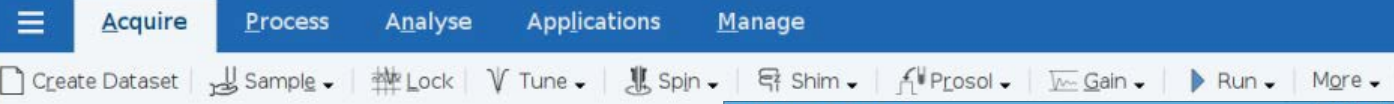


# AV500 – Topspin4 with autosampler

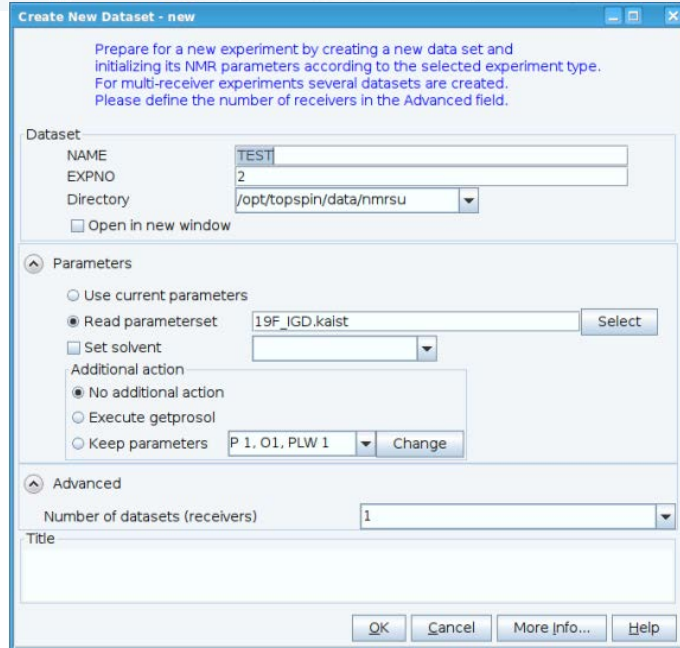


## • Login

- Click 'Not listed?' to login
- Type account and password
- Double-Click "Topspin" icon on Desktop

## • Create Dataset

- Click "Create Dataset" (edc or new)
- Modify "Name", "EXPNO"
- Parameters : Select experiment
  - "Use current parameters"
  - "Read parameterset ": Select experiment
    - proton.kaist :1H exp. Carbon.kaist : 13C exp
- Title : Comment



## • Acquisition

- "Sample" : insert sample with sample changer (sx) → type sampler holder number
- "Lock" : click proper solvent (lock)
- "Tune" : auto-adjust tune/match of nuclei (atma)
  - Can skip tune in case of 1H. Should click the others including 13C
- "Spin" : Do not Click (NMR tube can be broken)
- "Shim" : auto-adjust shim on Z(topshim). Type 'topshim tunebyxz tuneaz' on Z & XY
- "Prosol" : update proper parameters related to power (getprosol)
- Type parameter name and adjust manually (NS, D1, AQ, SW, O1P)
- "Gain" : auto-adjust receiver gain (rga)
- "Run" : Start acquisition(zg)
- Type below command to check spectrum during acquisition
  - tr : transfer FID from console to computer      efp : view 1D spectrum
  - apk : auto phase correction      absn : auto baseline correction
  - apbk auto correction both phase & baseline together by AI
- Type 'halt' to halt acquisition

## • Logout

- Double-Click Sample icon (bsmsdisp)
- Click LOCK → "On-Off" / Green color is off
- Click SAMPLE → LIFT (sx ej) → take out sample
- Click "X" icon on right-top corner of software to close topspin (exit)
- Click "Desktop" icon on right-top corner → Leave → log out

