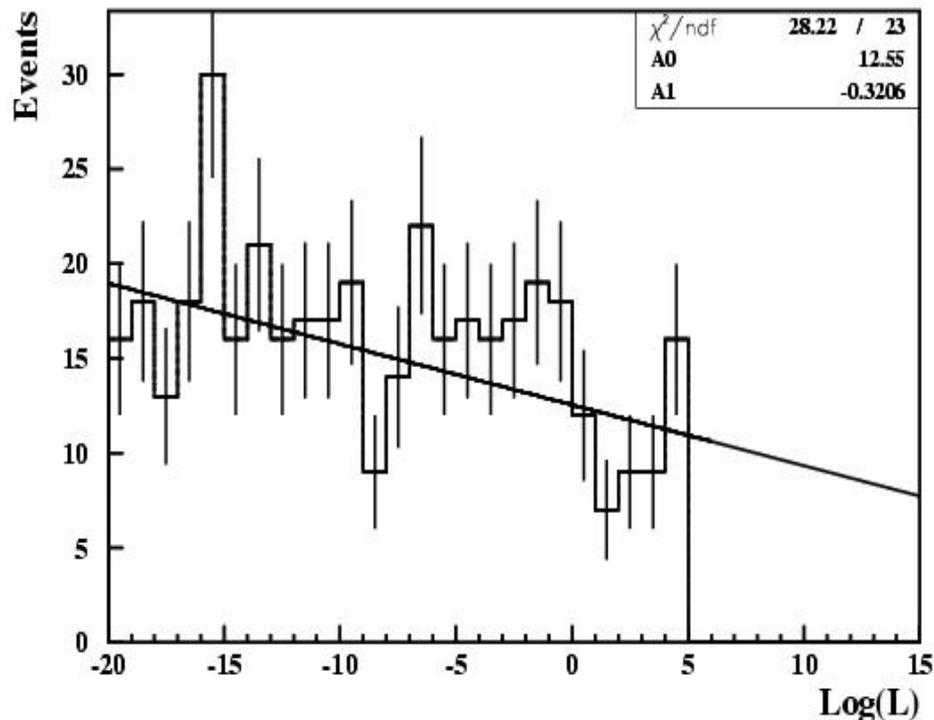


# LFV--the last chapter at least for KTeV

Just when I thought I was done, Leo says.....

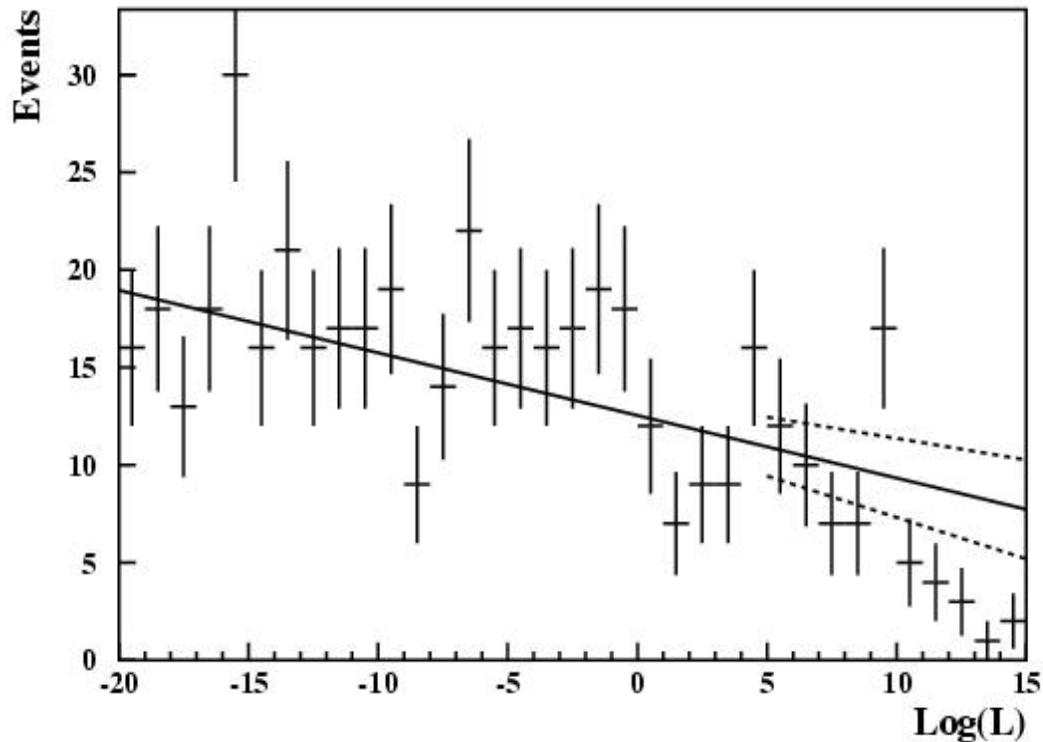
“Since you have opened the box, you can also plot the points in figure 4 in the signal region to show that the background estimate is good.”



This was fig. 4. Since I used only the data outside the control area to extrapolate into the control and signal regions, I showed only the region used for the extrapolation.

But it was easy to make the plot Leo wanted so...

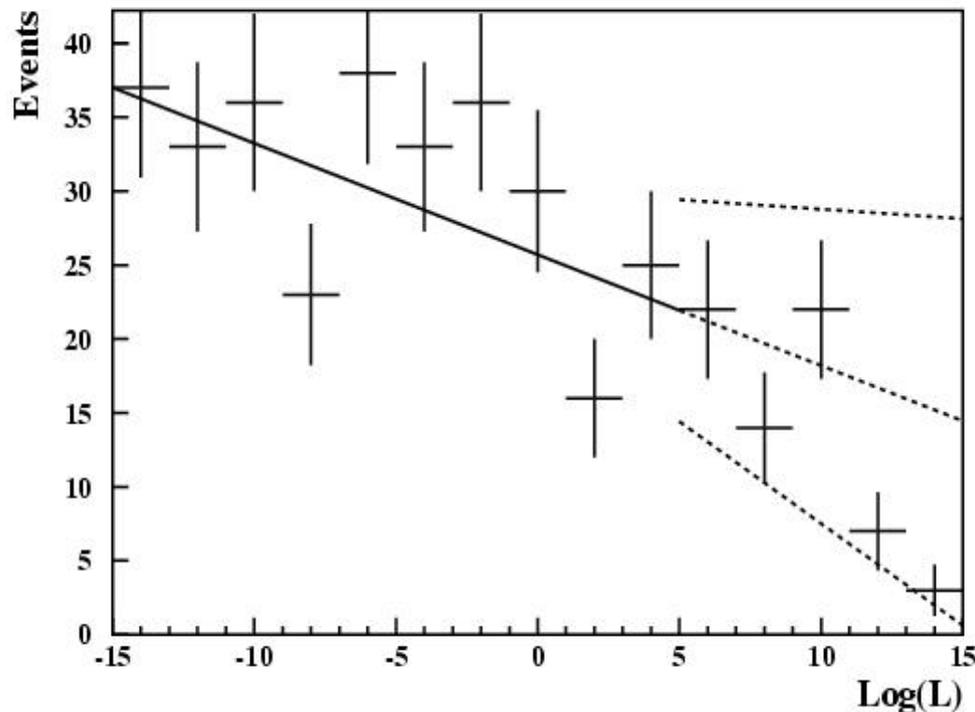
# LFV--the last chapter



So when I do that I find that the background takes a nosedive within the signal region.

The dotted lines show the error band I has used as the systematic,  $\pm 1\sigma$  in the fit parameters.

# So what to do?



After some discussion (Leo, Bob, me), what we propose is to keep the central value of the background but to expand the error from  $\pm 1\sigma$  in the fit parameters to  $\pm 2.5\sigma$ .

This affects  $KL \rightarrow \pi \pi \mu e$  only.

The limit changes from  $1.59 \times 10^{-10}$  to  $1.64 \times 10^{-10}$ .

May need a little word-smithing to get the length down.