



	Monday 28
9:20 - 9:30	Inauguration Speech in Spanish by Victor S. Batista, Yale University, USA, Effectos cuanticos en el corazon fotocatalitico biologico.
9:30 - 9:40	BREAK
	Chair: Giuseppe Luca Celardo
9:40 - 10:20	Richard Cogdell, University of Glasgow, UK, Does light harvesting by Anaerobic Photosynthetic Bacteria show any functionally important 'Strange Quantum effects'?
10:20 - 11:00	Victor S. Batista, Yale University, USA, Studies of Natural and Artificial Photosynthesis.
11:00- 11:30	COFFEE BREAK
11:30- 12:10	Elisabet Romero, ICIQ, Spain, Quantum Coherence in Photosynthetic Reaction Centers and What to Do with It.
12:10- 12:50	Daniel Manzano, University of Granada, Spain, Harnessing symmetry to control quantum transport. Applications to biological compounds.
12:50- 13:10	Susannah Bourne-Worster, University of Bristol, UK, Structure and efficiency in bacterial photosynthetic light harvesting.
13:10- 13:30	Alejandro D. Somoza, Ulm University, Germany, Dissipation-Assisted Matrix Product Factorization.
13:30- 15:40	LUNCH
	Chair:Richard Cogdell
15:40- 16:20	Andreas Buchleitner, University of Freiburg, Germany, Quantum transport on disordered networks - from single to many particles.
16:20- 17:00	Yonatan Dubi, Ben-Gurion University, Israel, Environment assisted quantum transport – universality, disorder and interactions.
17:00- 17:30	COFFEE BREAK
17:30- 17:50	Fernando Rojas, CNyN UNAM, Mexico, Local Quantum Uncertainty (subsystem discord-like correlations) as a resource for quantum transport efficiency in chromophore networks of light harvesting systems.



	THEODAY OF
	TUESDAY 29
	Chair: David Jonas
9:00 - 9:40	Jianshu Cao, MIT, USA, Quantum Coherence in Light-harvesting Energy Transfer.
9:40 - 10:00	Georg Engelhardt, Beijing Computational Science Research Center, China, Analytical calculation of the 2D spectrum in a vibrationally coupled homodimer based on the polaron transformation.
10:00 - 10:20	Lev Mourokh, CUNY, USA, Physical nanoscale models for biological and bio-inspired structures.
10:20- 11:00	Tomas Mancal, Charles University, Czech Republic, System-bath entanglement and thermodynamic behaviour of Frenkel exciton systems.
11:00- 11:30	COFFEE BREAK
11:30- 12:10	Jasper Knoester, University of Groningen, The Netherlands, Structure-function relationship of tubular molecular aggregates.
12:10- 12:30	Francesco Mattiotti, UCSC, Italy, Macroscopic coherence as an emergent property in molecular nanotubes.
12:30- 12:50	Anton Trushechkin, Steklov Mathematical Institute, Russia, Calculation of coherences in Förster and modified Redfield theories with applications in spectroscopy.
12:50- 13:30	Philip Kurian, Howard University, USA, New horizons in quantum biology: Emergence and coherence in living matter.
13:30- 15:40	LUNCH
	Chair: Philip Kurian
15:40- 16:00	Sourabh Kumar, University of Calgary, Canada, Are there optical communication channels in the brain?
16:00- 16:20	Betony Adams, University of KwaZulu-Natal, South Africa, An open quantum systems approach to entangled Posner molecules.
16:20- 16:40	Christopher Rourk, Indication of quantum mechanical electron transport in substantia nigra tissue from conductive atomic force microscopy tests.



	TUESDAY 29
16.40 - 17:10	COFFEE BREAK
17.10 - 19:30	POSTER SECTION AND COCKTAIL PARTY (Edificio Carolino)
	WEDNESDAY 30
	Chair: Jianshu Cao
9:00- 9:40	David Jonas, University of Colorado, Boulder, USA Insights into Photosynthetic Light Harvesting from 2D Femtosecond Spectroscopy.
9:40- 10:00	Yuval Kolodny, The Hebrew University of Jerusalem, Israel, Do Vibrational Modes Assist Energy Transfer? Experimental Evidence in Quantum Dot Dimers.
10:00- 10:20	Andrea Mattioni, Ulm University, Germany, Impact of phonon-mediated excitonic interaction on absorption spectra in Photosynthesis.
10:20- 11:00	Vladimiro Mujica, Arizona State University, USA Long Distance Electron Transfer in Chiral Bio-Molecules.
11:00- 11:30	COFFEE BREAK
11:30- 11:50	Daniel Finkelstein-Shapiro, Lund University, Sweden, Relaxation Mechanisms of Chromophores Strongly Coupled to Metals in Plasmonic Realizations of Cavity Quantum Electrodynamics.
11:50- 12:10	Lorenzo Cupellini, University of Pisa, Italy, Charge-transfer excitons in light-harvesting complexes.
12:10- 12:30	Thorsten Hansen, University of Copenhagen, Denmark, Coherent spectroscopy of electron transfer processes.
12:30- 13:10	Libai Huang, Purdue University, USA, Exciton transport in molecular aggregates imaged by ultrafast microscopy.
13:10- 13:30	LUNCH BOX
14:30- 20:00	EXCURSION TO CHOLULA
20:30	SOCIAL DINNER (CASA DEL MENDRUGO)



'ROGRAM

	THURSDAY 31
	Chair: Shaul Mukamel
9:00 - 9:40	Erik Gauger, Heriot-Watt University, UK, Biologically-inspired quantum-enhanced photocells.
9:40 - 10:20	Francois Leonard, Sandia National Laboratories, USA, Novel Quantum and Bio-inspired Designs for Photon Detection.
10:20 - 11:00	Nicola Piovella, University of Milan, Italy, Sun-light pumped lasing with dimers.
11:00- 11:30	COFFEE BREAK
11:30- 11:50	Joseph Broz, Berkeley University, USA, On Analog Simulation of the Spin-Boson Model in a Trapped Ion Platform.
11:50- 12:10	Giulio Giusteri, University of Padova, Italy, Interplay of different environments in open quantum systems.
12:10- 12:30	Adrian Ortega, University of Guadalajara, Mexico, Robustness of optimal transport in disordered interacting many-body networks.
12:30- 12:50	Philipp Stegmann, University of Duisburg-Essen, Germany, Hidden dynamics in stochastic processes revealed by full counting statistics.
12:50- 13:10	Aleksei Melkikh, Ural Federal University, Russia, Energy conversion efficiency in the cell and non-trivial quantum effects in the work of molecular machines.
13:10- 15:20	LUNCH
	Chair: Erik Gauger
15:20- 15:40	Zhedong Zhang, Texas A&M, USA Collective motion of THz phonons in living matters.
15:40- 16:00	Howe-Siang Tan, Nanyang Technological University, Singapore, Revealing the Ultrafast Excitation Energy Transfer Network in LHCII.
16:00- 17:00	CLOSING CONFERENCE Shaul Mukamel, University of California, Irvine, USA, Ultrafast spectroscopy and imaging of molecules with x-ray pulses and quantum light.
17:00- 17:30	COFFEE BREAK