

29 May – 04 June 2016, Campofelice di Roccella, Sicily, Italy

Program

Sunday 29.05.2016

Arrival of the participants to *Fiesta Garden Beach hotel (Campofelice di Roccella, Sicily)*

20:00

Welcoming of the participants.

Monday 30 .05.2016

		Chair:	Guillaume Cassaboïs
09:00	09:30	Yasuhiko Arakawa	Solid-state cavity-QED in a single quantum dot with a photonic crystal nanocavity
09:30	10:00	Mikhail Vasilevskiy	Exciton polaritons in a microcavity with two-dimensional dichalcogenide layers
10:00	10:30	Mikhail Portnoi	Zero-energy vortices in two-dimensional Weyl semimetal
10:30	11:00	Jelena Klinovaja	Engineering Topological Quantum States: From 1D to 2D
11:00	11:30		Coffee break
		Chair:	Yasuhiko Arakawa
11:30	12:00	Bernard Gil	t.b.c.
12:00	12:30	Guillaume Cassaboïs	Unraveling the bandgap nature in hexagonal boron nitride
12:30	13:00	Xavier Marie	Exciton and Valley Dynamics in MoS ₂ , MoSe ₂ and WSe ₂ monolayers
13:00	15:00		Lunch
		Chair:	Bernard Gil
15:00	15:30	Tatiana Shubina	Förster resonant energy transfer: a new insight into optical properties of II-VI fractional monolayer structures
15:30	16:00	Alessandro Braggio	Topological phase transitions detected with Josephson current-phase Discontinuities
16:00	16:30	Fabien Vialla	Visible and near-infrared photodetection in van der Waals heterostructures
16:30	17:00		Coffee break

Tuesday 31 .05.2016

		Chair:	Hai Son Nguyen
09:00	09:30	Jiannong Wang	A study of lateral Schottky contacts in WSe ₂ and MoS ₂ field effect transistors using scanning photocurrent microscopy
09:30	10:00	Christian Schneider	Room temperature Tamm-Plasmon Exciton-Polaritons with a WSe ₂ monolayer
10:00	10:30	Andre Neumann	Opto-valleytronic imaging of atomically thin semiconductors
10:30	11:00	Zhanghai Chen	t.b.c.
11:00	11:30		Coffee break
		Chair:	Ming-Wei Wu
11:30	12:00	Klaus Ensslin	Mesoscopic Coulomb drag in graphene quantum devices
12:00	12:30	Sergei V. Novikov	High temperature molecular beam epitaxy of graphene on sapphire and h-BN
12:30	13:00	Ramon Cuscó	Temperature dependence of Raman scattering in BN: an insight into phonon anharmonic interactions in layered crystals
13:00	15:00		Lunch
		Chair:	Sergei V. Novikov
15:00	15:30	Hai Son Nguyen	Two-dimensional hybrid perovskites in microcavity: from 2D to 0D perovskite polaritons
15:30	16:00	Ming-Wei Wu	Spin and valley dynamics in transition metal dichalcogenides
16:30	17:00		Coffee break

Wednesday 01.06.2016

Sightseeing day, departure at 8.00 a.m.

Excursion: *the Valley of Temples in Agrigento*

Thursday 02.06.2016

		Chair:	Alexey Kavokin
08:45	09:15	Sven Hoefling	Phonon induced line broadening and population of the dark exciton in a deeply trapped localized emitter in monolayer WSe ₂

09:15	09:45	Pawel Hawrylak	Electronic Structure, Magneto-excitons and Valley Polarized Electron Gas in 2D Semiconductors MoS2 and WS2
09:45	10:15	Atac Imamoglu	Polaritons in two dimensional electron systems
10:15	10:45	Alexander Tartakovskii	Photonics and polaritonics with van der Waals heterostructures
10:45	11:30	Coffee break	
		Chair:	Paul Eastham
11:30	12:00	Egor Muljarov	Excitons and microcavity polaritons in coupled quantum wells in electric and magnetic fields
12:00	12:30	Fabio Ronci	Reviewing silicene growth on silver substrates
12:30	13:00	Adam Babinski	Raman scattering in few-layer MoTe2
13:00	15:00	Lunch	
		Chair:	Egor Muljarov
15:00	15:30	Paul Eastham	Spinning the 2D electromagnetic field
15:30	16:00	Brian Gerardot	Resonant laser spectroscopy of localized bright and dark excitons in monolayer Wse2
16:30	17:00	Coffee break	
18:00	Departure for the Social Dinner at 18.00		

Friday 03.06.2016			
		Chair:	Olivia Pulci
09:00	09:30	Alexey Kavokin	Quantization of entropy in a quasi-2D electron gas
09:30	10:00	Daniel Wolverson	The rhenium dichalcogenides
10:00	10:30	Igor Bondarev	Monopolar charge fluctuation induced forces in 2D graphitic nanostructures
10:30	11:00	Pierre Renucci	Electrical spin injection in Cobalt/MoS2hybrid systems
11:00	11:30	Coffee break	
		Chair:	Jochen Feldmann
11:30	12:00	Olivia Pulci	Physics of 2D Crystals: a study on III-Nitrides
12:00	12:30	Annette Plaut	Self-limiting molecular beam epitaxial growth of graphene on hexagonal boron nitride
12:30	13:00	Ming-Wei Wu	Spin Dynamics in Transition Metal Dichalcogenides
13:00	15:00	Lunch	
		Chair:	Alexey Kavokin
15:00	15:30	Jochen Feldmann	Quantum Size Effects in Halide Perovskite Nanoplatelets
15:30	16:00		Closing session
16:30	17:00	Grappa break	

Saturday 04.06.2016			
Departure of the participants			