The 141st iCeMS SEMINAR

CeMI Seminar Series 40 Leica Scientific Forum Kyoto 7

10 September 2013
15:30-16:45

Nanoscopy with Focused Light

Lecturer: **Prof. Stefan Hell**
Department of NanoBiophotonics
Max Planck Institute for Biophysical Chemistry
Göttingen, Germany

Venue: 2nd Floor Seminar Room (#A207)
iCeMS Main Building (#70) Kyoto University

Since the 19th century, it has been widely accepted that a light microscope cannot see details that are finer than half the wavelength of light (> 200 nm). However, in the 1990s, Prof. Stefan Hell devised a method to effectively overcome this diffraction resolution barrier, such that fluorescent features can be resolved virtually down to molecular dimensions. Stefan will discuss the simple yet powerful physical principles that allowed us to break the resolution limit, with special emphasis on STED and RESOLFT microscopy, and moreover exemplify the relevance of this "optical nanoscopy" to neuroscience.

After the talk, an informal meet-the-speaker reception will take place at the Lounge, next to the seminar hall. Please join us for more personal discussions.

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Hosted by: Leica Scientific Forum Kyoto
iCeMS (Institute for Integrated Cell-Material Sciences), Kyoto University