

# Enllaços sobre espectroscòpia de rmn

## Cursos on-line

- [e-MRI](#), Magnetic Resonance Imaging physics and technique course on the web.
- [ENC - Experimental Nuclear Magnetic Resonance Conference](#) contains PDF files of all Tutorial Lectures starting 2006.
- [Chem 605 - Structure Determination Using Spectroscopic Methods](#). Instructor: Hans J. Reich, Department of Chemistry, University of Wisconsin, Madison.
- [Advanced NMR A course on 2D NMR and the product operator formalism](#). Professor Gerd Gemmecker, 1999
- [Basics of NMR Physics and Technique of NMR Spectroscopy](#). Joseph P. Hornak, Rochester Institute of Technology
- [The Basics of MRI](#). Joseph P. Hornak, Rochester Institute of Technology

## Wikibooks

- [Basic Physics of Nuclear Medicine](#) ( [Versió imprimible](#) )

## Llocs wiki

- [NMR Wiki](#), is an open non-profit online NMR project (started on Nov 8th 2007). The goal of this site is to provide a collaborative informational resource to Spectroscopists, Chemists, Biologists and others using magnetic resonance techniques.
- [SeRMN wiki](#), el **nostre** wiki 😊 per tot allò que afecta al funcionament del SeRMN.

## Blogs on NMR

(Per ordre alfabètic del cognom de l'autor)

- [Carlos Cobas' Blog](#), un dels autors inicials del programa Mestre-C (actualment [Mnova](#)) i fundador de la companyia [Mestrelab Research SL](#). El blog està dedicat principalment al processament i interpretació dels espectres de rmn.
- [Glen Facey's Blog](#), del servei de rmn de la Universitat d'Ottawa. Tracta aspectes instrumentals, i com que tenen espectròmetres Bruker ens podem aprofitar.
- [Solid-State NMR Literature Blog](#) pel grup d'en Rob Schurko a la University of Windsor.
- [Ryan's Blog on NMR Software](#), a [ACD/Labs](#). Especialitzat en l'aplicació dels espectres de rmn a l'elucidació estructural i identificació dels components de mesclures complexes.
- [Stan's NMR Blog](#), tracta una mica de tot: la història de la rmn, les persones que la van protagonitzar, els fonaments químic-físics de la rmn, etcètera.

# Calculadores on-line

## Per RMN

- [Calculators for NMR experiments](#): pulse length/power level, pulse length/field strength (**només per protó**), coupling constant/delay time, NMR Temperature measurements.
- [NMR and MRI related tools and short programs](#)

## Ús general

- [UnitConversion.org](http://UnitConversion.org) is the ultimate resource for unit conversion. Use our free online unit converters to easily convert between different units of measurement. Simply select the appropriate unit converter from the lists below.

# Basses de dades de desplaçaments químics

## Solvents residuals

- [The Solvent Chemical Shift Finder](#). The solvent chemical shift finder is an experimental database of over 100 different solvents and reagents which might appear in an NMR spectrum. For further details consult the references,
  - I. C. Jones, G. J. Sharman, J. Pidgeon. Spectral Assignments and Reference Data. 1-H and 13-C NMR data to aid the identification and quantification of residual solvents by NMR spectroscopy [Magn. Reson. Chem., 2005, 43, 497-509](#).
  - H. E. Gottlieb, V. Kotlyar, A. Nudelman. NMR Chemical Shifts of Common Laboratory Solvents as Trace Impurities [J. Org. Chem., 1997, 62, 7512-7515](#).

## Compostos orgànics

- [nmrshiftdb2](#) is a NMR database (web database) for organic structures and their nuclear magnetic resonance (nmr) spectra. It allows for spectrum prediction (13C, 1H and other nuclei) as well as for searching spectra, structures and other properties. Last not least, it features peer-reviewed submission of datasets by its users. The nmrshiftdb2 software is open source, the data is published under an open content license. Please consult the documentation for more detailed information. nmrshiftdb2 is the continuation of the NMRShiftDB project with additional data and bugfixes and changes in the software.
- [NMRdb](#) is a web-based approach implementing a new java applet that enables to assign a chemical structure to the corresponding NMR spectrum by simply drawing lines between atoms and automatically characterized signals. Includes: [NMR Simulator](#), [NMR Resurrector](#), [NMR Assigner](#) and [NMR Predictor](#).
- [Spectral Database for Organic Compounds \(SDBS\)](#) is an integrated spectral database system for organic compounds, which includes 6 different types of spectra under a directory of the compounds. The six spectra are as follows, an electron impact Mass spectrum (EI-MS), a Fourier transform infrared spectrum (FT-IR), a 1H nuclear magnetic resonance (NMR) spectrum, a 13C NMR spectrum, a laser Raman spectrum, and an electron spin resonance (ESR) spectrum.
- [Spektroskopische Tools/Spectroscopic Tools](#)

- [CSEARCH NMR Database](#)
  - [NMR misinterpretation](#). Basic Misinterpretations, Typos and other Sad Events in NMR-Spectroscopy. **What is presented on this page?** This page holds examples of strange interpretation of NMR-data, either caused by missing basic knowledge about this method or caused by typos or caused by any other reason. **What is intended with this page?** The sole intention of this page is to promote massive application of computer programs to verify structural and spectral data. In NMR-Spectroscopy we are in the lucky situation, that we have already algorithms available which allow us to check our analytical data in a(n) (semi-)automatic way. Routine application of these programs would increase the quality of the chemical literature in an easy and efficient manner.
- [NMRPREDICT-Server](#). És un cul de sac sobre bases de dades i programes de predicció d'espectres de  $^{13}\text{C}$ . Per exemple,
  - [Spectral Similarity Search](#), entra els desplaçaments químics dels teus pics a l'espectre de  $^{13}\text{C}$  i et trobarà estructures amb espectres semblants.
  - Aquest enllaç està estretament relacionat amb el programa [comercial](#) del mateix nom [NMRPredict](#)

## Metabolòmica

- [NMR Search @ the Human Metabolome Database](#)
- [BioMagResBank - Metabolomics Standard Compounds](#)
- [Metabolite NMR Search a la Human Metabolome Database](#)

## Taules de desplaçaments químics

- [Proton chemical shifts](#)
- [Carbon chemical shifts](#)

## Taules periòdiques

- [WebElements NMR Periodic Table](#)
- [Enhanced NMR Periodic Table](#) at Texas A&M University.
- [NMR Periodic Table](#) at Rider University.
- [NMR Periodic Table](#) at Hebrew University.

## Fonaments de la rmn

- [Espectroscòpia de rmn a la Wikipedia](#).
  - [Corrent d'anell aromàtic](#)
  - [Desplaçament químic](#)
  - [Susceptibilitat magnètica](#)
- Notes dels cursos impartits pel [Dr. Oliver Zerbe](#) de l'ETH Zurich.
  - [Lecture Course: NMR Spectroscopy](#). (fitxer PDF, 142 pàgines)
  - [Practical NMR course \(March 2006\)](#). Disponible també en format [per imprimir](#) , on s'ha eliminat el fons de les diapositives. (fitxers PDF, 111 diapositives)

- [Script for the "NMR / Protein Structure" course](#). (fitxer PDF, 27 pàgines)
- [Slides for the structure/dynamics/folding course section](#). (fitxer PDF, 165 diapositives)
- Notes dels cursos impartits pel [Dr. Arthur S. Edison](#), Associate Professor, University of Florida
  - [Molecular Structure and Dynamics by NMR Spectroscopy](#) (BCH 6745 and BCH 6745L)

## Programari d'interés

- [rNMR](#) is an open source software package for visualizing and interpreting one and two dimensional NMR data. In contrast to most existing 2D NMR software, rNMR is specifically designed for high-throughput assignment and quantification of small molecules. As a result, rNMR supports extensive batch manipulation of plotting parameters and has numerous tools for expediting repetitive resonance assignment and quantification tasks.
- [SPINUS \(Structure-based Predictions In NUClear magnetic resonance Spectroscopy\)](#) is an on-going project for the development of structure-based tools for fast prediction of NMR spectra. SPINUS - WEB currently accepts molecular structures via a Java molecular editor, and estimates <sup>1</sup>H NMR chemical shifts and coupling constants. The predictions are obtained from ensembles of previously trained feed-forward neural networks, and corrected with data from an additional memory.
- [PLT for Windows](#). PLT is a program for drawing chemical structures and creating hard copy on printers and other Windows-supported output devices.
- [AcornNMR Periodic Table](#). This is an Excel spreadsheet which calculates resonant frequencies for all magnetically active nuclei. Just enter your proton frequency (in cell B5) and all others are calculated from it.

## Altres llocs web d'interés

- [Print Free Graph Paper](#). Save yourself money and a trip to the store! Print graph paper free from your computer. All graph paper files are optimized PDF documents requiring Adobe Reader for viewing. Available formats: Cartesian, Engineering, Polar, Isometric, Logarithmic, Hexagonal, Probability, and Smith; in Letter or Din a4 paper size; in inches or millimeters measuring units, and several chart spacing.
- [Martindales Center](#) conté un munt d'enllaços d'interès per RMN i MRI, però no he tingut temps de comprovar la seva vàlua i utilitat.
- [Organic Chemistry Portal](#). The Organic Chemistry Portal offers an overview of recent topics, interesting reactions, and information on important chemicals for organic chemists.
- [OSIRIS Property Explorer](#). The OSIRIS Property Explorer is an integral part of Actelion's inhouse substance registration system. It lets you draw chemical structures and calculates on-the-fly various drug-relevant properties whenever a structure is valid. Prediction results are valued and colour coded. Properties with high risks of undesired effects like mutagenicity or a poor intestinal absorption are shown in red. Whereas a green color indicates drug-conform behaviour.

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