1st Symposium GPR LIGHT / LIGHT S&T

Thursday 17th November 2022

ICMCB
87 av. Docteur Albert Schweitzer, Talence
Tram B, Doyen Brus

09:00 - Introduction GPR LIGHT		
Thrust 1 Extreme states of light and matter	09:15	*Introduction Thrust 1*
	09:25	**Scattering of entangled photons from nanostructures** > Gabriel MOLINA-TERRIZA, Materials Physics Center UPV/EHU
	10:00	**Magnetohydrodynamic and kinetic studies in high energy density magnetized plasmas towards magneto-inertial fusion** > Joao SANTOS, CELIA UBx
	10:25	**Development of simulation tools to realize an active Thomson Parabola** > Arnaud HUBER, LP2I UBx
10:40 - Coffee break		
Thrust 4 Hybridization in biophotonics and imaging	11:00	*Introduction Thrust 4*
	11:10	**Using Light for interrogation of neuronal circuits** > Eirini PAPAGIAKOUMOU, Institut de la vision Paris – Photonics department
	11:45	**Cryo-electron microscopy, a powerful tool to study the molecular architecture of biomolecular machines in vitro and in vivo** > Remi FRONZES, IECB UBx
	12:10	**Super-resolution and single molecule imaging reveal topographical control of integrin diffusion in building stable muscle-tendon adhesion** > Tianchi CHEN, IINS UBx
12:25 - Lunch		

Thrust 2 Hybrid Systems for Quantum Technologies	14:00	*Introduction Thrust 2*
	14:10	**Quantum approaches to nanocavity-enhanced molecular spectroscopy** > Javier AIZPURUA, Materials Physics Center UPV/EHU
	14:45	**Giant Diffusion of Nanomechanical Rotors in a Tilted Washboard Potential** > Yann LOUYER, LOMA UBx
	15:10	**Tailoring the degree of entanglement between two coherently coupled quantum emitters** > Quentin DEPLANO, LP2N UBx
Thrust 3 Downsize all Optics in One	15:25	**Instrumentation par fibre optique pour les environnements sévères au CEA List** > Guillaume LAFFONT, Lab. Capteurs Fibres Optiques CEA
16:00 - Coffee break		
	16:20	*Introduction Thrust 3*
	16:30	**Second-Order Non Linear Optical/Magneto-optical Techniques: Towards Efficient Chiroptical Techniques** > Vincent RODRIGUEZ, ISM UBx
	16:55	**Innovative Downsize OpticaL Integrated Structures for Evanescent-baseD sensing solutions (IDOLISED)** > Pauline GIRAULT, IMS UBx
17:10 - end		