GDR Groupement de recherche
UP Ultrafast Phenomena

Réunion Plénière du GDR U.P 2025

Avec le soutien du CNRS
et des membres du club des partenaires industriels du GDR UP:
Coherent, Sourcelab, Amplitude, Femtoeasy, Optonlaser, Lightconversion, Ardop, Alphanov, Optoprim

Jeudi 13 Mars 2025

09h00-10h00	*ACCUEIL / CAFE*	
10h00-10h30	*Bureau du GDR U.P*	*Introduction / actions du GDR UP*
Session1: ULTRAFAST OPTICS		
10h30-10h50	*François Balembois (LCF/SourceLab)*	*LED pumped alexandrite: potential for a new technology of femtosecond laser systems*
10h50-11h10	*Mikhneva Anastasiia (CORIA Rouen)*	*Extreme ultraviolet source based on high harmonic generation in solids with a high-energy fiber-based 1550 nm driving laser*
11h10-11h30	*Edouard Hertz (ICB Dijon)*	*Generation of ultrashort harmonic pulses from solid-state media: broadband PI-FROST characterization and driving mechanisms*
11h30-11h50	*Amadou Diallo (CELIA Bordeaux)*	*Ultrashort VUV pulse generation with orbital angular momentum transfer*
11h50-12h10	*Antoine Dubrouil (Femtoeasy)*	*Ultrafast characterization and more*
12h10-12h30	*Olivier Zabiolle / Mingming PAN (Amplitude)*	*Advances in ultrafast laser systems and secondary sources at Amplitude*
12h30-14h00	*REPAS / EXPOSANTS*	
Session 2: ATTOSECOND SCIENCE		
14h00-14h20	*Victor Despré (ILM Lyon)*	*Correlation-Driven Charge Migration Triggered by Infrared Multi-Photon Ionization*
14h20-14h40	*Thierry Tran (CEISAM Nantes)*	*Can classical trajectory dynamics methods accurately simulate attochemistry ?*
14h40-15h00	*Rafael Menezes Ferreira (LIDYL Saclay)*	*Probing iodine chemical environment with ionization delays*
15h00-15h20	*Léonardo Rico (LCPMR Paris)*	*Rabi oscillations, photo-emission and entanglement: A time-resolved picture*
15h20-15h40	*Gabriel Granveau (LCF Palaiseau)*	*Reconstruction of the attosecond dynamics of unobserved ions*
15h40-16h10	*PAUSE CAFÉ / EXPOSANTS*	

Session 3: MATERIALS I		
16h10-16h30	*Emilie Herault (Croma Grenoble)*	*Génération par autocorrélation de signaux THz et de second harmonique à la surface de cristaux diélectriques*
16h30-16h50	*Ernest Pastor (IPR Rennes)*	*Controlling the excited-state lifetime of transition metal oxide photocatalyst*
16h50-17h10	*Elodie Iglesis (LMPQ Paris)*	*Optical pump-induced carrier dynamics in InSb: probing the plasma frequency evolution*
17h10-17h30	*Thomas GAUTHIER (IPR Rennes)*	*Ultrafast photo-induced dynamics triggered by electron transfer in 1d van der Waals heterostructure*
17h30-21h00	*Session Poster / Cocktail*	

Vendredi 14 mars 2025

Session 4: FEMTOCHEMISTRY AND FEMTOBIOLOGY		
9h00-9h20	*Josene Toldo (LCH-ENS Lyon)*	*Modeling excited states dynamics using surface hopping*
9h20-9h40	*Michel Sliwa (LOB Palaiseau)*	*Toward the design of fast red reversible photo-switchable fluorescent proteins using multi-timescale transient absorption spectroscopy*
9h40-10h00	*Sebastien Weber (CEMES Toulouse)*	*Données FAIR: acquisition, partage et reproductibilité des résultats*
10H00-10h30	*PAUSE CAFÉ / EXPOSANTS*	
Session 5: SECONDARY SOURCES		
10h30-10h50	*Eléonore Roussel (PHLAM Lille)*	*Single-shot electro-optic detection of THz electric field with high temporal resolution and MHz acquisition rate*
10h50-11h10	*François Courvoisier (Femto-ST besançon)*	*Ultrafast micro-physics of Bessel beam interaction with solid dielectrics*
11h10-11h30	*Joséphine MONZAC (LOA Palaiseau)*	*Effets d'ionisation et impact de l'hydrogène sur les performances d'un accélérateur laser-plasma kHz*
11h30-11h50	*Marie-Hélène CARRON (IJCLab Orsay)*	*Amplification of beams carrying Orbital Angular Momentum in a plasma-based XUV laser: a numerical study*
11h50-12h10	*Titouan Gadeyne (LIDYL Saclay)*	*Photon pathways in the nonperturbative nonlinear regime of high harmonic generation*
12h10-12h30	*Simon Reiger (UFI/Optonlaser)*	*Commercial table-top beamline for attosecond science*
12h30-14h00	*REPAS / EXPOSANTS*	

Session 6: GAS PHASE SYSTEMS		
14h00-14h20	*Lea Ibele (ICR Marseille)*	*Computational photochemistry to simulate time-resolved experimental observables*
14h20-14h40	*Gildas Goldsztejn (ISMO Orsay)*	*A kHz laser desorption scheme adapted to ultrafast gas-phase measurements of thermolabile molecules*
14h40-15h00	*Rajarshi Sinha-Roy (ILM Lyon)*	*Light-induced orbital magnetism in atomically precise metal clusters*
15h00-15h20	*Ali Aras (IJCLab Orsay)*	*High-Frequency Phase Noise Suppression for the DeLLight Interferometer to Measure the Optical Nonlinearity in Vacuum*

15h20-15h50	*Pause café / EXPOSANTS*	
Session 7 : MATERIALS II		
15h50-16h10	*David Le Bolloc'h (LPS Orsay)*	*Le glissement d'une Onde de densité de charge observé par une source XFEL*
16h10-16h30	*Akib Jabed (CELIA Bordeaux)*	*Unveiling charge dynamics in 3D topological insulator via time- and angle-resolved photoemission spectroscopy*
16h30-16h50	*Romain CAZALI (LIDYL Saclay)*	*Correlations drive the attosecond response of strongly-correlated insulators*
16h50-17h10	*TBA (Optoprim)*	*TBA*
17h10-17h30	*Bureau du GDR UP*	*Conclusion et Perspectives*