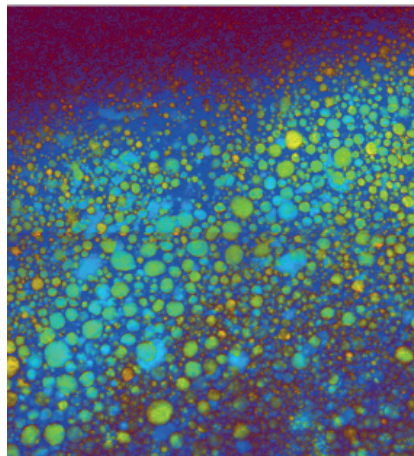


Journées du GDR

Marseille

17-18 octobre 2022



Lieu : Université de Marseille Jardin du Pharo, 58 Boulevard Charles Livon, 13007 Marseille

17 octobre : début 10h50 : Bienvenue et informations

11:00	Sheveleva Anastasiia , Reconstruction of phase-space topology in fiber four-wave mixing,
11:15	Guillaume Vanderhagen , Experimental demonstration of the modulation instability gain shift in dispersion oscillating fibers
11:30	Armaroli Andrea , Modulational instability in random dispersion managed fibers: large gain surprise
11:45	Fatome Julien , Temporal shrinking of optical data packets
12:00	Dufour Martin , Impact of stimulated Raman scattering on the nonlinear spectrum of optical pulses
12:15	Ermolaev Andrei , Data-Driven Discovery in Nonlinear Fiber Optics Using Sparse Regression

Pause déjeuner 12h30-14h

14:00	Camille Sophie Bres , "Electric field-induced nonlinearities in silicon nitride nanophotonics", invited
14:30	Lafforgue Christian , Towards complex nonlinear applications with lithium niobate-on-silicon nitride waveguides
14:45	Yakar Ozan , Backward Second-Harmonic Generation via Self-Organized Nonlinear Nanogratings
15:00	Gille Renversez , Spatial nonlinearity in metal-dielectric structures: extending the beam control with ad-hoc metal patches
15:15	Adrien Bensemhoun , Intensity and quadrature entanglement generated by four-wave mixing in a SiN microring
15:30	Arnaud Garnache , Structured light from Photonic & THz coherent sources based on III-V semiconductor laser technology

Pause café 15h45-16h15

16:15	Markus Brandstetter , "Mid-Infrared Spectroscopy with Supercontinuum Sources", invited
16:45	Sylvestre Thibaut , Recent progress in low noise coherent supercontinuum generation in silica and tellurite all-normal dispersion fibers
17:00	Ines Martin , Low-noise parametric amplification of an ANDi fiber supercontinuum to the W-level at 40 MHz
17:15	Deniel Lucas , Supercontinuum generation in silicon carbide waveguides
17:30	Boussafa Yassin , Machine learning optimization of supercontinuum properties towards multiphoton microscopy
17:45	Remise du prix de thèse ELIOS -IXBLUE

Night session 18h-xx (apero et diner): Posters + stands industriels - au fort Ganteaume

18 octobre : accueil 08h15

8:30	DeroH Koffi Moise , Stabilized single-frequency Brillouin fiber laser cavity at 1 μm
08:45	Lucas Erwan , Investigating Kerr Comb Formation in Fiber Cavity Brillouin Lasers
09:00	Colman Pierre , Langevin's model for soliton molecules in ultrafast fiber ring laser cavity
09:15	Englebert Nicolas , Temporal cavity soliton Bloch oscillations in a synthetic frequency dimension
09:30	Zoheir Ziani , Dispersive instability in FP resonators
09:45	Thomas Bunel , Generation of optical frequency combs induced by MI in fiber Fabry-Pérot resonators

Pause café 10h00-10h30

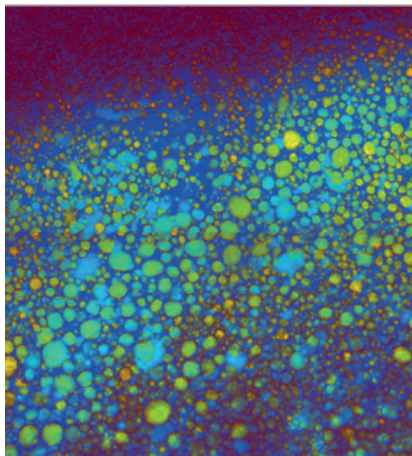
10:30	Nahalie Picqué , "Dual comb spectroscopy", Invited
11:00	Simon Coentintin , Coupled active cavities for all-fiber optical frequency comb generation
11:15	Ibragimov Timothe , Active Cavity Solitons with Raman Gain
11:30	Eve-Line Bancel , All-fiber frequency agile triple-frequency comb light source
11:45	Fsaifes Ihsan , Coherent beam combining of femtosecond fiber amplifiers
12:00	Wetzel Benjamin , Ultra-sensitive Dispersive Fourier-Transform Characterization Technique
12:15	Gajendra Naveen , 2-Photon Fluorescence Imaging of Hippocampal Neurons in mice using Hollow-Core Fiber Based Endoscopes

Pause déjeuner 12h30-14h

14:00	Finot Christophe , Farey Tree and Devil's Staircase of a Breather Mode-Locked Fibre Laser
14:15	Jedidi Melek , Fiber-based source of 20 fs megawatt pulses at 1750 nm
14:30	Motard Arnaud , Advances in the development of pulsed 2- μm fiber pump laser for high-power sources emitting between 3 & 5 μm
14:45	Gauthier-Lafaye Olivier , Impact of coupling coefficients in CRIGFs for Second Harmonic Generation (SHG)
15:00	Jean Sauvage , GLO photonics, industriel
15:15	Bilan sur les tables rondes
15:30	Bilan/cloture/suggestions

15:45 **FIN**

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Lieu : Fort Ganteaume, Marseille

Night session 18h-xx (apero et diner): Posters + stands industriels - au fort Ganteaume

Liste des posters : Fort Ganteaume 17 octobre 18h

Bailleul Damien , Dispositifs à fibre optique pour les lasers et la spectroscopie dans l'infrarouge moyen
Bouchaour Mama , Ga/Al codoping in the new transparent conducting oxide ZnSb ₂ O ₆
Bruneau Maxime , Nonlinear effects in multimode nano-photonics waveguides.
David Timothé , Bragg gratings to minimize mismatch in parametric processes
Dussardier Bernard , Specialty optical fibres at INPHYNI
Fernandez Arnaud , Theoretical analysis of an Er ³⁺ doped fibered Fabry-Perot resonator operating in the selective amplification regime
Gaudillat Valentine , Phase-sensitive intra-modal four-wave mixing in a few-mode fiber
Jayantha Ayesha , Exploring new photonics platform for nonlinear applications
Leo Giuseppe , Towards an electrically injected OPO
Morleghem Romain , Integrated semi-nonlinear waveguides for three waves mixing
Serrano Esteban , Génération de supercontinuum dans l'infrarouge moyen par fibre optique multimode en verre de chalcogénures