

Feb 24, 2022

## **COSY NMR at AM400 (AV III HD 400 NanoBay)**

### **Procedure:**

Open Topspin 3.6.1

### **run H-1 NMR prior to COSY NMR (Ah1)**

#### **run COSY NMR**

1. find (**o1p**) and (**sw**) from 1H NMR spectrum
2. run (**pulsecal**) on 1H NMR dataset
3. create dataset: name; exp #; pro #; solvent; directory (D:\Chem471\user last name\yrmo)
4. (**rpar A2d\***) (select A2d\_COSYGPMFPHPP)
5. prosol (**getprosol**)
6. input (**o1p**), (**sw**), (**p1**), (**ns**), (**ds**), (**d1**), (**TD**) into COSY dataset
7. run (**rga**) to obtain rg value
8. no eject sample/no insert sample
9. no lock
10. no spinning
11. no shim
12. go (**zg**)
13. (**xfb**): processing
14. internal/external projection
15. adjust phase if necessary
16. calibrate spectrum
17. eject sample (**ej**); take sample; (**ij**) to turn off air
18. close topspin
19. log off
20. **put cap back on magnet**