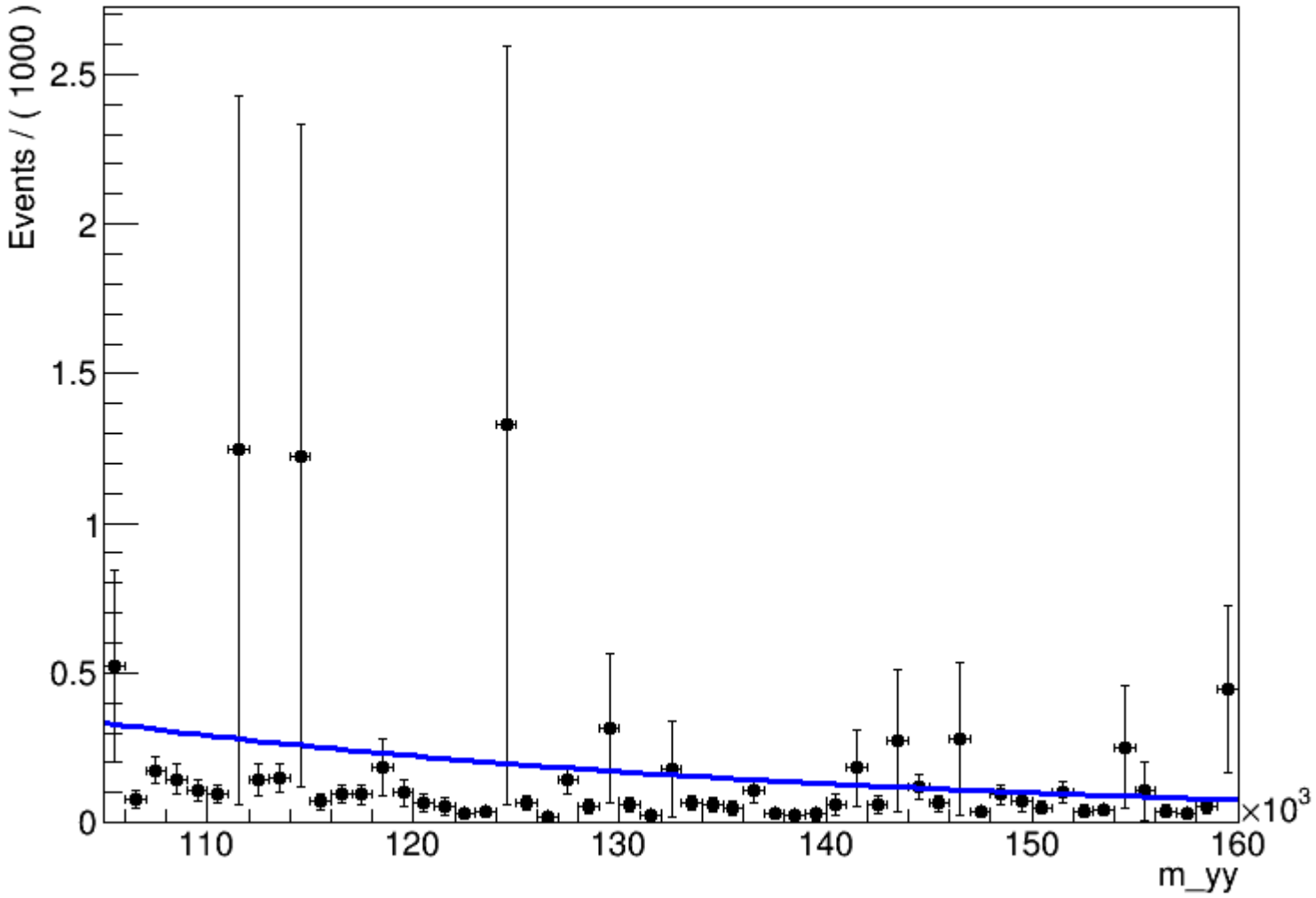
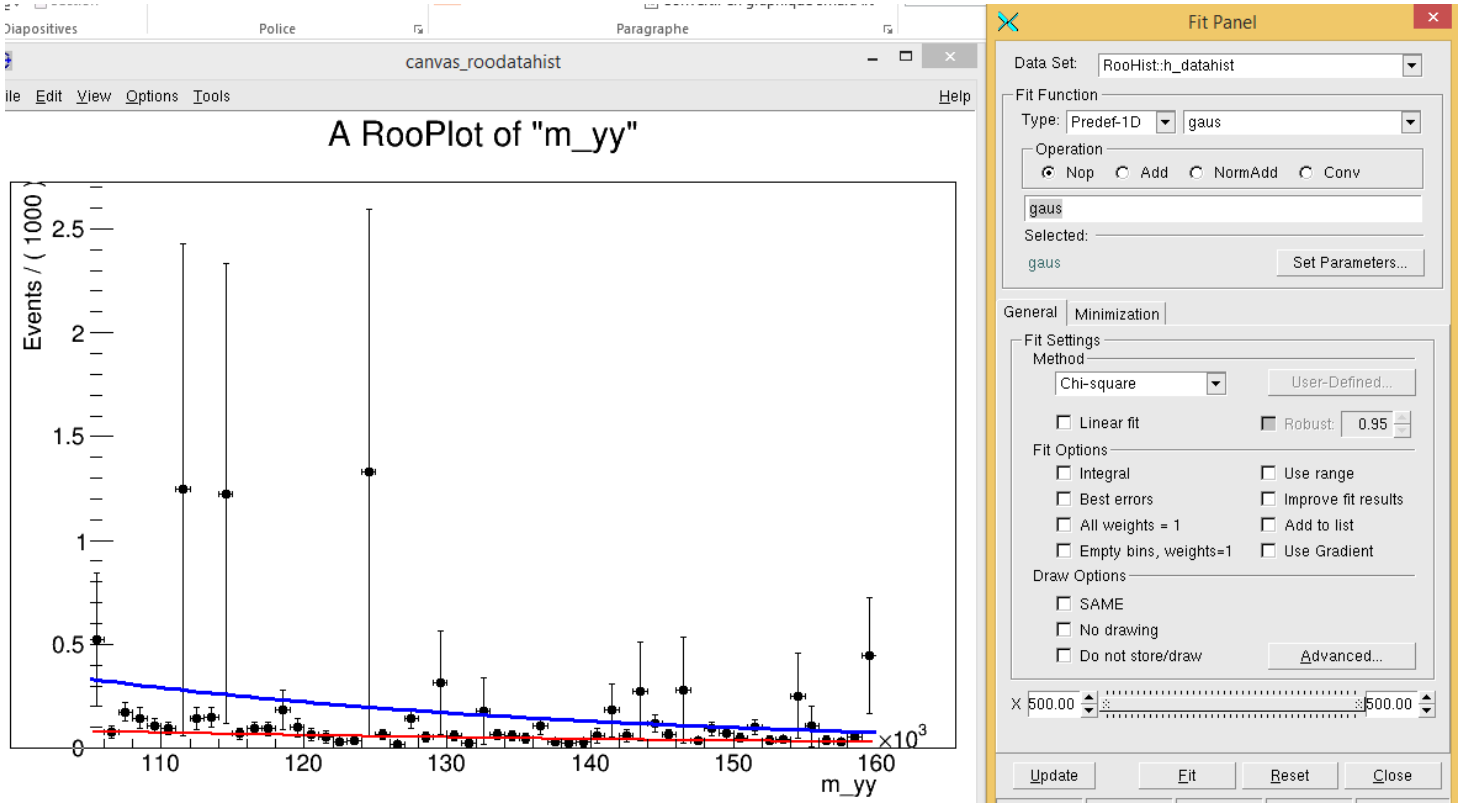
Minimal program doing a chi2FitTo with roofit, from a RooDataHist
→it seems that with the way we do, the errors are not taken into account as we would like.
Indeed, we see that there are plenty of bins with tiny errors, but the fit behaves as if all bins would have the same errors.

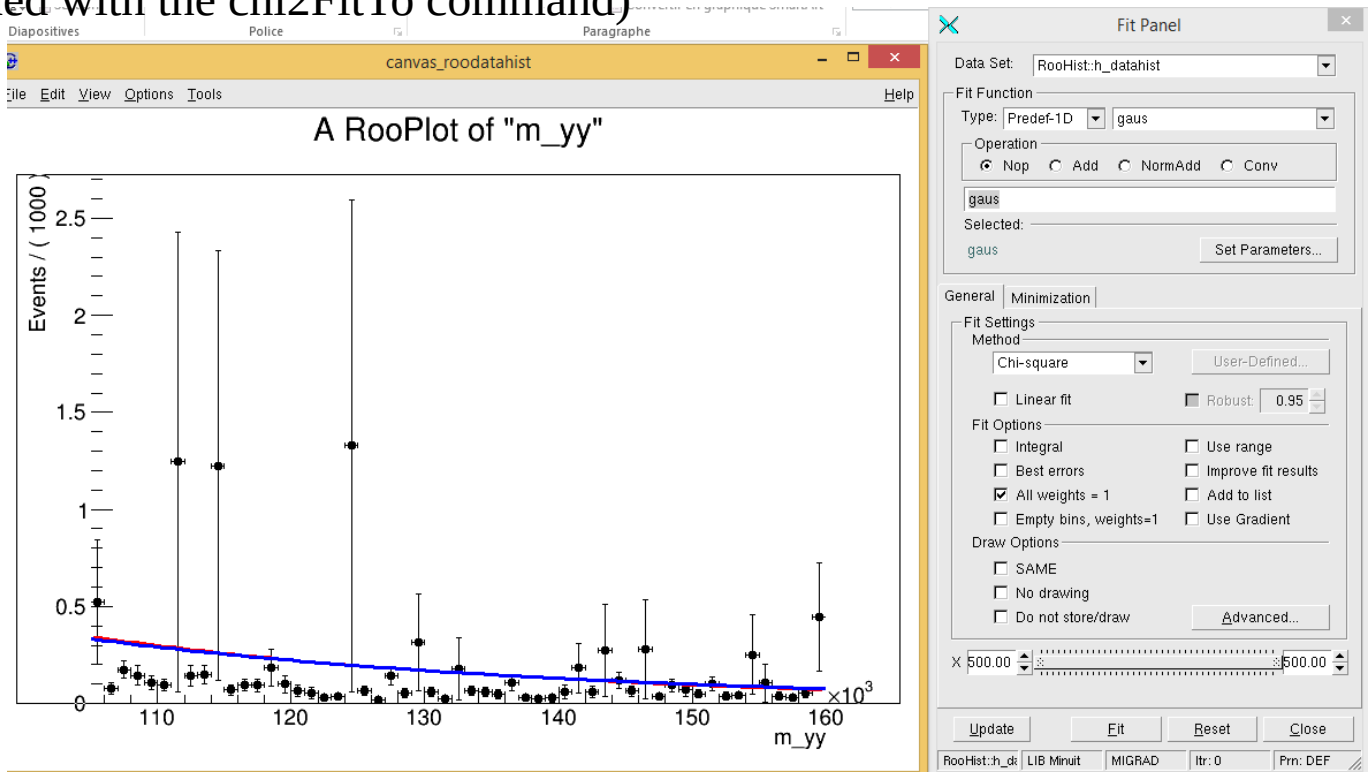


If we do a right button click on a point of the RooDataHist, in order to open a contextual window, and if we do a fit panel, and click on « Fit », the fit obtained looks to work. This is the red curve below :



So « somehow », there is the information that is stored somewhere that would « allow » to make the fit in a proper way.

If this time, we click on the option « All weights=1 », the fit looks to behave like what was obtained with the chi2FitTo fit from a RooDataHist, some somehow, it shows that indeed, it appears as if the chi2FitTo had ignored the errors
(see the red curve obtain when we click on « Fit », which is almost the same as the blue one obtained with the chi2FitTo command)



Remark : doing a chi2FitTo, so somehow, it means that it takes into account the error, but in a strange way since the slope is too high)

So the question is : how to make the chi2FitTo command to take into account the different errors as we would expect ? Thank you
(remark : if we change the error of the 3 high value points, the slope changes when