

## Réunion RMN Grand Bassin Parisien

### Museum d'Orléans pour la Biodiversité et l'Environnement – Orléans, 4 juin 2024

**Organisation locale** : Eddy Dib, Elodie Salager  
**Coordination** : Frédérique Pourpoint & Elodie Salager

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| 9:30   | <i>Accueil Café</i>  |  |
| 10:00  | <b>Antonii ZHADAN</b><br><i>IMPMC Paris</i><br><i>CEMHTI Orléans</i> | Incorporation du Li dans les minéraux de type CaCO <sub>3</sub> : étude complémentaire par RMN <sup>7</sup> Li et calculs DFT  |
| 10:20  | <b>Philippe LESOT</b><br><i>LRMN Paris-Saclay</i>                    | Natural Abundance Deuterium NMR Spectroscopy: Applications in lyotropic mono- and bimesophasic systems   |
| 10:40  | <b>Marianne (Marion) GABORIEAU</b><br><i>KIT Karlsruhe</i>           | Relation between dynamics in biobased polymers and their functional properties   |
| 11:00  | <b>Yuri G. KOLYAGIN</b><br><i>UCCS Lille</i>                         | Through-space heteronuclear NMR correlations between two half-integer quadrupolar nuclei with T-HMQC sequences   |
| 11:20  | <b>Olivier OUARI</b><br><i>ICR Marseille</i>                         | DNP enhanced solid-state NMR spectroscopy<br><i>Conférencier Invité</i>  |
| 12:10  | <i>Déjeuner</i>  |  |
| 13:40  | <b>Athulya NADOLI</b><br><i>UCCS Lille</i>                           | Investigation of water adsorption and stability under steam flow of Zr-based metal-organic framework using <sup>91</sup> Zr solid-state NMR                              |
| 14:00  | <b>Yuliia HORBENKO</b><br><i>CEISAM Nantes</i>                       | Multiway analysis of diffusion NMR data for organic synthesis  |
| 14:20  | <b>Jing LI</b><br><i>NIMBE CEA Saclay</i>                            | An integrated stopped-flow device for the study of porous materials using hyperpolarized <sup>129</sup> Xe NMR   |
| 14:40  | <b>Mehdi SOUSSI-THEROND</b><br><i>LBM Paris</i>                      | Kinetic study of the action of glucose-6-phosphate dehydrogenase on hyperpolarized glucose-6-phosphate using D-DNP   |
| 15:00  | <i>Pause Café</i>  |  |
| 15 :40 | <b>Woei Jer NG</b><br><i>CEMHTI Orléans</i>                          | Structural Behaviour of Molten Chloride Fast Reactor Fuels: Insights from NMR and MD Investigations of the NaCl–MgCl <sub>2</sub> –LaCl <sub>3</sub> Surrogate Fuel Salt |
| 16:00  | <b>Zlansau Ruth TAN</b><br><i>PHENIX Paris</i>                       | Probing water dynamics in a clay suspensions through NMRD: curve fitting and interpretation of results   |
| 16:20  | <b>Pierre DANIEL</b><br><i>LCMCP Paris</i>                           | Proton double-quantum MAS NMR for the study of the cross-link density in rubber blends   |
| 16:40  | <b>Dani KOURATI</b><br><i>CEMHTI Orléans</i>                         | NMR studies of Sodium Ion Solvation within Polymerized Ionic Liquids as Solid Polymer Electrolytes.  |
| 17 :00 | <i>Conclusion</i>  |  |