

Lavoisier discussion on 2D magnetic materials Strasbourg, France

Collège doctoral européen
46 Boulevard de la Victoire, 67000 Strasbourg

Program 2023

Monday 23 January

08h50 - 09h00	Welcome remarks chair: Aurélien Manchon (CINaM, Marseille)
09h00 - 10h00	Olivier Fruchart (Spintec, Grenoble) Introduction to low-dimensional magnetism
10h00 - 10h30	Georges Bouzerar (Institut Néel, Grenoble) Flat-band induced room temperature ferromagnetism in two-dimensional systems
10h30 - 10h45	Coffee break chair: Matthieu Jamet (Spintec, Grenoble)
10h45 - 11h15	Nicholas Figueiredo Prestes (CNRS/Thalès, Paris-Saclay) Spin-orbit torques and magnetization control in epitaxial van der Waals 2D-ferromagnet/topological-insulator $\text{Cr}_{1+d}\text{Te}_2/\text{Bi}_2\text{Te}_3$ heterostructure
11h15 - 11h45	Suman Sarkar (Institut Néel, Grenoble) Exfoliated flakes of 1T- CrTe_2 , and other Cr-Te stuff
11h45 - 12h15	Bijun Tang (NTU, Singapore) Synthesis and engineering of novel 2D magnetic transition metal chalcogenides
12h30 - 13h30	Lunch at 32 chair: Delphine Lagarde (LPCNO, Toulouse)
14h00 - 15h00	Clément Faugeras (LNCMI, Grenoble) Advances in 2D magneto-optics
15h00 - 15h30	Joanna Wolff (IPCMS, Strasbourg) Optomechanics of suspended magnetic van der Waals materials
15h30 - 16h00	Coffee break chair: Jean-Sébastien Lauret (LuMIn, Paris-Saclay)
16h00 - 16h30	Märta Tschudin (University of Basel, Switzerland) Visualizing magnetic phase transitions in 2D van der Waals materials
16h30 - 17h00	Vincent Jacques (L2C, Montpellier) Magnetic imaging with spin defects in hexagonal boron nitride
17h00 - 17h30	Marie Hervé (INSP, Paris) It looks like a moiré, but it isn't
17h30 - 19h00	Poster session
20h00 - 22h00	Dinner at Maison Kammerzell

Tuesday 24 January

08h30 - 09h00	chair: Olivier Fruchart (Spintec, Grenoble)
09h00 - 10h00	Aurélien Manchon (CINaM, Marseille) Emerging phenomena in 2D spintronics
10h00 - 10h20	João Sampaio (LPS, Paris-Saclay) Evidence of large Dzyaloshinskii–Moriya interaction at the cobalt/hBN interface
10h20 - 10h45	Coffee break chair: Marie-Blandine Martin (CNRS/Thalès, Paris-Saclay)
10h45 - 11h15	Quentin Guillet (Spintec, Grenoble) Proximity effects between Cr_2Te_3 vdW ferromagnet and 2D materials
11h15 - 11h45	Dongzhe Li (CEMES, Toulouse) Strain-driven zero-field near-10 nm skyrmions in Fe_3GeTe_2 van der Waals heterostructures
11h45 - 12h15	Fan Wu (University of Geneva, Switzerland) Transport study of layered antiferromagnet CrPS_4
12h30 - 13h30	Lunch at 32 chair: Clément Faugeras (LNCMI, Grenoble)
14h00 - 14h30	Nicolas Ubrig (University of Geneva, Switzerland) Probing magnetism in exfoliated Vl_3 layers with magnetotransport
14h30 - 14h50	Jacek Kasprzak (Institut Néel, Grenoble) Coherent exciton dynamics in a gate-tunable 2D magnetic semiconductor
14h50 - 15h00	Closing remarks

Organizing committee
Arnaud Gloppe (IPCMS, Strasbourg)
Stéphane Berciaud (IPCMS, Strasbourg)
Johann Coraux (Institut Néel, Grenoble)
Matthieu Jamet (Spintec, Grenoble)

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