

# Laser Seminar / NCCR MUST Seminar

## Monday, December 12, 2016

- Time 16.45
- Location ETH Zurich, Hönggerberg, HPF G6
- Speaker Prof. Dr. Martin Aeschlimann, Department of Physics, University of Kaiserslautern, Germany
- Title Probing Ultrafast Electron and Spin Dynamics in Momentum, Space, and Time
- Abstract Optically excited (hot) electrons play a crucial role for many fundamental chemical and physical phenomena occurring at surfaces, interfaces, and in bulk materials. They, for instance, determine the properties of photo-induced catalysis at surfaces, and the efficiency of charge and spin transfer across interfaces between different materials. For the investigation of such processes, time-resolved photoelectron spectroscopy did turn out to be a very powerful tool through its direct access to transient band-structure dynamics. In particular, very recent progresses in the development of ultrashort pulsed light sources and electron spectrometers have paved the way for a completely new generation of real-time photoemission techniques. The review concludes with an outlook to the feasibility of future real-time studies in surface and material science.
- Host Ursula Keller, Ultrafast Last Physics, IQE
- More Info <http://www.fastlab.ethz.ch/laser-seminar.html>



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