

SCIENTIFIC SEMINAR

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Fluorescence nanoscopy with sub-10 nm

Super-resolution fluorescence microscopy, also known as fluorescence nanoscopy, represented a breakthrough for bioimaging as it delivers sub-diffraction resolution using far-field microscopes. Although they do not face any fundamental limit, the resolution of the first generation of methods was bound by the limited photostability of fluorophores under ambient conditions to about 10-30 nm resolution. This has motivated the development of a second generation of fluorescence nanoscopy methods that aim to surpass sub-10 nm resolutions, thus providing true molecular resolution. In this talk, I will present the latest efforts of our lab to address this challenge through four different approaches: pulsed-interleaved MINFLUX, SIMPLER, STED-FRET, and RASTMIN.

Thursday, 13.04.2023, 5:30 pm

Host: Stefan W. Hell



Large Seminar Room
Faßberg Campus

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