HOW TO RUN A ROUTINE EXPERIMENT IN THE 400 MHz Neo

BEFORE START – VERY IMPORTANT!!!

1. Use ONLY FLAWLESS NMR tubes (without cracks on the top)

2. Clean your NMR tube (with a tissue impregnate with isoPrOH)

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3. Insert the sample into the magnet

   3.1. Place your sample in one empty holder of the autosampler (e.g. holder 6)

   3.2. Insert the sample into the magnet [>sx 6]

   3.3. Wait until the sample is recognized [in the BSMS screen, Sample Down ON]

4. Spin the sample (optional) [in the BSMS screen, SPIN ON]

5. Create a new data file [File/New or >edc]

6. Read some standard shims [>rsh and select “sermn.shim”]

7. Lock the sample [>lock and select the solvent]

8. Read parameter set of the experiment [>rpar sr* and select experiment]

9. Tune the probe [>atma and wait until finished]

10. Optimize shims [>topshim and wait until finished]

11. Change acquisition/processing parameters if needed [>ns ; >sw ; >o1p ; >td ...]

12. Determine receiver gain [>rga]

13. Start data acquisition [>zg]

14. Fourier transform FID [>ft / >xfb]

15. Apply automatic phase correction [>apk]

16. Apply baseline correction [>absn]

17. Stop the sample spinning (if spinning) [in the BSMS screen, SPIN OFF]

18. Take out the sample of the magnet [>sx ej]

To perform more than one experiment, repeat steps 5, 8, 9, 11, 12, 13 before step 17.

Important: every time you measure a new nucleus you must do “atma” (tune the probe) after reading the new parameter set.