

PROGRAMME

Dimanche 25/02/2018 : Accueil des Participants

18h15	Ouverture Giancarlo Faini (C2N/CNRS) Abdelilah Benyoussef (MASciR) Chairman : Giancarlo Faini	
18h20 -18h30	Nawal CHRAIBI	Présentation de MASciR
18h30-19h	Dominique MAILLY	Nano-fabrication and Nanotechnologie
19h-19h30	François BERTRAN	La photoémission résolue en spin pour l'étude des matériaux magnétiques
19h30-20h	Emmanuel LHUILLIER	Wavefunction engineering using colloidal nanocrystals
Lundi « 26/02/2018 »		
		Chairman : Ari Paavo Seitsonen
8h30 – 9h00	Abdelillah BENYOUSSEF	Design of 2D Materials: Density Functional theory
9h00 – 9h30	José AVILA	Electronic structure of smart low dimensional materials revealed by NanoARPES: graphene, hBN, MoS ₂ among others
9h30 – 9h45	Mahmoud EDDRIEF	Matériaux Topologiques
9h45 – 10h00	Hind BENDIZI	First-principles investigation of adsorption and diffusion of Li, Na and Mg on arsenene monolayer: Prospective materials for Li (Na or Mg)-ion batteries
10h00 – 10h15	Anass SIBARI	Bandgap Engineering of Black Phosphorus-based Nanostructures
Pause café 30 mn		
		Chairman : Talal MALLAH
10h45-11h15	Yannick DAPPE	Angle dependence of the local electronic properties of the graphene/MoS ₂ interface determined by <i>ab initio</i> calculations
11h15-11h45	Ari Paavo Seitsonen	At nanoscale on surfaces: Combined experimental and computational investigation of bottom-up structures
11h45-12h00	Mourad GARARA	Physisorption, Diffusion and Chemisorption Pathways of H ₂ Molecule on Phosphorene by First Principles Calculations
12h00-12h15	Jihene Zribi	Electronic properties of h-BN
12h15-12h30	Habiba MAMORI	First principle study of electronic and optical properties of phosphorene using PWscf method
12h30 -14h Déjeuner		
		Chairman : Dominique Mailly
14h-14h30	Julien RAULT (Soleil)	2D Materials/Ferroelectric
14h30-15h	Emiliano PALLECCHI	Mechanically robust 39 GHz cut-off frequency graphene field effect transistors on flexible substrates
15h-15h15	Bacem Zribi	Large area graphene nanomesh: an artificial platform for edge-electrochemical biosensing at the sub-attomolar level
15H15-15h-30	Abderrahim BAKAK	Etude de la conductivité thermique du nanofluide graphène/glycérol : Effet de la fraction volumique et de la température
15h30 – 16h	Debora PIERUCCI	MoS ₂ /Graphene Van der Waals heterostructures
Pause café (30 mn)		
		Chairman : Emmanuel Lhuillier
16h30-17h00	Benoit MAHLER	Colloidal synthesis of WS ₂ nanosheets: chemical control of morphology and crystal structure
17h-17h30	Talal MALLAH	Nano-hétérostructures de réseaux de coordination : magnétisme, photo-magnétisme et conductivité
17h30-18h00	Sandrine ITHURRIA	Nanoplaquettes de semiconducteur II-VI : une approche chimique pour la synthèse des matériaux 2D
18h00-18h15	Clément LIVACHE	Optoélectronique des nanoplaquettes de HgTe
18h15-18h30	ROUCHDI MUSTAPHA	Spray pyrolysis synthesis of CuxFe1-xS2 and their structural, electronic and optical properties: Experimental and first-principles study
18h30-19h30		Session Poster
19h30		Diner

Mardi "27/02/2018"

		Chairman : Pierre LACHKAR
8h30 – 9h00	Didier Pribat	High quality graphene by epitaxial growth on (111)-oriented Cu thin films
9h-9h30	Julien CHASTE	Mechanical strain engineering by nanostructuring in suspended MoS ₂
9h30-10H00	Hamid OUGHADDOU	Silicene: a new 2D material
10h-10h15	Ali BENGHIA	Elastic properties and mechanical stability of barium based chalcogenides BaM ₄ S ₇ (M = Ga, Al); a DFT and DFT-D study
Pause café 30 mn		
		Chairman : Sandrine Ithurria
10h45-11h15	Thierry BARISIEN	Nanocristaux de perovskites
11h15-11h45	Pedro ALPIUM	Senseur graphene
11h45-12h	Bertille MARTINEZ	HgSe Self-Doped Nanocrystals as a Knob to Probe the Semiconductor to Metal Transition in Nanocrystal Solid
12h -12h15	Iléana FLOREA	Direct imaging of Ni NPs electrodeposition by in situ operando TEM
12h15-12h30	Mohammed Tadout	Engineered Gd-Co based multilayer stack to enhanced magneto-caloric effect and relative cooling power
12h30 -14h Déjeuner		
		Chairman : Didier PRIBAT
14h-14h30	Ismael SAADOUNE	Phosphate-based materials as electrode for high energy density batteries
14h30-15h	Hicham FENNIRI	Engineering Function in Helical Rosette Nanotubes
15h-15h30	Mustapha Jouiad	Large area growth of vertically aligned luminescent MoS ₂ nanosheets as potential candidate for catalysis and bio-sensing
15h30-16h	Mustapha Ait Ali	Chemistry of 2D-nanomaterials: Black phosphorus and phosphorene
Pause café 30 mn		
16h-20h	Temps libre	
20h Diner		
Mercredi 28/02/2018 "Nanomatériaux"		
		Chairman : El-Kebir Hlil
8h30-9h	Najeh Thabet MLIKI	Surface and interparticle interactions effects on nano-cobalt ferrites
9h -9h30	Zouheir SEKKAT	Smart Films of Light Responsive Molecular Machines
9h30-9h45	Roberto Linguerri	Encapsulation of anticancer drug doxorubicin inside dendritic macromolecular cavities: a first-principles study
9h45-10h	Sara Moujdi	Fabrication of surface relief grating on azopolymer films
10h-10h15	Siham Refki	Plasmonic sensing by metal-insolator-metal structures
Pause café 30 mn		
		Chairman : Abdelillah BENYOUSSEF
10h45-11h15	Majdi Hochlaf	Carbon dioxide interaction with isolated imidazole or attached on gold clusters and surface: Size and shape selectivity
11h15 – 11h45	Monssef DRISSI HABTI	Smart Composite Materials for Structural Applications - Effects of Nanomaterials & Nanotechnologies
11h45-12h	Ayoub Abdelkader MEKKAOUI	Preparation of Pd@NP as novel ecofriendly and recyclable catalyst using Pd nanoparticles: Application in hydrogenation and dehydrogenation reactions
12h -12h15	Aicha Elboukili	Investigation of cooling properties of the intermetallic compound AlFe ₂ B ₂ in an AMR cycle system: AB-initio and Monte Carlo calculations
Clôture		
12h30-14h30 Déjeuner et départ		