

2002 NMR Training Course

Basic Operation for Bruker AV System

NMR Core Facility, Academia Sinica

Time: 12/23 -12/24, 2002

Place: B1B Lecture Room, IBMS, Academia Sinica, Taipei

12/23 (Monday)

Course

10:00-11:00 Basic NMR Concepts and Experiments set up for 1D/homo nuclear 2D
by Chi-Fon Chang

11:00-12:00 Basic Data processing for 1D/2D using xwinmr (a little xwinplot)
by Yong-Li Pan

Lab: 1D and homo nuclear 2D

- 1:00- Hands On (users can bring their own samples for practice)
- Hardware connection (change probe)
 - Wobble (one or two channels)
 - Shimming (gradient shim)
 - Data Collection (optimizing condition, ex: 90 deg pulses)
 - Data Transfer

12/24 (Tuesday)

Course

10:00-11:00 Experiments set up for hetero nuclear 2D/3D (optimizing conditions)
by Chi-Fon Chang

11:00-12:00 Basic Data processing for 3D using xwinmr (a little Sparky analysis)
by Tsun-Ai Yu

Lab: hetero nuclear 2D/3D

- 1:00- Hands on (users can bring their own ¹⁵N or ¹³C/¹⁵N samples for practice)
- Hardware connection (change probe)
 - Wobble (two or more channels)
 - Shimming (gradient shim)
 - Data Collection (optimizing condition)
 - Data Transfer