

# ITI QMat Scientific Day

June 15, 2023, IPCMS Strasbourg

## Program (morning)

9h00-9h20 Welcome, summary of the QMat scientific objectives, goals of the day (Silviu COLIS, IPCMS)

9h20-9h40 “Smart supramolecular chiral materials probed via (optically active) two-photon microscopy” (Stéphane BELLEMIN-LAPONAZ, IPCMS)

9h40-10h00 “Operando EPR and bioinspired MOFs for electrode materials for ion batteries” (Sylvie CHOUA, Institut de Chimie)

10h00-10h20 “Vibrational coherences in Fe(II) complexes and in retinal proteins” (Stefan HAACKE, IPCMS)

*Coffee Break*

10h50-11h10 “Leveraging the quantum spintronic engine” (Martin BOWEN, IPCMS)

11h10-11h30 “Optomechanics of a suspended magnetic van der Waals membrane” (Arnaud GLOPPE, IPCMS)

11h30-11h50 “Non-local multi-qubit quantum gates via a driven cavity” (Guido PUPILLO, ISIS/CESQ)

*Lunch Break*

## Program (afternoon)

14h00-14h20 “Shedding light on ferroelectric domain walls” (Salia CHERIFI-HERTEL, IPCMS)

14h20-14h40 “Energy band profile engineering in van der Waals heterostructures technologies” (Jean-François DAYEN, IPCMS)

14h40-15h25 **General Seminar** : “MOF based nanomaterials and related applications”  
(Christian SERRE – Institut des Matériaux Poreux, Paris)

*Coffee Break*

16h00-17h00 General information session (presentation of the ITI, presentation of the committees, question session) (Matthieu BAILLEUL, IPCMS)

17h00-19h00 Poster Session (with Beer & Bretzel)

Contact information : [silviu.colis@ipcms.unistra.fr](mailto:silviu.colis@ipcms.unistra.fr)