## AVNEO400 – Topspin4 with autosampler

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Create Dataset	e •   ∰Lock   V	/ Tune 🗸 🛛 🏨 Spj	n ↓   🛱 Shim ↓   ഽ <sup>ll</sup> P <u>r</u> osol ↓   <u>J∞ G</u> ain ↓   🕨 Run ↓   M <u>o</u> re ↓		
<ul> <li>Login</li> <li>Click 'Not listed?' to login</li> <li>Type account and password</li> <li>Double-Click "Topspin" icon on Desktop</li> </ul>			Create New Dataset - new       Image: Create New Dataset - new         Prepare for a new experiment by creating a new data set and initializing its NMR parameters according to the selected experiment type. For multi-receiver experiments several datasets are created. Please define the number of receivers in the Advanced field.         Dataset       Image: Create NAME         NAME       TEST         EXPNO       2         Directory       /opt/topspin/data/nmrsu		
<ul> <li>Create Dataset</li> <li>Click "Create D</li> <li>Modify "Name</li> <li>Parameters : So</li> <li>"Use curren</li> <li>"Read parar</li> </ul>	Pataset" (edc or ", "EXPNO" elect experimen t parameters" neterset ": Select ex	new) nt	Open in new window      Parameters     Use current parameters     Read parameterset     19F_IGD.kaist     Set solvent     Additional action     No additional action     Execute getprosol     Keep parameters     P 1. 01. PLW 1     Change		
<ul> <li>Title : Commer</li> <li>Acquisition</li> </ul>	n.kaist :1H exp. Carbon.	kaist : 13C exp	Advanced  Number of datasets (receivers)  Title  QK  Cancel  More Info  Help		

- "Sample" : insert sample with sample changer (sx)  $\rightarrow$  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 tunebxyz tuneaz' on Z & XY

Sample

1∦7?

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

Main Lock/Le	vel Shim Au	toshim Service	Log Help	
AUTO				
Lock	Phase	Power	Gain	Shim
LOCK			10	
On-Off	Phase	Power	Gain	
SAMPLE				
LIFT	SPIN	Measure	Rate	Lock Los

Desktop