Mini Conference « *Magnetization dynamic* »

March, 30 – 31, 2023 @ Ecole des Mines A007

Thursday, March 30th
14 h 00 – 17 h 00: **Mini Conference Magnetization dynamic – part I**

14 h 00 -14 h 30
Gate-Controlled Skyrmion and Domain Wall Chirality
Helene Bea (SPINTEC - Univ. Grenoble Alpes/CNRS/CEA)

14 h 30 – 15 h 00:
A route to ultrafast control of functional properties of solids
Andrei Kirlyuk (Institute for Molecules and Materials- Radboud University Nijmegen)

15 h 00- 15 h 30
Electrical manipulation and detection of antiferromagnetism in magnetic tunnel junctions
Weisheng Zhao (Fert Beijing Institute, Beihang University.)

Coffee break

16 h 00 – 16 h 30
Ferrimagnetic Spintronics
J. M. Coey (School of Physics and CRANN, Trinity College)

16 h 30 – 17 h 00
Seeing' physical properties of low loss materials on nanoscale
Olga Kazakova (Quantum Materials & Sensors – National Physical Laboratory)

17 h 00 – 17 h 30
Domain wall dynamics under thermal and athermal laser-induced effects
Oksana Chubykalo-Fesenko (Instituto de Ciencia de Materiales de Madrid ()

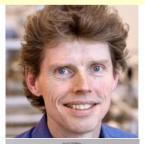
Friday, March 31st
9 h 00 – 12 h 00: **Mini Conference Magnetization dynamic – part II**

9 h 00-9 h 30
Applications of thermoplasmonics to nanomagnetic logic
Paolo Vavassori (CIC nanoGUNE BRTA)

9 h 30 – 10 h 00

What is the interplay of ultrafast charge and spin dynamics in ferromagnetic thin films?
Emmanuelle Jal (Laboratoire de Chimie Physique -Matière et Rayonnement - Sorbonne Université, CNRS)

Coffee break



10 h 15 – 10 h 45 ***Ultrafast laser-induced spin currents and all-optical switching***
Bert Koopmans (group Physics of Nanostructures (FNA) at Eindhoven University of Technology (TU/e)

10 h 45 – 11 h 15: ***Magnetic on/off switching of plasmonic lasing and plasmonic control of spin waves***
Sebastiaan van Dijken (Nanomagnetism and Spintronics group - Aalto University)

11 h 40 – 12 h 15: ***Emission Mechanisms in Spintronic Terahertz Emitters***
Yong Xu (School of Integrated Circuit Science and Engineering, Hefei Innovation Research Insititute, Beihang University)

Séminaire organisé dans le cadre du projet de programme interdisciplinaire MAT-PULSE

MAT-PULSE
Materials and Physics @ Ultimate Scale: Nanotech for a sustainable digital world