

FemtoControl

Tue, 2013-03-05 09:42 - [Lukas Theussl](#) [1] **Website:**
<http://www.lcar.ups-tlse.fr/spip.php?rubrique433&lang=en> [2]

Research Type: Experiment

Until now, the FEMTOCONTROL team has developed numerous studies in the field of coherent control of small quantum systems. These were based on the use of sequences of identical pulses, creating wave packet interferences, on chirped pulses or on shaped pulses. These various control schemes have been successfully implemented in atoms on multiphotonic transitions, to cool molecules, to create robust quantum state in single quantum dot to spatially localize and temporally focus scattering light or to factorize numbers using phase encoded pulse sequence. These works allowed the development of several fruitful collaborations in France and abroad. The group is now building a new set-up in order to study the interaction of a single carbon nanotube with ultrashort pulses.

Leader: Béatrice Chatel

Location

Laboratoire Collisions Agrégats Réactivité, Université Paul Sabatier 118 route de Narbonne
Toulouse Cedex 09 31062 France
Phone: +33 5 61 55 84 84
43° 33' 25.5096" N, 1° 27' 57.8844" E

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