Bruker Avance 300 Instructions.

Safety:

The NMR lab is not a playground. There are certain rules to respect both for your own safety and for the instrument’s. Read the safety rules that are distributed with attention.

Follow the lab instructions to the letter.

Report any problem to your lab instructor or to Dr. Schneider.

Sample preparation:

- Clean your tube with acetone or ethanol.
- Do not heat your tube in ovens: this will bend the tube. Bent tubes can severely damage the probe.
- Dissolve your sample in deuterated solvent to an appropriate concentration.
- Filter your sample through glass wool to remove particles.
- Fill a clean, rinsed NMR tube with 700 µL of solution (4 cm).
- Using a permanent pen, write your username and if you want your sample code on the top part of the NMR tube.

Auto sampler

- Choose the first empty spinner available. Remember its position (slot number on the auto sampler).
- Place the spinner in the depth gauge.
- Clean your NMRtube with a KimWipe.
- Insert your tube in the spinner until it touches the bottom.
- Remove the spinner from the gauge. Be careful not to move or touch the sample.
- Place the spinner/sample back into its original slot. Remember that position!

ICON NMR

- Log in into ICON NMR. If the login window is not up, click on “change user” icon. Enter your password.
- In the upper part of the screen, choose the holder # corresponding to your sample’s position.
- Enter the name of your sample, the solvent and the type of experiment you want to run. You can also enter a title. If need be, adjust TD to fit your sample’s concentration requirement (not necessary for 1H).
- Select the sample holder line and click submit.
- Log out by clicking the change user icon.