

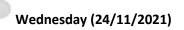
TENTATIVE PROGRAM (as of 22/11/2021)

P: Plenary / K: Keynote lecture / I: Invited Lecture / O: Oral contribution



Tuesday (23/11/2021)	
08:00 – 09:00: Registration	
09:00 – 09:15: Opening Ceremony	
09:15 – 09:30: Adolfo Morais Ezquerro (Basque Government, Spain)	
The Basque Country IKUR Strategy 2030 in Quantum Technologies	_
09:30 – 10:15: Ignacio Cirac (Max Planck Institute of Quantum Optics, Germany)	Р
Quantum computers and many-body systems	
10:15– 11:15: Coffee Break / Poster Session / Exhibition	
11:15 – 12:00: Tommaso Calarco (Forschungszentrum Jülich, Germany)	Р
The European Quantum initiative: from a flagship to a fleet	
12:00 – 12:45: Andrea Ferrari (Cambridge Graphene Centre, University of Cambridge, UK)	Р
The Graphene Flagship: The First 10 years	
12:45 – 13:00: Yolanda de Miguel (Tecnalia, Spain)	
Nanotechnology at the Basque Research and Technology Alliance (BRTA)	
13:00 – 14:00: Cocktail lunch (offered by Imaginenano2021)	
14:00 – 14:30: <i>Poster session</i>	
Chairperson: Manuel Vázquez Sulleiro (IMDEA, Spain)	
14:30 – 15:00: Felix Casanova (CIC nanoGUNE, Spain)	K
Spin-orbit proximity in van der Waals heterostructures	
15:00 – 15:15: Raúl Guerrero (DIPC, Spain)	C
Spin-momentum Locking in Defect Line Array Bilayer Graphene under Gate Voltage and n-doping	
15:15 – 15:30: Daniel Sanchez Portal (CFM-CSIC / EHU, Spain)	C
Boron Substitution in Graphene Nanoribbons: One-dimensional Spin Chains with Tuneable Interactions	
15:30 – 15:50: Jose Hugo Garcia Aguilar (ICN2, Spain)	- 1
Low-symmetry materials for Spintronics	
15:50 – 16:20: Francesco Bonaccorso (Bedimensional, Italy)	K
Industrial exploitation of 2D crystals	
16:20 – 16:40: Daniel Carriazo (CIC EnergiGUNE, Spain)	I
Graphene-based materials in next generation electrochemical capacitors	
16:40 – 17:00: Adelina Braun (Merck, Germany)	I
Innovative 2D Nanomaterials for Electronics and Energy Storage	
17:00 – 17:30: Coffee Break / ePoster Session / Exhibition	
Chairperson: Jose Hugo Garcia Aguilar (ICN2, Spain)	
17:30 – 17:50: Thomas Alava (CEA, France)	1
Sensing and modifying biological objects with graphene surfaces through versatile non-covalent biological	
functionalization	
17:50 – 18:05: Artur Moreira Pinto (LEPABE, University of Porto, Portugal)	C
New method for nanographene oxide high yield production and its biomedical applications	
18:05 – 18:20: Gabriele Boschetto (CNRS-LIRMM, University of Montpellier, France)	C

MoS2 as the Sensing Platform for the Non-Enzymatic Detection of Cortisol: A First-Principles Study



Chairperson: Enrique Diez Fernández (University of Salamanca, Spain)	
09:00 – 09:20: Manuel Vázquez Sulleiro (IMDEA, Spain)	- 1
A Chemical Approach to Graphene-MoS2 Heterostructures Beyond Van Der Waals	
09:20 – 09:50: Eugenio Coronado (ICMOL - Universidad de Valencia, Spain)	K
2D magnetic molecular materials	
09:50– 10:50: Coffee Break / Poster Session / Exhibition	
Chairperson: Eugenio Coronado (ICMOL - Universidad de Valencia, Spain)	
10:50 – 11:20: Vladimir Falko (National Graphene Institute, University of Manchester, UK)	K
Ferroelectric and piezoelectric networks in twistronic bilayers of transition metal dichalcogenides	
11:20 – 11:40: Enrique Diez Fernández (University of Salamanca, Spain)	1
Broken symmetries in heterostructures based on 2D materials	
11:40 – 12:00: Moshe Ben Shalom (Tel Aviv University, Israel)	I
Slide-Tronics	
12:00 – 12:15: Andrés Ayuela (DIPC, CFM-MPC, Spain)	0
Relative Stability of Bernal and Rhombohedral Stackings in Trilayer Graphene under Distortions	
12:15 – 12:30: Rodrigo Aguilera (DIPC: Donostia International Physics Center, Spain)	0
Distorsion and electronic structures in two-dimensional magnetic ilmenenes systems	
12:30 – 12:45: Aleandro Antidormi (ICN2, Catalan Institute of NanoScience and Nanotechnology, Spain)	Ο
Fundamentals of thermal properties of amorphous sp2 carbon monolayers	
12:45 – 13:00: Jesus Gonzalez (Universidad de Cantabria, Spain)	0
Non- Hydrostatic Pressure dependence of Raman modes in Monolayer Graphene	
13:00 – 14:30: Lunch Break	
Chairmanann, Macha Dan Chalana (Tal Aviiv University, Janual)	
Chairperson: Moshe Ben Shalom (Tel Aviv University, Israel)	
14:30 – 14:50: Julio Gomez Cordon (Avanzare, Spain)	1
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17:50 Closing