# NOAH-Experiments (NMR by Ordered Acquisition using 1H detection)





#### Why use NOAH-Experiments in routine measurements?

- Shortening of spectrometer measurement time by half
- Sensitivity enhancement
- Nearly no phase correction necessary



#### What does the experiment name mean?

Abbreviations:

- B HMBC;
- S (Se, Sp) HSQC-DEPT;
- C (Cc) (Clip-) COSY;
- N NOESY;

Sc - Clip-HSQC

Example: NOAH3-BSpCc = HMBC + HSQC-DEPT + COSY

## Sample concentration?

15-20 mg/ 0.55 mL solvent (MW < 700 g/mol).

### How can I open the NMR spectra and extract single experiments?

Topspin:

- 1) Installation of the au program (only necessary once)
  - a. Download the actual au programs <u>here:</u> <u>https://upload.uni-jena.de/data/62fe2961dda498.38005427/AU\_NOAH.zip</u>)
  - b. Copy the folder content to the clipboard.
  - c. Paste in the folder <TS>/exp/stan/nmr/au/user. found in (windows):
    X:\Bruker\exp\TopSpin\stan\nmr\au\src\user found in (linux):
    /opt/Bruker/Topspin X.X/exp/stan/nmr/au/user
- 2) Open the NOAH experiment
- 3) Start the au program using by typing **splitx\_au** in the command line
- 4) The single 2D experiments are stored under EXPNO001, EXPNO002, EXPNO003,...

Example:

