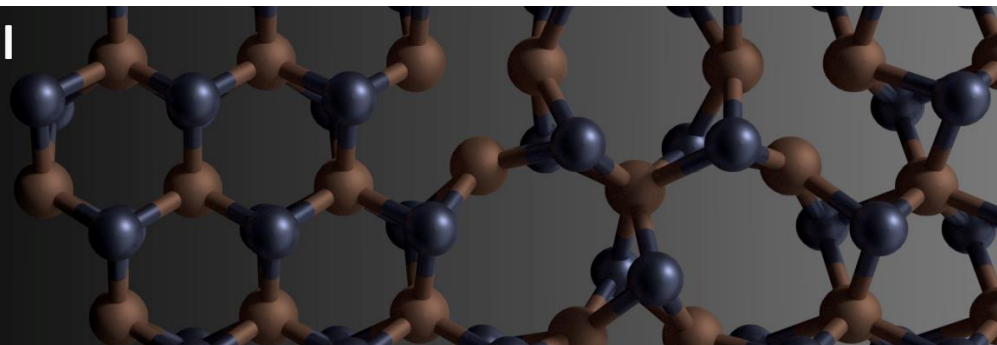


Computational and Theoretical Condensed Matter Physics

December 17 & 18, 2019



DETAILED PROGRAM (update on Dec. 16th 2019)

December 17th, 2019

1:00 pm		Welcome + Introduction	
1:20 pm	Keynote Talk 1	Gian-Marco Rignanese	Accelerating materials discovery through high-throughput ab initio calculations and data mining
2:00 pm	Invited Talk 1	Jonas Bekaert	Hydrogen-induced high-temperature superconductivity in two-dimensional materials: The example of hydrogenated monolayer MgB ₂
2:20 pm	Invited Talk 2	Yoann Olivier	Thermally Activated Delayed Fluorescence (TADF): A new paradigm for OLEDs
2:40 pm	Invited Talk 3	Mehmet Yagmurcukardes	Two-dimensional Ultra-thin Crystals by Chemical Conversion of van Der Waals Materials
3:00 pm	Keynote Talk 2	Zeila Zanolli	Spintronics at the interface
3:40 pm		Coffee Break	
4:20 pm	Invited Talk 4	Nicole Helbig	Coupled spin-lattice dynamics with multibit
4:40 pm	Invited Talk 5	Simon Dubois	Understanding 2D magnetic junctions from fabrication to new functionalities
5:00 pm	Invited Talk 6	Pedro Melo	Spin States Protected from Intrinsic Electron–Phonon Coupling in MoSe ₂
5:20 pm	Invited Talk 7	Aurelien Lherbier	Thermal and electronic transport characteristics of highly stretchable graphene kirigami
5:40 pm	Keynote Talk 3	Philippe Ghosez	Origin and mechanism of the metal-insulator transition in perovskite nickelates, manganites and ferrites.
6:20 pm		Poster Session and Buffet Dinner	

December 18th, 2019

8:30 am	Keynote Talk 4	Ludger Wirtz	Theoretical Spectroscopy of 2D Materials: Exciton-phonon coupling in resonant Raman and luminescence spectroscopy
9:10 am	Invited Talk 8	Bruno Majerus	Plasmons in nanostructured and corrugated 2D materials
9:30 am	Invited Talk 9	Ben Van Duppen	Graphene plasmonics: exploring the nonlocal response of 2D electron liquids
9:50 am	Invited Talk 10	Michael Lobet	Perfect electromagnetic absorbers: a road to reality
10:10 am		Coffee Break	
10:40 am	Invited Talk 11	Tatiana Rappoport	Two-dimensional orbital Hall insulators
11:00 am	Invited Talk 12	Aurelie Champagne	MXenes: the largest family of 2D materials
11:20 am	Invited Talk 13	Thibaut Sohier	Electron-phonon scattering in 2D materials: a quest for high conductivity
11:40 am	Invited Talk 14	Benoit Van Troeye	Understanding phonons in slightly-misaligned graphene bilayer with the Frenkel-Kontorova model
12:00 pm		Wrap-up and Summary	

For more information: <http://nism.unamur.be/events-corner/symposium-ctcmp>

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