

Fundamentals of Structural Characterization by NMR

Instructor: David J. Russell, Varian

Course Outline

The NMR experiment – background and foundations

Interpreting 1D proton NMR

One-bond Heteronuclear coupling – the HSQC experiments

Homonuclear coupling – the COSY and TOCSY experiments

Long-Range Heteronuclear coupling – the HMBC-type experiments

Using long-range ^{15}N NMR in small molecule problems

Dipolar relaxation studies – the NOE experiments

Band selective experiments