

1st Symposium GPR LIGHT / LIGHT^{S&T}

Thursday 17th November 2022



ICMCB

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

09h00 - Introduction GPR LIGHT

Thrust 1 Extreme states of light and matter	09h10	<i>Introduction Thrust 1</i>
	09h20	Scattering of entangled photons from nanostructures > Gabriel MOLINA-TERRIZA, Materials Physics Center UPV/EHU
	09h55	Magnetohydrodynamic and kinetic studies in high energy density magnetized plasmas towards magneto-inertial fusion > Joao SANTOS, CELIA UBx
	10h25	Development of simulation tools to realize an active Thomson Parabola > Arnaud HUBER, LP2I UBx

10h40 - Pause Café

Thrust 4 Hybridization in biophotonics and imaging	11h00	<i>Introduction Thrust 4</i>
	11h10	Using Light for interrogation of neuronal circuits > Eirini PAPAGIAKOUMOU, Institut de la vision Paris - Photonics department
	11h45	Cryo-electron microscopy, a powerful tool to study the molecular architecture of biomolecular machines in vitro and in vivo > Remi FRONZES, IECB UBx
	12h10	Super-resolution and single molecule imaging reveal topographical control of integrin diffusion in building stable muscle-tendon adhesion > Tianchi CHEN, IINS UBx

12h30 - Déjeuner buffet

14h00 *Introduction Thrust 2*

Thrust 2
Hybrid
Systems for
Quantum
Technologies

14h10	Quantum approaches to nanocavity-enhanced molecular spectroscopy > Javier AIZPURUA, Materials Physics Center UPV/EHU
14h45	Giant Diffusion of Nanomechanical Rotors in a Tilted Washboard Potential > Yann LOUYER, LOMA UBx
15h15	Tailoring the degree of entanglement between two coherently coupled quantum emitters > Quentin DEPLANO, LP2N UBx

15h30 - Pause café

Thrust 3 Downsize all Optics in One	15h50	<i>Introduction Thrust 3</i>
	16h00	Instrumentation par fibre optique pour les environnements sévères au CEA List > Guillaume LAFFONT, Lab. Capteurs Fibres Optiques CEA
	16h35	Second-Order Non Linear Optical/Magneto-optical Techniques: Towards Efficient Chiroptical Techniques > Vincent RODRIGUEZ, ISM UBx
	17h05	Innovative Downsize Optical Integrated Structures for Evanescent-based sensing solutions (IDOLISED) > Pauline GIRAULT, IMS UBx

17h20 - fin