



SECTION DE PHYSIQUE  
**COLLOQUE  
DE PHYSIQUE**

24, QUAI ERNEST-ANSERMET, CH-1211 GENÈVE 4

**Lundi 27 novembre 2017, 12h30**  
Ecole de Physique, Auditoire Stueckelberg

**«Ultrashort light pulses as a tool for atomic-scale control of solids»**

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**Abstract:**

The long-standing idea of using intense, short light pulses as a means of reversibly controlling the structure of condensed matter systems holds interest from an applications perspective and additionally serves as a fundamental challenge for understanding the strongly out-of-equilibrium properties of materials. Here I discuss several representative examples of light-driven structural excitations that are quantitatively characterized using time-resolved x-ray diffraction, with a perspective on how light-initiated dynamics can both give a better understanding of important interactions in materials and how in the future they might be leveraged into a highly flexible means of materials control.

Une collation en compagnie du conférencier sera offerte après le colloque.

Prof. Dmitry Abanin