

IV International School of Nanophotonics and Photovoltaics

September 17-24, 2011 - MARATEA, Italy

Program

17.09.2011		Speaker	Title of lecture
Arrival and Registration of the participants at the Hotel Villa del Mare			
13:00	14:30	Lunch	
14:45	15:00	Welcoming words by the Chairman of ISNP-2011 Prof. Aldo Di Carlo	
15:00	15:45	Alexey Efros	"Einstein relation for interacting particles, Ambipolar diffusion and Dember field"
16:00	16:45	Alexey Efros	"Einstein relation for interacting particles, Ambipolar diffusion and Dember field"
16:45	17:00	Coffee break	
17:00	17:45	Vladimir Kalevich	"Spin-dependent recombination in semiconductors"
18:00	18:45	Alexander Tartakovskii	"Nuclear spin effects in semiconductor quantum dots"
20:00		Dinner	

18.09.2011		Speaker	Title of lecture
09:00	09:45	Mikhail Portnoi	"Optical properties of graphene and carbon nanotubes"
10:00	10:45	Mikhail Portnoi	"Optical properties of graphene and carbon nanotubes"
10:45	11:00	Coffee break	
11:00	11:45	Luis Vina	"Polariton bullets"
12:00	12:45	Luis Vina	"Polariton bullets"
13:00	14:30	Lunch	
15:00	15:45	Leonid Butov	"Spontaneous coherence and spin texture in a cold exciton gas"
16:00	16:45	Leonid Butov	"Spontaneous coherence and spin texture in a cold exciton gas"
16:45	17:00	Coffee break	
17:00	17:45	Arup Neogi	"Role of electrostatics in nano-plasmonic light emitters"

19.09.2011		Speaker	Title of lecture
09:00	09:45	Paul Eastham	"Adiabatic control of many-particle states in coupled quantum dots"
10:00	10:45	Mikhail Kaliteevskii	"Polaritonic THz devices"
10:45	11:00	Coffee break	
11:00	11:45	Andrey Varlamov	"Nernst-Ettingshausen effect"
12:00	12:45	Masha Vladimirova	"Faraday rotation in semiconductors"
13:00	14:30	Lunch	
16:00	16:45	Poster session	
17:00	17:45	Poster session	
18:00	18:15	Coffee break	
19:00		Football game	

20.09.2011		Speaker	Title of lecture
09:00	09:45	Bernard Gil	"Optical properties of low-dimensional systems based on Zinc oxide"
10:00	10:45	Bernard Gil	"Optical properties of low-dimensional systems based on Zinc oxide"
10:45	11:00	Coffee break	
11:00	11:45	Sergei Gavrilov	"Multistability and nonequilibrium transitions in a resonantly driven system of cavity polaritons"
12:00	12:45	Olivia Pulci	"Ab-initio calculation of excitons in complex systems"
13:00	14:30	Lunch	
15:00	15:45	Aldo Di Carlo	"Organic photovoltaics"
16:00	16:45	Alexey Kavokin	"Light frozen in glass"
16:45	17:00	Coffee break	
17:00	17:45	Project meeting ROBOCON	
18:00	18:45	Project meeting ROBOCON	
20:00		Social dinner. Dancing Hall	

21.09.2011	
Sightseeing Day — Visiting CERTUSA DI PADULA GROTTA DI PERTOSA	

22.09.2011		Speaker	Title of lecture
09:00	09:45	Natalia Berloff	"Quantum liquids"
10:00	10:45	Natalia Berloff	"Quantum liquids"
10:45	11:00	Coffee break	
11:00	11:45	Jacqueline Bloch	"Polariton dynamics in stripes"
12:00	12:45	Jacqueline Bloch	"Polariton dynamics in stripes"
13:00	14:30	Lunch	
15:00	15:45	Giuseppe Scarpa	"Novel (bio)sensing devices based on solution-processable organic materials"
16:00	16:45	Giuseppe Scarpa	"Novel (bio)sensing devices based on solution-processable organic materials"
16:15	17:00	Coffee break	
17:00	17:45	Alberto Vomiero	"Quantum dot excitonic solar cells"
18:00	18:45	Guillaume Malpuech	"Spin effects in polariton condensates: from half-solitons to black holes"
20:00		Football game	

23.09.2011		Speaker	Title of lecture
09:00	09:45	Axel Hoffmann	"Electron-phonon interaction in quantum dot structures based on arsenides and nitrides"
10:00	10:45	Giuseppe Gigli	"Hybrid solar cells based on colloidal nanocrystals"
10:45	11:00	Coffee break	
11:00	11:45	Alois Krost	"GaN on Si: towards general lighting"
12:00	12:45	Alois Krost	"GaN on Si: towards general lighting"
13:00	14:30	Lunch	
15:00	15:45	Juergen Christen	"Nano-scale Characterization of Nitrides using Helium Temperature Scanning Transmission Electron Microscopy Cathodoluminescence"
16:00	16:45	Juergen Christen	"Nano-scale Characterization of Nitrides using Helium Temperature Scanning Transmission Electron Microscopy Cathodoluminescence"
17:00	17:45	Igor Luykanchuk	"Dirac fermions: history of the Nobel Prize 2010"
18:00	18:45		
20:00		Dinner, Dancing Hall	

24.09.2011	
Departure day	