

High energy and large band fiber optical parametric amplifier in topographic fibers

Starting date: before end 2017

Duration: 1,5 years

Research team: Nonlinear optics group of the photonic team, PHLAM laboratory, Lille, France. This team is based in the IRCICA institute.

<http://phlam.univ-lille1.fr/>

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Mission : The aim of the project is to develop high energetic large gain bands fiber optical parametric amplifiers at 1 μm . This project is in collaboration with the French atomic agency of Bordeaux. The candidate will have to design and characterize the fiber that will be fabricated in our own drawing tower facility *FibertechLille*. The group is composed of 9 people (3 permanents+6post doc/PhD students) and the lab very well equipped to conduct experiments (fs to cw lasers, high band pass oscillo, time lens system, optical sampling oscillo...).

Candidate skills: Experimental fiber optics, nonlinear optics, numerical simulations (Split step Fourier).

Contact:

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