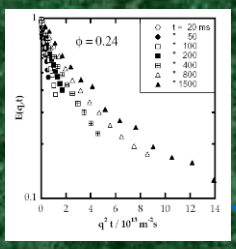
GIDRM

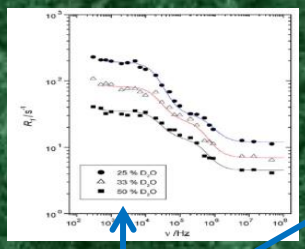
Gruppo Italiano Discussione Risonanze Magnetiche

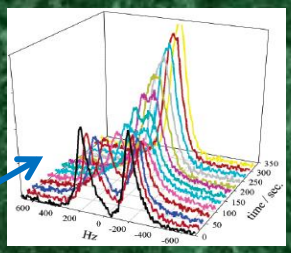
Investigating Soft Matter using NMR

30 settembre 2013,

Dipartimento di Chimica, Università di Bari "Aldo Moro"







The term soft matter include liquids, colloids, polymers, foams, gels, emulsions, liquid crystalline phases and a number of biological materials. It plays a crucial role in foods, cosmetic and pharmaceutical formulations, paints, liquid crystal technology etc.

NMR techniques can furnish a considerable insight on these systems and become the technique of choice when the optical appearance of the system precludes customary optical analysis. The workshop is devoted to illustrate how techniques such PFGE-NMR, FFC-NMR and the Rheo-NMR allow a detailed description of the system structure, dynamics and of the response to mechanical stress.

Confirmed Speakers

- C. Oliviero-Rossi (UNICAL), *Rheo-NMR*
- -S. Murgia (UNICA), *Pulsed Field Gradient Techniques for the measurements of self-diffusion coefficients*
- U. Olsson (Lund University), *Molecular Diffusion in Microemulsions and Micellar Systems*

  G. Palazzo (UNIBA), *Selected applications of PFGSE-NMR*
- L. Gentile (UNICAL), *NMR investigations of lamellar systems*
- -S. Sykora (eByte), *how to investigate soft matter using variable field NMR relaxometry*
- M. Cremonini (Agilent), *Application of Nano Probe on soft matter*
- *H. Zick (Bruker), High Gradient Diffusion NMR, Applications on Battery Materials. Rheo NMR, Hardware and Acquisition Methods*

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The workshop is promoted by Gruppo Italiano Discussione Risonanze Magnetiche (GIDRM, www.gidrm.org) and the Department of Chemistry of UNIBA.