



**European Network
on NMR
Relaxometry**

<http://eurelax.uwm.edu.pl>



COST is supported by
the EU Framework
Programme Horizon
2020

FINAL NEWSLETTER

Dear EURELAX Members and Friends,

Our Action has been completed. For your convenience, we present below the comprehensive list of lectures held during the Action. You can directly contact all speakers in case you are interested in the topic.

LIST OF LECTURES

Applications of NMR relaxometry

More Pasin
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NMR relaxometry hardware

Dominique Petit
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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/1st-workshop-nuclear-magnetic-resonance-relaxometry_v2/1st_eurelax_workshop_abstract_dominique_petit.pdf

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How to analyze relaxometry data of paramagnetic molecules

Giacomo Parigi
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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/1st-workshop-nuclear-magnetic-resonance-relaxometry_v2/1st_eurelax_workshop_presentation_giacomo_parigi_1.pdf

The solvent dynamics at pore surfaces in molecular gels studied by field-cycling magnetic resonance relaxometry

Jadwiga Tritt-Goc

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abstract/presentation:

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NMR relaxometry and microimaging of starchy products

Corinne Rondeau-Mouro

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abstract/presentation:

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NMR study of the molecular dynamics in magnetic and nonmagnetic ionic liquids

Maria Beira

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abstract/presentation:

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Fast Field Cycling NMR relaxometry as a method to investigate protein dynamics and study aggregation

Enrico Ravera

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Cation-gelator interaction at the liquid-solid interface in low molecular weight ionogels **Michał Bielejewski**

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The influence of therapeutic components on relaxivity of therapeutic paramagnetic liposomes

Beata Wereszczyńska

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Rotating frame relaxation techniques as MRI contrast in brain

Olli Gröhn

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FFC-NMRD profiles of tumour cells as a diagnostic tool for biomedical applications

Maria Rosaria Ruggiero

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Synthesis and characterization of monophosphinic acid DOTA derivatives: A smart tool with functionalities for multimodal imaging

Satya Chilla

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d-element relaxation agents for 19F-MRI: chemistry and physics toward in vivo applications

Jan Blahut

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Principles of NMR relaxation theory

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Application of field-cycling NMR relaxometry to determination of molecular dynamic processes in vegetable oils and oil seeds

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Field-Cycling NMR Relaxometry Measurements of Hydrocolloidal Systems

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Real-Time dynamical monitoring plants status in normal and stress conditions: from Low Fields NMR in laboratory to compact NMR in planta

Rahima Sidi-Bouleur
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“Other” Applications of Magnetic Field Cycling

Tomaž Apih
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Evanescent Waves Nuclear Magnetic Resonance: an experimental approach, Potential Applications to Relaxometry

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The use of relaxometry in the study of dosage forms of drugs

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Medical data fitting

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Exploring the conformational space with a sample shuttle

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Instrumental development of FFC-MRI for in vivo applications

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Fast-Field-Cycling Relaxometry with T2-Encoding

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Relaxometry and Overhauser Dynamic Nuclear Polarisation

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Unreveling the effect of Size, Shape and Dispersant on the Local Spin Dynamics of Iron Oxide Magnetic Na particles

Martina Basini

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Nuclear Magnetic Resonance relaxometry of water molecules at different depths in hydrating cement pastes with SiO₂ na particles

Andrea Bede

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Fast Field Cycling Magnetic Resonance Imaging

David Lurie

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Contrast by quadrupole enhanced relaxation (CONQUER): A concept for vel smart MRI contrast agents

Hermann Scharfetter

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Correlated Brownian interface and translational dynamics simulation for nuclear spin relaxation in fluid membrane phases

Pär Håkansson

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Proton relaxometry in a wide frequency range to study protein rotational diffusion under crowding conditions

Alexey Krushelnitsky

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NMR Relaxometry studies of the molecular dynamics and selforganized materials

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NMR Relaxation of Liquid Crystal Dendrimers

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Structure and dynamics of mo layer-protected na particles: from NMR relaxation to molecular recognition

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NMR Investigation of Cellular Uptake of Na particles

Manuel Mariani

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Insight into collagen structure from 15N-labelled synthetic model peptides and mouse bone

Ieva Goldberga

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Relaxation measurements using Nuclear Quadrupole Resonance Spectroscopy on Bi-aryl compounds

Christian Gösweiner

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Liquid-state paramagnetic relaxation from first principles

Jyrki Rantaharju

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High Field FFC-MRI - A System for 3T

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Dynamics of CO₂ adsorbed in an anisotropic metal-organic framework

Jan Lang

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Deuteron FC NMR relaxometry in simple liquids and polymers

Max Flämig

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Toward a Better Understanding of Dielectric Responses of van der Waals Liquids: The Role of Chemical Structures

Agnieszka Jędrzejowska

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Introductory lectures of WG Leaders WG1

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Introductory lectures of WG Leaders WG2

Mauro Botta

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Introductory lectures of WG Leaders WG3

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Introductory lectures of WG Leaders WG4

Pär Håkansson

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Introductory lectures of WG Leaders WG5

Dominique Petit

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Structure and dynamics of materials by NMR spectroscopy and relaxometry: research activities at the Pisa Solid State NMR joint laboratory

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NMR relaxation in partially saturated pores: applications to porous glasses and cement paste

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NMR relaxometry study of liquid crystal dimers exhibiting a peculiar nematic phase

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Zinc responsive contrast agents

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Potential applications of NMR relaxometry in medicine using FFCMRI

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What FFC-relaxometry can do to get more insight into the issues related to Gd-retention in the brain

Eliana Gia lio

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NMR Spin-lattice relaxation models fitting to experimental results using a web-based platform

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High Spin Quadrupolar Relaxation- analytical lineshape calculations and experimental validation

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abstract/presentation:

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The validity range of the Redfield relaxation theory

Danuta Kruk

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Recent theory/simulation developments and challenges in relaxometry

Pär Håkansson

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Designing 3 generations of FFC equipment: different targets & technical challenges

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Open-source hardware for FFC relaxometry

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NMR Relaxometry and Na⁺-Systems, Dynamics of Solvents and Surface Adsorbed Species

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Effect of The Hollow Topology on the Surface Spin Dynamics in γ -Fe₂O₃ MNPs

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FFC Relaxometry, a Powerful Tool to study Meso-Scale Dynamics of Confined Fluids

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Order in Disorder - Structural (and Other) Properties of Metallic Glasses

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Field-cycling NMR Combined with EPR and DNP for Studying the Wetting Behaviour of Liquids in Aged Rocks

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A Comprehensive Approach to Quadrupole Relaxation Enhancement

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209Bi Quadrupole Relaxation Enhancement in Solids

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Quantum Chemistry Property Surface and Machine Learning in Magnetic Resonance Relaxation Modelling

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Nuclear Spin Lattice and Relaxation

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Second- and Outer-Sphere Effects in MRI Contrast Agents

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Relaxometric Characterization of Potential Mn(II)-Based MRI Contrast Agents

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Rational Design of Efficient Contrast Agents for Molecular Magnetic Resonance Imaging

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Improving The Safety of the Metal Based Relaxation Agents

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Hypersensitive Systems for T1 MR Imaging: A Relaxometric Study of the Structuration of the Water Pocket Around Gd Chelates

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NMR-Based Metabolomics of Graviera Cheese. Monitoring Maturation Through High Resolution and Low Field Relaxometry/Diffusometry NMR Experiments

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Applications of TD-NMR in Colloidal Food Systems

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FFC NMR Relaxometry Studies on Hyaluronan-Based Dermal Fillers and proteins

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Quadrupole Enhanced Relaxation for Potential MRI Contrast Agents: Aspects of Structural Order in ²⁰⁹Bi Containing Na particles

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The Many Shapes of Nuclear Quadrupole Relaxation Rate Patterns in Selected Bi-Aryl-Compounds

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High Field FFC-MRI: System Validation with Iron Oxide Magnetic Na particles

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Relaxation in ²⁰⁹Bi Containing Systems

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FitLike: A Tool for The Quick Analysis of FFC-NMR Data

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Evidence for The Role of Intracellular Water Lifetime as a Tumour Biomarker by in Vivo Field-Cycling Relaxometry

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In Vivo Measurements of T1-Dispersion Maps in Kidney Tumor Mouse Models Using FFC-MRI Around 1.5 T

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Exploring Mesoporous Silica Nanoparticles as Multimodal Imaging and Therapeutic Probes

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pH-dependency: Improved Angiographic Contrast Agents and a Brief Insight on 31P-MRS

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Spatially-Resolved Relaxometric Mapping with an Inhomogeneous Transmit-Receive Coil Designed for Mouse in a Fast-Field Cycling Magnetic Resonance Imaging Insert

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Methods for In-Vivo Acquisition of NMRD Profiles by FFC-MRI

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Towards a Model-Based NMR Lock for Fast Field Cycling NMR

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Study of The Transformation of Ferrihydrite to Goethite Nanoparticles

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Enhancing MRI Signal Through Na⁺ particle Surface Chemistry

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Joint Studies of Paramagnetic Systems by Means of ESR Spectroscopy and NMR Relaxometry

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Charactrizing of Mesopores Modification in Metal-Organic Framework by Polymer Incorporation – NMR and Related Approaches

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T1 and T2 to Assess Membrane Water Permeability and Hemozoin Generation in Plasmodium Falciparum Infected Red Blood Cells

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Stormorken Syndrome Disease Protein Studied by Means of NMR and Relaxometry

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Molecular Dynamics in a “de Vries” Liquid Crystal: ¹H NMR Relaxometric Study

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¹H FC NMR Relaxometry Study on Alcohol

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Study Of Room Temperature Ionic Liquids Containing Rare Earth Ions By EXAFS and NMR Relaxometry

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Dynamics of Ionic Liquid in Bulk and 3D Confinement Investigated by Means of ^1H NMR relaxometry

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Monitoring the Influence of Different Parameters on the Hydration Process of Cement Paste Via FFC NMR relaxometry

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*^1H NMR Relaxometric Study of *vel* Layered Clays containing in The Structure Gd(III) and Eu(III) Ions*

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Revealing The Influence of Silica Fume and Orga silane On the Porous Structure of Cement Paste Using ^1H NMR Relaxometry in Low Fields

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Quadrupolar Relaxation Effects as Seen by Field-Cycling NMR Relaxometry – An Example of $[^{14}/^{15}\text{NH}_2(\text{CH}_3)_2]_3\text{Sb}_2\text{Cl}_9$ (DMACA)

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abstract/presentation: -

Dynamics of Dimethyl Buta Is in Liquid, Supercooled Liquid, and Orientationally Disordered Crystalline Phases Studied by ^1H FFC NMR Relaxometry

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abstract/presentation:

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Introduction to NMR Relaxometry

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Basics and Food Applications

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abstract/presentation:

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X-rays and NMR

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abstract/presentation:

http://213.184.8.42/eurelax_raport/DELIVERABLE_15/Training%20School%20NMR%20relaxometry%20for%20food%20and%20environmental%20applications/ts_nmr_lisbon_2018_X-ray-and-NMR-Cost-web_Carlos_Cruz.pdf

Relaxation Data Analysis for Food Samples

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Numerical implementation of relaxation formulae

Examples of data analysis for food products

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Fitteia model fitting to Analysis experimental data

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Quadrupole Relaxation Enhancement for food product

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Quantum mechanical principles of spin relaxation theories

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Spin Hamiltonians and molecular dynamics

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Quantum chemistry calculations - diamagnetic systems

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Relaxation theory for paramagnetic systems

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Examples of data analysis for molecular and ionic systems

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Relaxation of water

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Data analysis for paramagnetic systems

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Quality of fitting

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Advanced relaxation scenarios

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Quantum chemistry calculations – paramagnetic systems

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Relaxation in specific systems – I

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Relaxation in specific systems – II

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Paramagnetic systems – advanced approaches

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NMR relaxation for dummies

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abstract/presentation:
http://eurelax.uwm.edu.pl/sites/default/files/teaching-materials/ts_nmr_paris_2018_j_p_korb_0.pdf

Introduction to kinetic equations of relaxation using density matrix formulation – case of fast motions

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http://eurelax.uwm.edu.pl/sites/default/files/teaching-materials/ts_nmr_paris_2018_m_goldman_2.pdf

Dynamical information through self-correlation functions

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How to choose the right model and how to perform appropriate experiments?

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abstract/presentation:
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NMR relaxometry and other experimental techniques for extending the temporal domain

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How to build numerically self-correlation functions in simple cases

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Translational dynamics in confinement (1D, 2D, 3D)

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Intermittent dynamics

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Quadrupolar relaxation in confinement

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Case of slow motion

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abstract/presentation:
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Application to confined polymers

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Application to petroleum fluids

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Application to cement based materials

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Contrast agent

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Fast Field Cycling

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<http://eurelax.uwm.edu.pl/sites/default/files/teaching-materials/broche-ffc-nmr.pdf>

Advanced RF

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Relaxometry theory

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Advanced MRI

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did artists achieve tempera paints? A combined relaxometry and rheology study

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Field-cycling NMR relaxometry: The benefit of constructing master curves

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VSION: potential T1 contrast agents and influence of experimental parameters on their properties in a vel continuous-flow synthetic process

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Effect of Polymer coating on NMR relaxivity of size-sorted maghemite na particles

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Ultrafast relaxation and diffusion experiments

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Digital vs. Analog Control of a FFC NMR Power Supply

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Measuring NMR relaxation through principal component analysis

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A time domain signal equation for multi-echo spin-echo sequences with arbitrary refocusing angle and phase

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Study of liquid crystals showing two isotropic phases by ^1H NMR diffusometry and ^1H NMR relaxometry

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Molecular dynamics in liquid crystals close to phase transition by NMR relaxometry

Anton Gradišek

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_anton_gradisek.pdf

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Molecular order and dynamics of water in hybrid cellulose acetate–silica asymmetric membranes

Pedro Sebastiao

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_pedro_sebastiao.pdf

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Study of molecular dynamics within multi-scale porous catalyst

Jean-Baptiste Pigot

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_jean_baptiste_pigot.pdf

NMR properties of lanthanide complexes of two interconnected DO3AP

Peter Urba vsky

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_peter_urba_vsky.pdf

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_presentation_peter_urba_vsky.pdf

Development of na particle based PDT/MRI thera stic agents

Graeme J. Stasiuk

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_graeme_j_stasiuk.pdf

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_presentation_graeme_stasiuk.pdf

Gadolinium(III)-based Dual $^1\text{H}/^{19}\text{F}$ MRI Probes

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_carlos_platas_iglesias.pdf

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Ligand rigidity and MRI relevant physicochemical performance of some GdDTPA derivative complexes

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_gyula_tircso.pdf

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Enhancing the Sensitivity of Gd-based Na particles as MRI probe

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_mauro_botta.pdf

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_presentation_mauro_botta.pdf

Assessment of tumour response to chemotherapy by In vivo fast field cycling relaxometry

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_simonetta_geninatti_crich.pdf

Infiltrative glioma discrimination by FFC-NMR and quadrupolar peaks ^{14}N - ^1H origin: a study of three glioma animal models

Hana Lahrech

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_hana_lahrech.pdf

Imaging of acute stroke by FFC-MRI: the PUFFINS study

Lionel M. Broche

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_lionel_m_broche.pdf

Fast-field cycling magnetic resonance imaging around 1.5T to map NMR relaxation dispersion in vivo

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_ludovic_de_rochefort_.pdf

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_presentation_ludovic_de_rochefort_.pdf

Building MRI contrast agents based on quadrupole enhanced relaxation: What have we learned from CONQUER?

Hermann Scharfetter

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_hermann_scharfetter.pdf

PRE versus QRE

Danuta Kruk

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Field-Cycling Overhauser-effect MRI of Free Radicals

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_david_j_lurie.pdf

MRI of myelin and demyelination by advanced rotating frame and cross relaxation mapping in the brain

Olli Gröhn

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_olli_grohn.pdf

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Nonthermal food processing: Electron spin resonance as a tool to detect free radicals upon high power ultrasound and plasma treatments

Anet Rezek Jambrak

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_anet_rezek_jambrak.pdf

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Use of Solid Echo (SE) and Magic Sandwich Echo (SE) sequences to develop a new tool for quantifying crystallinity in food samples

Mecit Halil Öztop

mecit@metu.edu.tr

abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_mecit_halil_oztop.pdf

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Interaction of Metabolites with Macromolecules in Biological Fluids Investigated by High-Resolution Relaxometry

Ziqing Wang

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_ziqing_wang.pdf

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Ion-specificity and surface water dynamics in protein solutions

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_presentation_natalie_malikova.pdf

Local and global dynamics in intrinsically disordered proteins from FFC relaxometry

Giacomo Parigi

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_giacomo_parigi.pdf

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Protein dynamics by means of NMR relaxometry and dielectric spectroscopy

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NMR relaxation study of SF₆ and ¹²⁹Xe in Porous Organic Cages extracting molecular dynamics using microscopic potential energy surface

Pär Håkansson

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_par_hakansson.pdf

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Lineshape calculation of NQR spectra based on the Liouville von Neumann equation to reveal molecule dynamics

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_christian_goesweiner.pdf

Models of "quadrupole peaks"

Elżbieta Masiewicz

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Multiple relaxation pathways in electrolytes

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Dynamic properties of ibuprofen by solid state NMR spectroscopy and relaxometry: from pure active ingredients to formulations

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_elisa_carignani.pdf

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Dielectric relaxation and proton field-cycling NMR relaxometry study of glycerol/dimethyl sulfoxide mixtures down to glass-forming temperatures

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_max_flamig.pdf

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Multiscale Proton Dynamics in Fuel Cells: From Na particles to Membranes

Dominique Petit

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_dominique_petit.pdf

^2H T_1 nuclear magnetic relaxation dispersion applied and analysed for acetonitrile in a confined space

Per-Olof Westlund

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_per_olof_westlund.pdf

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Relation between molecular size and diffusion coefficient for small molecules

Mária Šoltésová

maria.soltesova@gmail.com

abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_maria_soltesova.pdf

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Spin dynamics of molecular na magnets investigated by NMR

Manuel Mariani

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http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_manuel_mariani.pdf

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Pectin-Soy Protein Isolate (SPI) Soft Candies: A Characterisation Study by NMR Relaxometry

Emin Burcin Ozvural

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http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_emin_burcin_ozvural.pdf

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Physicochemical characterisation of bovine and porcine gelatin based soft candies by Time Domain (TD) NMR Relaxometry

Sirvan Sultan Uguz

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/2nd-workshop-nuclear-magnetic-resonance-relaxometry_v2/2nd_eurelax_workshop_abstract_sirvan_sultan_uguz.pdf

Introduction to the theme and problems intended to be resolved by this software training school; A brief overview of some basic programs used by researchers for data elaboration (e.g. Matlab, Python, Fortran/C++, Origin, etc. details of these programs will be studied during the course of the school) and some of the main problems encountered when elaborating relaxation data

Danuta Kruk

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Introduction to Python basics for use with relaxometry data including teaching session with a case study

Ian Posthuma

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abstract/presentation:

<http://eurelax.uwm.edu.pl/sites/default/files/teaching-materials/python.pdf>

Presentation of UPENWIN software, general uses, advantages and limitations

Villiam Bortolotti

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Hands-on practical teaching session on use of UPENWIN for some common problems (e.g. for use on data from porous materials) and possibility to address problems furnished by participants in the workshop

Villiam Bortolotti

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Introduction to Matlab and advantages and limitations for use with relaxometry data and brief hands-on session

Giacomo Galuppini

giacomo.galuppini01@universitadipavia.it

Introduction to "Fitlike" tool in Matlab, scope of software, applications, advantages and limitations

Lionel Broche/Manuel Petit

l.broche@abdn.ac.uk

Session on programming for personalized applications in Fitlike

Lionel Broche/Manuel Petit

l.broche@abdn.ac.uk

Hands-on practical session with Fitlike tool in Matlab

Lionel Broche

pedro.jose.sebastiao@tecnico.ulisboa.pt

Introduction to Fortran/C++ compiler, uses, applications, advantages and limitations

Danuta Kruk

danuta.kruk@uwm.edu.pl

Hands-on teaching session for Fortran/C++ with case studies

Danuta Kruk

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Introduction to "Fitteia" software, scope of software, applications, advantages and limitations

Pedro Sebastiao

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Hands-on session with Fitteia including some common practical examples and the possibility to address some problems furnished by participants in the workshop

Pedro Sebastiao

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Introduction to "Florence NMRD program" (in Fortran) for data analysis of MRI contrast agents, scope of software, advantages and limitations

Giacomo Parigi

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Hands-on teaching session for Florence NMRD program including some common examples

Giacomo Parigi

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Introduction to NMR relaxometry simulation tools, scope, advantages and limitations

Pascal Fries

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Round-table discussion on the state of the art of the current software available for relaxometry data elaboration and analysis and needs for the future and possible developments

Danuta Kruk

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Introduction to Origin software, uses, applications, advantages and limitations

Danuta Kruk

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Hands-on teaching session for Origin with case studies

Danuta Kruk

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Hands-on session of choice and specific questions arising during the school

(Participants propose/bring own problems to solve with the different software reviewed during the school)

Danuta Kruk/Lionel Broche/ Pedro Sebastiao

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Measurement of relaxation data

Lucia Calucci

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The analysis of longitudinal relaxation times T1 of water protons over a large range of external applied magnetic field is shown to provide important information about the dynamics of liquids, solutions and living tissues

Elie Belorizky

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How to extract useful parameters from relaxation data (general molecular dynamics information – rotation, diffusion)

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Basic theories and experiments of nuclear magnetic relaxation dispersion of liquids in confinement

Jean-Pierre Korb

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Dynamics of water in biological cells by NMR relaxometry

Pascal Fries

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Applications of nuclear magnetic relaxation dispersion in petroleum industry

Jean-Pierre Korb

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/teachingmaterials/ts_nmr_paris_2018_j_p_korb_3.pdf

Fast Field Relaxometry, the Mesoscopic Part of Multi-scale NMR Approach for Proton Dynamics in Porous Media: Industrial Applications

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Applications of Field Cycling relaxometry to cement materials

Ioan Ardelean

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Relaxing liquids in porous catalysts: Applications and potential

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Fast Field Cycling Relaxometry and its Application to Porous Catalytic Systems

Jordan Ward-Williams

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Battery electrolytes

Danuta Kruk

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Toyota USA

Oscar Tutusaus

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Polymers

Lucia Calucci

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Combining NMR relaxometry with other techniques

Guillaume Meriguet

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¹H relaxometry for studying the solvent behavior in an organogelation process

Sabine Bouguet-Bonnet

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NMR Relaxometry in Complex Soft-Matter Systems: Experimental Results and Model Fitting

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Applications of NMR Relaxometry in Food Industry

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Food applications of relaxometry

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MR relaxometry for quality assessment and authentication of dairy products

Roberto Anedda

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Plants and relaxometry

Rahima Sidi-Boule uar
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Role of intracellular water lifetime as a tumour biomarker by in vivo FFC

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Potential of FFC NMR in cancer diagnostics

Hana Lahrech
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FFC-MRI

Lionel Broche
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Relaxation enhancement of Gd-based MRI probes: from small chelates to nano-sized systems

Mauro Botta
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Macrocyclic paramagnetic agents for MRI: Determinants of relaxivity and strategies for their improvement

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Relaxometry in DSM

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Relaxometry need in the oil industry

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Quality of wine bottle stoppers

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NMR relaxometry of proteins

Giacomo Parigi
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Pharmaceuticals (high field relaxometry)

Marco Geppi
marco.geppi@unipi.it

Pharmaceutical applications (formulations – liquids – viscous liquids – authentication (viagra))

Danuta Kruk
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An Introduction to NMR, Diffusion, MRI

Bill Price

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Introduction to NMR Relaxometry

Danuta Kruk

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/teaching-materials/lecture_e.pdf

Relaxometry in Food systems and n-Conventional Time Domain NMR Experiments

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/teaching-materials/t2_l01.pdf

Paramagnetic relaxation and contrast agents

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Relaxation theory for superparamagnetic systems

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/teaching-materials/lecture_d.pdf

Relaxometry and Imaging in Foods

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abstract/presentation:

http://eurelax.uwm.edu.pl/sites/default/files/teaching-materials/t4_l02.pdf

NMRD in partially ordered systems: liquid crystals, ionic liquids

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Challenges of NMR relaxometry

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Relaxometry characterization of MRI contrast agents

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Optimizing the rotational dynamics of Gd(III)-based contrast agents

Mauro Botta

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Development of a paraCEST and fluorine MRI contrast agent

Pierre Er tte

Mn(II)-based probes for molecular imaging applications

Gyula Tircsó

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Revealing the potential of quadrupole relaxation enhancement as a vel mechanism for Fast Field-Cycling MRI in biomedical systems

Elżbieta Masiewicz

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Detection of exoge us polyhistidine quadrupolar peak in tissue implant scaffold using whole-body Fast Field-Cycling MRI

Nicholas Senn

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T₁-T₂ interactions in dual MRI contrast agents, a chemical perspective

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Overview of in vivo T1 relaxation data in human tissues

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Fast Field-Cycling MRI identifies ischemic stroke at ultra-low magnetic field strength

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Low field MR thermometry with a fast, interleaved look-locker based T₁ mapping approach

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Low-field T1 relaxation time distribution in natural and trypsin-digested bovine articular cartilage

Oleg Petrov

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Water Dynamics in Hydrogel Micro/Na particles as potential drug delivery vehicles

Evrin Umut

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Novel Contrast agents based on quadrupolar peaks

Simona Baroni

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MRI's contrast agents *in vivo* assessment of Tumour Associated Macrophages in murine melanoma obtained by low-field relaxometry in the presence of iron oxide particles

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An Introduction to NMR, Diffusion, and MRI

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Study of internal motions in solids by means of NMR relaxometry

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A rapid NQDR using field cycling and frequency sweeps

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Annealing effects on liquid distribution and wettability of silica colloidal crystals

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Multi-Scale Proton Dynamics in Alkali Activated Alumina Silicates During Sol-Gel Transition

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Spectral lineshape of ^{27}Al satellite transitions from ICR class MOFs

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Structural features of Eu^{2+} -containing cryptates that influence relaxivity

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Study of the specificity of counterion binding to a conjugated polyelectrolyte using a combination of thermodynamics, molecular dynamics and NMR

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Dodecahedrane: Symmetry and Dynamics in the Solid State

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Molecular dynamics study in the nematic and NT-B phases of liquid crystal dimer DTC5C7: A ^1H NMR relaxation study

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Proton Dynamics at Meso-Scale in Fuel Cell Membranes probed by FFC Relaxometry

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New exchange process between isomers of Lanthanide(III) complexes of phosphate dota analogues
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^1H and ^{17}O NMR relaxation studies of aqua ions Gd(III) and Mn(II) and Fe(III)
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FFC NMR Relaxometer: a Low Power Lab Bench Solution
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Interactions of small molecules in complex mixtures by high-resolution relaxometry
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Dynamics of aqueous solution of gum acacia studied by NMR relaxometry
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NMR relaxometry investigation of dynamics in polyelectrolyte solution
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A high-field perspective on relaxation at low magnetic fields with two-field NMR spectroscopy
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Fast field-cycling NMR relaxometry and liquid crystal biaxiality
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NMR relaxation in liquids: the case glycerol
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Multi-scale dynamics of water in green earth tempera painting
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Quadrupole relaxation enhancement as a fingerprint of slow dynamics in biological systems
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Toward quantitative model comparison for relaxometry experiments
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Hydrophobic silica dispersed in water: interactions and structure

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Preparation and coordination chemical characterization of macrocyclic Mn(II) complexes

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Paramagnetic relaxation enhancement and the inconspicuous effect of impurities on PEG-based metallic systems

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Investigation of co-solute paramagnetic relaxation using field shuttling

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Novel application of ultrafast Laplace NMR

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Analysis of metal margination chemistry before and after digestion by NMR relaxometry

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Understand hard candy chemistry by using TD-NMR

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^1H NMR relaxation times (T_1 and T_2) and self-diffusion coefficient (D) of Extra Virgin Olive Oils

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Different TD-MRI approach for the determination of honey and crystallization and adulteration

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Td-NMR and FCC NMR relaxometry to understand the presence of corn syrup in gelatin based candies

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Calcium-responsive Gd-complexes as functional markers for monitoring of ischemic stroke

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Following geopolymerization by proton NMR relaxometry

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¹ H NMR relaxation of polysaccharides at varying hydration levels

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Fast Field Cycling NMR relaxometry – overview

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Achievements and pitfalls of FC NMR relaxometry in materials science: the experience of the Pisa Solid State NMR laboratory

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FC NMR relaxometry of a metal-organic-framework: structural and dynamic insights

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FC NMR of elastomers: effect of cross-linking on glassy and polymer dynamics

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How NMR relaxometry measurements help to understand particle interactions in tempera paint

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Rheo-NMR on a polymer melt - shear-induced chain ordering or loss of entanglements

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Development of Mn based MRI agents from a single pot template reaction

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NMR Intermolecular Dipolar Cross-Relaxation in Na⁺-Confined Fluids

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Paramagnetic chelates embedded in na⁺ gels as highly efficient MRI probes.

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Determination of mesh size distribution by relaxometry on polygalacturonic gels, comparison with rheological and neutron measurements

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n-superparamagnetic iron oxide na particles as a model system for relaxivity studies

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Mn(II) based Silica Na particles as potential MRI probe

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^1H - ^{14}N cross-relaxation spectrum analysis in sildenafil and sildenafil citrate

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Assessment of tumour response to chemotherapy by in vivo fast field cycling relaxometry

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Relaxometry and diffusometry investigation of the deep eutectic solvent glyceline

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Perspective on NMR relaxometry and NMR relaxation studies on olive and other vegetable oils

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Study of NMR paramagnetic relaxation enhancement in magnetic fluids

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Relaxometric study of manganese complexes based on a pyclen structure as MRI contrast agents

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A new class of MRI contrast agent based on NMR Quadrupolar peaks

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NMR relaxometry study of dynamics in aqueous solutions of polyamines

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Pineapple juice as oral MRI contrast agent

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Progress on FFC at Aberdeen: robust in-vivo dispersion imaging

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The benefit of measuring T_2 in addition to T_1

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Contribution of the dominant physico-chemical parameters to the proton spin lattice relaxation in wine

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NMR relaxometry insight into food science

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NMR relaxation and MD simulations in petrophysical systems

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Modulation of Aluminum Species Transport in AlCl₃ Deep Eutectic Solvents (DESS)

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A multivariate statistical and relaxometry approach to study the provenance and traceability of dairy products

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Characterizing the surface dynamics of liquids in porous materials by FFC-NMR relaxometry

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Use of Different NMR Techniques to Characterize Gelatin Based Soft Candies

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Challenges of FFC-NMR for Food Applications

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Monitoring Honey Crystallisation by TD-NMR

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Understanding the Water Dynamics in Composite Whey Protein Hydrogels

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Effect of Fat Content on the Crystallization of Milk and Cheese Powders by Solid Echo and Magic Sandwich Echo Sequences

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Model comparisons and developments for complex liquids, a way forward for relaxometry?

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Water dynamics in inulin based hydrogel microparticles

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Relaxometry for the development of innovative diagnostic tools in medicine

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From intense to ultra-low field NMR relaxometry in Germany. Which outlook after forty years of pedestrian approach?

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NMR Relaxometry as a Tool for Understanding Adsorption in Heterogeneous Catalysis

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Low-field NMR relaxometry as a tool for designing new cement based materials

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Intrinsically disordered domain of delta subunit of RNA polymerase from Bacillus subtilis studied by combination of high-resolution relaxometry and MD simulation

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The dissolution-DNP experiment - a very brief overview

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MD simulations as a tool for dissecting molecular motions to explain NMR relaxation phenomena

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A new heuristic algorithm for the analysis of NMRD dispersion curves

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A traditional Armenian vinification: clay-wine interaction followed by relaxometry

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Aqueous paramagnetic solutions

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Relaxometry of macromolecules tumbling in solution: why bother

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Designing low power FFC relaxometers: pathways and trends

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ICE lubricant analysis by NMR relaxometry

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NMR results and perspectives on molecular magnets

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