

## **Tentative Program**

(as of 26/09/2019)

	Monday September 30, 2019	
09:30-10:30	Registration	
10:30-11:00	Opening Ceremony	
	- Antonio Correia - TNT2019 chairman	
	- Director CFM (CSIC-UPV/EHU)	
11:00-11:30	Pablo Ordejón (ICN2, Spain)	K
	Understanding the origin of Charge Density Waves from First-Principles: clearing	
	misconceptions and explaining real materials	
11:30-11:45	Rodrigo Menchón (Donostia International Physics Center, Spain)	0
	Ab initio vibrational properties and isotope effect in H-bonded ferroelectric materials	
11:45-12:00	Ilya Nechaev (Donostia International Physics Center (DIPC), Spain)	0
	Ab initio relativistic k.p models for non-centrosymmetric systems with competing spin-	
	orbit and magnetic exchange interaction	
12:00-12:15	Daniel Jose Arismendi Arrieta (Donostia International Physics Center, Spain)	0
	Large-scale simulations of soft polymeric particles at liquid-liquid interfaces: Effects of	
	network topology on the miscibility of inmiscible solvents	
12:15-12:30	Eva Rauls (Institutt for matematikk og fysikk, Norway)	0
	On-Surface Site-Selective Chemical Conversions Corroles on Ag(111)	
12:30-12:45	Thomas Frederiksen (Donostia International Physics Center, Spain)	0
	Electron beam splitting and interferometry with graphene nanoribbons	
12:45-13:15	Aran Garcia-Lekue (UPV/EHU & DIPC, Spain)	
	Graphene nanoarchitectures: insights from theory and experiments	
13:15-15:00	Lunch	
15:00-15:30	Elvira Fortunato (CENIMAT - Universidade NOVA de Lisboa, Portugal)	К
	Metal oxide materials as a sustainable alternative to low cost and flexible electronics	
15:30-16:00	Eugene Chulkov (CFM, UPV/EHU & DIPC, Spain)	К
	Recent Advances in Physics and Materials Science of Magnetic Topological Insulators	
16:00-16:30	Javier Junquera (Universidad de Cantabria, Spain)	К
	Novel topological phases in ferroelectric materials	
16:30-17:00	Maia Vergniory (DIPC, Spain)	I
	Introducing Topological Quantum Chemistry and Topological Materials Data Base	
17:00-17:15	Mikhail Otrokov (Materials Physics Center (MPC), Spain)	0
	New Universal Type of Interface in the Magnetic Insulator/Topological Insulator Heterostructures	
17:15-18:00	Coffee Break / Poster Session	
18:00-18:30	Celia Rogero (CFM, UPV/EHU & DIPC, Spain)	I
	Polymerization on unconventional substrates	
18:30-18:45	Fabienne Barroso-Bujans (Donostia International Physics Center, Spain)	0
	Subnanometer 2D-confinement of poly(ethylene oxide) in graphene-based materials:	
	effect of polymer topology	
18:45-19:00	Daniel E. Martínez-Tong (University of the Basque Country (UPV/EHU), Spain)	0
	Shaping polymer surfaces by laser interactions: formation and nanomechanical	
1	properties of LIPSS in controlled environments	

	Tuesday October 01, 2019	
09:00-09:15	Adam Rycerz (Jagiellonian University, Institute of Physics, Poland)	0
	Mesoscopic valley filter in graphene Corbino disk containing p-n junction	
09:15-09:45	Jean-Christophe Charlier (UCLouvain, Belgium)	К
	Optical Hall effect and Veselago lensing in Graphene	
09:45-10:00	Michele Pisarra (Imdea Nanociencia, Spain)	0
	Nanostructured graphene catalyzes the reaction between two organic molecules	
10:00-10:15	Aleandro Antidormi (Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain)	0
	Effect of structural disorder and chemical doping on thermal transport in Nanoporous	
	Graphene	
10:15-10:45	Diego Peña (Universidad de Santiago de Compostela, Spain)	К
	Building graphene materials by combining organic synthesis and surface science	
10:45-11:30	Coffee Break / Poster Session	
11:30-12:00	Daniel Neumaier (AMO GmbH, Germany)	к
	Towards wafer-scale fabrication of graphene based electronic, photonic and sensor devices	
12:00-12:30	Amaia Zurutuza (Graphenea, Spain)	
	Graphene Integration Challenges	
12:30-13:00	Stephan Hofmann (University of Cambridge, UK)	К
	Crystal Growth in the Flatland: Growth Mechanisms in 2D Materials and Pathways to	
	Scalable, Controlled Device Integration	
13:00-13:15	Celia Vaquero (TECNALIA, Spain)	0
	Applications of hybrid graphene pastes for functional printing	
13:15-14:15	Cocktail Lunch (offered by TNT2019 organisers)	
14:15-15:00	Poster Session	
<u>14:15-15:00</u> 15:00-15:30	Jose Ignacio Pascual (CIC nanoGUNE, Spain)	К
15:00-15:30	Jose Ignacio Pascual (CIC nanoGUNE, Spain) Magnetism in graphene nanoribbons	
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15:00-15:30 15:30-16:00	Jose Ignacio Pascual (CIC nanoGUNE, Spain) Magnetism in graphene nanoribbons Dimas G. de Oteyza (CFM, UPV/EHU & DIPC, Spain) Probing the magnetism of topological end-states in armchair graphene nanoribbons	I
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	Wednesday October 02, 2019	
09:00-09:30	Peining Li (CIC nanoGUNE, Spain)	Ι
	Infrared hyperbolic metasurface based on nanostructured van der Waals materials	
09:30-10:00	Ullrich Steiner (Adolphe Merkle Institute, Switzerland)	К
	The Interplay of Metasurfaces and Metamaterials	
10:00-10:15	Nerea Zabala (University of the Basque Country UPV-EHU, FCT-ZTF, Spain)	0
	Broad band infrared modulation with spintronic- plasmonic metasurfaces	
10:15-11:00	Coffee Break / Poster session	
	Parallel Session 1 - PhD Students	
11:00-11:15	Michal Bodik (Institute of Physics, Slovak Academy of Sciences, Slovakia)	0
	What will stop the exfoliation of MoS2	
11:15-11:30	Kristina Jajcevic (University of Geneva, Switzerland)	0
	Carbon nanomaterials fabricated with lipid nanotube templates	
11:30-11:45	Jakub T. Domagalski (Unversitat Rovira i Virgili, Spain)	0
	Engineering of Magnetic Nanotubes Based on Nanoporous Anodic Alumina	
11:45-12:00	Amina Kimouche (ICN2, Spain)	0
	Electronic and magnetic properties of an on-surface synthesized 2D metal organic	
	framework	
12:00-12:15	Sonja Krohn (Fraunhofer Institute, Germany)	0
	Synthesis of Elongated CdSe/CdS Core/Shell Nanoparticles Realized on Top of Cubic	
	Crystal Structured Cores	
12:15-12:30	Bruno Hermenegildo (BCMaterials, Basque Center for Materials, Applications and	0
	Nanostructures, Spain)	
	Magnetically active hydrogel microenvironments for tissue stimulation	
12:30-12:45	Maria Kovacova (Polymer Institute, Slovak Academy of Sciences, Slovakia)	0
	New hydrophobic carbon quantum dots mediated antibacterial activity in various	
	polymer matrix	
12:45-13:00	Aaron Lee (Adolphe Merkle Institute, University of Fribourg, Switzerland)	0
	Understanding the role of particle rigidity in nanoparticle-cellular interactions	
13:00-13:15	Lukas Steinmetz (Adolphe Merkle Institute, University of Fribourg, Switzerland)	0
	Lock-in thermography to investigate nanomaterial-cell association trends	
13:15-13:30	Jasim Zia (University of Genoa and Italian Institute of Technology, Italy)	0
	Biocomposite foams as rapid indicators for pH changes	
	Parallel Session 2 - Seniors	
11:00-11:15	Emre Gür (Atatürk University, Turkey)	0
	High Performance of Electrochromic Devices based on WO3 Nanowalls	
11:15-11:30	Yu Kyoung Ryu Cho (ICMM-CSIC, Spain)	0
	p-type-doped WSe2 nanoelectronic devices fabricated by oxidation scanning probe	
	lithography	
11:30-11:45	Özge Saglam (Izmir University of Economics, Turkey)	0
	Oxide Nanosheets Structured Upconverting Nanofilms	
11:45-12:00	Xiaolu Zhuo (CIC biomaGUNE, Spain)	0
	Synthesis of Ultrathin Silver Nanorods and Enhancing Their Stability in Biofluids	
12:00-12:15	Andrey Kovalskii (National university of science and technology "MISiS"/ Laboratory of	0
	inorganic nanomaterials, Russia)	
	Hybrid BN/Au and BN/Pt nanoparticles development as promising catalysts	
12:15-12:30	Guillermo Pozo (VITO, Belgium)	0
	Tailoring magnetic properties of nanoparticles by gas-diffusion electrocrystallization	
	(GDEx)	
12:30-12:45	Eugene Krasovskii (University of the Basque Country, Donostia International Physics	0
	Center, and IKERBASQUE, Spain)	
	Microscopic View on Relativistic Splitting and Spin-Dependent Scattering of Surface States	
12:45-13:00	Ladislau Vekas (Romanian Academy-Timisoara Branch, Romania)	0
	Ferrofluids and ferrofluid based magnetorheological fluids: tuning the flow behavior by	
	micron-size Fe particles and magnetite nanoclusters	
13:00-13:15	Alexei Nazarov (Lashkaryov Institute of Semiconductor Physics NASU, Ukraine)	0
	Plasma Modification of Nanoporous Graphite Films	

13:15-13:30	Carmen Del Hoyo Martinez (Universidad de Salamanca, Spain)	0
	Nanoclays for industrial decontamination applications	
13:30-15:00	Lunch	
15:00-15:30	Josep Samitier (IBEC, Spain)	K
	Surface nanopatterning and 3d architecture of cell aggregation	
15:30-16:00	Aitziber Lopez Cortajarena (CIC Biomagune, Spain)	K
	Bio-inspired nanotechnology: from protein engineering to functional nanomaterials	
16:00-16:30	María del Puerto Morales (ICMM/CSIC, Spain)	K
	Strategies for Shape-Controlled Magnetic Iron Oxide Nanoparticles for biomedical	
	applications	
16:30-17:00	Danny Porath (The Hebrew University of Jerusalem, Israel)	K
	Novel DNA-Based Molecules and Their Charge Transport Properties	
17:00-17:30	Luis Liz-Marzán (CIC biomaGUNE, Spain)	K
	Reversible Surface Charge Control through Supramolecular Chemistry	
17:30-18:00	Coffee Break / Poster Session	
18:00-18:30	Bergoi Ibarlucea (Technische Universität Dresden, Germany)	1
	Single-step Modified Electrodes for Ascorbic Acid Detection in Sweat at Ultralow	
	Potential	
18:30-18:45	Eduardo Gil Santos (IMM-CNM-CSIC, Spain)	0
	Optomechanical biosensors	
18:45-19:00	Oscar Malvar (IMM-CNM-CSIC, Spain)	0
	Mass and stiffness nanomechanical spectrometry	
21:00	Social Dinner - Sidreria Beharri, Narrica 22, 20003 San Sebastián - Donostia	

	Thursday October 03, 2019	_
09:00-09:30	Philippe Lalanne (LP2N-CNRS, France)	K
	Light interaction with nanoresonators: mode volume and quasinormal mode expansion	
09:30-10:00	Javier García de Abajo (ICREA - ICFO, Spain)	K
	Control of Light at the Atomic Scale	
10:00-10:30	Luis Froufe (University of Fribourg, Switzerland)	I
	Light in correlated disordered media	
10:30-11:00	Coffee Break / Poster Session	
11:00-11:30	Javier Aizpurua (CSIC-UPV/EHU and DIPC, Spain)	ł
	Atomic-scale interactions in plasmon-enhanced molecular spectroscopy	
11:30-12:00	Antonio Garcia-Martin (IMN-CNM-CSIC, Spain)	ł
	Sensing Performance of Hybrid Magnetoplasmonic Systems	
12:00-12:30	Marek Grzelczak (DIPC, Spain)	ł
	Plasmon-assisted photoregeneration of biomolecules.	
12:30-12:45	Rafael Ramírez-Jiménez (Universidad Carlos III de Madrid, Spain)	(
	SERS in the ultra-small limit: size and interparticle distance effects	
12:45-13:15	Manuel Marques (UAM, Spain)	
	Magneto-optical Stren-Gerlach forces and non-reciprocal torques on small particles	
13:15-13:30	Rodica Turcu (National Institute for Research and Development of Isotopic and Molecular	(
	Technologies, Romania)	
	Magnetoresponsive nanosystems with controlled morphology and surface functionalization	
13:30-15:00	Lunch	_
15:00-15:30	Pedro David García (ICN2, Spain)	
	Optomechanical interaction driven by complexity	
15:30-16:00	Guillermo Acuna (Université de Fribourg, Switzerland)	
	DNA origami nanotools for nanophotonics	
16:00-16:30	Lluis F. Marsal (Universitat Rovira i Virgili, Spain)	ł
	Tunable Multispectral Photonic Stopbands Based on Structurally Engineered Nanoporous	
	Anodic Alumina	
16:30-17:00	Coffee Break / Poster Session	<u> </u>
17:00-17:30	Marek A. Kolmer (Oak Ridge National Laboratory, USA)	ł
	Two-probe scanning tunneling spectroscopy as a tool for studying quantum transport at	
	the atomic-level	
17:30-17:45	Pedro Brandimarte (Donostia International Physics Center, Spain)	
	Multi-probe scanning tunneling spectroscopy for in-plane electronic transport: theory	(
	and experiment	
17:45-18:15	Carole Fauquet (CINAM, France)	
	Coupling X-ray spectroscopy and Scanning Probe Microscopy	
18:15-18:30	Didier Tonneau (CINAM, France)	(
	High lateral resolution fibered sensor for dosimetry at high energies	
18:30-19:00	Nicolas Lorente (CFM/CSIC - UPV/EHU, Spain)	H
	Electronic correlations in excitations revealed by the scanning tunneling microscope	
19:00-19:15	Arvaidas Galdikas (Kaunas University of Technology, Lithuania)	(

	Friday October 04, 2019	
09:00-09:30	Miguel M. Ugeda (CSIC-UPV/EHU and DIPC, Spain)	
	Visualization of multifractal superconductivity in a two-dimensional transition metal	K
	dichalcogenide in the weak-disorder regime	
09:30-09:45	Yia-Chung Chang (Academia Sinica, Taiwan)	0
	Exciton Coupled to Fermi-Sea Polarizations in Semiconductor Quantum Wells and	
	Transition-Metal Dichalcogenides	
09:45-10:15	Peter Bøggild (DTU Nanotech, Denmark)	K
	Quantum transport in nanopatterned graphene - without killing the patient	
10:15-10:45	Julio Gomez-Herrero (UAM, Spain)	K
	Manipulating gold nanowires to probe electrical properties at the nanoscale: few-layer	
	antimonene as a case study	
10:45-11:30	Coffee Break / Poster Session	
11:30-12:00	Gabriel Molina-Terriza (DIPC, Spain)	K
	Quantum nanophotonics: using nanostructures to manipulate photons	
12:00-12:30	Géza Giedke (DIPC, Spain)	K
	Wigner crystals in transition-metal dichalcogenides: optical detection and quantum	
	simulation	
12:30-13:00	Shiue-Yuan Shiau (DIPC, Spain)	I
	Composite-boson signature of atomic dimers in the interference pattern of colliding	
	condensates	
13:00-13:30	Jorge Lobo Checa (ICMA-CSIC-UZ, Spain)	
	Tailoring quantum confinement using extended organic nanoporous networks	
13:30		