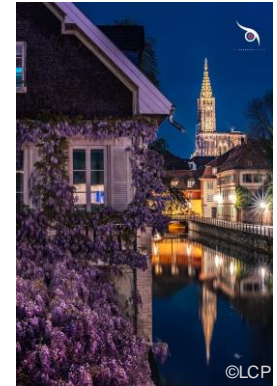


IPCMS

Institut de Physique et Chimie des Matériaux de Strasbourg

(presentation by Guido Ori)

- Strasbourg / Cronenbourg campus site
- 230 members
 - 80 Research & University staff
 - 60 Engineers & Technicians
 - 90 PhDs & Post-docs
- 5 departments (3 physics + 2 chemistry)
- Interest in the GDR by 3 members
- Area of expertise: Computational Materials Science
- CNRS section 15
- Activities in the 4th axe (Simulations/Théorie)



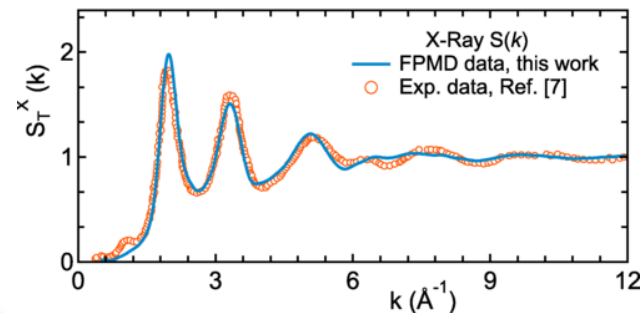
Scientific expertise, overview, major themes in relation to the GDR

Scientific expertise in:

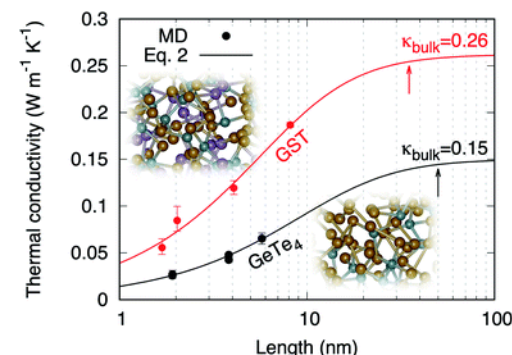
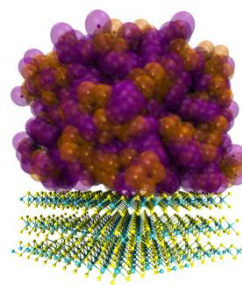
- Disordered (nano)materials:
 - Glasses: chalcogenides and oxides (PCMs & batteries)
 - Liquids: melts and ionic liquids (electr. devices, FETs)
- Hybrid (nano)systems:
 - Organic-inorganic interfaces: LSHs and IL @2Dmat
 - Glass-ceramics (cathode materials)

Methodological expertise:

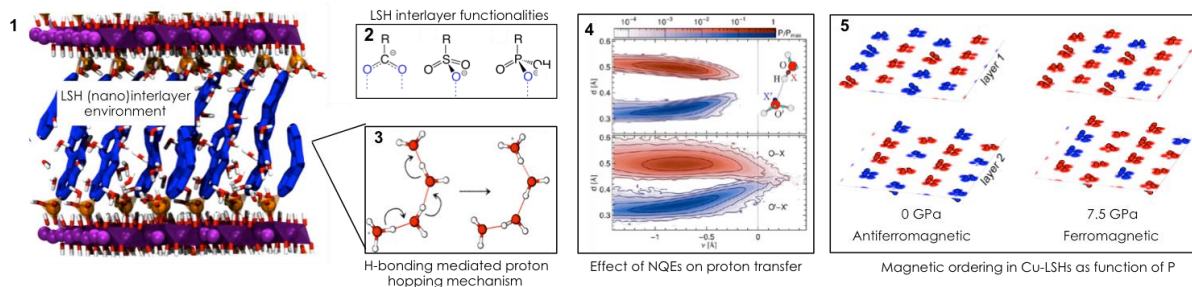
- First-Principles Molecular Dynamics (DFT-MD)
 - Code development (MB: CPMD, cp2k)
 - FES enhanced methods: metadynamics, BME
- Classical and Machine-Learned potentials MD
- Combined with AEMD (E. Martin team, iCUBE)



Phys. Rev. B 103, 094204 2021



In collab. E. Martin team, iCUBE
RSC Advances 11, 10752 2021



Adv. Funct. Mater. 1703576, 1-13 2017

Properties (qt.ve): Structure | Bonding / Electronic | Dynamics | Magnetic | Thermal