

# Recollections of NMR at TESLA Brno

by Ing. *Vladimír Zeman*

(so far only in Czech language)

[www.ebyte.it/library/Library.html#nmr](http://www.ebyte.it/library/Library.html#nmr)

or [dx.doi.org/10.3247/sl2nmr08.001](https://doi.org/10.3247/sl2nmr08.001)



Presented at 23rd **Valtice NMR** 2008, April 20-23, Valtice, Czech Republic

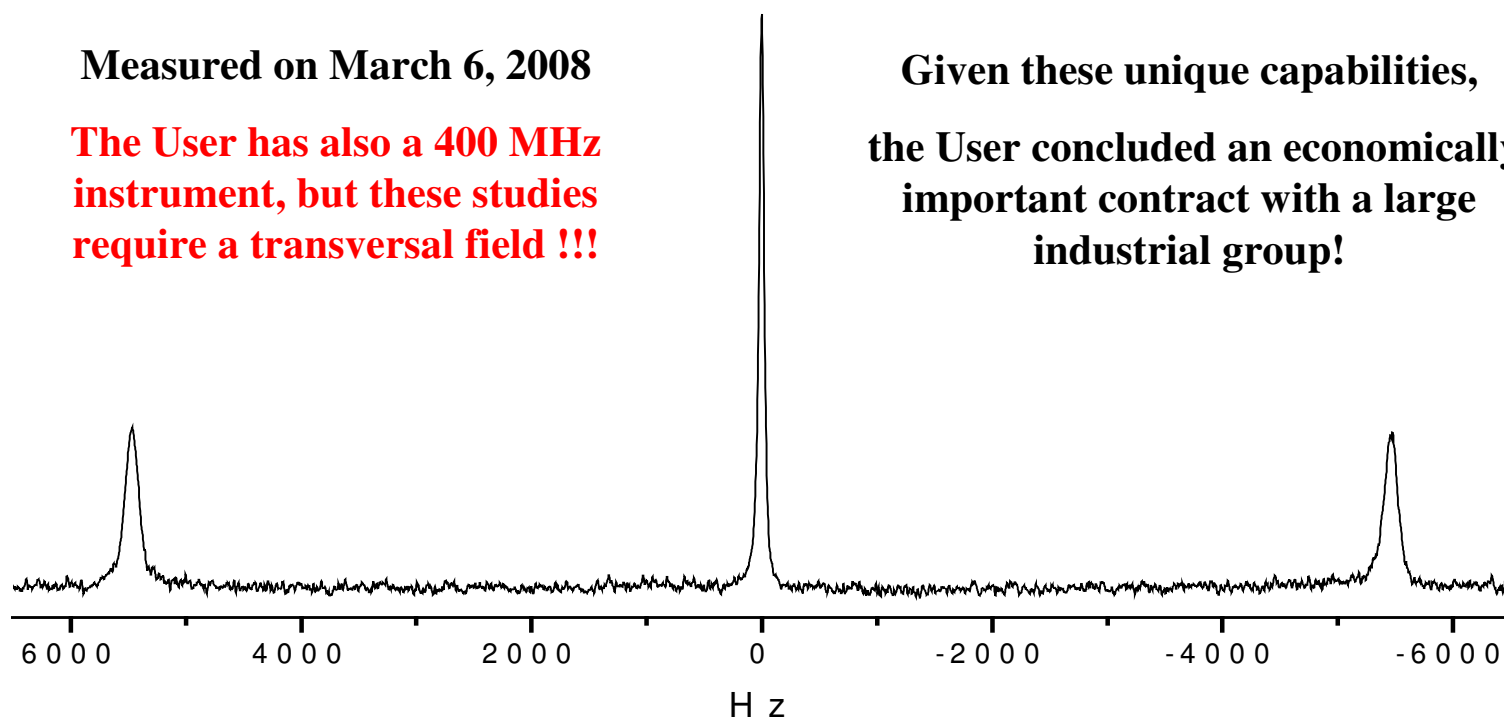
# TESLA 587A at Univerity of Bari, south Italy

## $^{23}\text{Na}$ spectrum in a strongly oriented nematic system

Measured on March 6, 2008

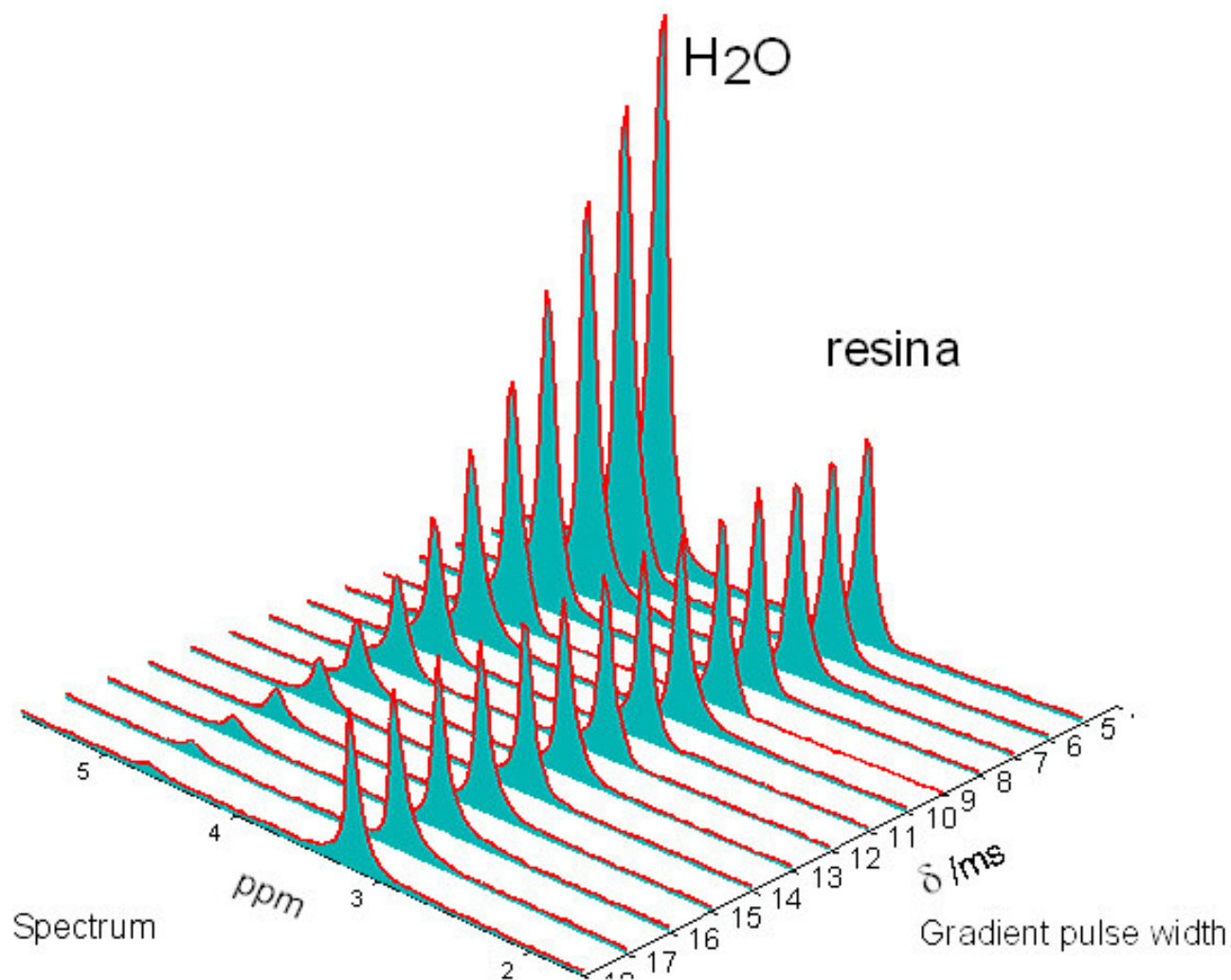
**The User has also a 400 MHz instrument, but these studies require a transversal field !!!**

Given these unique capabilities, the User concluded an economically important contract with a large industrial group!



# TESLA 587A

with STELAR AutoDif accessory and external lock:  
a valid educational tool ...



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# TESLA 587A + STELAR AutoDif accessory: still a valid scientific tool

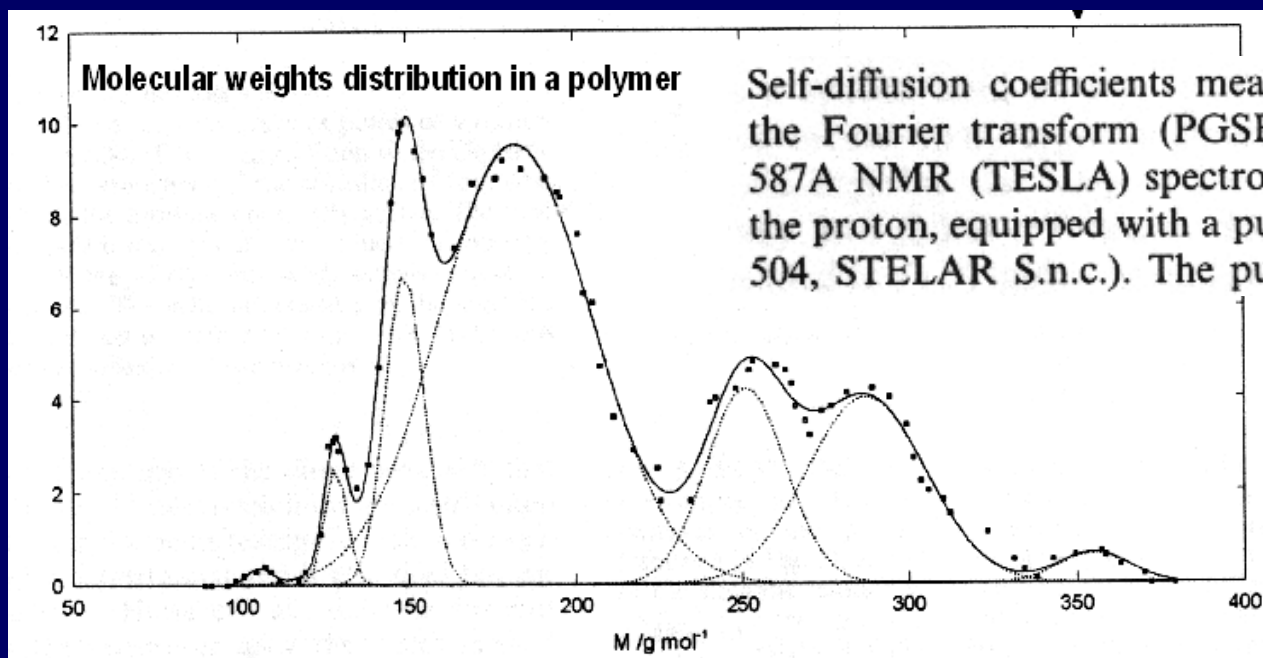
POCP

Resolving complex mixtures by means of pulsed gradient spin-echo  
NMR experiments

Luigi Ambrosone,<sup>\*a</sup> Andrea Ceglie,<sup>a</sup> Giuseppe Colafemmina<sup>ab</sup> and Gerardo Palazzo<sup>ab</sup>

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# TESLA 587A + STELAR AutoDif accessory: tens of scientific papers which could not be done otherwise!

**F. Venditti, R. Angelico, G. Palazzo, G. Colafemmina, A. Ceglie, F. Lopez**

Preparation of nanosize silica in reverse micelles: Ethanol produced during TEOS hydrolysis affects the microemulsion structure  
*Langmuir* **2007**, *23*, 10063-10068

**G. Colafemmina, D. Fiorentino, A. Ceglie, E. Carretti, E. Fratini, L. Dei, P. Baglioni, G. Palazzo**

SDS micelles with propylene carbonate as cosolvent: a PGSE-NMR and SAXS study  
*J. Phys.Chem. B* **2007**, *111*, 7184-7193

**F. Venditti, A. Ceglie, G. Palazzo, G.; Colafemmina, F. Lopez,**

Removal of chromate from water by a new CTAB-silica gelatin composite  
*J. Colloid Interface Sci* **2007**, *310*, 353-361.

**G. Palazzo, D. Fiorentino, G. Colafemmina, A. Ceglie, E. Carretti, L. Dei, P. Baglioni.**

Nanostructured fluids based on propylene carbonate/water mixtures  
*Langmuir* **2005**, *21*: 6717-6725

**F. Lopez, F. Venditti, L. Ambrosone, G. Colafemmina, A. Ceglie, G. Palazzo**

Gelatin microemulsion-based gels with the cationic surfactant cetyltrimethylammonium bromide: a self-diffusion and conductivity study  
*Langmuir* **2004**, *20*, 9449-9452

**F. Lopez, G. Cinelli, L. Ambrosone, G. Colafemmina, A. Ceglie, G. Palazzo**

Role of the cosurfactant in water-in-oil microemulsion: Interfacial properties tune the enzymatic activity of lipase  
*Colloid Surf. A*, **2004**, *237*, 49-59

**G. Palazzo, L. Carbone, G. Colafemmina, R. Angelico, A. Ceglie, M. Giustini**

The role of the cosurfactant in the CTAB/water/*n*-pentanol/*n*-hexane system: Pentanol effect on the phase equilibria and mesophases structure  
*Phys.Chem. Chem. Phys.* **2004**, *6*, 1423 - 1429

ETC

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