

POSTDOCTORAL RESEARCH POSITION :
NONLINEAR FIBER OPTICS FOR ULTRAFAST SIGNAL PROCESSING

Solitons, Lasers and Optical Communication team (SLCO)
Laboratoire Interdisciplinaire CARNOT de Bourgogne (ICB)
UMR 6303 CNRS-Université de Bourgogne-Franche-Comté, Dijon, France
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One year Postdoctoral Fellow position funded by the Region Bourgogne/Franche-Comté is opened at the SLCO group in the context of the Laboratory of Excellence Action (<http://www.labex-action.fr/>).

The research is related to the use of nonlinear fiber optics for all-optical ultrafast signal processing. In particular, the position aims at exploring new effects related to nonlinear temporal and spectral pulse shaping, wavelength conversion and application of dispersion managed fibers. Studies investigating the impact of partially coherent waves will also be initiated. Research will rely on state-of-the-art testbeds devoted to high-speed optical telecommunications. Proof of principle experiments dealing with signals at 10 and 40 Gbps will be carried-out. Other experiments dealing nonlinear effects affecting fiber amplification will also be undertaken.

The candidate must have a Ph.D in Physics or a related discipline and published research. The applicant must be an experimentalist with a solid background in at least two of these fields : fiber optics, nonlinear optics, optical telecommunications or picosecond temporal and spectral pulse characterization. Good skills in numerical simulations will be appreciated. Good knowledge of spoken and written English or/and French is mandatory.

The net annual salary will be about 1900 € per month (social insurance contribution included). The starting of the contract must take place before the end of year 2016.

Applicants should address by e-mail to Prof. Christophe Finot (christophe.finot@u-bourgogne.fr) a Curriculum Vitae, a list of publications and communications, and the name of two referees (with e-mail and affiliation).