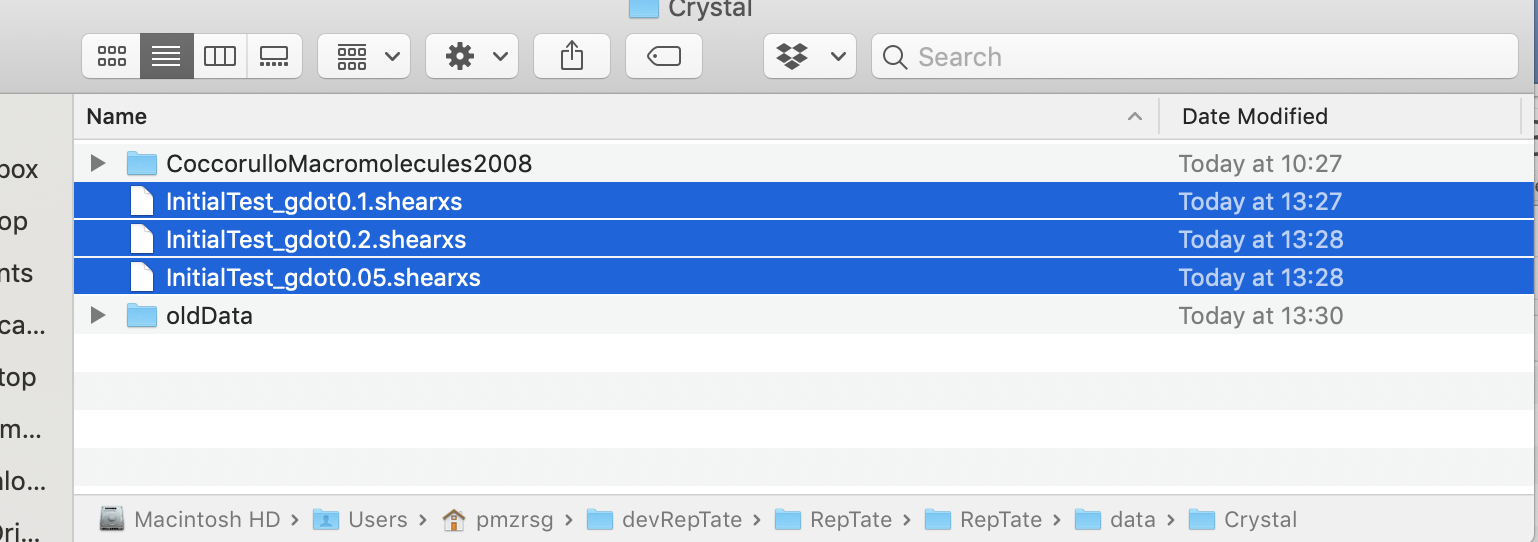
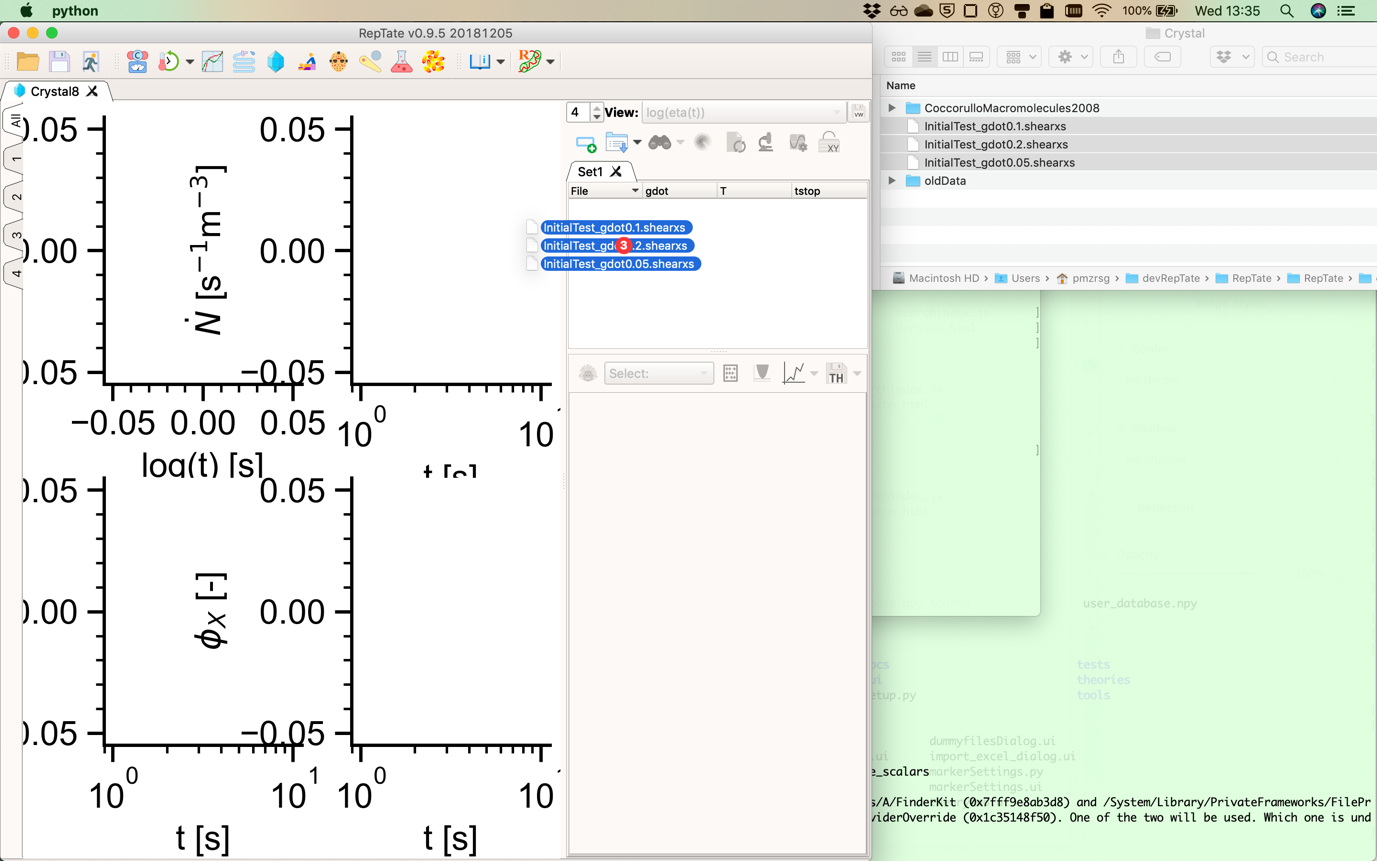
Crystal Application Tutorial: Initial calculations

# Load data

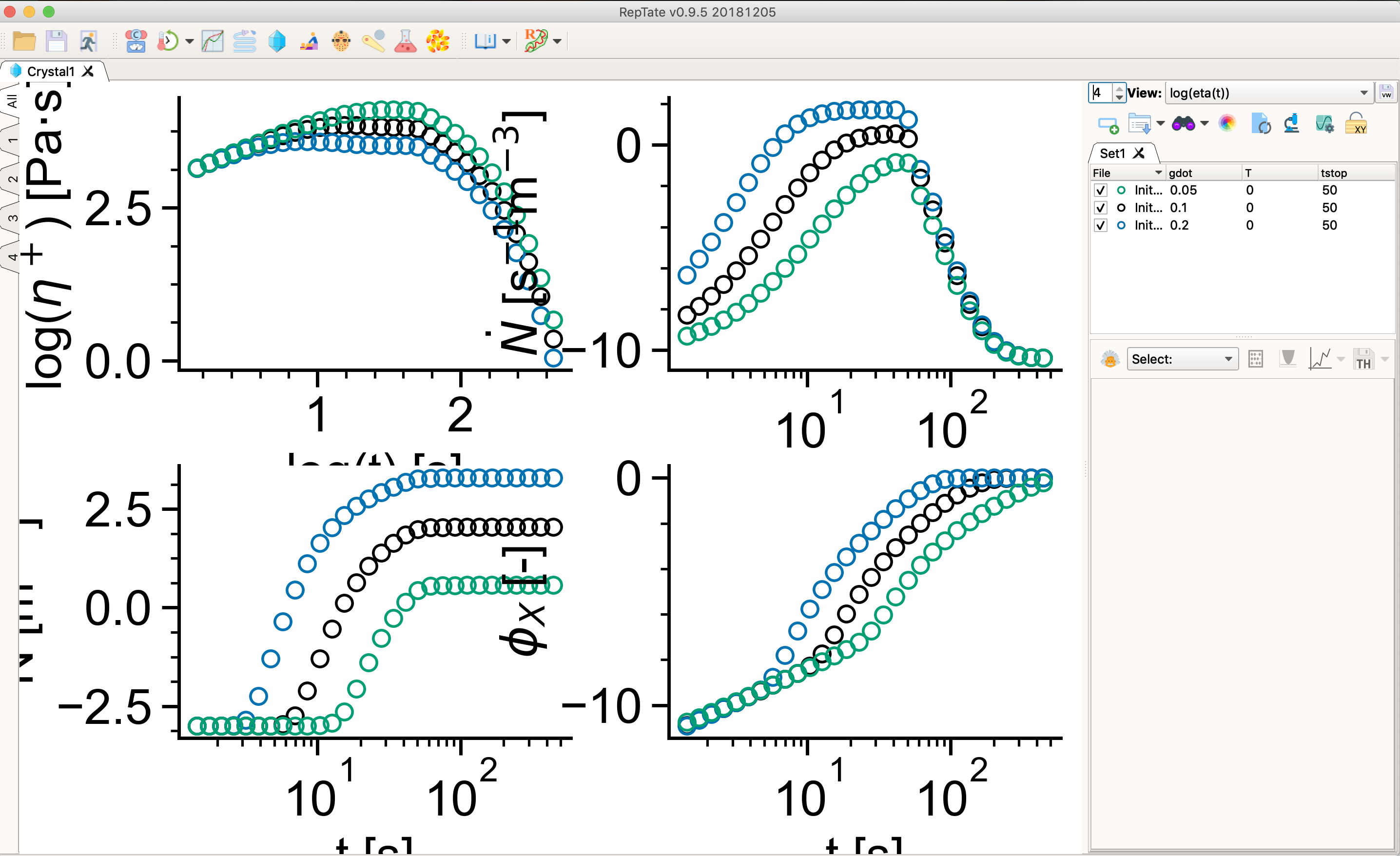
* Load the Crystal application (Click on the crystal application  on the top toolbar)
* Open the folder /RepTate/RepTate/data/Crystal/ and select the 3 files InitialTest\*\*\*.shearxs



* Drag and drop all files on to the Reptate window

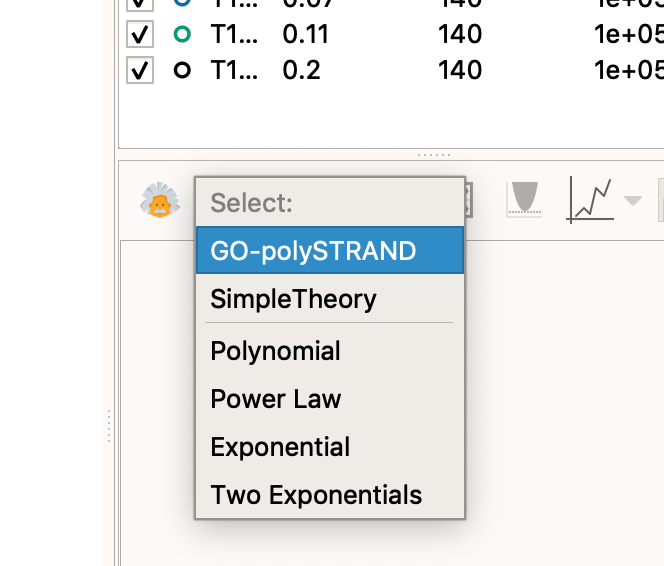


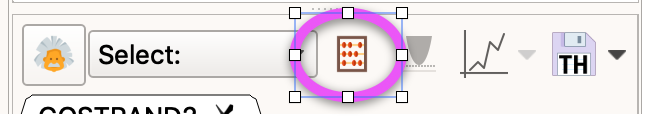
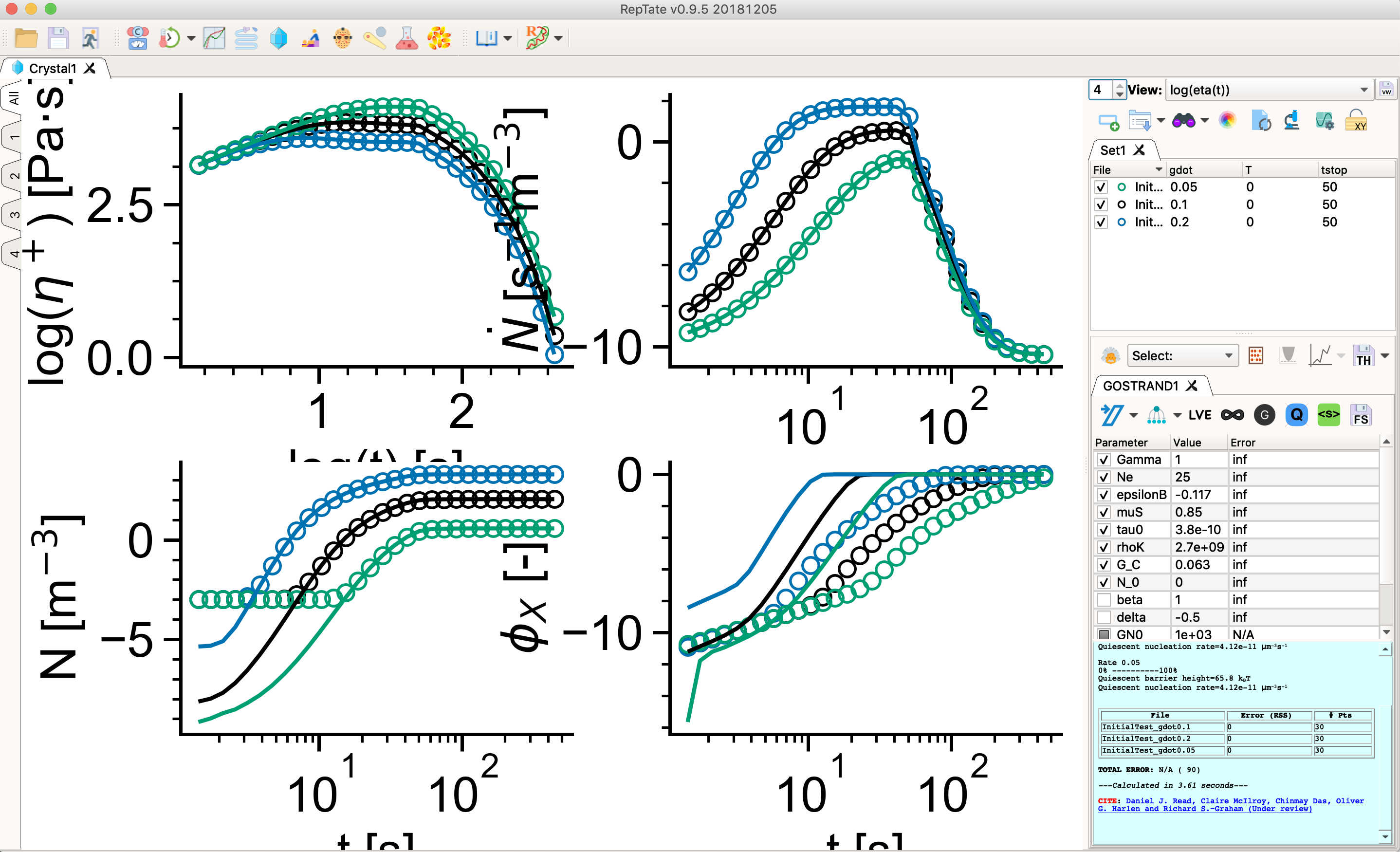
* You should now see

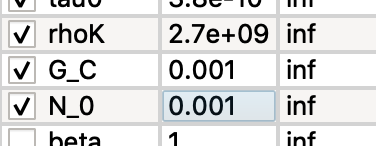


# Run the model

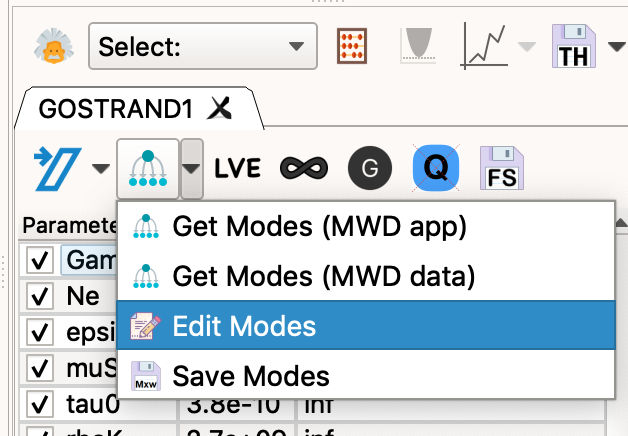
* Load GO-polyStrand model (choose the model from the drop down list and then click the theory icon ). The calculation should take about 4 seconds.



* The default parameters are fine for this calculation so click compute
* You should see 
* Set the both parameters G\_C and N\_0 1e-3 to produce full agreement for N and phi\_x.

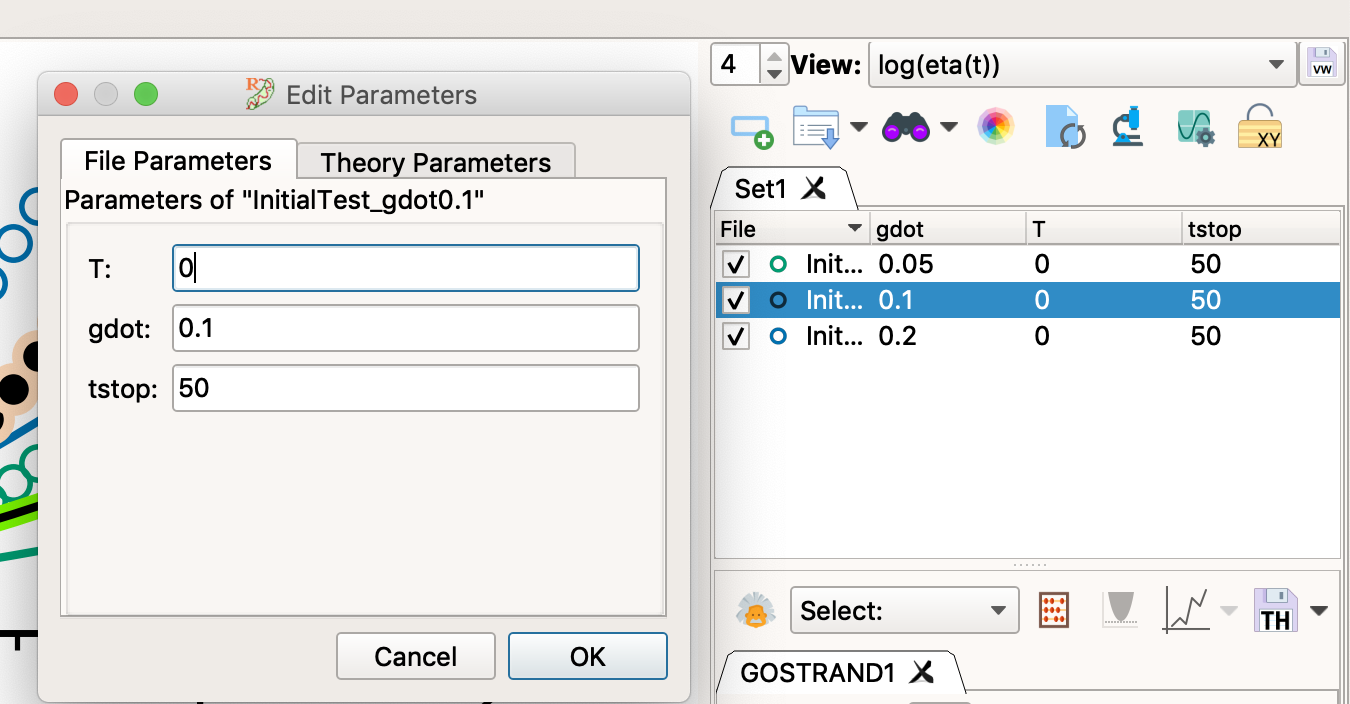


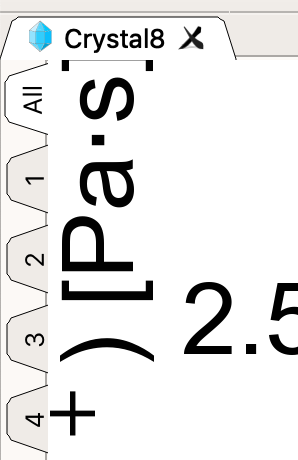
# Things to try

* Change Gamma to adjust the sensitivity to shear
* Make *small* changes to epsilonB to adjust the quiescent barrier (equivalent to changing temperature)
* Adjust tau0 to scale all nucleation rates
* Adjust G\_C to change the crystal growth rate
* Change the molecular weight distribution by clicking 

and changing the relaxation times, number of modes, and concentrations (this needs to add up to 1).

* Double click on a data set and change the shear rate (gdot) and shear end time (tstop) [T is temperature, which currently has no effect]



* Click the tabs on the left of the screen to make individual plots fill the window 
* Use the ‘View’ menu towards the upper right corner to choose different views.

