



北京大学量子材料科学中心

International Center for Quantum Materials, PKU

Weekly Seminar

Extreme Sub-Cycle Waveform

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Time: 4:00pm, Oct. 25, 2017 (Wednesday)

2017 10 25

4:00

Venue: Room W563, Physics building, Peking University

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Extreme Sub-Cycle Waveform aims to study and control the nonlinear interactions of matter with custom-tailored sub-optical-cycle waveforms. In this regime, the time-evolution of the optical electric field deviates strongly from a sinusoidal carrier-wave oscillation within a single cycle of light. Such custom-sculpted intense optical waveforms open up new horizons for controlling strong-field interactions in atoms, molecules, solids and nanostructures, and novel applications in life sciences.

FANG received the Ph.D. degree from Hokkaido University, Sapporo Japan. From 2007 to 2011, he was an Assistant Research Scientist of the Core Research for Evolutional Science and Technology, Japan Science and Technology Agency. Since 2011, he has been a Research Scientist in the framework of the Helmholtz Association Young Scientist Program at DESY/CFEL, Hamburg Germany. He joined the Key Laboratory of Optical Physics as Associate Professor at Institute of Physics (IOP), Chinese Academy of Sciences (CAS) in 2015. His research interests include novel sub-cycle waveform synthesis for attosecond science and compact X-ray sources.