



16/11/2009

Postdoctoral position at the laser center CELIA University of Bordeaux France

Within the “optics and femtosecond lasers” group at CELIA we are seeking to appoint a postdoctoral researcher to work on development of diagnostics for ultra broadband and ultra short pulses generated in ‘nanowires’. The research will be carried out in the framework of the ANR Project IMFINI involving three french laboratories (PhLAM – Univ. of Lille, FEMTO-ST – Univ. of Franche-Comté and CELIA – Univ. of Bordeaux)

The IMFINI project will aim to study ultrafast nonlinear optics in silica photonic nanowires. Such small-core waveguides will be fabricated with controlled tapering photonic crystal fibres. The successful candidate will work in the CELIA laboratory and will be involved in developing novel pulse detection setups including a synchronized broadband spectrometer for characterizing novel carrier-envelope phase dependent spectral signatures, as well as broadband FROG and SPIDER pulse characterization techniques. The candidate will also handle the experimental programs on pulse propagation dynamics in the various photonic crystal fibres by implementing the detection devices developed earlier. Experience with all standard instrumentation of ultrafast optics is necessary (bulk optics, synchronous detection etc), as is the ability to develop hardware and software for computer interfacing.

The position is for 18 month and can be started on December 1st 2009. Researchers with experience in the above mentioned areas are encouraged to apply. Applications including a resume, a statement of motivation and 2 letters of recommendation must be sent to:

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