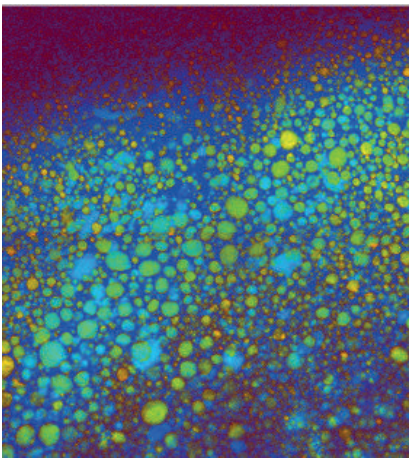


# Journées du GDR

## Marseille

### 17-18 octobre 2022



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

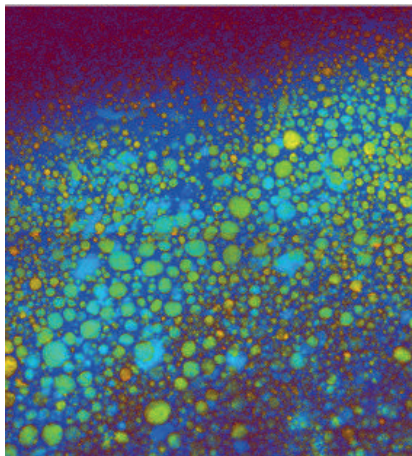
<i>Début 10h50 : Bienvenue et informations</i>	
11:00	<b>Sheveleva Anastasiia</b> , Reconstruction of phase-space topology in fiber four-wave mixing,
11:15	<b>Guillaume Vanderhagen</b> , Experimental demonstration of the modulation instability gain shift in dispersion oscillating fibers
11:30	<b>Armaroli Andrea</b> , Modulational instability in random dispersion managed fibers: large gain surprise
11:45	<b>Fatome Julien</b> , Temporal shrinking of optical data packets
12:00	<b>Dufour Martin</b> , Impact of stimulated Raman scattering on the nonlinear spectrum of optical pulses
12:15	<b>Ermolaev Andrei</b> , Data-Driven Discovery in Nonlinear Fiber Optics Using Sparse Regression
<i>Pause déjeuner 12h30-14h</i>	
14:00	<b>Camille Sophie Bres</b> , "Electric field-induced nonlinearities in silicon nitride nanophotonics", invited
14:30	<b>Lafforgue Christian</b> , Towards complex nonlinear applications with lithium niobate-on-silicon nitride waveguides
14:45	<b>Yakar Ozan</b> , Backward Second-Harmonic Generation via Self-Organized Nonlinear Nanogratings
15:00	<b>Gille Renversez</b> , Spatial nonlinearity in metal-dielectric structures: extending the beam control with ad-hoc metal patches
15:15	<b>Adrien Bensemhoun</b> , Intensity and quadrature entanglement generated by four-wave mixing in a SiN microring
15:30	<b>Arnaud Garnache</b> , Structured light from Photonic & THz coherent sources based on III-V semiconductor laser technology
<i>Pause café 15h45-16h15</i>	
16:15	<b>Markus Brandstetter</b> , "Mid-Infrared Spectroscopy with Supercontinuum Sources", invited
16:45	<b>Sylvestre Thibaut</b> , Recent progress in low noise coherent supercontinuum generation in silica and tellurite allnormal dispersion fibers
17:00	<b>Ines Martin</b> , Low-noise parametric amplification of an ANDi fiber supercontinuum to the W-level at 40 MHz
17:15	<b>Deniel Lucas</b> , Supercontinuum generation in silicon carbide waveguides
17:30	<b>Boussafa Yassin</b> , Machine learning optimization of supercontinuum properties towards multiphoton microscopy
17:45	<b>Remise du prix de thèse ELIOS -IXBLUE</b>
<i>Night session 18h-xx (apero et diner): Posters + stands industriels - au fort Ganteaume</i>	

<i>Accueil 08h15</i>	
8:30	<b>Deroh Koffi Moise</b> , Stabilized single-frequency Brillouin fiber laser cavity at 1 $\mu\text{m}$
08:45	<b>Lucas Erwan</b> , Investigating Kerr Comb Formation in Fiber Cavity Brillouin Lasers
09:00	<b>Colman Pierre</b> , Langevin's model for soliton molecules in ultrafast fiber ring laser cavity
09:15	<b>Englebert Nicolas</b> , Temporal cavity soliton Bloch oscillations in a synthetic frequency dimension
09:30	<b>Zoheir Ziani</b> , Dispersive instability in FP resonators
09:45	<b>Thomas Bunel</b> , Generation of optical frequency combs induced by MI in fiber Fabry-Pérot resonators
<i>Pause café 10h00-10h30</i>	
10:30	<b>Nahalie Picqué</b> , "Dual comb spectroscopy", Invited
11:00	<b>Simon Corentin</b> , Coupled active cavities for all-fiber optical frequency comb generation
11:15	<b>Ibraguimov Timothe</b> , Active Cavity Solitons with Raman Gain
11:30	<b>Eve-Line Bancel</b> , All-fiber frequency agile triple-frequency comb light source
11:45	<b>Wetzel Benjamin</b> , Ultra-sensitive Dispersive Fourier-Transform Characterization Technique
12:00	<b>Gajendra Naveen</b> , 2-Photon Fluorescence Imaging of Hippocampal Neurons in mice using Hollow-Core Fiber Based Endoscopes
<i>Pause déjeuner 12h30-14h</i>	
14:00	<b>Motard Arnaud</b> , Advances in the development of pulsed 2- $\mu\text{m}$ fiber pump laser for high-power sources emitting between 3 & 5 $\mu\text{m}$
14:15	<b>Jedidi Melek</b> , Fiber-based source of 20 fs megawatt pulses at 1750 nm
14:30	<b>Finot Christophe</b> , Farey Tree and Devil's Staircase of a Breather Mode-Locked Fibre Laser
14:45	<b>Gauthier-Lafaye Olivier</b> , Impact of coupling coefficients in CRIGFs for Second Harmonic Generation (SHG)
15:00	<b>Patrick Moreau</b> , Club des partenaires & développements sociaux-économiques
15:15	<b>Jean Sauvage</b> , GLO photonics, industriel
15:30	Bilan sur les tables rondes
15:45	Bilan/cloture/suggestions
15:47	<b>FIN</b>

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## Marseille

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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

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

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