



hD day

Novembre 22nd, 2017

**Amphitheater of anatomy
Faculty of Medicine
2 rue de l'école de médecine**

Dear colleagues,

Welcome to the PhD day of the Laboratoire Charles Coulomb. This event is a unique opportunity to discover the diversity of teams and scientific subjects covered in our laboratory, in a beautiful place that is rich in history.

PhD students will give short presentations about their scientific projects, and you should feel free to ask them questions. Many students responded to the call, and we count on the permanent members of the lab to come and encourage the next generation of researchers.

We really hope that you will enjoy this day.

The organizers:

Chahine Abbas, Myriam Jory, Amandine Laboulais, Camille Scalliet
Christelle Eve, Christian Ligoure



MORNING SESSION 9h-12h

8h45-9h	Welcome
9h-9h15	Introduction by Pierre LEFEBVRE
9h15	Walid REDJEM « Carbon related defects in Silicon for nanophotonics »
9h25	Anthony PHIMPHACHANH « Electrostatic micellization of double-hydrophilic block copolymer »
9h35	Puong VUONG « Spectroscopy of boron nitride heterostructures »
9h45	Adrien DELGARD « Electrochemical capacitance of quantum Hall conductors »
9h55	Abir AOUINI « Twist-bend liquid crystals: commutation mechanisms and applications »
10h05	Rupert COY « The Hierarchy problem and the composite Higgs boson »
10h15-10h45	COFFEE BREAK
10h45	Batoul CHOUAIB « Dental pulp stem cells conditioned medium for tissue regeneration »
10h55	Thomas PELINI « Study of optical and magnetic properties of single defects in hBN »
11h05	Justine PINCEMAILLE « Interactions and assemblies of wheat proteins »
11h15	Rana TANOS « Hybrid Quantum sensor for nanoscale thermometry »
11h25	Valerio SORICHETTI « Structure and dynamics of a polymer-nanoparticle solution at high nanoparticle volume fraction »
11h35	Gabriel DAVID « Genomic Physics : a general theory for intracellular organization »
11h45	Abir NACHAWATY « Electronic properties in epitaxial graphene close to the charge neutrality point »
12h-13h30	LUNCH BUFFET

AFTERNOON SESSION 13h30-16h

13h30	Marian CORS « Internal Structure of Acrylamide based Core-Shell Microgels »
13h40	Amandine LABOULAIS « In search of behaviorally validated physiological markers of tinnitus in rodents: an approach centered on Manganese Enhanced MRI »
13h50	Christine ELIAS « Spectroscopy of boron nitride Van der Waals heterostructures »
14h	Camille SCALLIET « The Gardner transition in model glass formers »
14h10	Zhen ZHANG « Characteristics of glass fracture at the atomic scale »
14h20	Francois CHIARUTTINI « Collective states and devices based on indirect excitons in wide bandgap quantum wells »
14h30-15h	COFFEE BREAK
15h	Myriam JORY « Mucus rheology and cilia coordination into the Human bronchial epithelium »
15h10	Angela HAYKAL « Nanoscale imaging of spin texture in magnetic films using NV center magnetometry »
15h20	Saddem CHOUAIEB « Investigation of orbital magnetism in Graphene via NV Magnetometry »
15h30	Alexey BRODOLINE « Digital holography for the microcirculation imaging in zebrafish larvae »
15h40	Alexandre POIRIER « Multistep adsorption and organization of a hard vegetable protein at the oil-water interface »
15h50	Chahine ABBAS « Spin dynamics of indirect excitons »
16h	Stefano VILLA « Study of micro-metric particles' dynamics near an air-water interface »
16h10-17h	FREE TIME FOR DISCUSSION