



NMR Facility

Description

The Facility houses a 400 MHz FT-NMR equipped with a dual thermostated $^1\text{H}/^{13}\text{C}$ gradient probe and a Fourier 80 benchtop cryogen-free NMR. The facility supports the full range of chemical sciences research across the department and university including synthetic organic and inorganic chemistry, supramolecular chemistry, biochemistry, etc.

Applications

The Facility allows users to perform characterization and identification of organic and organometallic compounds (both pure compounds and mixtures) and can be used also for quantitative and qualitative analysis of complex mixtures. The instrument allows the Bidimensional spectra (NOESY, COSY, TOCSY, HMBC, HSQC, etc) that can be recorded in a few minutes.

Location: Room NMR Ed. A 00190 -1 051

Facility manager: Rossano Chinchio

Staff:

Rossano Chinchio
Sara Bersani

Contacts

Phone, e-mail: 049827 rossano.chincho@unipd.it
9:00 a.m. - 5:00 p.m. Monday-Friday

Scientific supervisor: Prof. Stefano Dall'Acqua

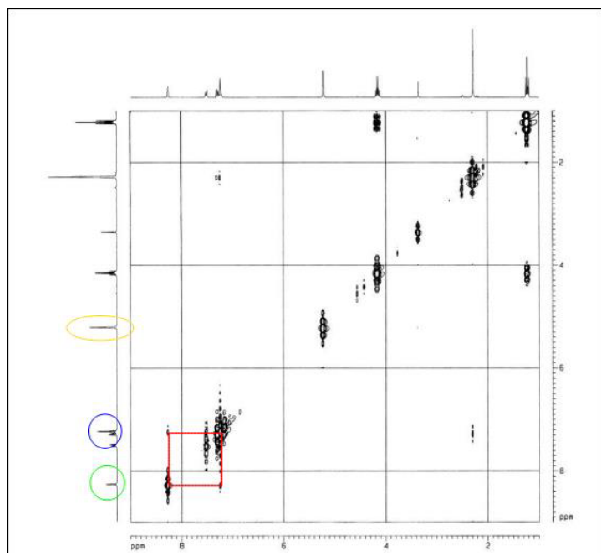
Scientific Committee: Stefano Dall'Acqua, Giovanni Marzaro, Mattia Sturlese, Gianfranco Pasut

How to book

The users have to read carefully the "[Regolamento NMR rev.1](#)" before booking on page <http://147.162.61.199/strumenti2/day.php>

Equipment

400 MHz FT-NMR equipped with dual thermostated $^1\text{H}/^{13}\text{C}$ gradient probe. The instrument allows the characterization and identification of organic and organometallic compounds (both pure compounds and mixtures). Bidimensional spectra (NOESY, COSY, TOCSY, HMBC, HSQC, etc) can be recorded in few minutes.



Fourier 80

The Fourier, an 80 MHz high-performance nuclear magnetic resonance (NMR) benchtop spectrometer designed for the routine laboratory. With a cryogen-free magnet design, the Fourier makes NMR accessible in the lab where users and operators work.

Easy to Use: The Fourier features GoScan™, a newly developed modern interface which guides users through pre-defined, dedicated workflows.

Pulsed field gradients, an automatic sample changer, and adjustable temperature all provide higher sample throughput, optimized synthesis, and process control.

