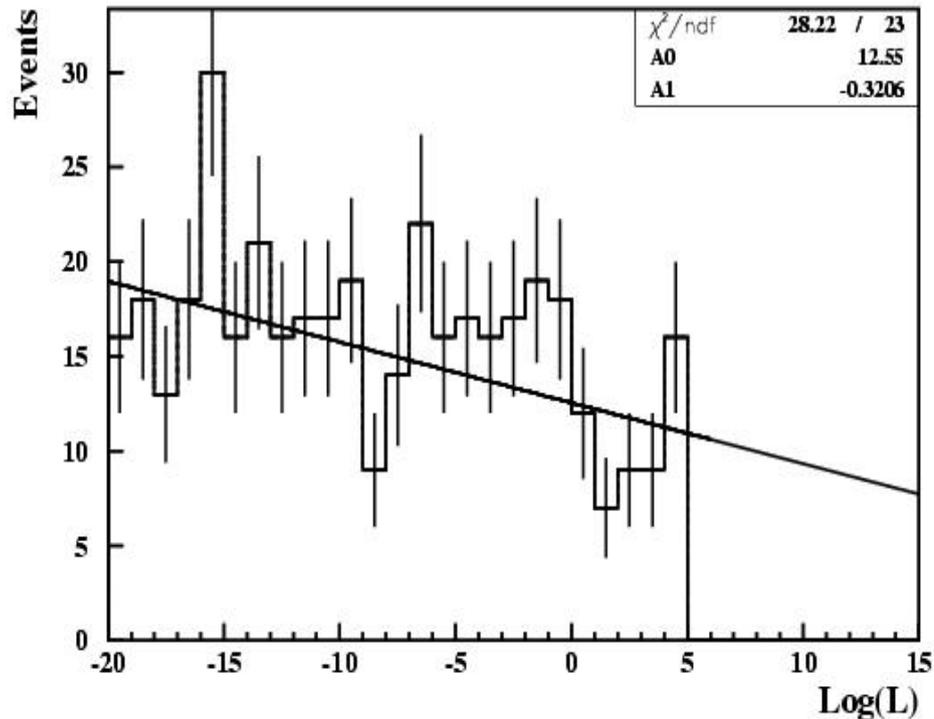


LFV--the last chapter at least for KTeV

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

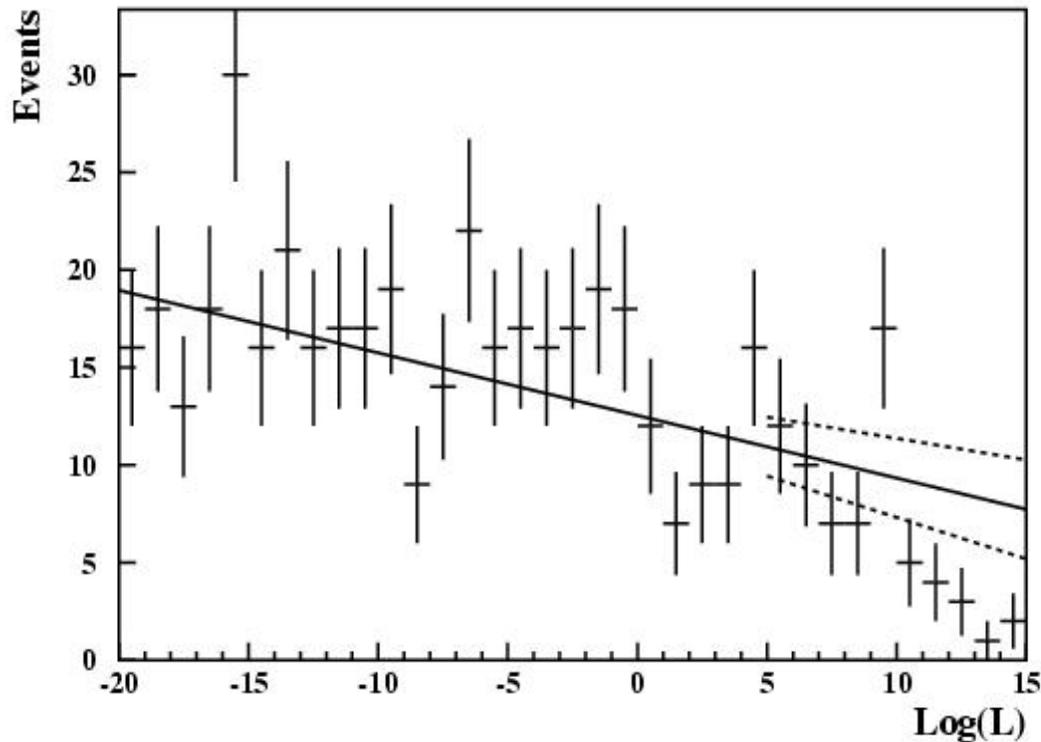
“Since you have opened the box, you can also plot the points in figure 4 in the signal region to show that the background estimate is good.”



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...

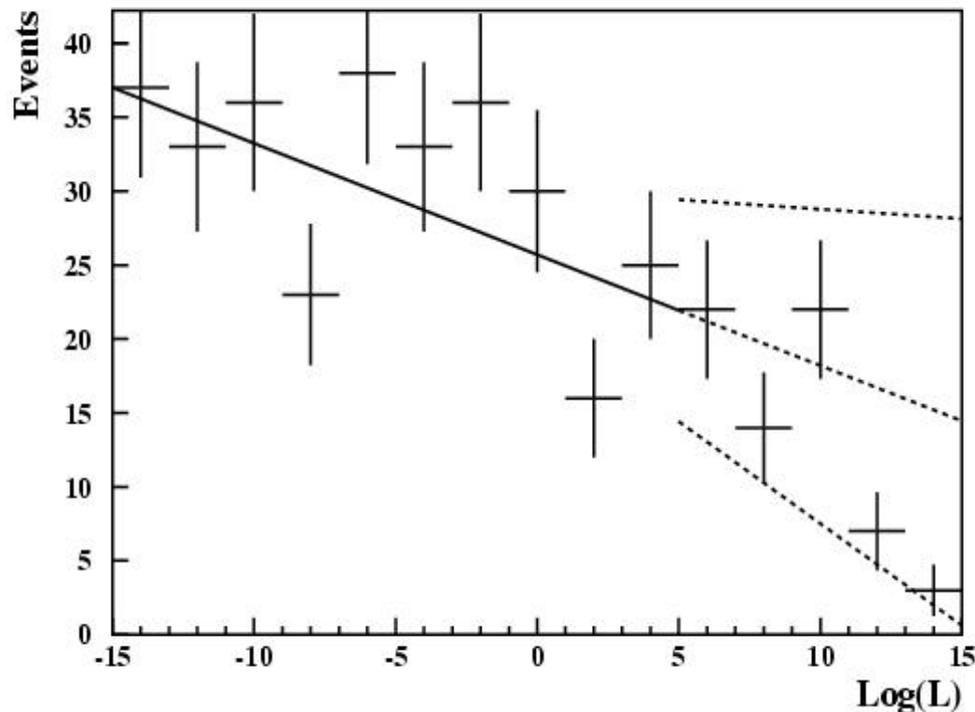
LFV--the last chapter



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 1.59×10^{-10} to 1.64×10^{-10} .

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