

Réunion Plénière du GDR U.P 2022



Lundi 12 décembre 2022

09h00-10h00	ACCUEIL	
10h00-10h30	BUREAU DU GDR UP	Introduction Actions 2022 du GDR, Actions prévues, opportunités
10h30-11h00	Catalin MIRON (LIDYL)	Présentation PEPR LUMA
11h00-11h30	PAUSE CAFÉ / EXPOSANTS	
SESSION 1 Condensed phase 1 / Sarah Houver (MPQ)		
11h30-11h50	Adeline BONVALET (LOB)	Spectroscopie infrarouge pompe-sonde de la picoseconde à la microseconde dans une photoenzyme
11h50-12h10	Amira GHARBI (IPCMS)	Ultra-fast Energy transfer dynamics in dye-doped organic nanoparticles
12h10-12h30	Oleksandr DEREVIANCHENKO (EKSPLA/OPTON)	Developments in high intensity lasers
12h30-14h00	REPAS / EXPOSANTS	
SESSION 2 Ultrafast optics / Saikat Nandi (ILM)		
14h00-14h20	Aurélien JULIEN (INPHYNI)	Phase modulator based on thermo-optically addressed liquid crystal for multi-octave light source
14h20-14h40	Edouard HERTZ (ICB)	Storing an ultrashort optical vortex in molecules
14h40-15h00	Brice ARNAUD (IMMM)	A first-principles approach to non-linear phononics in Bi2Te3
15h00-15h20	Martin LUTTMAN (LIDYL)	Conservation of a half-integer angular momentum of light in nonlinear optics
15h20-15h50	PAUSE CAFÉ / EXPOSANTS	
SESSION 3 Attosecond and XUV science 1		
15h50-16h10	Fabien GATTI (ISMO)	Simulations of attosecond pump-probe experiments on CO2
16h10-16h30	Hugo MARROUX (LIDYL)	Attosecond spectroscopy of molecular core levels
16h30-16h50	Victor DESPRE (ILM)	Ab-initio simulations of ultrafast electron-nuclear dynamics: Paving the way to attochemistry
16h50-17h10	Michele NATILE (Amplitudes)	High repetition rate few-cycle Mid-IR laser source
	Photo conférence	
17h30-19h00	Session Poster / Cocktail	
19h00-20h30	Cocktail	

Mardi 13 décembre 2022



SESSION 4 INTENSE LASER INTERACTION / Jérôme Faure (LOA)		
9h00-9h20	Weipeng YAO (LULI)	Optimizing laser coupling, matter heating, and particle acceleration from solids, using multiplexed ultraintense lasers
9h20-9h40	Amélie FERRE (LP3)	K α X-ray source driven by a multi-terrawatt femtosecond laser at 100 Hz for spectroscopy and imaging application
9h40-10h00	Marie LABAT (SOLEIL)	Recent news about Laser-Plasma Accelerator based Free Electron Lasers
10h00-10h20	François SYLLA (Sourcelab)	KAIO-Beamline, the modular high-repetition rate laser-plasma electron accelerator for broad range of applications
10h20-10h50	PAUSE CAFÉ / EXPOSANTS	
SESSION 5 CONDENSED PHASE 2 / Christine Richter (LPMS & LIDYL)		
10h50-11h10	Rodolphe VUILLEUMIER (ENS, Dept Chimie)	Dynamiques aux interfaces de graphene et hBN chargées
11h10-11h30	Emmanuelle JAL (LCPMR)	Unravelling the Transient Depth Magnetic Profile During Ultrafast Demagnetization of an Iron Thin Film
11h30-11h50	Yann GALLAIS (MPQ)	Disentangling lattice and electronic instabilities in the excitonic insulator candidate Ta ₂ NiSe ₅ by non-equilibrium spectroscopy
11h50-12h10	Anna LEVY (INSP)	Ultrafast lattice dynamics of laser-heated copper using time-resolved photoelectron spectroscopy
12h10-14h00	REPAS / EXPOSANTS	
SESSION 6 ATTOSECOND AND GAS PHASE ULTRAFAST SCIENCE / Lou Barreau (ISMO)		
14h00-14h20	Vincent LORIOT (ILM)	Attosecond signatures of spatially extended hole in a molecule
14h20-14h40	Jonathan DUBOIS (MPI)	Recollisions in circularly polarized pulses : from tunnel-ionization to the return of the electron
14h40-15h00	Isabelle MERRITT (CEISAM)	Photoisomerization of Cis-Azobenzene: Understanding the Quantum Yield Wavelength Dependency
15h00-15h20	Eric CONSTANT (ILM)	Chromatic aberrations control in high order harmonic XUV beams by spatial shaping of the fundamental
15h20-15h50	Pause café / EXPOSANTS	
SESSION 7 NANO SCIENCE / Pascal Ruello (IMMM)		
15h50-16h10	Angela VELLA (GMP)	LaB ₆ nano-tip as an ultrafast electron source
16h10-16h30	Giovanni MANFREDI (IPCMS)	Driving orbital magnetism in metallic nanoparticles through plasmonic effects
16h30-16h50	Marc ALIAS-RODRIGEZ (ICR)	Revealing the ultrafast spin-crossover mechanism in Fe ^{II} (bpy) ₃ through quantum dynamics
16h50-17h10	Bureau du GDR UP	CONCLUSION

1er Workshop « Dialogue théorie-expérience en sciences ultrarapides »

Mercredi 14 décembre 2022

09h00-09h05	Bureau du GDR U.P	Introduction
SESSION 1 Molécules isolées / Vincent Lorient (ILM)		
09h05-09h30	Richard Taïeb (LCPMR)	TBA
09h30-09h55	Bernard Pons (CELIA)	Structures et dynamiques de molécules chirales sondées par de brèves impulsions laser
09h55-10h20	Martial Boggio-Pasqua (LCPQ)	Dihydropyrene photoisomerization: Aspirations to go beyond the static mechanistic picture
10h20-10h50	Pause Café / discussions	
SESSION 2 molécules environnées, complexes moléculaires et nanoparticules / Jérémie Léonard (IPCMS)		
10h50-11h15	Etienne Mangaud (MSME)	Simulation by the hierachical equations of motion with tensor trains
11h15-11h40	Valérie Vallet (PhLAM)	hotodynamics of lanthanide and actinide complexes
11h40-12h05	Aurélien Crut (ILM)	Investigation of the vibrational and cooling dynamics of metal nanoparticles by combined experimental and modeling approaches
12h05 – 13h30	REPAS	
SESSION 3 matériaux / Emmanuelle Jal (LCPMR)		
13h30-13h55	Philippe Scheid (ILJ)	Discussion on the origin of the helicity-dependent magnetization dynamics
13h55-14h20	Guillaume Duchateau (CESTA)	Laser energy deposition into dielectric materials
14h20-14h45	Anne Tanguy (LaMCoS)	Nanostructuration de la silice par laser femto-seconde
14h45-15h15	Pause Café / discussions	
SESSION 4 Systèmes d'intérêt biologique / Pascale Changenet (LOB)		
15h15-15h40	Aurélien de la Lande (ICP)	First principles simulations of biological matter radiolysis, state-of-the-art and roadmap
15h40-16h05	Valérie Brenner (LIDYL)	Non-radiative transitions in bio-relevant systems: non-adiabatic dynamics simulations as a bridge between theory and experiment?
16h05-16h30	Conclusions et perspectives	

