

WORKSHOP | PROGRAMME

IRCICA, 50 Avenue Halley 59650 Villeneuve-d'Ascq FRANCE

on recent advances in ultrafast nonlinear fiber optics

Thematic days proposed by the ROP and FEMTO Networks of the CNRS Mission for Interdisciplinarity.

Tuesday, December 4th

9h30-10h30	WELCOME	
10h30-11h		Alexandre Kudlinski (PhLAM), "Dispersive waves and collisions of black, grey solitons."
11h-11h30	<u>Chairman :</u>	Matteo Conforti (PhLAM), "Shock waves in optical fibers."
11h30-12h	Abdelkrim Bendahmane	Bertrand Kibler (ICB), "Modulation instability, breathers and frequency combs in optical fibers."
12h-12h30		Julien Fatome (ICB), "Domain walls in optical fibers/cavities."
12h30-14h	LUNCH	
14h-14h30		Vincent Couderc (Xlim), "Self-organization of light in multimode fibers: examples of applications."
14h30-15h	<u>Chairman :</u>	Ammar Hideur (University of Rouen), "Ultra fast mid IR fiber laser sources."
15h-15h30	Matteo Conforti	Marc Hanna (Institute of Optics), "Ultrafast nonlinear fiber optics without fibers: multipass cells."
15h30-16h		Eric Cormier (CELIA), "GHz fiber laser source based on femtosecond pulse generation without mode lock."
16h-17h	COFFEE BREAK	
17h-17h30	<u>Chairman :</u>	Lauriane Fouché (CEA), "Fiber-based front-end developments for high power large scale laser facility."
17h30-18h	Julien Fatome	Hervé Rigneault (Aix-Marseille University), "Nonlinear endoscopes."
18h-18h30		Guy Millot (ICB), "Nonlinear fiber optics for near and mid infrared dual comb spectroscopy."
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20h	DINNER "Chez la vieille", 60 Rue de Gand, 59000, Lille.	

Wednesday, December 5th

8h30-9h		Andrius Baltuška CANCELLED "Pulse characterization CANCELLED pulse duration."
9h-9h30	<u>Chairman :</u>	Thibaut Sylvestre (Femto-st), "Femtosecond Supercontinuum Generation in Heavy-Metal Oxide Glass Photonics Crystal Fibers."
9h30-10h	Francois Leo	Benjamin Wetzel (University of Sussex), "Smart supercontinuum sources: Customizing nonlinear optical interactions via adaptive temporal pulse-splitting."
10h-10h30		Camille Sophie Brès (EPFL), "Supercontinuum calcogenure."
10h30-11h	COFFEE BREAK	
11h-11h30	<u>Chairman :</u>	Jean-Charles Beugnot (Femto-st), "Reduction of Brillouin scattering by tapered optical fiber."
11h30-12h	Benjamin Wetzel	François Leo (Free University of Brussels), "Efficient second harmonic generation in III-V-on-insulator nanowaveguides."
12h-12h30		Frédéric Gérôme (Xlim), "Gas and light: enabling ingredients for gas fibre photonic."
12h30-14h	LUNCH	
14h-14h30		John Dudley (Femto-st), "Advances in Real Time Measurements for Nonlinear Fiber Optics and Characterisation of Dissipative Solitons."
14h30-15h	<u>Chairman :</u>	Goëry genty (Tampere University of Technology), "Machine Learning: a new tool for studying ultrafast nonlinear instabilities."
15h-15h30	Alexandre Kudlinski	Pierre Suret (PhLAM), "Ultrafast measurement of phase and amplitude of nonlinear random waves by using heterodyne time microscope."
15h30-16h		Arnaud Mussot (PhLAM), "Open discussion about the creation of a GDR on this thematic."
16h-17h	COFFEE BREAK	
17h-18h	Lab tour	
End		

