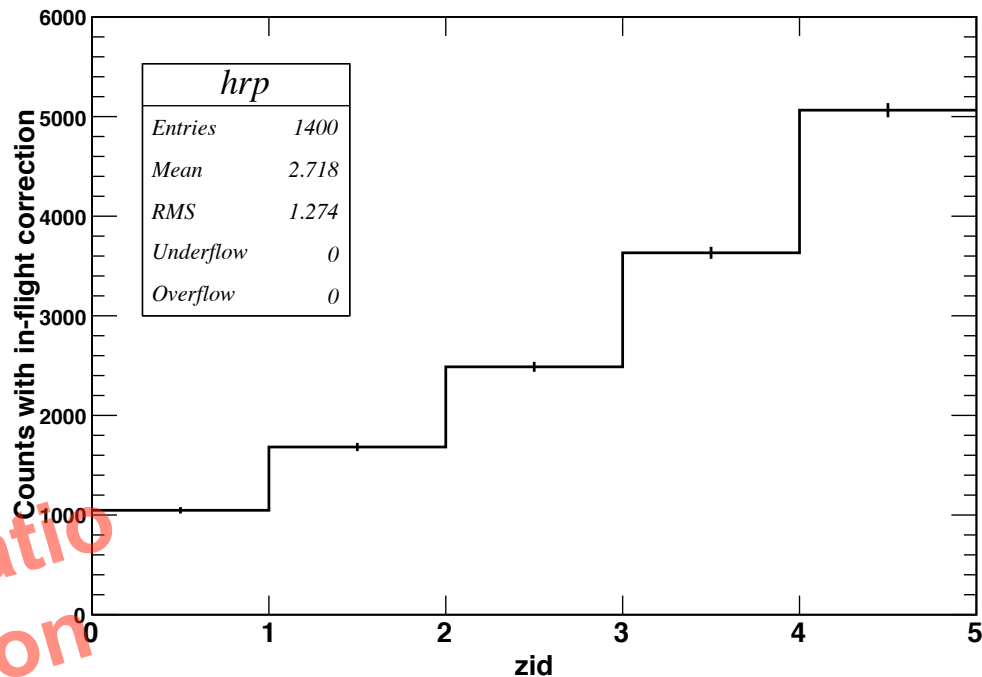
Background estimation



cycle2 total counts (simulation + vertex)

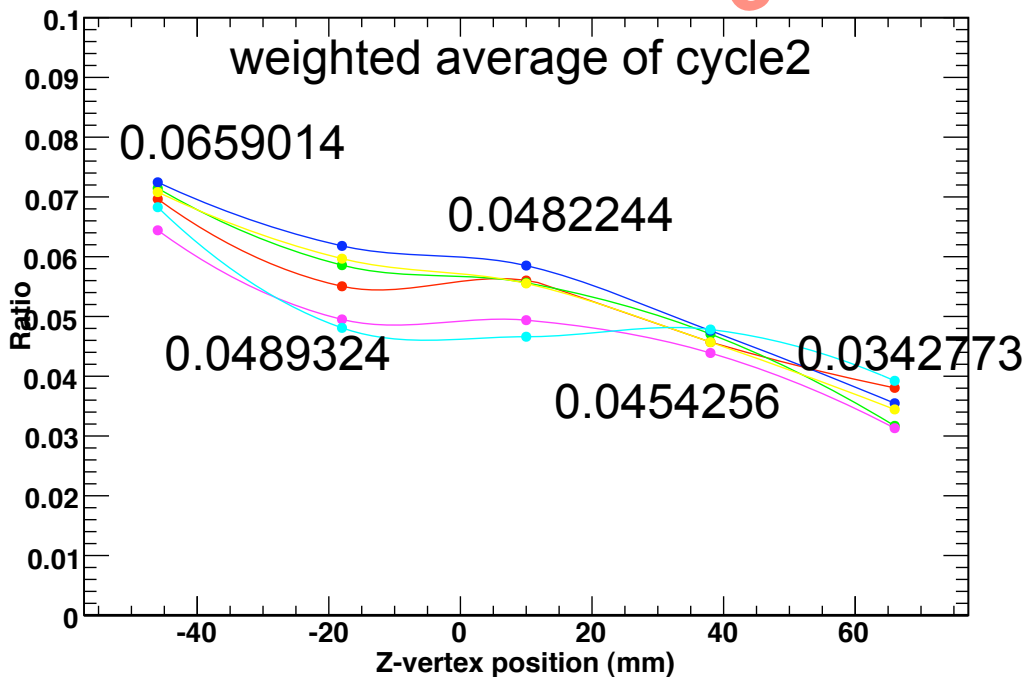


cycle2 total SDDs counts with in-flight correction



in-flight ratio
correction

In-flight ratio (total)



※ without background subtraction

