* The ‘logtitle’ and ‘logprint’ subroutine in ‘BMP\_print.f90’ file are responsible for writing to the log file concerning the weight optimization.
* When generating the resolution matrix with Topas2RMC, if different Q-grid is used, a slightly different shape will be generated as the result of normalization.
* Different weight scheme when combining the resolution effect from different banks does not matter that much as tested. Therefore, by default we will weight them by intensity from DCS file.
* When generating the resolution matrix, we need to allow the grid to be greater than the data grid. Then later on in RMCProfile, we need to truncate the resolution matrix to be sitting on the same grid as data.
* Get rid of the last input box concerning the Qmin separation (below which no resolution correction will be made).
* For Polaris data, Victor has a routine to determine how the different banks are combined to get the final S(Q). It turns out that the weight of different banks is constant within several separate Q-range. Victor’s approach is to generate the DCS file accordingly and put the constant weight in the original uncertainty column. So in RMCProfile, we need to impose option ‘1’ for the weight scheme to use that column for weighting resolution matrix of various banks.
* Currently, it seems that the DCS file should be necessarily with the same grid as data. In the future, we may want to get rid of this restriction.
* Change ‘weight\_optimization’ to ‘optimization’.