

Club des Partenaires Industriels :



## Réunion Plénière du GDR U.P 2021

Lundi 22 novembre 2021

09h00-10h00	ACCUEIL / CAFE	
10h00-10h30	Bureau du GDR U.P	Introduction
ULTRAFAST DYNAMICS IN THE GAS PHASE		
10h30-10h50	Lou Barreau (ISMO, Orsay)	Multimode vibration in CO <sub>2</sub> observed with few-fs Xray transient absorption to the C 1s <sup>-1</sup> 2π <sub>u</sub> state
10h50-11h10	Jean-Nicolas Vigneau (ISMO, Orsay)	Strong-Field Molecular Ionization beyond the Single Active Electron approximation
11h10-11h30	Joubert Dorioi (MSME, Marne-la-Vallée)	Should we abandon adiabatic states to describe ultrafast molecular dynamics?
11h30-11h50	Baptiste Fabre (CELIA, Bordeaux)	Time-Resolved Photoelectron Circular Dichroism
11h50-12h10	Mekha Vimal (LIDYL, Saclay)	General scaling law of non collinear high harmonic generation and its applications
12h10-12h30	Quentin Bournet (AMPLITUDE /IOGS)	Ultra-broadband, tunable (4-10 μm) mid-IR source based on intrapulse difference-frequency generation
12h30-14h00	REPAS / EXPOSANTS	
ULTRAFAST DYNAMICS IN NANOSTRUCTURES AND SURFACES		
14h00-14h20	Sophie Meuret (CEMES, Toulouse)	Time-Resolved Cathodoluminescence in an Ultrafast Transmission Electron microscope
14h20-14h40	Jon Gorchon (Institut Jean Lamour, Nancy)	Ultrafast spin currents: a new toolbox
14h40-15h00	Elsa Cassette (LUMIN, Orsay)	Ultrafast relaxation of hot excitons in colloidal 2D perovskite nanoplatelets: carrier-induced Stark and phonon bottleneck effects
15h00-15h20	Tatiana Itina (LHC, Saint-Etienne)	Numerical studies of thermoplasmonic effects and nanoalloy formation in ultra-short laser interactions with nanoparticles
15h20-15h40	Sven Fröhlich (LIDYL, Saclay)	Self-probed ptychography from semiconductor high-harmonic generation
15h40-16h10	PAUSE CAFÉ / EXPOSANTS	

<b>ULTRAFAST DYNAMICS IN MATERIALS</b>		
16h10-16h30	<i>Samuel Beaulieu (CELIA, Bordeaux)</i>	Time-Resolved Multidimensional Photoemission Spectroscopy of 2D Material
16h30-16h50	<i>G. Huitric (IPR, Rennes)</i>	TeraHertz vs Optical pump generated strain waves profiles in V <sub>2</sub> O <sub>3</sub> Metallic thin film
16h50-17h10	<i>A. Levchuk (IMMM, Le Mans)</i>	Identifying different contributions to the ultrafast spin-to-charge conversion : Experimental approach
17h10-17h30	<i>Romain Géneaux (LIDYL, Saclay)</i>	Condensed matter dynamics probed with attosecond transient absorption spectroscopy
17h30-19h00	<i>Session Poster / Cocktail</i>	
19h00-20h30	<i>Cocktail</i>	

## Mardi 23 novembre 2021

<b>GAS PHASE EXPERIMENTS AT FREE ELECTRON LASERS</b>		
9h00-9h20	<i>Nora Berrah (Univ. of Connecticut/ LIDYL)</i>	Time-Resolved Dynamics in Molecules
9h20-9h40	<i>John Bozek (Sync. SOLEIL, Saint-Aubin)</i>	TRÉSOR – Time-Resolved Electron Spectroscopy for Original Research – at the European XFEL
9h40-10h00	<i>Saikat Nandi (ILM, Lyon)</i>	Unraveling ultrafast Rabi dynamics with a seeded free-electron laser
10h00-10h30	<i>PAUSE CAFÉ / EXPOSANTS</i>	
<b>ULTRAFAST DYNAMICS IN MOLECULES IN CONDENSED PHASE</b>		
10h30-10h50	<i>Pascale Chaugenet (LOB, Palaiseau)</i>	Multiscale conformational dynamics probed by time-resolved circular dichroism
10h50-11h10	<i>Marc Allas-Rodriguez (ICR, Marseille)</i>	Revealing the ultrafast intersystem crossing in xanthone using wave packet quantum simulations
11h10-11h30	<i>Robin Pierron (IPCMS, Strasbourg)</i>	Towards 2D electronic spectroscopy of vibrational coherences in molecular motors and photoswitches
11h30-11h50	<i>Aurélien de la Lande (ICP, Orsay)</i>	The Mystery of Sub-Picosecond Charge Transfer Following Irradiation of Hydrated Uridine Monophosphate
11h50-12h10	<i>Bo Zhuang (LOB, Palaiseau)</i>	Ultrafast Photooxidation of Protein-Bound Anionic Flavin Radical
12h10-12h30	<i>Yoann PERTOT (FASTLITE)</i>	CEP-stable infrared OPCPA sources
12h30-14h00	<i>REPAS / Session Poster / EXPOSANTS</i>	

<b>ULTRAFAST PROCESSES</b>		
14h00-14h20	<i>Claire Lauhlé (SOLEIL, Saint-Aubin)</i>	Photoinduced charge density wave phase in <sup>1</sup> T-TaS <sub>2</sub> : growth and coarsening mechanisms
14h20-14h40	<i>Marie Labaye (Lab. Pasteur, Paris)</i>	Resonant propagation of short pulses: collective effects in light-matter interaction
14h40-15h00	<i>Mai Dinh Phuong (LPT, Toulouse)</i>	Dipolar instabilities in N <sub>2</sub> theoretically evidenced by an ultrafast pump-and-probe setup
15h00-15h20	<i>Marie Ouillé (LOA, Palaiseau)</i>	High-harmonics and particle beams emission from relativistic plasma mirrors at kHz repetition rate

15h20-15h50	<i>Pause café / EXPOSANTS</i>	
<b>SECONDARY SOURCES</b>		
15h50-16h10	<i>Philippe Martin (LIDYL, Saclay)</i>	Mesure spatio-temporelle d'impulsions attosecondes d'origine relativistes
16h10-16h30	<i>Kosta Oubrerie (LOA, Palaiseau)</i>	Accélération laser-plasma au GeV par guidage laser
16h30-16h50	<i>Alok Pandey (IJCLab, Orsay)</i>	Generation and characterization of high topological charge extreme-ultraviolet vortex and vector-vortex beams
16h50-17h10	<i>François Sylla (SOURCELAB)</i>	SourceLAB, fournisseur d'accélérateurs Laser Plasma
Conclusion	<i>Bureau du GDR UP</i>	