

Figure 5. (a) Examples of three different lognormal size distributions, each with a combination of μ and σ , corresponding to the black crosses lying on the red lines with minimum error of figure 4. The measured (b) MRX and (c) TMNS data (black lines) are shown together with the simulated signals for the distributions depicted in (a). Although the size distributions themselves are quite different, they give rise to similar MRX and TMNS signals in the ranges we are most sensitive to.

=> very difficult to determine right parameters

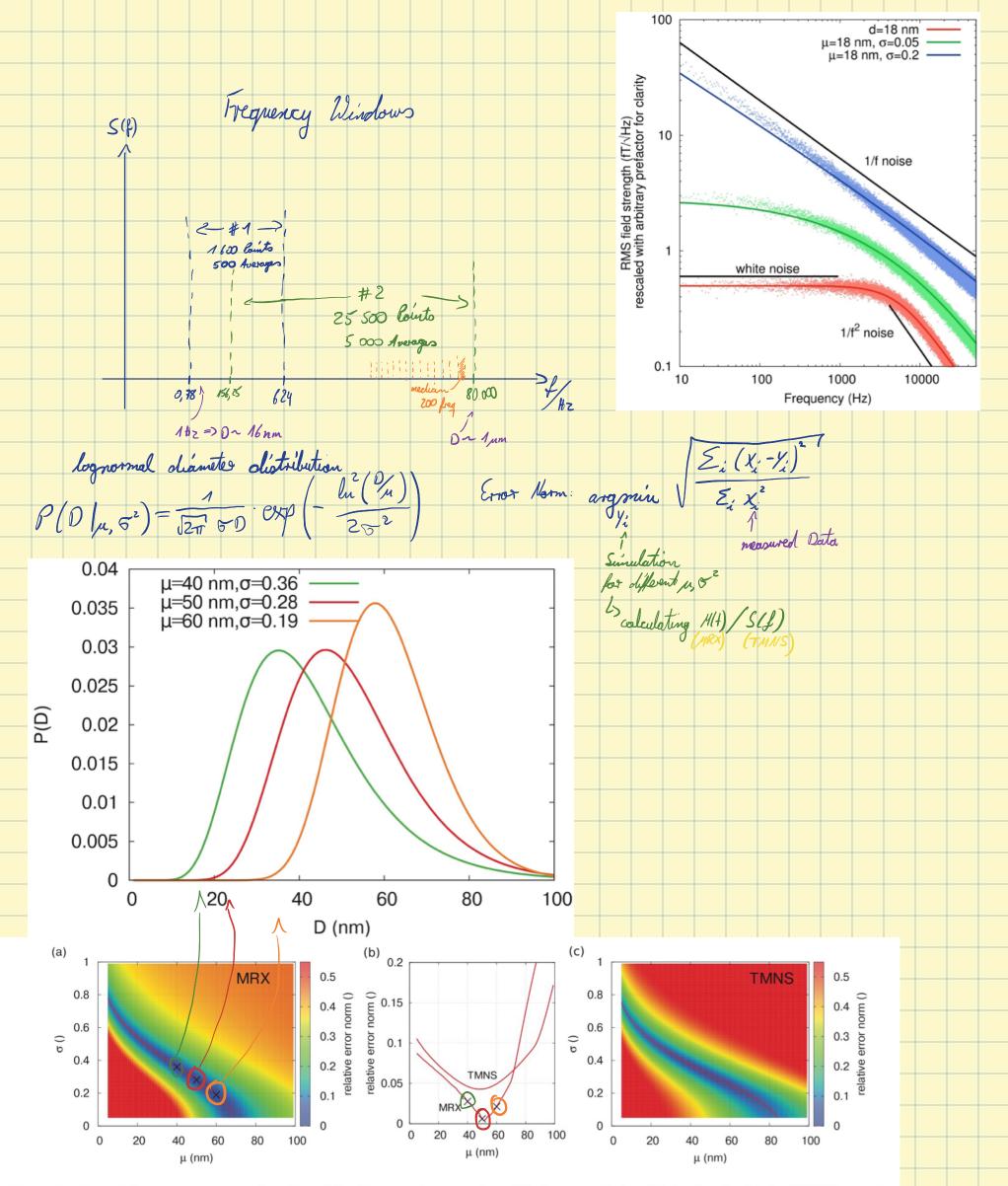


Figure 4. The relative error norm as a function of the fit parameters μ and σ of the lognormal size distribution for (a) the [CFHS] sample with $\eta = 32$ mPa s, measured by MRX and (c) the [CFHS] sample with $\eta = 12.2$ mPa s, measured by TMNS. (b) The relative error norm as a function of μ (for the optimal value of σ) along the red lines in the blue areas in (a) and (c). Both minima lie at the same place but the minimum is better defined in MRX than TMNS data.