

HOW TO RUN A ROUTINE EXPERIMENT IN THE 300 MHz nanoNeo

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 | [in the BSMS screen, LIFT ON/OFF] |
| 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 | [in the BSMS screen, LIFT ON/OFF] |

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.