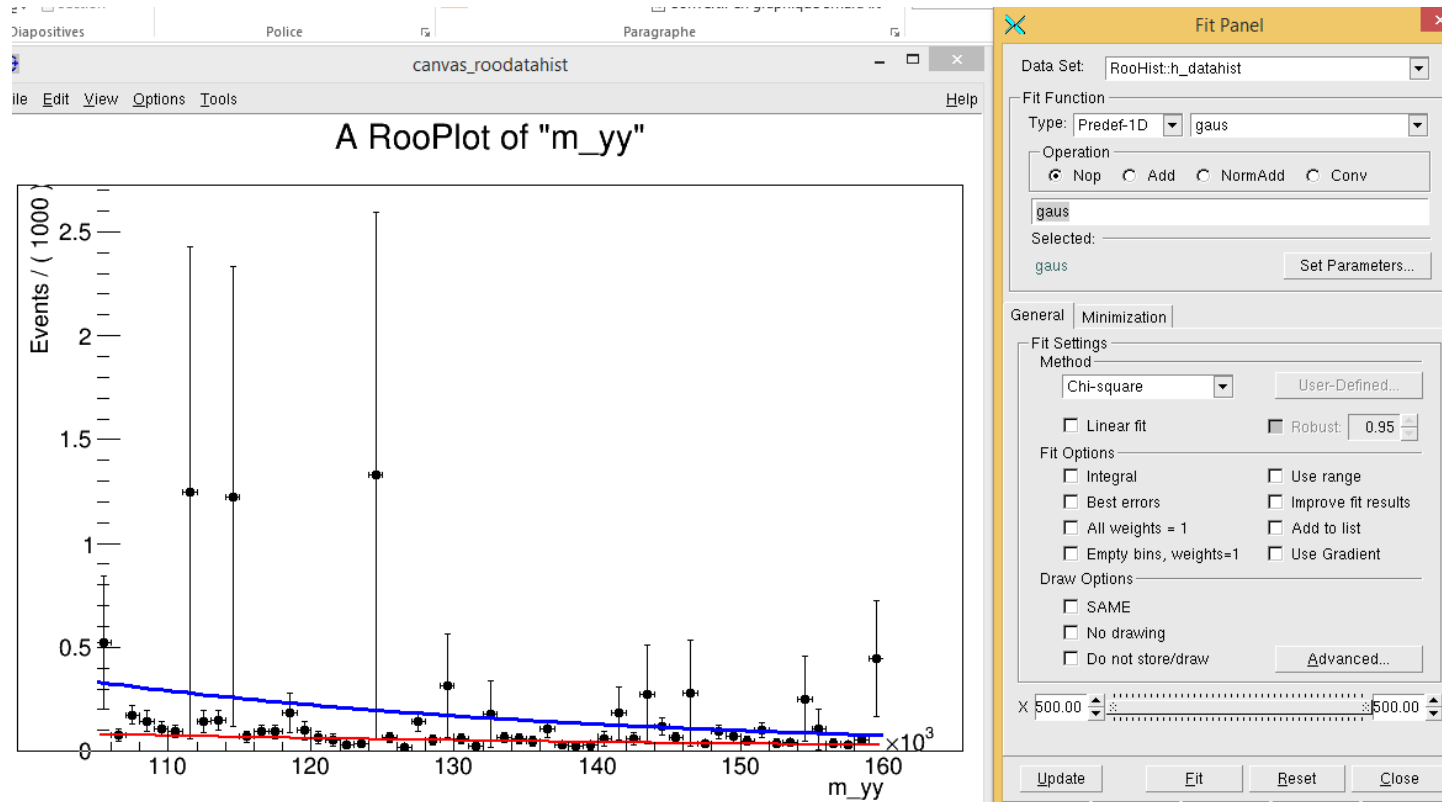If we do a right button click on a point of the RooDataHist, in order to open a contextual window, and if we do a fit panel, and click on « Fit », the fit obtained looks to work. This is the red curve below :

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