

Across

1. Transferred echo double resonance
4. American physicist, most known for his work on spin polarization transfer
8. Pseudocontact shift
9. Its values depends on the acidity of a solution
10. Chemical element discovered by Wollastone (symbol)
12. A decoupling sequence but also a dance
14. Iodine for French people
16. Before Christ
17. The basic unit of information in computing and digital communications
18. The difference between the rotating frame frequency and the Larmor frequency
22. A 2D homonuclear correlation experiment
23. Rotating frame Overhauser effect
24. An NMR technique that is widely used in medicine
26. One of the fundamental techniques in solid state NMR
28. Its values is 54.7 °
30. Electron spray ionization
31. He developed the general theory of relativity (initials)
32. You have to type it in Topspin if you need to reboot the console
33. It is a type of junction in semiconductors
34. A Disney character but also a family of decoupling sequences
37. ¹⁴N spin number value
39. Actinium
40. An EPR technique used to probe the environment surrounding paramagnetic centers
42. Increment
44. X-ray technique often used to refine protein structure
45. Without it we would not be paid

Down

1. An acquisition mode for multidimensional experiments
2. She was a nymph in Greek mythology but it is also used in NMR experiments
3. Dummy scans
4. Osmium
5. A heteronuclear correlation experiment
6. They are two in an AX system
7. NMR for French people
11. NMR experiment that gives correlations between carbons and protons that are separated by two, three, or more bonds.

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| T | E | D | O | R | | O | V | E | R | H | A | U | S | E | R | |
| P | C | S | | | | S | | | | E | | | P | | M | |
| P | H | | | R | H | | W | A | L | T | Z | | I | | N | |
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| | | O | | | B | I | T | | | O | F | F | S | E | T | |
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12. A technique to suppress water signal
13. A growth medium
15. Disk Operating System
19. A French mathematician, very important ... to process NMR data!
20. Iron
21. A command line you type in Topspin to edit acquisition spectrometer parameters
22. It uses a train of n pulses to refocus inhomogeneous broadening of the nuclear spins
24. Manganese
25. Isoleucine
26. Methyl group (abbreviation)
27. A window function for apodization
29. The cgs unit of measurement of the magnetic field
32. A type of steel particularly resistant to corrosion
35. One of the pioneers in protein NMR
36. Carbonyl sulfide (formula)
37. You monitor its value at 600 nm when you are growing bacterial cultures
38. You have to type it when you turn on your mobile phone
41. North - East
43. Nanomolar