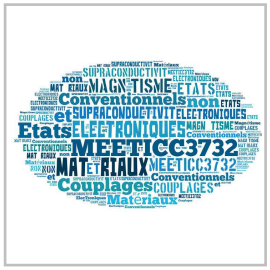
nanoX Workshop & conferences

NANOSCALE SCIENCE AND ENGINEERING

# GDR MEETICC plenary meeting 2022

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| Type | National Conference |
| Language | English |
| Location | VILLAGE DE VACANCES LE TARBESOU<br>Ax-les-Thermes, FRANCE |
| Lead(s) | Fabienne Duc (LNCMI), Maxime Leroux(LNCMI),<br>Nicolas Laflorencie (LPT), Didier Poilblanc (LPT) |
| NanoX Lab(s) involved | ☐ CEMES ☐ LCPQ ☐ LPCNO<br>☐ LCAR ☑ LNCMI ☑ LPT |
| Dates | 07/06/2022 to 10/06/2022 |
| Website | https://meeticc2022.sciencesconf.org/ |

## Event scope and topics

Today's advanced materials use electrons and their interactions with spin and atoms to lead to the appearance of unconventional electronic states and fascinating emerging properties capable of impacting major societal issues of the 21st century. This biennial plenary conference of the CNRS Research Group "Materials, Electronic States, Unconventional Interactions and Couplings" aims to bring together the different communities of researchers, experimenters and theorists, chemists and physicists, involved in the study of states and unconventional electronic properties in systems that are diverse yet use common concepts: correlated systems, topological phases and confined systems. The complexity of these systems, such as unconventional superconductors, multiferroics, topological insulators or 2D electron gases, requires mobilizing the multidisciplinary and complementary expertise of this large community. These systems are the subject of intense investigations on an international scale because their remarkable properties could, once controlled, bring about breakthroughs in the fields of quantum technologies, energy and the environment.

The sessions will be organized around five major topics.

- Magnetism - Frustrations - Topology
- Superconductivity and competing orders
- Emergent properties of correlated systems
- Topological phases and confined systems
- Elaboration and prospectives in quantum materials