



IBS Center for Molecular Spectroscopy and Dynamics

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## COLLOQUIUM

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- SPEAKER

Prof. Majed Chergui (EPFL, Switzerland)

- TITLE

Observing chemical dynamics on the atomic scale of time and space

- ABSTRACT

The atomic scale resolution of space (the Ångström) was achieved a century ago with the discovery of X-ray and electron diffraction. It will take about 8 decades to reach the atomic scale of time (the Femtosecond) thanks to the pioneering works of Ahmed Zewail using optical domain spectroscopy. However, optical domain spectroscopies (ultraviolet, visible, infrared, Terahertz) do not deliver structure. Ultrashort pulses of electrons and X-rays have been used in recent years and I will focus on some of the landmarks leading to the development of the field of ultrafast structural dynamics with X-ray pulses. I will present results concerning molecular systems, proteins and transition metal oxides.

- DATE AND VENUE

Apr. 21, 2017 (Friday, 5:00–6:00 p.m.)  
Seminar Room 116, KU R&D Center

- LANGUAGE

English